Final Report

ASSESSMENT OF NATIVE SULFUR POTENTIAL OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

by

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Prepared for
the Texas General Land Office
Austin, Texas
under Interagency Contract No. (86-87)-0787

July 1, 1987

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QAe7840

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ABSTRACT

A model of the requisite geologic and chemical conditions for native sulfur mineralization in evaporite rocks enables an objective first approximation of the regional sulfur potential in and surrounding the sulfur districts of Trans-Pecos Texas. From studies of Gulf Coast salt-dome cap-rock occurrences of native sulfur, it is known that sulfur mineralization in commercial quantities is dependent upon the coexistence of several factors: (1) anaerobic, sulfate-reducing bacteria, (2) hydrocarbons, (3) circulating meteoric ground water, (4) shallow (< 2,500 ft of ground surface) and voluminous deposits of anhydrite and/or gypsum, (5) faults, joints, pervasive dissolution features, or some combination thereof in the evaporite deposit, and (6) structural traps. Bacteria, contained in a mixture of ground water, hydrocarbons, and dissolved calcium sulfate, metabolize the dilute hydrocarbons to form hydrogen sulfide through the chemical reduction of sulfate ions. Oxygenated ground water then oxidizes the hydrogen sulfide to elemental sulfur. Fracture systems allow the mixture of these ingredients and also permit their migration to traps, which provide sufficient residence time necessary for the formation of sulfur in commercial quantities. Definition and evaluation of these geologic aspects in the study areas form the basis of this assessment model.

Structural and stratigraphic conditions of mineralization and sulfur-ore distribution in the Rustler Springs (Culberson and Reeves Counties) and Fort Stockton (Pecos County) sulfur districts were investigated using standard surface and subsurface exploration methods. General Land Office (GLO) log files of approximately 1,400 sulfur exploration wells drilled during the period 1967 to 1970 composed the principal data source of most analyses. Stratigraphic correlation of

the bedded Upper Permian (Ochoan) evaporites of the western Delaware Basin (Rustler Springs sulfur district) through construction of regional cross sections indicates that the component formations (Castile, Salado, Rustler) dip gently toward the east into the center of the basin. Strata are locally disrupted in the central and eastern parts of the sulfur district by small, uniformly northeast-trending graben systems and isolated, high-angle normal faults that probably formed during a period of late Tertiary regional extension. Sulfur mineralization in the Pennzoil Culberson mine and Phillips Ranch deposit is restricted to the downfaulted blocks; structure-contour maps indicate that the grabens containing the respective orebodies are discrete structures. Elongate oil fields in Permian rocks immediately to the northeast are oriented parallel to the grabens, suggesting the same structural control on hydrocarbon distribution. Rigorous photogeologic inspection of the Gypsum Plain and Rustler Hills reveals a concentration of northeast-trending grabens and normal faults and east-trending, fracture-controlled dissolution troughs in the western part of the sulfur district. Computer-generated isopach and structure-contour maps of the sulfur-bearing zone reveal no distinct regional trends in orebody geometry but are invaluable in delineating areas of sulfur concentration. Similar maps of the Fort Stockton sulfur district define a distinct trend of sulfur concentrations along the axis of a northwest-oriented anticline that locally affects bedding of the Guadalupian and Ochoan evaporitic formations (Seven Rivers, Yates, Tansill, Salado, Rustler) on the southern end of the Central Basin Platform. Associated faults, especially along the southwestern edge of the anticline, represent relatively poorly explored areas of high sulfur potential. Presumed hydrocarbon sources are evenly distributed throughout the sulfur district in pre-Ochoan rocks.

Comprehensive computerized databases recording the final tract-by-tract assessment of sulfur and nine other geologic commodities (barite, brine, gypsum, limestone, potash, salt, sand and gravel, strontium, and zinc) on State-owned lands, as well as all geologic data derived from the GLO log files, are presented in the appendices of this report. Areas of high, moderate, and low potential for a particular commodity are defined on the basis of (1) the degree of geologic favorability, (2) the existence of past and/or present production, and (3) the presence of known reserves or resources. A summary map for each sulfur district records all areas that are considered to have significant potential for sulfur on the basis of individual favorability criteria, such as depth (shallowest sulfur occurrence), thickness (thickest orebodies), and concentration (densest surficial fractures) limits. Areas of greatest overlap of the component favorability criteria define regions of highest sulfur potential.

INTRODUCTION

This study, cofunded by the Bureau of Economic Geology of the University of Texas at Austin (BEG) and the General Land Office of Texas (GLO), was initiated late in the fourth quarter of 1985 with the ultimate intent of providing a tract-by-tract evaluation of the sulfur potential of State-owned lands in the Trans-Pecos region of West Texas. Of the 43 types of property within Texas in which the State has a variable degree of ownership or reserved rights, only the 4 largest categories apply to this mineral assessment study. These include fee lands (GLO code 04, both surface and mineral rights owned), mineral classified or Relinquishment Act lands (GLO code 07, surface rights sold, all mineral rights retained), other lands for which surface rights were sold or traded but mineral rights were reserved (GLO code 15), and patented mineral tracts (GLO code 28).

For a variety of geologic reasons that are discussed in this report, only a small number of all State-owned lands in Trans-Pecos are considered favorable for sulfur occurrence. These regions include the Rustler Springs sulfur district of eastern Culberson and western Reeves Counties, the Fort Stockton sulfur district of northern Pecos County, and the areas immediately surrounding both districts (fig. 1). This evaluated property comprises approximately 1,150,000 acres, or roughly 15% of all State land in Culberson, Reeves, and Pecos Counties. The premier deposit of the Trans-Pecos region is Pennzoil's Culberson mine, which has produced more than 28,000,000 tons of sulfur since 1969.

Benefits to Texas

The results of this study are intended to aid GLO primarily in land management. Knowledge of where sulfur is likely to be found on a particular

section of State land will be a critical factor in issuing prospecting permits and mining leases, in establishing royalty rates, in appraising land for sale, and in determining the equity of land trades. The overall assessment will be necessary for a more accurate long-term forecasting of State revenues.

It is hoped that a regional analysis of sulfur potential may also stimulate exploration and production in the state by the mining industry. The assessment will help minimize the time that it takes from the initiation of exploration to the start of production. For the past 20 years, sulfur prices have remained consistently high, thus making the mineral an attractive exploration target. Renewed interest in sulfur exploration, mostly by a few mining companies, by mining subsidiaries of major oil corporations, and by private geologic consultants, is in part a reaction to recently declining revenues from oil and gas production that resulted in the diversion of exploration efforts toward the more profitable commodity. Indirect benefits of bringing more exploration and mining operations into the region include increased State revenue from sales taxes, increased local tax bases, increased revenue to the Permanent University Fund, and increased local employment. The total amount of State revenue derived from sulfur leases and production royalties reached $161,172,000 for the period January 1, 1966, to April 30, 1987; for the 1986 fiscal year, $18,450,000 went to the State (W. Farr, personal communication, 1987). Along with oil and gas, sulfur is one of the most profitable geologic commodities exploited from State-owned lands.

Contract Objectives

The principal objectives of this study include a variety of tasks that are both directly and indirectly related to the geologic analysis of sulfur occurrence. Preliminary organization of data was needed at the outset. GLO transferred to BEG all of their available hard files documenting exploration activity in the study

area. The files consist mostly of prospect permit reports, including radiation, lithologic, and core logs of 23 exploration companies. These files were organized as part of this project to enable easy access. GLO also provided BEG with 52 7.5-minute (scale 1:24,000) U.S. Geological Survey topographic maps on which were drawn all tract boundaries and tract identification (property inventory management) numbers within the area of evaluation. All information was transcribed to BEG work copies of the maps. Approximately 1,450 boreholes for which there is some stratigraphic and lithologic information, as well as all known mines and surface prospects on or near State-owned lands, are located and labeled on the BEG work copies. These maps were returned to GLO for digitizing property, prospect, and borehole locations.

Actual geologic analysis can be differentiated by two categories: noncomputerized and computerized. To detail the regional stratigraphic and structural fabric of sulfur-bearing formations in the study area, a series of cross sections were prepared. Structure-contour maps constructed on the upper boundaries of these formations complement the cross sections by presenting an aerial perspective of structural aspects, such as regional dip, faults, and structural closures. Examination of fractures, large-scale solution features, and other lineaments using high-altitude aerial photographs (stereophoto pairs) in regions of exposed bedrock provides an additional means of detecting possible structures, and therefore, areas of potential sulfur mineralization.

Computerized methods of geologic analysis enable the inspection and manipulation of the great volume of subsurface data derived from the GLO log files. Construction of a primary geologic database with retrieval and updating capabilities was the first step in this process. GLO digitized the precise locations of all boreholes that were located on the BEG work maps. BEG also digitized selected well locations at a smaller scale (1:100,000) in preparation of the

construction of computer-drawn contour maps, including isopach and structure-contour maps.

The final stage of this project was a tract-by-tract assessment of the hard mineral (nonhydrocarbon) resource potential on State-owned lands. Although the assessments are restricted to the West Texas sulfur districts and their immediate surrounding areas, a format that can be expanded to other geographic sections of the state has been used.

The geology of Texas, including the rock types, structures, and tectonic history, dictates the types of mineral resources that have been produced and that are likely to be produced. A total of 43 hard mineral commodities are considered in the assessments because they have at least moderate potential for future production in Texas (table 1). Another 22 commodities have some potential as byproducts of other production but are not treated separately (table 1). Geologic conditions are unfavorable for economically significant deposits of other hard mineral commodities listed in table 1.

Of the 43 hard mineral commodities considered in statewide assessments, 10 have at least locally moderate potential in and near the sulfur districts of Trans-Pecos Texas. In addition to sulfur, these commodities are barite, small amounts of which were mined southwest of the Rustler Springs sulfur district; brine, as formation waters at depth; gypsum, also mined southwest of the Rustler Springs sulfur district and widespread in the subsurface in both sulfur districts; limestone, widespread in the subsurface and locally in outcrop; potash, mined in New Mexico, in the northern part of the Delaware Basin; salt, locally present in the subsurface in the Delaware Basin; sand and gravel, present in alluvial deposits along major streams and in the eastern part of the area studied in Culberson and Reeves Counties; strontium, which occurs in celestite in the barite and sulfur deposits in the region; and zinc, which occurs in small deposits in Permian carbonates in the Apache Mountains, south of the Rustler Springs sulfur district.

Price and others (1983) presented details of the barite, gypsum, and zinc deposits.

The primary focus of this study is the assessment of the sulfur resource potential in and near the known sulfur districts of Trans-Pecos Texas. Individual tracts of State-owned land are categorized as having high, moderate, or low potential for sulfur production by using a numerical scale, which is objectively based on criteria established by the regional geologic analysis and the presumed mode of sulfur mineralization. The other nine commodities are categorized as having high, moderate, or low potential on the basis of favorable geologic conditions or known resources. The final assessments were entered into a computerized database to be transferred to GLO.

History of Sulfur Exploration

The existence of sulfur in Trans-Pecos Texas has been known since 1854 when William Blake, a geologist for an expedition surveying railroad routes from the Mississippi River to the Pacific Ocean for the U.S. War Department, discovered outcrops of native sulfur in the bed of Delaware Creek in northeastern Culberson County (Skeats and others, 1902). Although other frontier geologists reported numerous surficial sulfur occurrences in this region during the late 19th century, the first comprehensive account of sulfur deposits was not published until 1902 by E. M. Skeats, E. A. Smith, and W. B. Phillips of the University of Texas Mineral Survey, the precursor of the Bureau of Economic Geology. Richardson (1904) similarly documented numerous commercial quantities of sulfur in northern and west-central Reeves County and in the vicinity of the Rustler Hills of Culberson County.

The first reported indication of sulfur in the Fort Stockton sulfur district of northern Pecos County is from the log of an oil well drilled about 1900 on the

Kinsella oil prospect in Sec. 19, Blk. 140, T&STL. Ry. Survey (Adkins, 1927; McNeal and Hemenway, 1972). This log recorded 175 ft of high-grade sulfur ore between 200 and 600 ft.

During World War I, the demand for sulfur suddenly increased worldwide. Intensified sulfur prospecting, especially in the Rustler Springs region, resulted in the discovery of additional deposits and substantially enlarged the area in which sulfur was known to occur. Porch (1917) reported on the numerous surface prospects and pit mines that were worked at this time. Attempts were made to mine and extract the ore on a commercial scale, but these efforts produced only small quantities of sulfur.

After World War I, a decline in the demand for sulfur caused the closure of the mines (Bishop and Dixon, 1968). Because of their great size, favorable location, and lower cost of production, sulfur deposits from Gulf Coast salt domes soon became the world's most important source of sulfur (Evans, 1946) and remained the major U.S. source until the 1960's.

With a worldwide sulfur shortage and progressively rising sulfur prices beginning about 1964, exploration resumed in Culberson, Reeves, and Pecos Counties. All U.S sulfur companies and several major and independent oil companies joined the search (table 2). An added incentive for exploration took the form of inexpensive lease rates for the large amounts of State-owned lands in the three-county area. Under the old (1919) State mineral claiming law, rentals were $0.50 per acre per year; after 5 years, the developer could file for a patented claim at a cost of $7.50 per acre. On March 15, 1967, however, the Texas Legislature passed a law that repealed all previous provisions for staking mining claims on State-owned lands for sulfur and other minerals and established new leasing procedures. Leasing rates rose immediately and sharply. The exploration companies that still retained lease rates under the old law hurried to find and develop sulfur deposits, resulting in a great flurry of drilling activity

from 1967 to 1970. Most GLO log files used in this study are from this period. Drilling activity declined precipitously after 1970 and has only recently increased at a moderate rate.

The most significant sulfur discoveries from the period 1967 to 1970 include Pennzoil Corporation's (formerly Duval) operation near Fort Stockton in Pecos County, the nearby mine run by ARCO (formerly Sinclair Oil and Gas Co.), and the massive Culberson mine owned by Pennzoil in the Rustler Springs area. All are operated using the Frasch method of mining (Ellison, 1971). The Culberson mine, the largest of the three, began sulfur production on September 30, 1969. Cumulative production from the mine as of December 31, 1985, was 28,703,157 long tons (LT) with estimated recoverable reserves of 31,524,000 LT (W. F. Mullican III, personal communication, 1987). The average daily production of 6,000 to 7,000 LT ranks the Culberson mine as the largest producing sulfur mine in the Western Hemisphere. Most of the sulfur is used to produce sulfuric acid and to process phosphate ores for fertilizers.

MODE OF SULFUR MINERALIZATION

Biochemical Conditions of Mineralization

It has long been known from studies of native sulfur in Gulf Coast salt-dome cap rocks that sulfur deposits occurring in association with anhydrite and gypsum are generated in the presence of liquid hydrocarbons by the metabolic processes of anaerobic sulfate-reducing bacteria (Thode and others, 1954; Feely and Kulp, 1957). This bioepigenetic process is one of several modes of native sulfur mineralization (table 2). Davis and Kirkland (1970) demonstrated that native sulfur deposits in upper Permian (Ochoan) evaporite strata of Trans-Pecos Texas are also bioepigenetic in origin. Current thinking holds that such stratabound sulfur ore forms through a sequence of subsurface chemical and physical processes (in part generalized from Ruckmick and others, 1979):

(1) Solution and/or dispersion of hydrocarbons in artesian meteoric waters containing anaerobic sulfate-reducing bacteria, Desulfovibrio desulfuricans, Clostridium nigrificans, or Thiobacillus thioparus.

(2) Migration of these waters through anhydrite-bearing strata by way of fractures.

(3) Hydration of anhydrite to gypsum with solution of $CaSO_4$.

(4) Bacterial oxidation of the hydrocarbons to CO_2 and reduction of sulfate (SO_4^{-2}) to sulfide (H_2S or HS^-); this step may be simultaneous with step (3).

(5) Oxidation of H_2S to elemental sulfur either by oxygenated ground water (Davis and others, 1970) or by excess SO_4^{-2} and accompanying alteration of gypsum in situ to secondary calcite.

These reactions can be summarized by the following equations:

$$CaSO_4 + CH_4 \text{ (petroleum) in the presence of sulfate-reducing bacteria} = H_2S + CaCO_3 + H_2O,$$

where meteoric ground water is the oxidizing agent

$$H_2S + 0.5O_2 = S + H_2O$$

or where excess SO_4^{-2} is the oxygen source

$$SO_4^{-2} + 3H_2S = 4S + 2OH^{-1} + 2H_2O.$$

Physical Conditions of Mineralization

It is stressed that there is an association of several geologic factors necessary for the formation of bioepigenetic stratabound sulfur deposits. All such factors are more or less of equal importance; without any one of them, sulfur would not be deposited in commercial quantities.

Meteoric ground water passing through evaporite source beds is generally believed to be the oxidizing agent that transforms H_2S to elemental sulfur in the Trans-Pecos sulfur districts (Davis and Kirkland, 1979). Circulating ground water also acts as a transporting agent of hydrocarbons and bacteria, effectively flushing these ingredients from underlying or adjacent aquifers to the zone of sulfur mineralization. Dilution of hydrocarbons by ground water is probably necessary, because the metabolic activity of sulfate-reducing bacteria is minimized or absent in relatively high concentrations of hydrocarbons (Ruckmick and others, 1979). Finally, ground-water dissolution of anhydrite, gypsum, and halite beds in the Delaware Basin creates the vuggy to cavernous porosity and much of the permeability that allows the mixture of water, hydrocarbons, and bacteria. Dissolution is also probably enhanced by the metabolic activity of the bacteria. As hydrocarbons and sulfate ions are utilized by the bacteria, the associated ground water becomes undersaturated with respect to calcium sulfate, and anhydrite/gypsum dissolution occurs (Davis and Kirkland, 1970).

A shallow and voluminous deposit of anhydrite and/or gypsum provides the requisite source of sulfur in the form of sulfate (SO_4^{-2}) ions after dissolution of the evaporite mineral by ground water. Therefore, the maximum depth of sulfur mineralization in evaporite source beds is restricted by the greatest depths of ground-water percolation, perhaps as much as 2,000 to 2,500 ft along fracture zones in the study area.

The existence of faults, joints, pervasive dissolution features, or some combination thereof in the source rock is necessary to allow the unrestricted migration of ground water, hydrocarbons, and bacteria to the eventual site of sulfur mineralization. These fracture systems provide effective conduits within the relatively impermeable bedded evaporites (anhydrite, gypsum, halite) of the study area.

Formation of commercial masses of native sulfur appears also to require a seal or cap on the ground-water/hydrocarbon circulatory system (Ruckmick and others, 1979). This seal must trap the mixture of biological and chemical ingredients in a highly permeable fractured zone and allow the large volumes of bacteria-generated H_2S sufficient residence time to be oxidized. Geologic control on circulation impedance takes the form of structural traps, involving either faults and joints (Rustler Springs sulfur district) or flexures (Fort Stockton sulfur district) with the actual seal provided by an overlying impermeable rock unit, such as shale.

Secondary Calcite

Calcite (limestone) masses are distinctive and characteristic features of the shallow subsurface (< 2,000 ft deep) throughout both sulfur districts and of the surface in certain areas of outcrop (Gypsum Plain, Culberson County). Zimmerman and Thomas (1969) suggested that subsurface limestone bodies found along the Fort Stockton high of northern Pecos County are reefs. However, it

has been clearly demonstrated through carbon isotope abundance studies that limestone deposits associated with sulfur mineralization in the Rustler Springs (Davis and Kirkland, 1970) and, by inference, in the Fort Stockton (McNeal and Hemenway, 1972) sulfur districts are secondary and biogenetic.

Morphologic and lithologic aspects of these secondary masses are similar in both sulfur districts. Except in mine areas, they occur as irregular bodies of limited areal extent, typically pinching out between wells with spacings of 1,500 ft or less. Larger masses with diameters as much as 2,000 ft or more and with laterally branching extensions are associated with commercial sulfur masses in some mines. Castiles, or limestone buttes restricted to the western half of the Gypsum Plain (Castile Formation outcrop belt), represent partially exhumed secondary calcite masses exposed by differential weathering of the softer gypsiferous host rock (Kirkland and Evans, 1976). Sulfur mineralization in castiles is relatively sparse, suggesting that these geomorphic features are examples of bioepigenetic deposits that had uncapped ground-water/hydrocarbon circulatory systems (Ruckmick and others, 1979). Castiles range in size from a few tens to several thousands of square feet and rise 10 to 100 ft above ground surface; they are comparable in dimension to most secondary calcite masses encountered in the subsurface throughout the sulfur districts. These masses commonly preserve the original texture of the host rock. In the Rustler Springs sulfur district, secondary masses of the Castile Formation are typically composed of regularly interlaminated, light and dark fine-grained calcite, reflecting the original, prereplacement lithology of interlaminated anhydrite/gypsum and dark, organic-rich calcite (Kirkland and Evans, 1976). Other examples of secondary calcite from the Rustler Springs (Davis and Kirkland, 1970) and Fort Stockton (McNeal and Hemenway, 1972) sulfur districts retain the coarsely brecciated texture of the host rock (see Dissolution Features).

METHODS OF ANALYSIS

When formulating an effective sulfur assessment model for the Trans-Pecos sulfur districts and surrounding areas, it was necessary to consider those geologic factors that are characteristic of known sulfur occurrences in these regions. The distinctive combination of conditions of stratabound bioepigenetic sulfur deposits outlined previously (hydrocarbons, fractures, meteoric ground water, bedded anhydrite/gypsum, secondary calcite) can be detected or at least suggested using geologic data derived from the subsurface and outcrop.

Noncomputerized Methods

Subsurface Methods

GLO Log Files

Prospect permit reports with the accompanying radiation, lithologic, and core logs, submitted to GLO by various exploration companies, were the primary data source for all geologic analyses. For a variety of reasons previously discussed (see History of Sulfur Exploration), all log files are from the period 1967 to 1970. Figures 2 and 3 illustrate the areas within Culberson, Reeves, and Pecos Counties for which there is well coverage. Table 3 lists the 23 different operators and the total number of wells completed by each within the study areas.

Radiation logs--Most radiation logs comprise both gamma ray and neutron runs, with a minor number showing only the gamma-ray signature. Representative radiation logs and discussions of the log signatures of each formation penetrated by exploration wells are provided in the section Stratigraphy of Ochoan Rocks. Total depths of wells range from 350 ft or less in the western

part of the Rustler Springs sulfur district, where the basal section of the east-dipping Ochoan evaporite sequence crops out (base of Castile Formation), to 2,050 ft in the eastern part of the sulfur district. In the Fort Stockton sulfur district, well depths are relatively more uniform, ranging from 660 to 1,420 ft. Logs were run from ground surface to total depth with the base of surface casing generally at around 30 to 50 ft. Stratigraphic tops of all Permian formations in each well were noted and recorded for later inclusion in the computerized database. The stratigraphic limits of locally occurring Cretaceous and Tertiary/Quaternary units were determined for all logs used in the regional stratigraphic cross sections. An attempt was made to search for supplementary oil and gas well logs at the Railroad Commission of Texas in Austin. Wells drilled in areas of data gaps were of particular interest. Of those relatively few oil and gas logs available to the public, virtually all log runs started at depths greater than 2,000 to 3,000 ft. Several logs that recorded the top of the Guadalupian Bell Canyon Formation (top of Lamar Limestone member) were used to supplement data presented on the corresponding structure-contour map (fig. 29). Oil companies were apparently interested in hydrocarbon targets in pre-Ochoan strata.

Lithologic logs--Lithologic logs derived from descriptions of well cuttings accompanied all radiation logs in the prospect permit reports. Unfortunately, the precision and detail of the descriptions vary greatly between operating companies. Some operators, for example, submitted detailed descriptions of cuttings for every 5-ft interval from ground level to total depth. Hand-colored sample logs sometimes accompanied these descriptions. Other operators, presumably (and understandably) more protective of their primary data, provided sketchy descriptions of only the gross lithologic sequence from their wells. Curiously, however, most operators indicated sulfur shows (designated as trace, moderate, or strong) on their logs, and one operator, Duval Corporation (now Pennzoil),

furnished sulfur assays for the many wells in the vicinity of its mining operations in Culberson and Pecos Counties.

Lithologic logs complement the radiation logs by enabling confirmation of formation sequences; vertical lithologic changes generally coincide closely between the two log types. Where available, well records with the most detailed lithologic logs were preferentially selected for use in the construction of regional cross sections. Aside from greater confidence in stratigraphic sequence interpretation, the more detailed logs provide information that is not found in the generalized ones. For example, occurrences of oil stains, brecciation, and secondary limestone are well documented.

Core logs--Core logs are found in less than 5% of all prospect permit reports and are restricted to the Rustler Springs sulfur district. Because of their sparse distribution, they were of limited use in regional geologic analysis. At the local scale, however, core logs clarified details of the stratigraphy that are not resolvable by examination of lithologic logs. The location of lithologically homogeneous breccia zones is a prime example (see Dissolution Features).

Regional Cross Sections

Regional structure and distribution of boreholes were the governing factors used to define the orientation and location of cross sections. In the Rustler Springs sulfur district, Ochoan evaporite strata compose an east-dipping monocline. A total of six cross sections oriented parallel and perpendicular to regional dip transect most of the sulfur district (fig. 4). The northeastern and southwestern parts of the district are not represented because of a lack of data. The Fort Stockton sulfur district comprises a series of small structural highs occurring along

a northwest-trending anticline of the Fort Stockton high. Section lines are aligned parallel and perpendicular to the anticlinal axis (fig. 5). In both sulfur districts, several of the cross sections were designed to pass near known sulfur-producing operations in order to determine the local structural influence on sulfur mineralization. Similar structural environments occurring elsewhere could then, by extrapolation, be used to predict the likelihood of mineralization in areas surrounding these producing tracts.

Structure-Contour Maps

Elevations of formation tops from interpreted well logs were used to construct structure-contour maps, which furnish the third dimension (plan view) that the cross sections cannot provide. These maps represent three horizons in the Rustler Springs sulfur district and two in the Fort Stockton sulfur district. Although these maps could have been generated by computer, it was decided that hand-drawn versions would better illustrate fault locations derived from locally sparse data. All faults detected in the regional cross sections are included in the structure-contour maps. Limited formation-elevation data from a published study (Zimmerman and Thomas, 1969) provided greater well control for the structure-contour map on the top of the Bell Canyon Formation (fig. 29).

Surficial Methods

Exposure of Ochoan strata in the study areas is limited to the Gypsum Plain and Rustler Hills of Culberson County (fig. 1). Because of the arid climate, sparse vegetation, and gently dipping bedrock in this region, an aerial photographic survey is an efficient and effective method of examining large-scale surficial fractures, dissolution structures, and other lineaments. Some surface

features, mostly solution-subsidence troughs and shallow depressions, were described previously (Olive, 1957; Bodenlos, 1978). In the context of this study, a regional inspection of fracture/lineament patterns helped define zones of particularly extensive surficial (and by inference, subsurface) fracturing that might indicate areas of sulfur mineralization. Knowing the orientation of the more persistent fracture/lineament trends was also useful in the alignment of faults detected in the subsurface through log correlation.

The examined area covers approximately 875 mi^2 between the Texas/New Mexico border in the north, the eastward-flowing Cottonwood Creek of central Culberson County in the south, the western limit of the Castile Formation in the west, and the 104°00' north longitude in the east (fig. 1). Stereophotographs (scale 1:26,000) were borrowed from the Texas Natural Resources Information System in Austin. Field evidence of possible displacement along most prominent lineaments and solution-subsidence troughs is obscured by pervasive weathering and dissolution deformation (E. W. Collins, personal communication, 1987), although Barnes (1983) and Kreitler and others (1986) documented numerous northeast-trending, high-angle normal faults and variably oriented joints in the westernmost Gypsum Plain. The length (as much as 7 mi long), the extreme linearity of most lineaments, and their proximity to extensive fault systems in the adjacent Delaware Mountains and eastern foothills, however, leads one to believe that their origin is tectonic (see Structure of Ochoan Rocks).

Geophysical Methods

Unfortunately no geophysical techniques were incorporated in the sulfur resource assessments made in this study. Perhaps the most applicable method is gravity, because the porous, sulfur-bearing ore zones have distinctly lower densities

than the enclosing anhydrite, gypsum, or limestone. Publicly available gravity data are collected from stations too widely spaced to be of much use in sulfur exploration. Closely spaced proprietary data that we were allowed to examine do, in fact, indicate a sizable negative gravity anomaly at Pennzoil's Culberson mine. Other negative anomalies that occur in the region have been and should continue to be investigated during exploration. Drilling programs based entirely on gravity surveys have yielded poor results either because most sulfur ore is too deep to be detected with sufficient resolution or because pervasive, near-surface dissolution zones produce density lows that mask possible orebodies (Smith, 1978).

Computerized Methods

Geologic Database

All geologic data presented in the BEG computerized databases were derived from analysis of approximately 1,450 well records from the GLO files. Hard copies of the databases are provided in appendices 1 and 3.

VAX Computer

The computer system used in this study is the VAX 11/780 with VMS version 4.3 designed and manufactured by Digital Equipment Corporation. Serving the BEG facility through numerous remote terminals, the system has 8 megabytes of main memory and 2 disks with a total of 924 megabytes of mass storage. VAX DATATRIEVE, the actual database program, is a query and report writer capable of hierarchical storage. The SMARTSTAR screen interface was used in the design and construction of the databases presented in appendices 1 and 3.

Database Records

The record, or category file, of each sulfur exploratory well consists of either 14 (Culberson and Reeves Counties) or 15 (Pecos County) fields (data categories), depending on the number of formations encountered in the two regions (fig. 6, table 4). There are limitations of accuracy and comprehensiveness inherent in some of the fields. Well elevation, if not given on the radiation log, was determined from the well's plotted location on a topographic map. Well location was measured relative to the boundaries of its section; the section boundaries were hand-drawn on the topographic map by GLO from surveyor plat maps. Some error probably exists in the placement of section boundaries and, therefore, also in the location and elevation of wells within those sections. Fields recording sulfur occurrence (table 4) are probably accurate for those wells with sulfur data. However, it is possible, although not evident, that sulfur data may have been suppressed for proprietary reasons from some wells in the public GLO log files.

Computer-Generated Contour Maps

Along with the other material submitted to BEG by GLO at the start of the study, county property maps at 1:133,333 (Culberson and Reeves Counties) and 1:100,000 (Pecos County) scale also were presented. As part of this assessment study, both hand-drawn and computer-generated contour maps are designed to fit as overlays for their corresponding county maps. State-owned tracts could then be individually evaluated relative to the assessment criterion illustrated on each map.

Digitizer

Once the primary database was completed, well locations were approximated using a Tektronix 4054 digitizer. Although GLO had already digitized all well

locations for their own use, transfer of this file to BEG was not possible because its format was not compatible with the VAX system. BEG digitized only the central points of all State-owned tracts and designed data files (comprising data to be plotted and contoured) that contained either the average, the maximum, or the minimum value of a particular set of data from all boreholes within each tract (table 4). For example, from the data entered into the database field "DEPTH TO TOP S" (table 4), only the minimum value (depth of shallowest sulfur occurrence) of all boreholes from each tract was chosen to be a data point on figures 41 and 51 (table 5). A plot of shallowest sulfur was intentionally designed to illustrate an economically favorable condition; that is, shallower sulfur is less costly to locate and to subsequently mine. In a similar manner, figures 43 through 50 and 53 through 60 present geologically optimistic conditions (table 5); a regional commodity assessment designed for land management should predict the highest reasonable potential value of the property.

CPS-1 Contouring Program

Radian Corporation's Contour Plotting System, or CPS-1, is the general purpose contouring program used in this study. CPS-1 contains a collection of elementary operations called "verbs" and a control program that links the verbs together in a "verbstem" to process, analyze, and display surfaces. Each map is constructed using a single verbstem. The principal benefit of the verb concept is that the program is extremely flexible because the user can link the verbs together in many combinations. Contour interval and map scale, for example, are map parameters that can be freely manipulated. Copies of all verbstems designed for each map in this study are provided in appendix 2.

Structure-Contour and Isopach Maps

CPS-1-generated maps are listed in table 5. Geologic aspects of all sulfur maps are discussed in the section Structure of Ore Bodies. Figures 42 and 52 (elevation of base of sulfur, deepest), figures 7 and 8 (number of boreholes per section), and figures 9 and 10 (total depth) do not illustrate features that are directly applicable to a regional sulfur assessment. However, these maps are included to aid the explorationist in visualizing the regional variability of exploration activity (figs. 7 and 8), in locating possible unexplored stratigraphic zones below preexisting boreholes (figs. 9 and 10), and by adding further regional perspective to the geometry of the mineral deposits (figs. 42 and 52).

Care was taken in designing the verbstem of each map so that there would be no projection of the contoured surface slope into void areas either beyond the minimum and maximum values or between data points. For example, to avoid unfounded exaggeration of sulfur potential, sloping parts of the contoured surface on each sulfur isopach do not extend above or below the nearest minimum or maximum value, respectively. Using the ZFIT verb parameter (line 4 of each verbstem in appendix 2), the surface is essentially contoured strictly in direct relation to the data points. This results in a plot that typically has a large number of contour closures centered around data points (bull's-eyes).

GEOLOGY OF SULFUR-BEARING STRATA OF THE DELAWARE BASIN AND CENTRAL BASIN PLATFORM

Geologic Setting

Stratabound sulfur ore of Trans-Pecos Texas occurs in Upper Permian (Ochoan Series) evaporite units deposited in the Delaware Basin (Rustler Springs sulfur district) and on the Central Basin Platform (Fort Stockton sulfur district). The Delaware Basin, Central Basin Platform, and Midland Basin collectively compose the Permian Basin of West Texas and southeastern New Mexico (fig. 11). The differentiation of these three structural subdivisions began in Middle Pennsylvanian time when vertical movement along zones of weakness inherited from late Precambrian lateral faulting induced formation of a mountainous partition between the Delaware and Midland Basins (Keller and others, 1980; Hills, 1984). As these basins continued to expand and deepen during the Pennsylvanian, broad limestone shelves grew along the basin margins. By Early Permian time, these limestones (including extensive reefs) also covered the eroded roots of the central mountains, thus forming the Central Basin Platform. Locally in northern Pecos County, this structure is represented by the Fort Stockton high.

Ochoan evaporite beds (fig. 12) represent the final major phase of marine sedimentation in the Delaware Basin. Long periods of limestone and fine clastic sedimentation during most of the Late Paleozoic gave way to evaporite deposition at the close of the Permian Period as a result of the progressive circulation restriction of the Delaware sea (Hills, 1942, 1972). The Castile Formation, the basal unit of the Ochoan Series, records deep-water deposition of a distinctive sequence of rhythmically interlaminated calcite and anhydrite layers that can be correlated basinwide (Anderson and others, 1972). Beds of anhydrite, salt,

dolomite, and minor clastics in the overlying Salado Formation accumulated in shallower environments, perhaps lagoons (Adams, 1944; Hills, 1972). Deposition of the Rustler Formation began with the final incursion of the Permian sea into the southwestern U.S. The unit is lithologically similar to the Salado but contains relatively more dolomite and clastic units in the sulfur districts. Continental sedimentation, represented by the Dewey Lake Redbeds of latest Ochoan age, marks complete withdrawal of the sea from the Delaware Basin area.

A maximum of 24,000 ft of Phanerozoic sedimentary rocks fill the Delaware Basin. Approximately 8,000 to 10,000 ft of Permian (Wolfcampian through Ochoan) strata equivalent to the upper part of the Delaware Basin sequence accumulated on the southern end of the adjacent Central Basin Platform. In the Rustler Springs sulfur district, the sulfur-bearing Ochoan sequence (Castile through Rustler Formations) (fig. 12) ranges from 1,775 to 1,900 ft thick. The component formations are typically thinnest near outcrop; local variation in thickness is mostly due to dissolution of halite and anhydrite/gypsum beds within these formations. The equivalent Ochoan sequence (Salado and Rustler Formations) of the Fort Stockton sulfur district is 520 to 710 ft thick.

Stratigraphy of Ochoan Rocks

Rustler Springs Sulfur District

Ochoan strata of this western sulfur district are differentiated into four formations (in ascending sequence): Castile, Salado, Rustler, and Dewey Lake Redbeds (fig. 12). Only the first three units contain sulfur-bearing bedded evaporites. The Dewey Lake Redbeds, undifferentiated Tertiary/Quaternary

surficial deposits, and, more rarely, the Cretaceous Cox Sandstone are encountered in the upper parts of boreholes and are useful in local and regional correlation studies. Therefore, brief discussion of these units also is merited.

Castile Formation

Outcrop distribution--As represented in Barnes (1983), the Castile Formation in Texas forms a broad, east-dipping, north-to-south outcrop belt (Gypsum Plain) extending from the Apache Mountains in the south to the Texas/New Mexico border in northern Culberson County (fig. 13). Outcrop width ranges from 5 mi at its southern limit to approximately 25 mi in the north. The overlying Salado Formation is probably represented in the eastern part of this outcrop belt, but because of pervasive hydration of anhydrite and dissolution of gypsum and halite in the near-surface zone, the two formations cannot be easily differentiated. The Castile was named by Richardson (1904) from exposures at Castile Springs in northern Culberson County.

Subsurface distribution--The Castile Formation is 1,000 to 1,500 ft thick and is widespread throughout the Delaware Basin (King, 1942). In the sulfur district, the unit ranges from 1,000 to 1,080 ft thick (figs. 14 through 17). In the eastern part of the Delaware Basin near the Fort Stockton sulfur district, the formation thins to just a few feet in the basal part and grades into uppermost Capitan reef carbonate deposited along the Central Basin Platform (Hills, 1972). The contact between the Castile Formation and the underlying Lamar Limestone of the Guadalupian Bell Canyon Formation (fig. 12) also is gradational (Cys, 1978).

Lithology--The Castile Formation is composed of anhydrite, gypsum, rhythmically interlaminated salts of different solubilities (calcite and anhydrite, anhydrite and halite), halite, limestone, and minor amounts of very fine clastics.

Gypsum as a hydrated product of the original anhydrite is concentrated within approximately 300 to 500 ft of the surface in all evaporitic formations throughout the sulfur district. Locally, along near-vertical fracture zones, gypsum occurs at greater depths.

The formation is well known for its distinctive alternating laminations of calcite and anhydrite. Couplets, or lamination pairs, can be correlated up to 70 mi across the basin and are thought to represent sedimentation of one year (Snider, 1966; Anderson and others, 1972). This small-scale and distinctive morphology makes the Castile an easy stratigraphic unit to identify in outcrop and core. Some lithologic sample logs describe the dominant lithology as a "calcareous banded anhydrite".

Other rock types constitute a subordinate part of the Castile Formation. Halite beds, the principal large-scale marker beds of the formation in the northern and eastern parts of the Delaware Basin, are present only in the northern part of the Rustler Springs sulfur district (fig. 18). Correlation of halite beds with horizontal dissolution breccias indicate that halite once extended to the western part of the basin (Anderson and others, 1978). In the absence of these halite units, the stratigraphic division of the Castile into alternating halite (Halite I, II, III) and anhydrite (Anhydrite I, II, III, IV) members as proposed by Anderson and others (1972) is not possible throughout much of the study area.

A characteristic feature of many wells from the sulfur district is the appearance of 50 to 180 ft of "massive, uniformly white, finely crystalline" gypsum and anhydrite in the uppermost Castile sequence. This lithology contrasts sharply with the underlying laminated and dominantly anhydritic interval. Adams (1944) described an unconformity separating the Castile and overlying Salado Formations. The erosion surface is marked by irregular hydration and dissolution of the upper Castile evaporites. Hills (1972) believed

that regional northeastward tilting of Castile beds prior to Salado deposition best explains this aspect. The homogeneous gypsum at the top of the Castile within the Rustler Springs sulfur district possibly records this episode of structural activity.

Representative log--When researching the stratigraphy of the sulfur district, it was found that there is a paucity of published studies in which the precise log (gamma ray, neutron) character of the Ochoan formations is described. Snider (1966) and Anderson and others (1972) provided examples of the Castile's gamma-ray and sonic log signatures. However, because the GLO files provided no diagnostic sonic logs and because not enough shale occurs in the formation to produce significant variability in the included gamma-ray logs (fig. 19), their examples were of minimal use to this study. Stratigraphic boundaries were chosen after a comprehensive comparison of all radiation logs with the accompanying lithologic sample logs. Care was taken to provide consistency in the choice of stratigraphic picks from log to log throughout both sulfur districts. A radiation log representative of each formation is presented and discussed to enable other workers to critically assess the precision and accuracy of correlation.

The base of the Castile Formation is the most distinctive of all Ochoan formation boundaries (figs. 19 and 20). The Lamar Limestone is regionally extensive and an excellent marker bed. The unit occurs in most wells as 20 to 25 ft of black, argillaceous limestone; locally, it is a black, calcareous shale. The Lamar exhibits sharp kicks of both the gamma-ray and neutron logs, reflecting the high clay content and fine grain size (low porosity), respectively, of the unit.

The upper limit of the formation was more difficult to define, primarily because of the variability in description detail in the GLO lithologic sample logs. Some record the precise depth of the top of the calcite and anhydrite

interlaminations; the sample description that accompanies the representative log (fig. 19) pinpoints the highest occurrence of lamination at 1,060 ft. However, most lithologic sample logs are not as precise, describing the upper part of the formation as either anhydrite or gypsum and anhydrite with or without limestone. For the purposes of regional correlation, the top of the Castile Formation is placed at the top of the distinctive vertical and nearly uniform neutron log signature (at 890 ft in fig. 19). The gradual downward increase in neutron intensity that marks the basal part of the overlying Salado Formation (figs. 19 and 20) is characteristic and represents the appearance of dolomite, shale, sandstone, and, in the shallower occurrences, a greater percentage of gypsum in the section. The gamma-ray signature of the Castile is typically nearly uniform throughout but begins to display more variabilty (ranging from slight to pronounced) at the upper boundary, reflecting the appearance of clastics at the base of the Salado. On radiation logs where the top of the laminated sequence can be located from the attendant lithologic description, no distinct break in the log signature is evident at that horizon. The commonly gypsiferous interval between the chosen top of the formation and the highest occurrence of lamination possibly represents the period of paleohydration/dissolution previously discussed.

Salado Formation

Outcrop distribution--The eastern part of the Gypsum Plain (figs. 1 and 13) probably includes the outcrop of some of the Salado Formation, although the formation's geographic limits are obscured (see Castile Formation, Outcrop distribution). Regional dip sections (figs. 14 through 16) indicate that the Salado is present in the shallow subsurface with some near-surface thinning evident (fig. 15). King (1942) and Adams (1944) believed that some Salado is exposed but that most of the unit is truncated in this region by an unconformity at the base

of the overlying Rustler Formation. They noted that the Salado thickens toward the east away from the outcrop. Kroenlein (1939) suggested that the present westernmost extent of the formation approximates the original limits of the deposit. The unit was originally described by Lang (1935) and was named after Salado Wash in northern Loving County, Texas.

Subsurface distribution--In the Rustler Springs sulfur district, the Salado Formation ranges from 380 to 700 ft thick (figs. 15 through 17, 21) and was deposited both in the Delaware Basin and on the bordering shelf areas. King (1942) stated that the formation has a minimum original thickness of 1,000 ft or less near the basin margins and is as much as 2,000 ft thick in the deepest (east-central) part of the Delaware Basin. Snider (1966) provides a maximum thickness of 2,530 ft for the Salado in the eastern part of the basin. Some anomalously low thicknesses in the sulfur district are probably a result of local dissolution of gypsum along fault zones (figs. 15 and 16). However, the progressive eastward (from outcrop) dissolution of thick Salado halite beds (Anderson and others, 1978) and the aforementioned truncation of the upper Salado Formation in the western and west-central parts of the Delaware Basin probably account for most of the regional thickness variation.

Lithology--The Salado Formation comprises a slightly more diverse assemblage of rock types than does the Castile. In the sulfur district, bedded anhydrite and gypsum, dolomite, gray and red shale, and minor fine sandstone, which occurs mostly in the lower part, are characteristic. The greatest differences between the Salado and Castile Formations in the sulfur district are (1) the absence of thick intervals of interlaminated calcite and anhydrite in the Salado, (2) the occurrence of dolomite in the Salado, and (3) the greater abundance of clastics in the Salado. Smith (1978) noted that clastic units in the lower part of the Salado Formation range from several tens to 300 ft thick in the sulfur district and probably represent a southerly trend of increasing clastics away from reef

carbonate deposition in the north. Throughout the rest of the Delaware Basin, the Salado is predominantly halite with lesser amounts of anhydrite, dolomite, sandstone, siltstone, and, locally in the northern part of the basin, potash salts such as polyhalite (Adams, 1944). As in the Castile Formation, halite is absent in outcrop and in the shallow subsurface of the western Delaware Basin, occurring only in the northern part of the sulfur district (fig. 18). Salado halite beds can also be correlated with beds of dissolution breccia in regions where salt removal has occurred (Anderson and others, 1978).

Representative log--The top of the Salado Formation in the sulfur district can be located on radiation logs with somewhat more confidence than can its base. Both radiation and lithologic sample logs record a moderately distinct lithologic change at the Salado/Rustler boundary. The upper third to half of the Salado typically comprises a nearly homogeneous lithology of anhydrite and/or gypsum and minor dolomite. The associated log response (fig. 20) reflects this homogeneity with a vertical and nearly straight neutron signature that extends slightly into the basal Rustler Formation in some wells. Minor variations (increases in neutron density) in this nearly straight-line neutron response are mostly due to the occurrence of more porous beds of dolomite and/or anhydrite dissolution breccia. The gamma-ray log of the entire Salado Formation is moderately uniform; sharp increases in gamma radiation record shale, siltstone, and argillaceous sandstone beds, especially near the base. The lower part of the Rustler Formation contains abundant clastics (informally designated as the siltstone member by Eager, 1983); the associated gamma-ray log response is pronounced, reflecting the contrast between the evaporites of the upper Salado and these clastics.

Rustler Formation

Outcrop distribution--The Rustler Hills and adjacent plains immediately to the east in eastern Culberson and western Reeves Counties compose the outcrop belt of the Rustler Formation within the Rustler Springs sulfur district (Barnes, 1983) (figs. 13, 15 through 17). The east-dipping, north-to-south-trending outcrop belt ranges from 5 to 12 mi wide and extends from the Apache Mountains in the south to the Texas/New Mexico border in the north. Numerous outliers of the unit crop out on the eastern half of the Gypsum Plain. The eastern outcrop limit is more difficult to determine because the upper evaporitic part of the formation is extensively weathered and poorly exposed. The upper boundary is probably buried beneath the western edge of the extensive Quaternary surficial deposits that cover most of Reeves County. Cretaceous formations overlie much of the Rustler in east-central Culberson County. The unit was named by Richardson (1904) for the Rustler Hills.

Subsurface distribution--The Rustler Formation, the youngest unit of the Ochoan Series that contains bedded evaporites, ranges from 300 to 410 ft thick (figs. 15, 16, and 21) in the sulfur district and is, like the Salado Formation, distributed throughout the Delaware Basin and on adjacent shelf areas (King, 1942). In the northern, central, eastern, and southern parts of the basin, the unit is 250 to 670 ft thick with a tendency to thicken towards the south (Snider, 1966).

Lithology--Where the lower part of the Rustler Formation crops out in the Rustler Hills, the section consists of dolomitic limestone, limestone breccia, gypsum, and mudstone with minor sandstone and siltstone mostly near the base (Hall, 1952; Tunnell, 1952). Pervasive disruption of bedding due to dissolution of Rustler and possibly Castile gypsum is characteristic of the Rustler Hills. East of the Rustler Hills, the upper part of the formation is mostly gypsum.

The complete Rustler section is preserved in the subsurface and can be divided into two lithologic divisions, an upper 150- to 175-ft unit of anhydrite and/or gypsum and a lower sequence of dolomite, anhydrite, sandstone, and shale (Adams, 1944). In the southwestern part of the Delaware Basin, anhydrite and dolomite beds of the lower part grade into dolomite and limestone, respectively. In the northern and eastern parts of the basin, dolomite decreases in abundance. Halite occurs in place of some of the anhydrite from the upper and lower divisions at the northeastern edge.

In the Rustler Springs sulfur district, the formation is divided into six members (in ascending sequence): siltstone member, lower gypsum-mudstone member, Culebra Member, Tamarisk Member, Magenta Member, and Forty-niner Member (fig. 20) (Eager, 1983). Individual members were not correlated regionally in this sulfur study but they were located on most logs to identify local loss of section through dissolution and possible fault displacement. Gypsum dissolution and the resulting occurrence of breccia beds within the Rustler Formation are common. The basal siltstone member is 95 to 145 ft thick and is composed of gray and/or red siltstone and mudstone in the lower part and dolomite or dolomitic limestone typically at the top. The lower gypsum-mudstone member contains gray and tan mudstone and gypsum with or without thin dolomite over an interval 35 to 50 ft thick. The Culebra Member (50 to 55 ft thick) comprises locally laminated or brecciated gray dolomite. Massive and nodular gypsum and anhydrite with an intervening bed of gypsiferous gray mudstone characterize the Tamarisk Member; sequence thickness ranges from 105 to 125 ft. The Magenta Member is 20 to 28 ft thick and is composed of interbedded dolomite and gray gypsiferous dolomite. The Forty-niner Member (70 to 90 ft thick) closely resembles the Tamarisk Member in both sequence and lithology; it contains an upper and lower anhydrite/gypsum unit sandwiching a thin gray mudstone or siltstone bed.

Representative log--Because of its lithologic heterogeneity, the Rustler Formation displays the greatest range in gamma-ray and neutron responses of all the Ochoan units in the Rustler Springs sulfur district. The radiation log signatures of the component members illustrated in figure 20 can be compared with the respective lithologies previously described. Figure 20 represents a complete Rustler sequence; variations are common, especially in the near-surface region. Dissolution of gypsum-bearing members and the concurrent collapse of overlying beds produce brecciated strata that disrupt the Rustler sequence. As much as 30% of the original thickness can be lost through dissolution. Because of the greater porosity created by brecciation, neutron signatures typically show large increases. Corresponding gamma-ray log responses are highly variable, reflecting the mix of lithologies created by the dissolution/collapse deformation.

Dewey Lake Redbeds

Outcrop distribution--This formation lies conformably on the Rustler and occurs in only sparse, isolated exposures between the Rustler Hills and the western limit of Quaternary surficial deposits that cover most of Reeves County. Eifler (1976) and Barnes (1983) mapped a few outcrops in westernmost Reeves County and along the Pecos River immediately to the north. However, inspection of the regional stratigraphy in the sulfur district indicates that the Dewey Lake is more extensive but only locally exposed, primarily in small grabens (figs. 15, 16, and 21). Outcrop is largely obscured by a thick mantle of gypsite (as much as 20 ft thick) and alluvium (as much as 120 ft thick). The unit was originally described by Page and Adams (1940) from a subsurface section located near Dewey Lake, an alkali lake in northern Glasscock County, Texas.

Subsurface distribution--The Dewey Lake Redbeds occur at the top of the Permian section in both the Midland and Delaware Basins. The overlying Upper

Triassic Dockum Group rests unconformably on the Dewey Lake in some areas, but elsewhere the contact is gradational, suggesting that Lower and Middle Triassic deposits may be hidden in the Dewey Lake (McGowen and others, 1979). In the Delaware Basin, the formation attains a maximum thickness of 350 ft and is regionally limited to structurally low areas along the eastern and southern edges (Adams, 1944). In the sulfur district, the Dewey Lake is 80 to 200 ft thick (figs. 15, 16, and 21) and is locally unconformably overlain by the Lower Cretaceous Cox Sandstone (Hall, 1952).

Lithology--The Dewey Lake Redbeds comprise a homogeneous lithology of reddish-brown mudstone and siltstone commonly with gray reduction spots (Eager, 1983). All lithologic sample logs from the Rustler Springs sulfur district similarly describe the formation as dominantly red mudstone. Minor gypsum is locally present as cement, secondary crystals, and vein-fills.

Representative log--The radiation log signatures of the Dewey Lake are characteristically uniform, which is in marked contrast to the underlying Rustler Formation (fig. 20). There is minimal vertical variation in porosity values as indicated by the nearly vertical neutron log response. The gamma-ray signature consistently exhibits more vertical variation, reflecting the relative clay content of the beds.

Cox Sandstone and Undifferentiated Surficial Deposits

The Lower Cretaceous Cox Sandstone crops out locally in the southeastern part of the sulfur district along the Culberson/Reeves county line (Barnes, 1983). Differentiation of the Cox from locally thick Quaternary/Tertiary surficial deposits is difficult when using radiation and lithologic sample logs because the two units share a number of characteristics. Both units typically contain irregular interbeds of muddy, sandy, and gravelly sediment and occur at the top of well logs (figs. 15 through 17, 20 through 22). However, unlike the younger alluvial material,

the Cox beds are well indurated; conglomerate clasts are composed mostly of chert with minor quartzite (Hall, 1952). The Quaternary/Tertiary material is commonly unconsolidated or only locally cemented and contains a heterogeneous clast assemblage of locally derived lithologies such as dolomite, limestone, and mudstone. In some wells, either large blocks or beds of Permian gypsiferous bedrock are encountered within the basal parts of the unconsolidated alluvial deposits; lithologic sample logs incorrectly suggest that the sands and gravels are intercalated with the Permian beds. However, this is from the perspective provided by a borehole only several inches wide. This apparent intercalation probably documents dissolution and detachment of gypsiferous bedrock with subsequent infilling of cavities or caverns with the younger alluvium.

Fort Stockton Sulfur District

Commercial sulfur ore of the Fort Stockton region of northern Pecos County (fig. 1) is probably confined to or at least most abundant in the Ochoan Salado Formation. Some uncertainty exists because of a lack of detailed production data from all mines. However, exploration wells throughout the sulfur district commonly penetrate evaporite-bearing formations that are older than the Salado. Explorationists presumably recognized the potential for ore mineralization in the underlying units. These pre-Salado, Guadalupian strata are differentiated into three formations (in ascending order): Seven Rivers, Yates, and Tansill (fig. 12). In the Fort Stockton sulfur district, the Salado Formation represents the basal Ochoan division and overlies the Tansill. The Castile Formation was not deposited on the Central Basin Platform and is therefore absent. The Rustler Formation and the nonevaporitic Dewey Lake Redbeds complete the Ochoan

stratigraphy in the sulfur district (fig. 12). A nearly ubiquitous and locally thick (as much as 550 ft) Quaternary/Tertiary blanket of predominantly unconsolidated deposits obscures most bedrock.

Regional and local geologic aspects of this stratigraphy are presented in a format similar to that of the Rustler Springs sulfur district. However, because no Permian units are exposed (Eifler, 1976), a sectionoon outcrop distribution is not included.

Seven Rivers Formation

Subsurface distribution--The Seven Rivers Formation is present throughout the Midland Basin and adjacent shelf and the Central Basin Platform (Page and Adams, 1940; King, 1942; Tait and others, 1962; Hills, 1972). The unit ranges in thickness from approximately 800 ft in the Midland Basin to 370 ft or less on the Central Basin Platform. Only the upper part of the Seven Rivers is penetrated by exploration wells in the Fort Stockton sulfur district (figs. 23 through 25). The unit was originally described by Meinzer and others (1926).

Lithology--The Seven Rivers Formation exhibits regional variation in rock composition. Within the Midland Basin, the unit comprises as much as two-thirds halite, with the remainder made up of anhydrite and minor amounts of sandstone and dolomite; near the eastern margin of the basin, halite and anhydrite grade into sandstone, which characterizes the outcrop (Page and Adams, 1940). On the Northwestern Shelf and Central Basin Platform, the Seven Rivers was deposited in a restricted back-reef area of the Capitan reef complex and consists mostly of anhydrite/gypsum (King, 1942). In the reef area and the Fort Stockton sulfur district at the southern edge of the Central Basin Platform, the unit is primarily dolomite (Mear and Yarbrough, 1961; Hills, 1972).

At the ARCO Fort Stockton sulfur mine, the formation is composed of a tan, brown, and gray, fractured, microcrystalline dolomite with thin beds of gray, shaly siltstone and dark-brown to black shale and streaks of white to gray, finely crystalline gypsum; locally, gray to tan, finely crystalline limestone is present (McNeal and Hemenway, 1972). Regionally within the sulfur district, there is little lithologic variation in the formation.

Representative log--The Seven Rivers/Yates formation boundary in the Fort Stockton sulfur district (figs. 26 and 27) is difficult to locate precisely on radiation logs because of the marked regional variation in Yates lithology. In northern Pecos County, the lowermost 5 to 15 ft of the Yates is typically composed of fine sandstone that overlies Seven Rivers dolomite (Mear and Yarbrough, 1961); the complementary use of comprehensive lithologic sample logs is necessary to achieve consistent accuracy in the identification of this formation boundary. To further complicate the problem, the Yates Formation in the southern part of the sulfur district is lithologically similar to the Seven Rivers Formation. Both units comprise interbedded dolomite and sandstone or siltstone; the Seven Rivers contains a greater proportion of dolomite. However, the gross similarity in the rock sequence is reflected in the radiation log signatures of the two units (fig. 26).

Yates Formation

Subsurface distribution--Conformably overlying the Seven Rivers Formation, the Yates is also distributed throughout the Midland Basin and adjacent shelf and on the Central Basin Platform (Page and Adams, 1940; Tait and others, 1962). The unit was originally described as the Yates Sandstone, an 80- to 125-ft-thick sandstone marker bed in the Yates oil field of Pecos County (Gester and Hawley, 1929). However, this bed does not everywhere include all strata between the Seven Rivers and Tansill Formations. Mear and Yarbrough (1961) formally

proposed that the Yates Formation be expanded to include the stratigraphically undesignated intervals. The Yates attains a maximum thickness of 340 ft near the western edge of the Central Basin Platform in central Ward County; only 80 ft of section composes the unit at the southeastern end of the platform in northeastern Pecos County. In the sulfur district, the unit ranges from 130 to 190 ft thick (figs. 23 through 25).

Lithology--Within the Midland Basin, the Yates Formation consists primarily of red fine sandstone with minor shale, anhydrite, and halite interbeds (Page and Adams, 1940). However, on the southern half of the Central Basin Platform, the unit exhibits lateral variation in lithofacies character. In this region, the Yates is similarly sandstone-bearing but can be differentiated into four distinct lithofacies on the basis of the lithologic dominance of dolomite and/or limestone, sandstone, anhydrite, or red siltstone (Mear and Yarbrough, 1961). Mostly gray and red fine sandstone and siltstone with minor interbeds of gray, finely crystalline dolomite predominate in the northwestern part of the Fort Stockton sulfur district. In the southeastern part, the formation comprises mostly dolomite and subordinate amounts of sandstone and anhydrite/gypsum. In the central part of the sulfur district, the Yates contains two lithologic divisions (McNeal and Hemenway, 1972). The lower part contains tan to gray, argillaceous fine sandstone and siltstone with thin interbeds of tan to brown microcrystalline dolomite. White to gray, finely to coarsely crystalline gypsum with lenses and inclusions of gray and red shale characterize the upper part.

Representative log--Because of the Yates' regional lithologic heterogeneity, radiation log signatures correspondingly vary within the sulfur district. As previously mentioned, without the aid of the lithologic sample log, the dolomite-dominated Yates sequence (southeastern Fort Stockton sulfur district) represented in figure 26 is difficult to distinguish from the underlying Seven Rivers

Formation. However, where argillaceous sandstone composes most of the Yates in the northwest, the two units can be clearly differentiated (fig. 27). The gamma-ray response is particularly indicative; the clay (in sandstone) and shale content of the Yates produces a log that records higher average gamma radiation than that of the dolomitic Seven Rivers. The relatively higher clay content in the Yates also produces a lower average neutron log reading, which reflects the lower porosity of the formation.

The Yates/Tansill contact is moderately distinct in most wells from the sulfur district. The basal part of the Tansill Formation is typically composed of dolomite and anhydrite, which produce lower values of gamma radiation and higher average neutron log values.

Tansill Formation

Subsurface distribution--This uppermost formation of the Guadalupian Series in West Texas was deposited throughout the Midland Basin, the Northwestern Shelf, and on the Central Basin Platform (Page and Adams, 1940; Tait and others, 1962). The Tansill rests conformably on the underlying Yates Formation (Page and Adams, 1940). Tansill thickness within the Midland Basin is typically 100 to 150 ft but reaches a maximum figure of more than 300 ft before it grades into the massive reef facies of the Capitan Limestone (DeFord and Riggs, 1941). In the sulfur district, the Tansill ranges from 50 to 100 ft thick (figs. 23 through 25, 28). Although "Tansill" has been used in subsurface terminology since the 1920's, DeFord and Riggs (1941) formally defined the unit and provided a description of the type section located near Carlsbad, New Mexico.

Lithology--The Tansill Formation contains varying amounts of anhydrite/gypsum, dolomite, halite, and sandstone in the Midland Basin (Page and Adams, 1940). On the Central Basin Platform, the Tansill is similar to the

Yates in displaying regional variation of lithofacies. On the western part of the platform (back-reef area), the Tansill is gray to brown microcrystalline dolomite with anhydrite inclusions. Eastward away from the reef, the formation becomes progressively more anhydritic (Mear and Yarbrough, 1961). Thick beds of fine-grained dolomite and anhydrite, interbedded dolomite and anhydrite/gypsum, and minor sandstone and siltstone characterize the Tansill in the sulfur district. The boundary between the Tansill and Salado formations (Guadalupian/Ochoan contact) represents a disconformity because of the absence of the Castile Formation. However, the top of the Tansill appears gradational with the overlying dolomite- and anhydrite-bearing Salado Formation throughout the sulfur district.

Representative log--Sulfur exploration logs show that there is moderate radiation log contrast between the Tansill and Yates Formations but that the log-expressed boundary between the Tansill and Salado Formations is indistinct (figs. 26 and 27). The appearance of thick anhydrite/gypsum beds in the Tansill produces an increase in the neutron log response and a decrease in the gamma-ray response relative to the underlying anhydrite-poor Yates. However, neither radiation nor lithologic sample logs indicate any regionally consistent distinction between the interstratified anhydrite and dolomite of the Tansill and Salado Formations. For the purposes of this study, the upper boundary of the Tansill was identified by matching the formation's radiation log signatures from the Yates type well (Mear and Yarbrough, 1961) with the signatures from the sulfur exploration wells.

Salado Formation

Subsurface distribution--The Salado Formation is the oldest Upper Permian unit that was deposited in all three components of the Permian Basin (Delaware and Midland Basins, Central Basin Platform). The regional geologic character of

the Salado in the Delaware Basin has previously been discussed. The Salado in the Midland Basin was called by some early stratigraphers (for example, Page and Adams, 1940) the "Upper Castile salt", reflecting the uncertainty of lower Ochoan stratigraphic correlation between the Midland and Delaware Basins. King (1942) subsequently demonstrated that the Castile Formation exists only in the Delaware Basin; the Salado conformably overlies the Castile in the Delaware Basin but disconformably in the Midland Basin and on the Central Basin Platform. The formation reaches a maximum thickness of approximately 1,200 to 1,300 ft in the Midland Basin, but in shallowest occurrences thins significantly to 200 ft or less because of halite dissolution. Along the Fort Stockton high, the Salado Formation ranges from 350 to 650 ft thick.

Lithology--The Salado Formation of the Midland Basin is composed mostly of halite with minor interbedded thin anhydrite, sandstone, shale, and polyhalite units (Page and Adams, 1940; Hills, 1972). Near the northern, southern, and eastern margins of the basin, sandstone and shale predominate. On the southern end of the Central Basin Platform in the Fort Stockton sulfur district, the Salado contains interstratified anhydrite/gypsum (as much as 50 ft thick) and dolomite (10 to 15 ft thick) units in the lower half to two- thirds of the formation and shale, sandstone, limestone, gypsum, and dissolution breccia beds in the upper part. This sequence is characteristic of the ARCO Fort Stockton sulfur mine (McNeal and Hemenway, 1972). Thick beds of anhydrite/gypsum occur with thinner shale and sandstone beds in the upper part of most wells along the northeastern flank of the Fort Stockton high. Microcrystalline dolomite beds of the lower part generally increase in number and thickness downsection as the Tansill Formation is approached. The appearance of dolomite over the buried Capitan reef trend is characteristic of this region (Hills, 1972).

Representative log--Figure 26 exemplifies wells in which the Salado Formation can be differentiated into a distinct anhydritic lower part and a clastic-rich upper part. Anhydrite records relatively high neutron densities and relatively low gamma-ray readings. A moderately abrupt to gradual, upsection decrease in neutron densities in the lower part is characteristic. The clastic member displays log trends that are the reverse of the anhydrite-bearing part. In wells where anhydrite beds extend upward into the clastic part, neutron density values are correspondingly high in this upper part; average gamma-ray values show only slight upward increases. However, the previously described upsection neutron trend of the lower part is generally preserved in these wells.

Rustler Formation

Subsurface distribution--Like the Salado Formation, the Rustler was deposited throughout the Permian Basin of West Texas. The unconformable relationship between the Rustler and Salado Formations in the Delaware Basin gradually changes eastward in the Midland Basin and on the Central Basin Platform where the two units are conformable (Page and Adams, 1940). In these eastern regions, the Rustler is also noticeably thinner than in the Delaware Basin, ranging from approximately 40 to more than 200 ft thick. In the Fort Stockton sulfur district, the Rustler is 45 to 150 ft thick (figs. 23 through 25, 28).

Lithology--On the lithologic sample logs, the Rustler Formation is the most easily recognized of all units described from the Fort Stockton sulfur district. The formation is composed of three distinct divisions that are distributed throughout the sulfur district. The lower member, 10 to 50 ft thick, is a gray to brownish-gray microcrystalline dolomite that is locally calcareous, argillaceous, oolitic, or sandy. The dolomite beds commonly contain vuggy porosity and are

oil stained. In some wells, gray shale beds as much as 10 ft thick are interstratified with the dolomite. The middle member displays regional variability in lithology and ranges from 40 to 65 ft thick. Calcareous siltstone to fine sandstone, red and gray shale, interbedded anhydrite/gypsum and shale, thick-bedded and massive anhydrite/gypsum, and argillaceous sandy dolomite are characteristic but vary laterally in relative abundance and combination. The upper member, 10 to 55 ft thick, is a gray, locally calcareous and oolitic, very finely crystalline dolomite. Like the lower member, vuggy porosity and oil stains are common features. The vertical configuration of the two dolomite units sandwiching a thin clastic/evaporite sequence is ubiquitous; as a unit, the Rustler Formation composes an effective marker bed in the Fort Stockton sulfur district.

Representative log--The radiation log signature of the Rustler Formation in northern Pecos County (fig. 26) retains little of the well-defined log expression characteristic of the formation in the Rustler Springs sulfur district (fig. 20). In most wells from the Fort Stockton sulfur district, the Rustler displays moderate contrast between the underlying Salado sequence and the overlying Dewey Lake Redbeds. Although not illustrated in figure 26, the lower dolomitic member is typically marked by lower average gamma-ray values than the clastics in the upper Salado. A slight increase in the average neutron density complements this shift. Depending on the relative abundance of lithologies in the middle member, the gamma-ray signature can show sharply higher (clastics common) or only slightly higher (evaporites common) values than the lower member. A small decrease in the average neutron log value commonly accompanies this gamma-ray trend. The dolomite of the upper member exhibits log signatures similar to those of the lower dolomite member.

Dewey Lake Redbeds

Subsurface distribution--This uppermost Permian formation rests conformably on the Rustler Formation throughout the Permian Basin of West Texas (Page and Adams, 1940; Tait and others, 1962). The Dewey Lake occurs as a nearly continuous unit in the Fort Stockton sulfur district; lateral continuity is locally interrupted by incision of surficial alluvial deposits of Tertiary and Quaternary age (figs. 23 and 24). This surficial material unconformably overlies the Dewey Lake in much of northern Pecos County (Armstrong and McMillion, 1961) (figs. 23 through 25, 28). As a result, the formation displays a considerable range in thickness (0 to 650 ft) in the sulfur district. It is entirely possible that the upper parts of the thickest redbed sequences contain rocks of the Upper Triassic Dockum Group. Lithologically very similar to the Dewey Lake Redbeds, this Mesozoic unit crops out immediately north of the Fort Stockton sulfur district along the Pecos River (Eifler, 1976).

Lithology--The lithologic homogeneity of the Dewey Lake Redbeds of the Rustler Springs sulfur district is also a characteristic aspect of the unit in the Fort Stockton sulfur district. However, unlike the the mudstone-dominated sequence of Culberson County, the Dewey Lake of northern Pecos County locally contains abundant red fine sandstone interstratified with red mudstone. Elsewhere, mudstone is the principal lithology. In some wells, thinly bedded gypsum occurs near the base of the formation.

Representative log--As in the Rustler Springs sulfur district (fig. 20), the radiation log signatures of the Dewey Lake Redbeds are nearly uniform in the Fort Stockton sulfur district (fig. 26). Minor variations are evident only in those wells that contain gypsum near the base or sandstone throughout the section.

Undifferentiated Surficial Deposits

Extensive, generally unconsolidated surficial deposits of Tertiary and Quaternary age (Armstrong and McMillion, 1961) obscure bedrock in most of northern and western Pecos County (Eifler, 1976). In the eastern part of the Delaware Basin (Reeves and western Pecos Counties), Cenozoic alluvium as much as 1,900 ft thick fills large troughs (Toyah Basin) formed by the dissolution of halite and minor anhydrite in the Castile and Salado Formations and the subsequent subsidence of the overlying bedrock (Maley and Huffington, 1953). However, on the southern part of the Central Basin Platform, the alluvial cover was probably deposited over relatively undisturbed bedrock by the downslope transport of sediment in the Pecos River drainage area. The source of most detritus was the mountainous volcanic and sedimentary terrane to the south in southern Pecos, northern Brewster, and eastern Jeff Davis Counties and outcrops of Cretaceous carbonates and chert in southwestern Pecos County.

Alluvium ranges from 20 to 550 ft thick in the sulfur district and comprises a diverse lithologic assemblage. Most deposits occur as thick (30 to 200 ft), laterally continuous units (figs. 23 through 25, 28). However, locally developed deep channels account for the thickest accumulations (figs. 23 and 24). The maximum depth of incision is typically limited by the resistant upper dolomite member of the Rustler Formation; erosion of this bed in one well is notable (fig. 23). The alluvium is composed of (in order of abundance) clay, sand, and gravel. Clay beds are typically tan to reddish-brown and sandy in units 15 to 50 ft thick. In beds 15 to 125 ft thick, sand is fine to very coarse grained, commonly argillaceous, and locally contains scattered granules and pebbles of limestone and igneous rocks. Some thicker sand units contain numerous thin interbeds of clay. Gravel beds contain granule- and pebble-sized clasts of limestone, igneous rocks, and chert in a matrix of sand and sandy clay. Fragments of carbonaceous wood are locally common. Gravel beds are vertically distributed throughout the

deposits and range from 5 to 60 ft thick.

Radiation log signatures of the alluvium (fig. 26) are highly variable. Generally, however, sand and gravel beds record the highest neutron density values because of their high water content and, therefore, porosity. Gamma- ray readings of these coarse-grained beds are correspondingly low unless the clay content of the bed is high (clay matrix in gravel, argillaceous sand).

Structure of Ochoan Rocks

Regional Structure

Ochoan strata in the Rustler Springs sulfur district dip eastward into the center of the Delaware Basin along a broad monocline (fig. 4). Regional dip ranges from approximately 1.5 degrees near outcrop of the basal Castile Formation to 1 degree or less in easternmost Culberson County. Major deformation, including the eastward tilting of the Delaware Basin and the associated formation of faults and joints and the initiation of regional halite dissolution in the gently inclined strata, is commonly attributed to Tertiary tectonism (Maley and Huffington, 1953; Kirkland and Evans, 1976; Bodenlos, 1978; Smith, 1978). Two separate trends of late Tertiary (King, 1965) normal faults oriented toward the north-northwest and northeast are exposed in the outcrop areas of the Bell Canyon and Cherry Canyon Formations and in the Delaware Mountains immediately west of the sulfur district (Barnes, 1983). The proximity and approximate parallelism of the northeast-trending faults with exposed high-angle normal faults on the western edge of the Castile Formation outcrop and with grabens mapped in the subsurface of the sulfur district (see Rustler Springs

Sulfur District, Faults) strongly suggest that they all formed by the same deformation episode. Henry and Price (1985) and Price and others (1985) described two distinct phases of middle to late Tertiary Basin and Range extension in Trans-Pecos Texas. Early extension was oriented east-northeast, resulting in normal faults trending north and northwest. East-northeast- and northeast-trending fractures presumably document a later change to northwest-oriented extension. The age of this change is not known; however, a similar shift in extension direction occurred in the northern Rio Grande rift and throughout the rest of the Basin and Range Province approximately 10 to 13 m.y.a. (Morgan and Golombek, 1984; Baldridge and others, 1984). Because sulfur genesis is intimately associated with fracture deformation in the Delaware Basin, this age represents a maximum estimate of the initiation of sulfur mineralization in the Rustler Springs sulfur district. Most of the mineralization is probably more recent in age and is possibly an ongoing process.

Guadalupian and Ochoan formations of the Fort Stockton sulfur district are deformed into a northwest-trending anticline along the western edge of the Fort Stockton high of the southern Central Basin Platform (fig. 5). Structural deformation was initiated in post-Rustler, pre-Cretaceous time and was influenced by preexisting beveled anticlines related to Pennsylvanian tectonic development of the southern Central Basin Platform and by possible regional compaction deformation and/or faulting of strata draping the western edge of the Fort Stockton high (McNeal and Hemenway, 1972). Fault development in the sulfur district is post-Dewey Lake in age; the occurrence of faults at the margins of locally deep troughs containing Tertiary and Quaternary alluvium (figs. 23 and 25) hints at the possibility of much younger structural activity. The largest deposits of sulfur formed in local anticlinal culminations that acted as structural traps in which the ingredients necessary for sulfur mineralization could collect.

The timing of significant hydrocarbon migration, deep ground-water percolation, and concurrent introduction of sulfate-reducing bacteria into the strata is difficult to estimate but is probably related to fault development, particularly along preexisting zones of weakness at the western edge of the Fort Stockton high.

Rustler Springs Sulfur District

Faults

Distribution--Faults with enough displacement to be resolved by regional subsurface mapping are found throughout the Rustler Springs sulfur district but are concentrated in the central and eastern parts (figs. 15 through 17, 21, 29 through 31). However, surface mapping limited to the western edge of the Gypsum Plain (Kreitler and others, 1986) and rigorous photogeologic inspection of the entire sulfur district (fig. 32) suggest that fractures (faults, joints, presumed fracture-related solution-subsidence troughs) with surface expression are clustered in the western part, which coincides with the outcrop area of the Castile Formation. This aspect is supported by regional surface mapping by King (1949). The greater surficial definition of fractures in the west is probably due to the progressive westward thinning of the Ochoan evaporite sequence. The homogenizing and masking effects of pervasive dissolution deformation on exposed fractures are probably more pronounced in the thicker evaporite sequence in the central and eastern parts of the sulfur district. In these areas, dissolution effects apparently obscure fractures that are probably at least as prevalent as in the western area.

Geometry--All fractures mapped in the subsurface are high-angle normal faults with values of apparent displacement ranging from 70 to 350 ft but with most values less than 150 ft. Displacement along sulfur-bearing normal faults of the

Phillips Ranch deposit discovered by Texasgulf Inc. (formerly Texas Gulf Sulphur Co.) is about 50 ft (Smith, 1978). Faults are northeast-trending and are oriented from N26°E to N73°E. Pronounced (figs. 15 and 16) and more subtle (fig. 21) variations in formation thicknesses across fault zones are a result of more intensive ground-water dissolution of Salado and Rustler bedded evaporites locally along the fracture zone than in the adjacent, relatively less disturbed strata. Intense brecciation, indicating solution collapse, typically defines segments of the fault zones. Detection of depth limits of fault influence is limited by the total depths of the sulfur exploratory wells (generally < 1,500 ft deep) upon which correlations are based. However, it is assumed that these faults are basement-controlled, although northeast-trending fractures are absent (Hills, 1970) or are only a minor component (Ewing, in preparation) of basement structure in Culberson and Reeves Counties. Elongate and regularly northeast-trending Guadalupian and pre-Permian oil fields in northeastern Culberson and northwestern Reeves Counties are aligned parallel to the faults and suggest regional and probably deep-seated structural control (Geomap, 1981) (fig. 33).

Parallel faults forming small graben systems (as much as 0.5 mi wide, 3 mi long) are characteristic of the central and eastern parts of the sulfur district (figs. 15 through 17, 21, 29 through 31) and are locally the sites of commercial quantities of sulfur ore (Smith, 1978; Duval Corporation, 1982). Parallel, northeast-trending lineaments and aligned solution sinks in the Rustler Hills immediately south of the Culberson Mine and Phillips Ranch deposit (fig. 32) probably represent the surface expression of the graben systems that compose these two sulfur deposits. The alluvial valley of Virginia Draw on the western (fig. 17) and eastern (Duval Corporation, 1982) margins of the Rustler Hills coincides with segments of probably two distinct parallel grabens. In other areas, grabens contain alluvium from older drainage systems and/or colluvial fill of

dissolution depressions (figs. 15 and 21).

The recognition of grabens is largely dependent upon the available well control. Because of locally pronounced dissolution deformation and disruption of strata, it is difficult to confidently identify fault displacement between wells with maximum spacings of more than about 2 mi. However, it is reasonable to assume that other northeast-trending grabens and tensional faults occur throughout most of the sulfur district because these features probably originated from regional tectonic stresses. Unexplored grabens are potentially important sites of sulfur mineralization.

Dissolution Features

Solution-subsidence troughs and depressions--East- to east-northeast-trending troughs are prominent linear geomorphic features of the Castile Formation outcrop in the western Gypsum Plain (fig. 32). Troughs are typically less than 20 ft deep, a few hundred feet to three-quarters of a mile wide, and 0.5 to 7 mi long. Modern drainage generally does not coincide with the troughs. However, dissolution features such as caverns, sinkholes, and fissures are common in areas of trough development. Castiles occur rarely along the margins of some troughs. Olive (1957) provides a comprehensive account of the possible origin of these structures. He believes that eastward-trending fractures, probably joints, that are parallel to regional dip act as the principal conduits for ground-water movement below the Gypsum Plain. The dissolution effects of eastward-flowing water moving along the joints in the evaporite-bearing strata produce numerous cavities in vertical zones between the Lamar Limestone immediately below the Castile Formation and the ground surface. The recharge area is probably the Delaware Mountains (fig. 1). Dissolution cavities may coalesce or form a honeycomb of caverns that produce linear sags or troughs at the surface. The presence of

troughs in only the lower Castile Formation (western Gypsum Plain) may in part be due to the occurrence of near-surface impervious beds, possibly such as the Lamar Limestone, which restrict ground-water flow close to the surface and, therefore, concentrate the effects of dissolution in this zone. The process of dissolution and subsidence in other areas of the sulfur district may be active at depth, but the effects of these processes along vertical planes (fractures) would become more diffuse upward, thus not forming linear troughs at the surface.

The dissolution effects of meteoric water percolating downward through evaporites of the sulfur district have produced a variety of closed depressions, sinkholes, and shallow-seated caverns (Bodenlos, 1978). Depressions and sinkholes are either locally clustered or occur as isolated entities. The alignment of some in trends as much as 3.5 mi long suggest that they may compose incipient solution-subsidence troughs.

Dissolution and collapse breccias--As discussed previously, breccia beds are characteristic features of the Castile and Salado Formations in the western part of the Delaware Basin (Anderson and others, 1978). Breccias can be correlated with halite beds still preserved in deeper parts of the Delaware Basin, and, therefore, represent the postdissolution remnants of the salt that was once present in the western part of the basin. Anderson and others (1978) describe two forms of breccia: dissolution and collapse breccias. Dissolution breccia consists of subangular to angular and elongate fragments of laminated anhydrite in an impure, fine-grained anhydrite matrix. Breccia textures range from matrix-supported, with matrix composing more than 50% of the volume, to clast-supported, with fragments oriented approximately parallel to the original stratification and associated with relatively little matrix. Finely disseminated anhydrite, calcite, and organic matter composing the matrix were originally

incorporated into the halite beds. Thicknesses of breccia beds range from a few inches to more than 10 ft. Collapse breccias typically overlie beds of dissolution breccia and represent the fracturing and collapse of roofrock above the dissolution zone. Angular fragments of laminated anhydrite are closely spaced in a tight, interlocking pattern with little or no fine-grained anhydrite matrix. Dolomite breccias are particularly common in the Rustler Formation where interbedded gypsum has been removed. Fragment size is greater than in dissolution breccias, commonly exceeding 15 inches in length. Anhydrite collapse breccias encountered in core descriptions from the sulfur district attain thicknesses of as much as 50 ft and locally contain anhydrite matrix with finely disseminated sulfur. It is suspected that collapse breccias are more common in sulfur exploration wells than is indicated by lithologic sample logs; monomineralic breccias with large fragment sizes are difficult to detect as disturbed zones through examination of only well cuttings.

Breccia pipes--Circular dissolution sinks are prominent geomorphic features of the Rustler Formation outcrop belt (Rustler Hills) in the Rustler Springs sulfur district (fig. 32). The topographic depressions are craterlike in morphology and range from several hundred to 2,000 ft in diameter. In plan view, the peripheral rims surrounding the central depressions are mostly circular or elliptical, but less pronounced examples (exhibiting more erosion and presumably older) have arcuate or semicircular shapes. Bedrock immediately surrounding each structure is uniformly dipping away from its center, forming a structural dome. However, this is only a local phenomenon; surface dip changes to a variety of orientations within short distances away from the structures, reflecting the pervasive surface-dissolution deformation (large-scale folds, tilted blocks, numerous sinkholes) of the Rustler Formation (Kreitler and others, 1986). There are numerous striking

similarities in size, geometry, and structure between these domes and domal structures that are exposed immediately to the north in equivalent strata of southeastern New Mexico. The structures of the two states are believed to represent the same feature. The New Mexican structures are breccia pipes that formed by a multiphase dissolution process (Vine, 1960; Reddy, 1961; Snyder and Gard, 1982). It is suggested that the domes originated as circular sinkholes formed by the dissolution of anhydrite/gypsum in the Rustler Formation. The collapse of the insoluble residue into the sink created a breccia core. The domal structure formed by one of three possible mechanisms (Vine, 1960):

(1) Differential dissolution of halite from strata surrounding the breccia pipes resulting in subsidence and draping of beds surrounding the breccia core. It is assumed that the breccia pipe would act as a protective cap to retard dissolution of underlying halite.

(2) Intrusive flow of halite into and uplift of the breccia pipe soon after dissolution, brecciation, and the subsequent creation of void space.

(3) Hydration of anhydrite to gypsum in the core breccia resulting in a volume increase of 1.65 times.

No commercial quantities of native sulfur are currently known to occur in these breccia pipes. However, surface shows of sulfur are common in the deformed strata throughout the Rustler Hills. Among the physicochemical conditions necessary for massive sulfur mineralization, the breccia pipes probably lacked only one, the seal. If they did originate as sinkholes, the porous breccia was probably always exposed; no sealing stratum was present to allow the required long residence time of the various sulfur-generating ingredients.

Flexure

The northwest-trending anticline that composes the Fort Stockton sulfur district is the most pronounced Late Permian structure in west-central Pecos County (McNeal and Hemenway, 1972) and has influenced bedding of the Rustler and Salado Formations and underlying Guadalupian units (figs. 23 through 25, 28, 34, and 35). Maximum relief of the flexure is approximately 550 ft; dip values are greatest along the southwestern flank, which coincides with the westernmost edge of the Central Basin Platform. Several local culminations of the anticline are concentrated along the crest of the structure. However, others would undoubtedly be resolved elsewhere through mapping with greater well control. The ARCO Fort Stockton sulfur mine (SW1/4, Sec. 19, Blk. 140, T&STL Ry. Survey; 13 mi northeast of Fort Stockton) is situated within one of these culminations (figs. 34 and 35). The Pennzoil (Duval) Heiner sulfur mine (SW1/4, Sec. 591; NW1/4, Sec. 590; NE1/4, Sec. 589; SE1/4, Sec. 592 of Blk. 202, H&GN RR. Co. Survey) lies on the northeast flank of the anticline. Ochoan and pre-Ochoan oil fields occur throughout the sulfur district, indicating an abundant source of hydrocarbons for sulfur genesis (fig. 36).

Faults

Several high-angle normal faults were detected through subsurface mapping of the Fort Stockton high (figs. 34 and 35). A major northwest-trending fault or fault zone along the southwestern margin of the anticline parallels the edge of the structure and probably originated through reactivation of basement faults that mark the edge of the Central Basin Platform in northern Pecos County (Ewing, in preparation). Apparent displacement along the fault is 200 ft (fig. 25). Another fault, probably northeast-trending, was detected north of the Pennzoil

deposit (fig. 23). Apparent displacement is 100 to 150 ft. The third fault, located between the sulfur mines, is interpreted from the proximity of wells exhibiting anomalously variable formation-depth data. No pronounced dissolution effects are evident along the fault zones, although small changes in formation thicknesses and changes in apparent-displacement values may reflect some postfaulting modification of bedding through removal of evaporite rock. The coincidence of faults and locally thick Quaternary/Tertiary surficial deposits (figs. 23 and 25) suggest differential subsidence in the vicinity of the permeable fault zones. Alternatively, this association may be evidence of Late Cenozoic fault activity. No commercial quantities of sulfur are currently known to occur along the faults. However, relatively sparsely explored or unexplored areas along the northwest-trending fault zone, especially along its northern extension, are considered to have high potential for sulfur occurrence.

Geologic Occurrence of Sulfur

Structure of Orebodies

Near-Surface Deposits

Acidic sulfur earth occurs in the gypsite-alluvium mantle of the Castile Formation outcrop and has been mined as a source of fertilizer (Evans, 1946). The gypsite-alluvium mantle is a compact to semiconsolidated deposit consisting of weathered gypsum in both earthy and crystalline forms (gypsite), quartz sand, gravel, sulfur and sulfuric acid, clay, and carbonaceous matter. Native sulfur occurs as irregular masses, encrustations, and disseminated crystals in an earthy matrix that is commonly soft and porous and that is gray, brown, or almost black. The gypsite is concentrated in the upper and thinnest part of the mantle,

whereas sand and gravel are most abundant in the lower, thick part of the deposit. Gravel clasts range from granule to boulder size and are composed mostly of reworked breccia, dolomite, and limestone of the Rustler Formation and overlying units. Mantle thickness varies considerably over short distances largely because of sharp dissolution-related irregularities in the underlying bedded gypsum surface. In open-pit mines of the eastern Gypsum Plain (Michigan Mine, Weigel and Cooksey prospects), acidic sulfur earth is typically 6 to 25 ft thick beneath a gypsite cover 2 to 4 ft thick. Maximum thickness of the material is as much as 43 ft (Porch, 1917).

Local Geology of Mines

Culberson mine--Pennzoil Corporation's massive Culberson mine, the largest of the sulfur mines in the entire Trans-Pecos region, is located in Sections 2, 3, 4, 9, 10, 11, 15, and 16 of Block 111, PSL Survey, Culberson County. The deposit lies along the east side of the Rustler Hills and beneath Virginia Draw, an alluvial valley cutting through the Rustler Hills. From an aerial perspective, the orebody is roughly elliptical in shape and is approximately 3 mi long and 1.5 mi wide (fig. 37). The greatest concentration of sulfur ore is near the center of the body in Sections 10 and 15.

The elongate orebody trends northeast and coincides with a graben of the same attitude (figs. 29 through 31). The ore zone occurs between the depths of 300 and about 2,200 ft and consists of vuggy secondary limestone and dissolution breccia at several intervals within the graben. The deepest sulfur-bearing zones are irregularly shaped secondary limestone deposits that are oriented along a nearly vertical fault zone near the center of the graben (fig. 38). Fracturing extends at least into the upper part of the Bell Canyon Formation. However, orebodies are restricted to the Castile and Salado Formations (Duval Corporation, 1982). The shallowest orebody is a broad, tabular limestone-replacement zone as

much as 400 ft thick that occurs in the Salado Formation within 250 to 300 ft of the surface in some areas. Overlying the sulfur-bearing Salado limestone throughout most of the mine is a clay bed ranging from a few inches to several feet thick (Duval Corporation, 1982). Although only a minor stratigraphic feature, this bed marks the upper limit of mineralization and probably served as an upper seal or cap for the physicochemical processes of sulfur formation.

The source of hydrocarbons used by sulfate-reducing bacteria to form the sulfur deposits of the Culberson mine and other Castile orebodies (Phillips Ranch, Pokorny deposits) was probably the Bell Canyon Formation. Some controversy exists concerning whether oil or gas was the nutrient for the bacteria. In either case, a significant volume of hydrocarbons was required for sulfur mineralization at the Culberson mine -- an equivalent of more than 200 million barrels of oil (Smith, 1978).

Phillips Ranch deposit--Like the Culberson mine to the east, the Phillips Ranch sulfur deposit occurs in a small, northeast-trending graben (figs. 29 through 31, 39). The orebody is located in Sections 14, 15, 22, and 23 of Block 110, PSL Survey, Culberson County. The body is elongate (9,000 ft long, 1,000 ft wide); greatest concentrations of sulfur are located in vuggy secondary limestone scattered in the central part of the graben (Smith, 1978), possibly along fault zones within the downfaulted block (Duval Corporation, 1982). Sulfur mineralization took place primarily at the base of the Castile Formation approximately 1,400 to 1,900 ft below the surface.

Pokorny deposit--The Pokorny deposit, located about 20 mi northwest of the Culberson mine (Block 61, Twp. 1, T&P RR Co. Survey), does not occur in a graben but does appear to be associated with a fracture zone. Smith (1978) indicates that this deposit is found beneath one of the numerous fracture-related solution-subsidence troughs found on the western Gypsum Plain of Culberson

County. A core description of the deposit provided by Davis and Kirkland (1970) shows that native sulfur crystallized in porous, vuggy zones and, more rarely, in seams and thin beds in approximately 70 ft of secondary limestone from the lower part of the Castile Formation (depth 665 to 735 ft). Oil-bearing beds are scattered throughout the sequence, a characteristic feature of most of the Trans-Pecos sulfur deposits.

Fort Stockton mine--ARCO's Fort Stockton sulfur mine (Sec. 19, Blk. 140, T&STL Ry. Survey) of northern Pecos County is situated in a small structural closure along the crest of an anticline that acted as a stratigraphic trap for the hydrocarbon fuel of sulfate-reducing bacteria (fig. 40). The total area of sulfur mineralization encompasses 65 acres with the thickest sulfur deposits occurring near the apex of the structure; sulfur zones extend but thin toward the flanks of the structure (McNeal and Hemenway, 1972). Commercial sulfur ore is concentrated in secondary limestone of the Salado Formation. A minor amount has been recovered from the Tansill Formation within vuggy dolomite. Depths of sulfur mineralization range from about 150 to 710 ft.

McNeal and Hemenway (1972) envision the following sequence of events related to the formation of the Fort Stockton sulfur deposit:

(1) Formation of a local fracture-free closure on the larger anticlinal trend that is associated with more regional fracturing,

(2) Migration of bacteria and hydrocarbons through the regional fractures to the structural crest and the resulting alteration of gypsum to H_2S and calcite, and

(3) Oxidation of H_2S to form native sulfur.

Meteoric ground water, the probable oxidizing agent in step (3), presumably migrated to the local closure through the same fracture systems that allowed hydrocarbon movement.

Regional Geometry of Sulfur Occurrences

Rustler Springs sulfur district--Computer-generated contour maps (table 5) were constructed primarily as aids in evaluating the sulfur potential of individual tracts within and surrounding the sulfur districts. However, regional aspects of sulfur distribution illustrated on these maps merit discussion. It is emphasized that all apparent regional trends and patterns are strongly influenced by the distribution of boreholes within the sulfur districts; characteristically numerous contour closures tend to emphasize the local higher drilling densities. An attempt was made to minimize any exaggeration of geometry by eliminating most projection of contour-surface trends between data points (boreholes). Because the contour maps do not represent real surfaces, contoured areas for which there is no data were plotted in relation to the nearest data points. These regions should be disregarded when attempting to visualize any regional trends in sulfur distribution. In the Rustler Springs sulfur district, the regional aerial and vertical distribution of sulfur is also significantly influenced by the stratigraphic limits of the Ochoan evaporite sequence. Therefore, in the western half of the district, where the base of the Castile Formation is nearest the ground surface, the evaporite sequence is thinnest and sulfur parameters tend to be smaller (for example, thinner sulfur zone, shallower sulfur occurrences).

Two structure-contour maps are presented: depth to top of sulfur (fig. 41) and elevation of base of sulfur (fig. 42). Figure 41 illustrates the depths of the shallowest sulfur occurrences for each section. The highest stratigraphic

occurrences are concentrated in the western part of the sulfur district where the Ochoan sequence is thinnest. The western edge of data coverage is parallel to and just east of the western edge of the Gypsum Plain. The patch of anomalously shallow (100 to 282 ft) sulfur shows in the east-central part of the map area marks the Pennzoil Culberson mine. The northeast trend of the graben that contains the orebody is clearly defined and is parallel to the boundary faults mapped in the subsurface (figs. 29 through 31). Figure 42 considers the lowest stratigraphic occurrence of sulfur within each section. The deepest (lowest elevation) sulfur deposits are consistently found in the east, again reflecting the eastward-thickening trend of the Ochoan evaporite sequence. The graben trend at the Culberson mine is not as clearly defined as on figure 41 but is nonetheless evident.

Isopach maps compose the bulk of the computer-generated maps from both sulfur districts. For the purposes of definition

(1) Net sulfur isopachs are based on the cumulative thickness of all sulfur-bearing intervals within each well. For example, if a lithologic sample log of a well is divided into 5-ft intervals and sulfur shows are recorded in ten of these intervals scattered throughout the well sequence, the net sulfur value of that well would be 50 ft. The reader should take note that this value is higher than the actual cumulative thickness of sulfurous rock because each of the 5-ft intervals is typically not entirely sulfur bearing.

(2) Values of gross sulfur isopachs are derived from the interval difference between the deepest recorded sulfur show and the shallowest show within each well. However, as much as 80 to 90% of these sequences may be barren of sulfur.

(3) Two versions of each isopach map are provided: maximum and average. Isopachs comprising maximum values were constructed from the largest thickness values of all wells from each section. Those maps using average values incorporate the average sulfur thickness values for each section.

(4) The grade of sulfur shows that are recorded on the lithologic sample logs and core logs ranges from trace to commercial quantities. Following the convention of McNeal and Hemenway (1972), a value of 5% sulfur was used as the lower ore-grade cutoff.

In the Rustler Springs sulfur district, net and gross sulfur isopach maps (figs. 43 through 46) illustrate similar patterns of sulfur distribution. Given the large-scale structural simplicity of the western Delaware Basin (monocline), the pervasive fracturing of the evaporite sequence, and the apparently ubiquitous nature of residual hydrocarbons, one would expect to find sulfur occurrences randomly distributed throughout the sulfur district. Such is the case. Curiously, however, there is an area of thick, sulfur-bearing rock in the western part of the district. Because this area contains the thinnest interval of evaporite strata, sulfur deposits might be predicted to be proportionally thinner in the west. The districtwide recurring sulfur mineralization at the base of the Castile Formation may explain this apparent inconsistency. Other areas of thick sulfur coincide with the Culberson mine (east-central part of maps) and the Pokorny deposit (northwestern corner of maps).

Isopach maps of ore-grade (>5%) sulfur (figs. 47 through 50) tend to emphasize sulfur mineralization at the Culberson mine and at the aforementioned unnamed western deposit. Lack of data at least partially accounts for the poor

coverage of the sulfur district. However, like the noncommercial sulfur isopach maps, these maps suggest an even, if sporadic, distribution of higher grade mineralization throughout the district.

Fort Stockton sulfur district--The highest stratigraphic occurrences of sulfur on the western part of the Fort Stockton high in northern Pecos County is in the central part of the area (fig. 51). The northwesterly trend of the anticline can be discerned, and shallowest sulfur shows coincide with the axis of the anticline. This relationship is expected because the apex of the structure served as the stratigraphic trap in which the biological and chemical ingredients necessary for sulfur formation accumulated. The distribution of deepest sulfur shows (fig. 52) is more heterogeneous than that of the shallowest sulfur and represents the lowest stratigraphic occurrences of noncommercial (trace) amounts of sulfur.

Net and gross isopach maps (figs. 53 through 56) also clearly illustrate the anticlinal trend. On the net sulfur maps, as many as four pockets of thick sulfur are defined and probably represent the local anticlinal culminations in which sulfur mineralization was concentrated. The central closure of figure 54 coincides with the Pennzoil mine (figs. 34 and 35); the second and third closures from the bottom of figure 53 approximately coincide with the Pennzoil and ARCO mines, respectively. Closures and mines do not precisely coincide because well data from the mines were not available and, therefore, are not represented on the maps. Although the northwesterly alignment of closures is in large part due to the spread of the data points (although the initial choice of drilling locations was controlled by the anticlinal trend as is evident on figure 8), the segregation of the closures probably approximates the actual sulfur distribution along the anticlinal axis.

Isopach maps of ore-grade (>5%) sulfur (figs. 57 through 60) contain insufficient data points to discern any distinct sulfur trends in the Fort Stockton district.

Ore Fabrics

McNeal and Hemenway (1972) discuss three principal types of fabrics in sulfur-bearing secondary limestone bodies of the ARCO Fort Stockton mine: megafenestral, mesovug in massive limestone, and megavug in breccia (mega- for pores 4 to 256 mm, meso- for pores 1/16 to 4 mm, micro- for pores under 1/16 mm). Examination of core samples from the Pennzoil Culberson mine in the Rustler Springs sulfur district indicates that these fabrics are common to both mines and are presumably representative of both sulfur districts. Native sulfur and finely crystalline drusy calcite line and fill voids oriented parallel to the original lamination in anhydrite/gypsum and secondary calcite of the Castile and Salado Formations. Megafenestral and megavug porosities are the most significant sites of sulfur mineralization. Sulfur in megavugs and finely disseminated sulfur in a microintercrystalline fabric compose secondary volumes of sulfur. Sulfur also commonly occurs in mesovug, scattered megafenestral, microinterparticle, and microintercrystalline porosity in a host rock of massive secondary calcite with sparse, poorly defined laminae (Davis and Kirkland, 1970). Megavugs and mesovugs in dissolution breccias typically contain complete infillings or drusy linings of sulfur. Breccia clasts are composed of secondary limestone and subordinate gypsum; the matrix varies from finely crystalline secondary limestone to sparry calcite.

ASSESSMENT OF SULFUR POTENTIAL

The final stage of this study integrates all examined geologic aspects into a tract-by-tract evaluation of sulfur potential for State-owned tracts in and surrounding the Rustler Springs and Fort Stockton sulfur districts. This final assessment is divided into three phases:

(1) definition of geologically favorable areas for sulfur from the compiled data,

(2) segregation of areas with high, moderate, and low potential for sulfur, and

(3) construction and compilation of database.

First Phase

Areas that are favorable for the occurrence of sulfur were initially defined on the basis of individual geologic aspects illustrated on each of the maps compiled for this study. The areas of favorability were encircled on overlays for eventual integration as part of phase two (figs. 61 and 62). For example, the densest occurrences of faults and presumed fractures (lineaments, solution-subsidence troughs) illustrated on map 4 are located in the western third of the map area and in the southern third of the Rustler Formation outcrop. These areas are considered favorable for sulfur occurrence on the basis of this one aspect. The basic assumption is that regions with more pervasive fracturing have a greater likelihood of containing native sulfur than less structurally disturbed areas. Most of the computer-generated contour maps were also used for regional evaluation purposes through definition of areas where known sulfur deposits are concentrated. The more favorable areas are defined based on depth (figs. 41 and 51) and thickness (figs. 43 through 50, 53 through 60) limits established by inspection of the regional data distribution (table 6).

Second Phase

A numerical ranking system (table 7) was then devised to enable the objective assessment of a large number (approximately 2,000) of tracts. All overlays displaying areas of favorability from the various surface and subsurface maps were superimposed to reveal any overlap of two or more areas. Using the ranking system outlined in table 7, areas of no overlap were assigned a value of 3 (moderately favorable geologic conditions) and those with overlap of 2 or more were given a 7 (highly favorable geologic conditions) ranking. Sections containing active or inactive sulfur mines received rankings of 5 or 9, depending on their geologic favorability.

Final overlays recording areas of multiple overlap enabled rapid evaluation of lands in and surrounding the two sulfur districts (figs. 63 and 64). In the Rustler Springs sulfur district, there are three separate regions of high sulfur potential (fig. 63). The largest area is located in the central part of the district and includes tracts with past production and known reserves (Culberson mine, Phillips Ranch deposit). Overlap of as many as 10 separate areas of favorability are recorded within this area. The dimensions of the central area are in part determined by the distribution of available borehole data; the area coincides with the densest well concentration (fig. 2). The smaller, elongate area of high potential to the north records locally thick sulfur occurrences along an isolated fault trend (fig. 31). The remaining two high-potential regions coincide with the Pokorny deposit and its surrounding tracts and the smaller Grant mine (Porch, 1917). Moderate-potential areas compose the bulk of the total acreage assessed. It is stressed that these areas are classified as having moderate potential largely because of a paucity of borehole data and, therefore, of an inability to comprehensively assess mineral potential. The proper geologic conditions are present, but the existence of any stratabound sulfur cannot be established. Low-

potential tracts are limited to the extreme southwestern part of the assessment area (west of the Castile Formation outcrop). The northern, western, and southern limits of the assessed area are defined by the state boundary, outcrop limit of Castile Formation, and the Apache Mountains, respectively. The eastern limit in Reeves County is marked by regionally thick (as much as 1,900 ft) Cenozoic deposits filling a large dissolution basin (Toyah Basin) (Maley and Huffington, 1953).

Areas of high sulfur potential in the Fort Stockton sulfur district are restricted to the western anticlinal trend of the Fort Stockton high (fig. 64). Limits of the assessed area are arbitrary but were chosen to include the land immediately surrounding the anticlinal trend. Most boreholes are clustered on the trend (fig. 3). As in the Rustler Springs sulfur district, tracts classified as having moderate sulfur potential were found to have suitable geologic conditions for sulfur mineralization, but because of insufficient well coverage, information on actual sulfur occurrence is lacking.

Third Phase

Numerical evaluations for sulfur and 42 other geologic commodities (fig. 65) were tabulated for each State-owned tract within the study areas (appendix 3). However, of these 42 additional commodities, only 9 are found on the properties evaluated. The computer file (fig. 65) was designed for possible use in any future mineral-assessment study in Texas. Barite, gypsum, limestone, salt (and brine), and zinc occur in variable degrees of abundance in the study areas. Barite, gypsum, and limestone are common; salt (halite) is restricted to the subsurface of the northern part of the Rustler Springs sulfur district (fig. 18). Notable mining facilities include the Seven Heart barite mine (abandoned) and the Rock House gypsum mine (active), both found in the Castile Formation of south-central

Culberson County; zinc is known only from the Apache Mountains zinc deposits also of south-central Culberson County (Price and others, 1983). The distribution of sand and gravel (active and abandoned pits, unexploited deposits) was determined mainly from the examination of the 7.5-minute USGS topographic sheets that compose the study areas (table 8). The presence of alluvium within any tract indicates the high potential for sand and gravel deposits, as do the extensive eolian and alluvial surficial deposits of the far eastern part of the Rustler Springs sulfur district and all of the Fort Stockton sulfur district (Eifler, 1976).

In addition to the commodity evaluations, the PIM (property inventory management) number, IDNUM (identification number), and TYPE (mine class and status) are recorded for all tracts for which they apply. The PIM number uniquely defines each tract listed in appendices 1 and 3 and is the link with other GLO databases. However, IDNUM and TYPE are only applicable to those tracts on which prospects (mines, surface pits, shafts) are located. The IDNUM involves an eight-character, alphanumeric code that defines the precise location of each prospect. The code should be used in conjunction with the location maps provided by Price and others (1983), who also list pertinent references for all known prospects within the study areas. As an example, the IDNUM, VH-CU-C21-2, indicates that prospect number 2 of USGS topographic map C21 (Price and others, 1983) is located in Culberson County (CU), which in turn can be found on the Van Horn - El Paso Sheet (VH) of the Geologic Atlas of Texas (Barnes, 1983). The TYPE characterizes the prospects and their mining status (table 9).

SUMMARY

An association of several biological, chemical, and geological conditions are necessary for the mineralization of stratabound sulfur deposits. Anaerobic, sulfate-reducing bacteria initiate the process of formation in the presence of liquid hydrocarbons, meteoric ground water, and dissolved calcium sulfate (anhydrite/gypsum). Using diluted oil or gas as a metabolic fuel, the bacteria are able to oxidize the hydrocarbons to CO_2 and to reduce sulfate ions to H_2S. Aqueous or gaseous hydrogen sulfide is converted to elemental sulfur through oxidation by meteoric ground water. Large masses of secondary calcite precipitate as byproducts associated with these biochemical reactions. Examination of the requisite geologic environment of sulfur genesis was the principal task involved in this assessment study. A near-surface (<2,500 ft deep) deposit of thick anhydrite/gypsum is the source of sulfur in the form of sulfate ions produced by the dissolution of the evaporite mineral. The solvent, meteoric ground water, is also probably the oxidizing agent that transforms bacteriogenic H_2S to elemental sulfur in the Trans-Pecos sulfur districts. Circulating ground water flushes the bacteria/hydrocarbon mixture from adjacent aquifers to the zone of mineralization and also creates the high porosity and permeability that permits commercial quantities of sulfur to crystallize. Fracture systems (faults, joints) and pervasive dissolution features (horizontal and fault-controlled vertical breccia zones) disrupting the evaporite source rock allow the migration of ground water, hydrocarbons, and bacteria to accumulate in structural traps. At least some shale or other low-permeability seal appears to be required to prevent vigorous oxidation and flushing of the system. It is essential that enough void space and residence time in traps be provided to create commercial masses of native sulfur.

Stratigraphic units in the Trans-Pecos sulfur districts that contain bedded evaporites within the zone of ground-water percolation include the Ochoan Castile (Rustler Springs sulfur district), Salado, and Rustler Formations (Rustler Springs and Fort Stockton sulfur districts). Guadalupian evaporite units (Seven Rivers, Yates, and Tansill Formations) are commonly penetrated by exploration wells in the Fort Stockton district, but recoverable sulfur has thus far been found only in small amounts in the Tansill Formation.

Areas of structural modification in these evaporitic strata constitute potential sites of sulfur mineralization. Regional cross sections of the Rustler Springs sulfur district indicate that most faults are concentrated in the central and eastern parts of the district. Small, northeast-trending graben systems bounded by high-angle normal faults with actual displacements ranging from several tens of feet to 200 ft or more are dominant features. Minable quantities of sulfur occur along brecciated fault zones within the downfaulted block and in large but localized bodies of secondary calcite near the base of the Castile Formation (Culberson mine, Phillips Ranch deposit) and in the shallow Salado Formation (Culberson mine). Sulfur mineralization in the lower Castile of the Pokorny deposit also appears to be fracture-related. A photogeologic survey of the sulfur district suggests that surface-expressed fractures and solution-subsidence troughs are most abundant in the western part of the district. However, distinct fracture trends and the alignment of dissolution depressions in the Rustler Hills to the east are oriented approximately parallel to the prominent graben systems mapped in the subsurface. The apparent greater abundance of exposed fractures in the west is probably a function of the regional thickness variation of the Ochoan evaporite sequence. The structural overprinting and obscuring effects of pervasive dissolution deformation is not as pronounced in the west because the evaporite sequence is thinner than in the central and eastern regions. In contrast to the

distinct fracture control on sulfur mineralization in the Rustler Springs sulfur district, flexures in the form of local culminations along the axis of an anticline contain the commercial quantities of sulfur in the Fort Stockton district. Associated faults probably acted as the principal pathways through which hydrocarbons and ground water migrated.

The regional geometry of sulfur occurrences indicates a wide and generally random distribution of both commercial and noncommercial deposits in the Rustler Springs district but a more ordered arrangement in the Fort Stockton district. In both areas, local anomalies in the various depth and thickness parameters displayed on the computer-generated contour maps largely coincide with active and abandoned mines or otherwise unproductive areas with concentrated drilling. In the Rustler Springs district, the geometry of sulfur occurrences surrounding the mines shows no distinct trends except in reflecting the regional westward thickness decrease of the Ochoan evaporite sequence. However, the regional distribution of sulfur along the anticlinal axis in the Fort Stockton district is evident on several of the maps. Sparsely explored fault traces detected by regional stratigraphic correlations in both districts perhaps offer the highest potential for new ore discoveries.

A sulfur genesis model that considers the structural, stratigraphic, and chemical conditions of sulfur mineralization is an effective tool in evaluating the regional potential for sulfur in the western Delaware Basin and the southern part of the Central Basin Platform. Regional geologic characterization of the sulfur districts and surrounding regions enabled the objective assessment of all State-owned tracts within these regions. Comprehensive appraisals for other mineral commodities in Texas based on modified assessment models would similarly provide the state with an effective means of managing state property and revenues derived therefrom.

ACKNOWLEDGMENTS

This research was supported jointly by the Texas General Land Office under Interagency Contract No. (86-87)-0787 and the U.S. Department of the Interior's Mineral Institute program administered by the Bureau of Mines under allotment grant number G1164148 to the Texas Mining and Mineral Resources Research Institute.

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Table 1. Mineral commodities considered in assessing Texas resources.

Mineral Commodities

Considered in assessing Texas resources	Not considered because this commodity has potential only as a byproduct of others (main product in parentheses)	Not considered because geological conditions in Texas are unfavorable
Barite	Aluminum (clay, coal)	Bismuth
Bentonite	Antimony (silver)	Chromium
Beryllium	Arsenic (silver, uranium)	Cobalt
Brine (see also salt, sodium sulfate)	Asbestos (some talc deposits)	Heavy Mineral Sands
Clay (see also bentonite, kaolin)	Boron (brine)	Nickel
Coal (including lignite)	Bromine (brine)	Nitrate
Copper	Cadmium (zinc, silver)	Other Minor Elements
Dimension Stone	Cesium (rare earths)	Phosphate
Feldspar	Gallium (zinc, silver)	Platinum Group Elements (ruthenium, rhodium, palladium, osmium, iridium, platinum)
Fluorspar	Germanium (zinc, silver, coal)	Scandium
Gemstones (agate, etc.)	Gold (silver)	Tellurium
Graphite	Hafnium (rare earths)	Vanadium
Gypsum	Indiumium (zinc, silver)	
Helium	Iodine (brine)	
Industrial Sand	Lithium (brine)	
Iron	Niobium (molybdenum, rare earths)	
Kaolin	Rhenium (molybdenum, copper, tungsten)	
Lead	Rubidium (rare earths)	
Limestone	Selenium (uranium)	
Magnesium and Magnesite	Tantalum (rare earths)	
Manganese	Thallium (zinc, silver)	
Marble	Zirconium (molybdenum, rare earths)	
Mercury		
Mica		
Molybdenum		
Perlite		
Potash		
Rare Earth Elements (Lanthanides plus Yttrium)		
Salt		
Sand and Gravel		
Silver		
Sodium Sulfate		
Specialty Stone (see also dimension stone, limestone, and marble)		
Strontium		
Sulfur		
Talc		
Thorium		
Tin		
Titanium		
Tungsten		
Uranium		
Zeolite		
Zinc		

Table 2. Classification of native sulfur deposits (Ruckmick and others, 1979).

Nomenclature	Occurrence(s)	Genesis	Example(s)
Biogenic deposits			
Bioepigenetic	salt dome cap rock, stratified evaporite deposits	bacteria-induced replacement of anhydrite and gypsum by native sulfur and calcite in the presence of hydrocarbons and meteoric water	Gulf Coast salt domes (Feely and others, 1957), Delaware Basin of Trans-Pecos Texas (Davis and Kirkland, 1970), southern Poland (Pawlowski and others, 1979), northern Iraq (Barker and others, 1979)
Biosyngenetic	euxinic marine and lacustrine environments	synsedimentary, bacterial reduction of SO_4^{-2} to H_2S, oxidation of H_2S to native sulfur by oxygenated surface waters	Lake Eyre, southern Australia
Oxidative deposits	hot springs, volcanic and biogenic occurrences, in fractures and cavities in a variety of rock types	oxidation of volcanic or bacterially generated H_2S by O_2, SO_4^{-2}, or CO_2; also by oxidation of metallic sulfides in ore-bearing veins; no evidence of biogenic replacement	Wyoming, Utah, Spain, Tennessee
Thermogenetic deposits	deeply buried evaporite strata	problematic, probably by oxidation of H_2S derived from reactions between hydrocarbons and anhydrite at high temperature and pressure or directly from these reactions	liquid sulfur from 31,441 ft exploration well in Anadarko Basin, Oklahoma
Volcanic deposits	crater rims of active and extinct volcanoes, near fumaroles	oxidation of H_2S derived from volcanic gas emissions or from direct sublimation	Common in most volcanic regions, Hawaii, Japan

Table 3. Operators and numbers of sulfur exploratory wells completed during 1967 through 1970.

Sulfur district	Operators	Number of wells
Rustler Springs	ARCO (Sinclair)	399
	Bear Creek Mining Co. (Kennecott)	117
	Cities Service	103
	Conoco	8
	Dalco Oil Co.	24
	Duval Corp. (Pennzoil)	254
	Freeport Sulphur Co.	18
	Gulf Oil Co.	22
	Gulf Sulphur Corp.	9
	Harris and Walton	42
	Humble Oil Co.	50
	Jefferson Lake Sulphur Co.	10
	Kennecott Exploration	5
	Phillips Petroleum Co.	62
	Guy Pokorny	4
	Fred Prickett Oil Properties	4
	Texas American Sulphur/Oil Corp.	19
	Texas Gulf Sulphur Co.	74
	Union Producing Co.	1
Fort Stockton	ARCO (Sinclair Oil Corp.)	95
	Conoco	4
	Dril-Core	2
	Duval Corp. (Pennzoil)	53
	Alexander Kaspar	1
	Lucille Smith	5
	Piper Petroleum Co.	39
	Texas American Sulphur/Oil Corp.	26

Table 4. Database fields for each sulfur exploratory well.*

Field	Description	County+
LEASE NO.	GLO PIM number, unique 8-digit number given to each state-owned tract (the link to other GLO databases)	CR, P
LOCATION	Survey, block, and section	CR, P
HOLE NO.	Number (1 → n) assigned to all wells within each tract, no sequence order intended	CR, P
OPERATOR NO.	Operator and well number	CR, P
ELEV.	Elevation of ground level at well	CR, P
T.D.	Total depth of well	CR, P
Formation Tops		
RUSTLER	Depth to top of Rustler Formation	CR, P
SALADO	Depth to top of Salado Formation	CR, P
CASTILE	Depth to top of Castile Formation	CR
TANSILL	Depth to top of Tansill Formation	P
YATES	Depth to top of Yates Formation	P
S.R.	Depth to top of Seven Rivers Formation	P
B.C.	Depth to top of Bell Canyon Formation	CR
DEPTH TO TOP S	Depth to highest sulfur occurrence	CR, P
DEPTH TO BASE S	Depth to lowest sulfur occurrence	CR, P
TOTAL THICKNESS S	Net thickness of sulfur	CR, P
STRONG SULFUR SHOWS TOP 1, BOT 1,... TOP 8, BOT 8	Intervals of >5% sulfur	CR, P
X EAST, Y NORTH	UTM coordinates of central point of tract	CR, P

* All elevations and depths in feet, UTM coordinates in meters
+ CR = Culberson and Reeves Counties
P = Pecos County

Table 5. Database values used to construct CPS-1 contour maps.

Map	Field(s) in DATATRIEVE database	Selection criteria for all boreholes within same tract
Depth to top sulfur (figs. 41 and 51)	DEPTH TO TOP S	Smallest value
Elevation of base of sulfur, deepest (figs. 42 and 52)	[ELEV] - [DEPTH TO BASE S]	Smallest value
Net thickness of sulfur, maximum (figs. 43 and 53)	TOTAL THICKNESS S	Largest value
Net thickness of sulfur, average (figs. 44 and 54)	TOTAL THICKNESS S	Average value
Gross isopach of sulfur, maximum (figs. 45 and 55)	[DEPTH TO BASE S] - [DEPTH TO TOP S]	Largest value
Gross isopach of sulfur, average (figs. 46 and 56)	[DEPTH TO BASE S] - [DEPTH TO TOP S]	Average value
Net thickness of sulfur >5%, maximum (figs. 47 and 57)	([BOT 1] - [TOP 1]) + ([BOT 2] - [TOP 2]) + ([BOT 3] - [TOP 3]) + ...([BOT 8] - [TOP 8])	Largest value
Net thickness of sulfur >5%, average (figs. 48 and 58)	([BOT 1] - [TOP 1]) + ([BOT 2] - [TOP 2]) + ([BOT 3] - [TOP 3]) + ...([BOT 8] - [TOP 8])	Average value
Gross isopach of sulfur >5%, maximum (figs. 49 and 59)	Largest of set of ([BOT 8], [BOT 7], [BOT 6], [BOT 5], [BOT 4], [BOT 3], [BOT 2], [BOT 1]) - [TOP 1]	Largest value
Gross isopach of sulfur >5%, average (figs. 50 and 60)	Largest of set of ([BOT 8], [BOT 7], [BOT 6], [BOT 5], [BOT 4], [BOT 3], [BOT 2], [BOT 1]) - [TOP 1]	Average value
Number of holes per section (figs. 7 and 8)	Number of entries with same X EAST, Y NORTH coordinates	Total number
Total depth (figs. 9 and 10)	TD	Largest value

Table 6. Depth and thickness limits (favorability criteria) used to differentiate most geologically favorable areas for sulfur mineralization from computer-generated contour maps.

Map	Rustler Springs sulfur district	Fort Stockton sulfur district
Depth to top sulfur (figs. 41 and 51)	≤300 ft	≤800 ft
Net thickness of sulfur, maximum (figs. 43 and 53)	≥100 ft	≥ 50 ft
Net thickness of sulfur, average (figs. 44 and 54)	≥ 30 ft	≥ 20 ft
Gross isopach of sulfur, maximum (figs. 45 and 55)	≥300 ft	≥300 ft
Gross isopach of sulfur, average (figs. 46 and 56)	≥200 ft	≥200 ft
Net thickness of sulfur >5%, maximum (figs. 47 and 57)	≥100 ft	≥ 40 ft
Net thickness of sulfur >5%, average (figs. 48 and 58)	≥ 50 ft	≥ 20 ft
Gross isopach of sulfur >5%, maximum (figs. 49 and 59)	≥200 ft	≥200 ft
Gross isopach of sulfur >5%, average (figs. 50 and 60)	≥100 ft	≥ 30 ft

Table 7. Numerical scale used to evaluate state-owned tracts for sulfur and other geologic commodities.

Potential	Criteria	Rank
High	With past production and known reserves	9
	With known resources but no past production	8
	With highly favorable geologic conditions but neither past production nor known resources	7
Moderate	With past production and known resources	5
	With known but limited resources and no past production	4
	With moderately favorable geologic conditions and neither past production nor known resources	3
Low	With unfavorable geologic conditions	1
	No data	0

Table 8. U.S.G.S. topographic sheets (7.5 min) encompassing sulfur districts and surrounding areas.

Rustler Springs sulfur district		Fort Stockton sulfur district
Alligator Draw	Dellahunt Draw East	Grandfalls SW
Outlaw Spring	Burnt Spring Hills	Diamond Y Spring NW
Owl Hills	Toyah NW	Diamond Y Spring NE
Screw Bean Draw NE	Big Hill	Buena Vista
Orla	Toyah	Buena Vista NE
Screw Bean Draw East	Toyah SW	Diamond Y Spring
Screw Bean Draw West	Burnt Spring Hills SE	Diamond Y Spring SE
Castile Hill	Hopper Draw East	Buena Vista SW
Delaware Spring	Hopper Draw West	Owego
Seven L Peak	Dome Hill	Girvin
Seven L Peak NE	Seven Heart Gap	Girvin SE
Rustler Hills	East Hunter Canyon	Fort Stockton West
Derrick Draw	Panther Canyon	Fort Stockton East
Threemile Draw	Iron Mountain	East Mesa
Narrow Bow Draw	San Martine	Saddle Butte
Halamicek Ranch	Gozar	Bootleg Canyon
W T Ranch	Florenzo Hill	Bakersfield
Dry Lake	Sotol Hill	
Two Mill Draw East	Gomez Peak	
Two Mill Draw West	Kent	
KC Ranch	Fencepost Draw	
Loneman Mountain	Boracho	
Dellahunt Draw West	Plateau	

Table 9. Categories of TYPE listed in tract-assessment database (appendix 3).

TYPE	Prospect
F	Frasch sulfur mine (active)
M	Surface mine (active)
A	Abandoned mine
U	Underground mine
P	Prospect pit or shaft
D	Exploration drill hole

FIGURE CAPTIONS

Figure 1. Location map of Rustler Springs and Fort Stockton sulfur districts of Trans-Pecos Texas.

Figure 2. Distribution of sulfur-exploration drilling activity in the Rustler Springs sulfur district for the period 1967 to 1970. Because the drilling records were derived primarily from GLO files, the map only documents drilling on State-owned tracts. Therefore, not all drilling conducted in this area during this period is represented.

Figure 3. Distribution of sulfur-exploration drilling activity on State-owned tracts in the Fort Stockton sulfur district during the period 1967 to 1970. Restrictions of figure 2 apply.

Figure 4. Structure-contour map of the top of the Bell Canyon Formation in the Rustler Springs sulfur district. Orientations of cross-section lines coincide with regional strike and dip. Locations of faults derived from subsurface and photogeologic analysis are preferentially concentrated in areas of good well control and well-exposed, relatively unweathered bedrock (at western limit of outcrop). Refer to figure 29 for well control of the Bell Canyon horizon.

Figure 5. Cross-section lines superimposed on structure-contour map of the top of the Rustler Formation in the Fort Stockton sulfur district. Cross sections are oriented approximately parallel and perpendicular to the axis of the anticline. Refer to figure 35 for well control of the Rustler horizon.

Figure 6. Example record of SMARTSTAR database into which all drilling and stratigraphic data from individual wells in the sulfur districts were entered. Appendix 1 represents a compilation of these data from all wells.

Figure 7. Contour map illustrating number of boreholes per section in the Rustler Springs sulfur district.

Figure 8. Contour map illustrating number of boreholes per section in the Fort Stockton sulfur district.

Figure 9. Contour map of maximum values of total depth for all boreholes within each section of the Rustler Springs sulfur district (see table 5).

Figure 10. Contour map of maximum values of total depth for all boreholes within each section of the Fort Stockton sulfur district (see table 5).

Figure 11. Structural subdivisions of the Permian Basin of West Texas and southeastern New Mexico. Stars locate Rustler Springs sulfur district (west) and Fort Stockton sulfur district (east) (from Hills, 1972).

Figure 12. Upper Permian stratigraphy represented in the Rustler Springs (Delaware Basin) and Fort Stockton (Central Basin Platform) sulfur districts.

Figure 13. Geologic map of the Rustler Springs sulfur district and surrounding areas (generalized from Barnes, 1983).

Figure 14. Regional dip-oriented cross section of the northern area of well coverage in the Rustler Springs sulfur district (see fig. 4).

Figure 15. Regional dip-oriented cross section of the central area of well coverage in the Rustler Springs sulfur district (see fig. 4).

Figure 16. Regional dip-oriented cross section of the southern area of well coverage in the Rustler Springs sulfur district (see fig. 4).

Figure 17. Regional strike-oriented cross section of the central area of well coverage in the Rustler Springs sulfur district (see fig. 4).

Figure 18. Subsurface limits of halite marker beds within the Castile (Halites I and II) and Salado Formations (modified from Anderson and others, 1978; Smith, 1978).

Figure 19. Representative log of the Castile Formation in the Rustler Springs sulfur district.

Figure 20. Representative log of the Salado and Rustler Formations and part of the Castile and Dewey Lake Formations in the Rustler Springs sulfur district.

Figure 21. Regional strike-oriented cross section of the eastern area of well coverage in the Rustler Springs sulfur district (see fig. 4). Central graben occurs immediately northeast of Pennzoil's Culberson sulfur mine and coincides with the graben in which the orebody is found (see fig. 38). Note significant increase in horizontal scale (decrease in vertical exaggeration) relative to the other cross sections.

Figure 22. Regional strike-oriented cross section of the western area of well coverage in the Rustler Springs sulfur district (see fig. 4). Faults were interpreted from photogeologic inspection of the western Gypsum Plain (see fig. 32).

Figure 23. Regional cross section coinciding approximately with the anticlinal axis of the western part of the Fort Stockton high in the Fort Stockton sulfur district (see fig. 5).

Figure 24. Regional cross section oriented perpendicular to the anticlinal axis in the northwestern part of the Fort Stockton sulfur district (see fig. 5).

Figure 25. Regional cross section oriented perpendicular to the anticlinal axis in the southeastern part of the Fort Stockton sulfur district (see fig. 5).

Figure 26. Representative log of the Yates, Tansill, Salado, and Rustler Formations and part of the Seven Rivers and Dewey Lake Formations in the Fort Stockton sulfur district.

Figure 27. Representative log of the Fort Stockton sulfur district that illustrates the log response of a sandstone-rich Yates Formation characteristic of the northwestern part of the sulfur district. Compare with the dolomite-rich Yates of the southeastern part of the sulfur district (fig. 26).

Figure 28. Regional cross section oriented perpendicular to the anticlinal axis in the central part of the Fort Stockton sulfur district (see fig. 5).

Figure 29. Structure-contour map of the top of the Bell Canyon Formation (top of Lamar Limestone member) in the Rustler Springs sulfur district. Areas outlined on the central part of the map include those sections that compose the Texasgulf Phillips Ranch deposit (west) and the Pennzoil Culberson mine (east). Datum is sea level.

Figure 30. Structure-contour map of the top of the Castile Formation in the Rustler Springs sulfur district. Sections outlined coincide with the Texasgulf Phillips Ranch deposit (west) and the Pennzoil Culberson mine (east). Datum is sea level.

Figure 31. Structure-contour map of the top of the Salado Formation in the Rustler Springs sulfur district. Sections that compose the Texasgulf Phillips ranch deposit (west) and the Pennzoil Culberson mine (east) are outlined. Datum is sea level.

Figure 32. Geologic map of the Rustler Springs sulfur district showing distribution of prominent lineaments, solution-subsidence troughs and depressions, and faults mapped from stereophotographs (scale 1:26,000). Areas outlined are the Texasgulf Phillips Ranch deposit (west) and the Pennzoil Culberson mine (east).

Figure 33. Permian and pre-Permian oil fields of northeastern Culberson and northwestern Reeves Counties (Rustler Springs sulfur district) (modified from Geomap, 1981).

Figure 34. Structure-contour map of the top of the Salado Formation in the Fort Stockton sulfur district. The anticline is the westernmost structure of the Fort Stockton high of the southern part of the Central Basin Platform (CBP). The southwestern edge of the anticline marks the approximate boundary between the CBP and the Delaware Basin. Areas outlined are the locations of the ARCO Fort Stockton mine (southeast) and the Pennzoil Heiner mine (northwest). Datum is sea level.

Figure 35. Structure-contour map of the top of the Rustler Formation in the Fort Stockton sulfur district. The regional structure is the same as that described in figure 34. The ARCO Fort Stockton mine (southeast) and Pennzoil Heiner mine (northwest) are outlined. Datum is sea level.

Figure 36. Permian and pre-Permian oil fields of northern Pecos County (Fort Stockton sulfur district) (modified from Geomap, 1981).

Figure 37. Aerial perspective of sulfur mineralization within the Culberson mine. "Equivalent feet of solid sulfur" (E.F.S.S.) is the standard unit of measurement among sulfur geologists. As an example, a 50-ft section of rock containing 25% sulfur would have 12.5 E.F.S.S. (from Smith, 1978).

Figure 38. Dip-oriented cross section of Culberson mine (modified from Duval Corporation, 1982).

Figure 39. Oblique cross section through sulfur-bearing graben of the Phillips Ranch deposit (modified from Duval Corporation, 1982).

Figure 40. Cross sections of ARCO's Fort Stockton sulfur mine. Sulfur-bearing secondary limestone is situated in a small structural closure on the axis of the major northwest-trending anticline (from McNeal and Hemenway, 1972).

Figure 41. Contour map of the shallowest occurrences of sulfur within each section of the Rustler Springs sulfur district (see table 5).

Figure 42. Contour map of the deepest occurrences of sulfur within each section of the Rustler Springs sulfur district (see table 5). Datum is sea level.

Figure 43. Isopach map of net thickness of sulfur in the Rustler Springs sulfur district. Values represent maximum thickness of sulfur for all boreholes within each section (see table 5).

Figure 44. Isopach map of net thickness of sulfur in the Rustler Springs sulfur district. Values represent average thickness of sulfur for all boreholes within each section (see table 5).

Figure 45. Isopach map of gross thickness of sulfur in the Rustler Springs sulfur district. Values represent maximum thickness of sulfur for all boreholes within each section (see table 5).

Figure 46. Isopach map of gross thickness of sulfur in the Rustler Springs sulfur district. Values represent average thickness of sulfur for all boreholes within each section (see table 5).

Figure 47. Isopach map of net thickness of ore-grade (>5%) sulfur in the Rustler Springs sulfur district. Values represent maximum thickness of sulfur for all boreholes within each section (see table 5).

Figure 48. Isopach map of net thickness of ore-grade (>5%) sulfur in the Rustler Springs sulfur district. Values represent average thickness of sulfur for all boreholes within each section (see table 5).

Figure 49. Isopach map of gross thickness of ore-grade (>5%) sulfur in the Rustler Springs sulfur district. Values represent maximum thickness of sulfur for all boreholes within each section (see table 5).

Figure 50. Isopach map of gross thickness of ore-grade (>5%) sulfur in the Rustler Springs sulfur district. Values represent average thickness of sulfur for all boreholes within each section (see table 5).

Figure 51. Contour map of shallowest occurrences of sulfur within each section in the Fort Stockton sulfur district (see table 5).

Figure 52. Contour map of deepest occurrences of sulfur within each section in the Fort Stockton sulfur district (see table 5). Datum is sea level.

Figure 53. Isopach map of net thickness of sulfur in the Fort Stockton sulfur district. Values represent maximum thickness of sulfur for all boreholes within each section (see table 5).

Figure 54. Isopach map of net thickness of sulfur in the Fort Stockton sulfur district. Values represent average thickness of sulfur for all boreholes within each section (see table 5).

Figure 55. Isopach map of gross thickness of sulfur in the Fort Stockton sulfur district. Values represent maximum thickness of sulfur for all boreholes within each section (see table 5).

Figure 56. Isopach map of gross thickness of sulfur in the Fort Stockton sulfur district. Values represent average thickness of sulfur for all boreholes within each section (see table 5).

Figure 57. Isopach map of net thickness of ore-grade (>5%) sulfur in the Fort Stockton sulfur district. Values represent maximum thickness of sulfur for all boreholes within each section (see table 5).

Figure 58. Isopach map of net thickness of ore-grade (>5%) sulfur in the Fort Stockton sulfur district. Values represent average thickness of sulfur for all boreholes within each section (see table 5).

Figure 59. Isopach map of gross thickness of ore-grade (>5%) sulfur in the Fort Stockton sulfur district. Values represent maximum thickness of sulfur for all boreholes within each section (see table 5).

Figure 60. Isopach map of gross thickness of ore-grade (>5%) sulfur in the Fort Stockton sulfur district. Values represent average thickness of sulfur for all boreholes within each section (see table 5).

Figure 61A. Map of Rustler Springs sulfur district illustrating areas of sulfur favorability based on depth and thickness limits (table 6) of individual structure-contour and isopach maps and on lineament/fracture density of the lineament map (fig. 32). Areas of favorability from individual assessment maps are represented by numbers 1 through 11 (odd): 1 = depth to top sulfur (fig. 41), 3 = net thickness of sulfur - maximum (fig. 43), 5 = gross isopach of sulfur - maximum (fig. 45), 7 = net thickness of sulfur (>5%) - maximum (fig. 47), 9 = gross isopach of sulfur (>5%) - maximum (fig. 49), 11 = lineament/fracture map (fig. 32).

Figure 61B. Map of Rustler Springs sulfur district illustrating areas of sulfur favorability based on depth and thickness limits (table 6) of individual structure-contour and isopach maps and on lineament/fracture density of the lineament map (fig. 32). Areas of favorability from individual assessment maps are represented by numbers 1 through 11 (even): 2 = net thickness of sulfur - average (fig. 44), 4 = gross isopach of sulfur - average (fig. 46), 6 = net thickness of sulfur (>5%) - average (fig.48), 8 = gross isopach of sulfur (>5%) - average (fig. 50), 10 = fault locations from structure-contour maps of the tops of the Bell Canyon, Castile, and Salado Formations (figs. 29 through 31).

Figure 62A. Map of Fort Stockton sulfur district illustrating areas of sulfur favorability based on depth and thickness limits (table 6) of individual structure-contour and isopach maps. Areas of favorability from individual assessment maps are represented by numbers 1 through 11 (odd): 1 = depth to top sulfur (fig. 51), 3 = net thickness of sulfur - maximum (fig. 53), 5 = gross isopach of sulfur - maximum (fig. 55), 7 = net thickness of sulfur (>5%) - maximum (fig. 57), 9 = gross isopach of sulfur (>5%) - maximum (fig. 59), 11 = structural closures from structure-contour maps of the tops of the Salado and Rustler Formations (figs. 34 and 35).

Figure 62B. Map of Fort Stockton sulfur district illustrating areas of sulfur favorability based on depth and thickness limits (table 6) of individual structure-contour and isopach maps. Areas of favorability from individual assessment maps are represented by numbers 1 through 11 (even): 2 = net thickness of sulfur - average (fig. 54), 4 = gross isopach of sulfur - average (fig. 56), 6 = net thickness of sulfur (>5%) - average (fig. 58), 8 = gross isopach of sulfur (>5%) - average (fig. 60), 10 = fault locations from structure-contour maps of the tops of the Salado and Rustler Formations (figs. 34 and 35).

Figure 63. Map of Rustler Springs sulfur district outlining areas of multiple overlap of individual areas of favorability illustrated in figure 61. Regions with a sulfur assessment ranking (table 7) of 3 (moderately favorable geologic conditions) indicate areas of no overlap; a ranking of 7 (highly favorable geologic conditions) indicates areas of multiple overlap. Active and inactive sulfur mines have rankings of 5 or 9, depending on the magnitude of known reserves or resources.

Figure 64. Map of Fort Stockton sulfur district outlining areas of multiple overlap of individual areas of favorability illustrated in figure 62. Ranking system the same as described in figure 63.

Figure 65. Example record of SMARTSTAR database used to compile final evaluations of sulfur and other mineral commodities (with stars) for individual State-owned tracts in the sulfur districts. Record represents a complete listing of all primary hard mineral commodities that are likely to occur in economically exploitable deposits in Texas (see table 1). It was designed for possible use in any future mineral assessment studies.

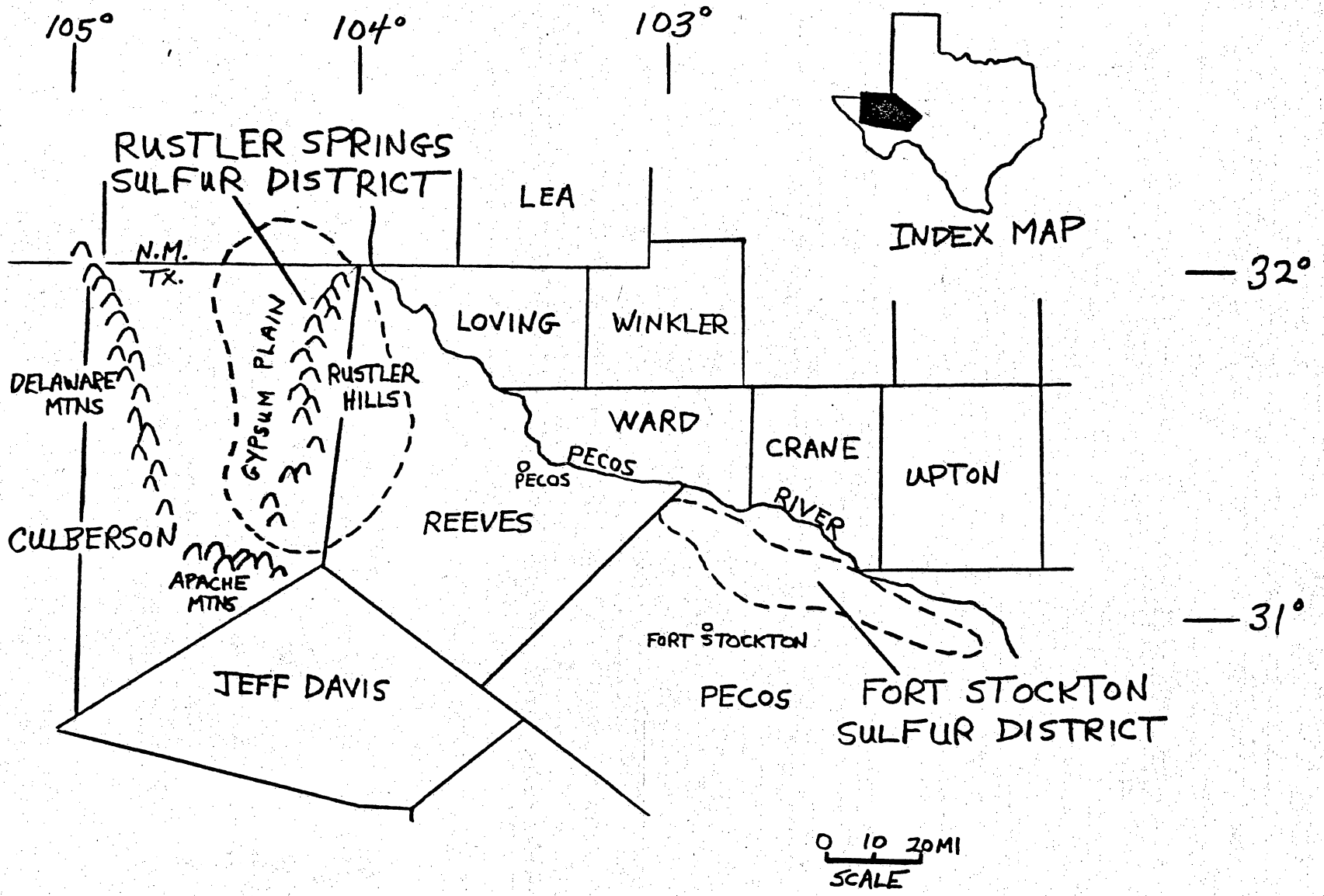


Figure 1. Location map of Rustler Springs and Fort Stockton sulfur districts of Trans-Pecos Texas.

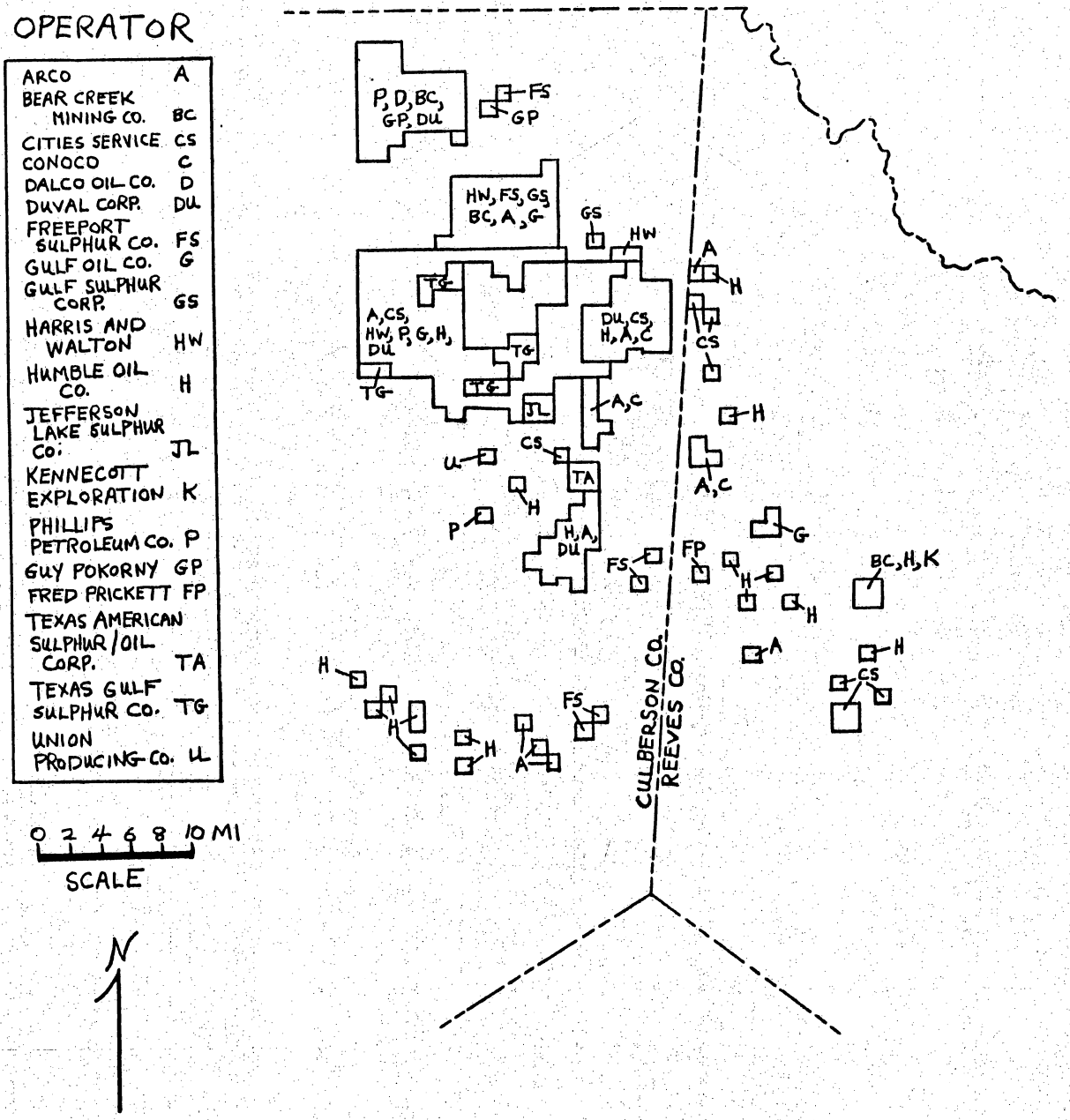


Figure 2. Distribution of sulfur-exploration drilling activity in the Rustler Springs sulfur district for the period 1967 to 1970. Because the drilling records were derived primarily from GLO files, the map only documents drilling on State-owned tracts. Therefore, not all drilling conducted in this area during this period is represented.

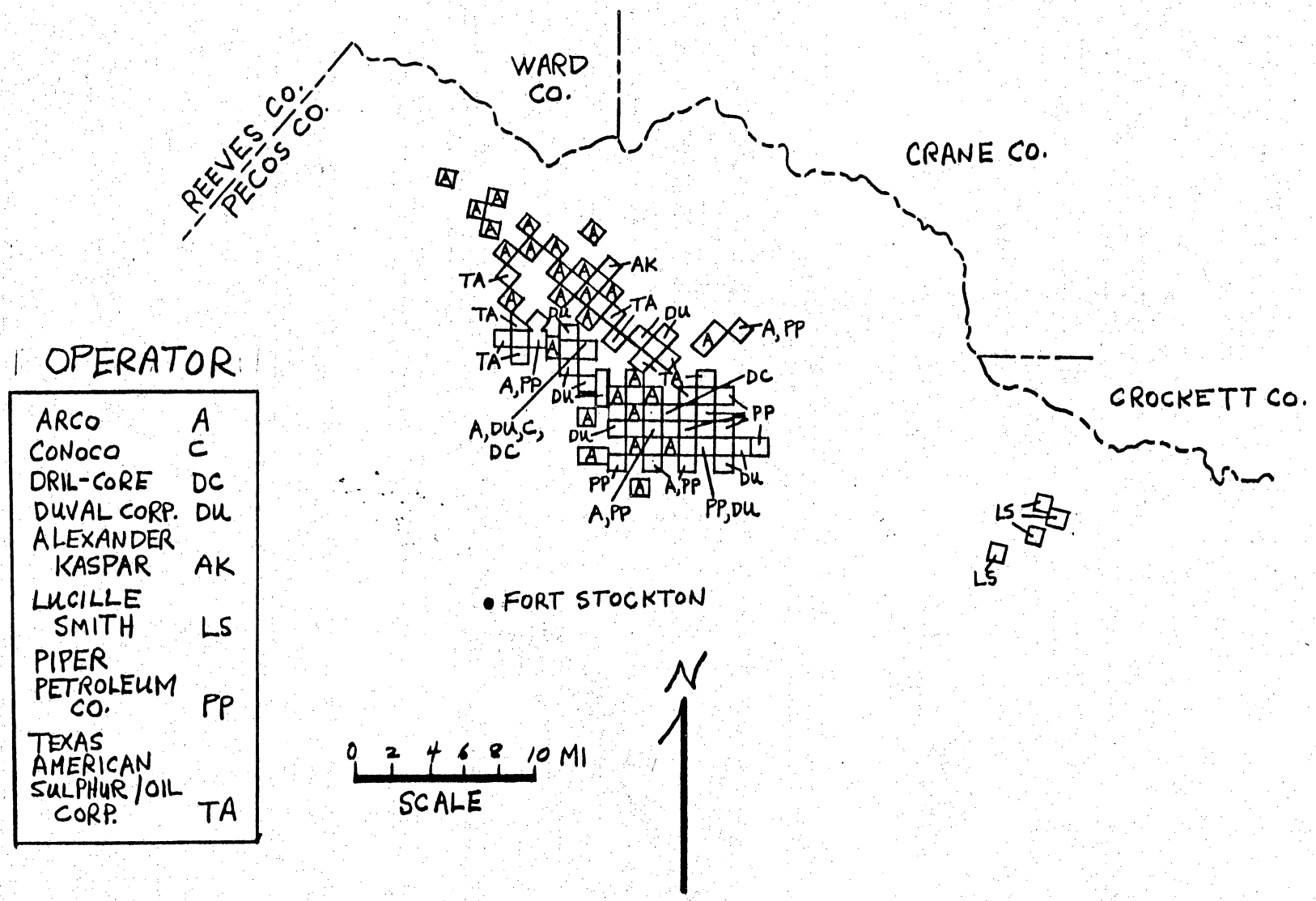


Figure 3. Distribution of sulfur-exploration drilling activity on State-owned tracts in the Fort Stockton sulfur district during the period 1967 to 1970. Restrictions of figure 2 apply.

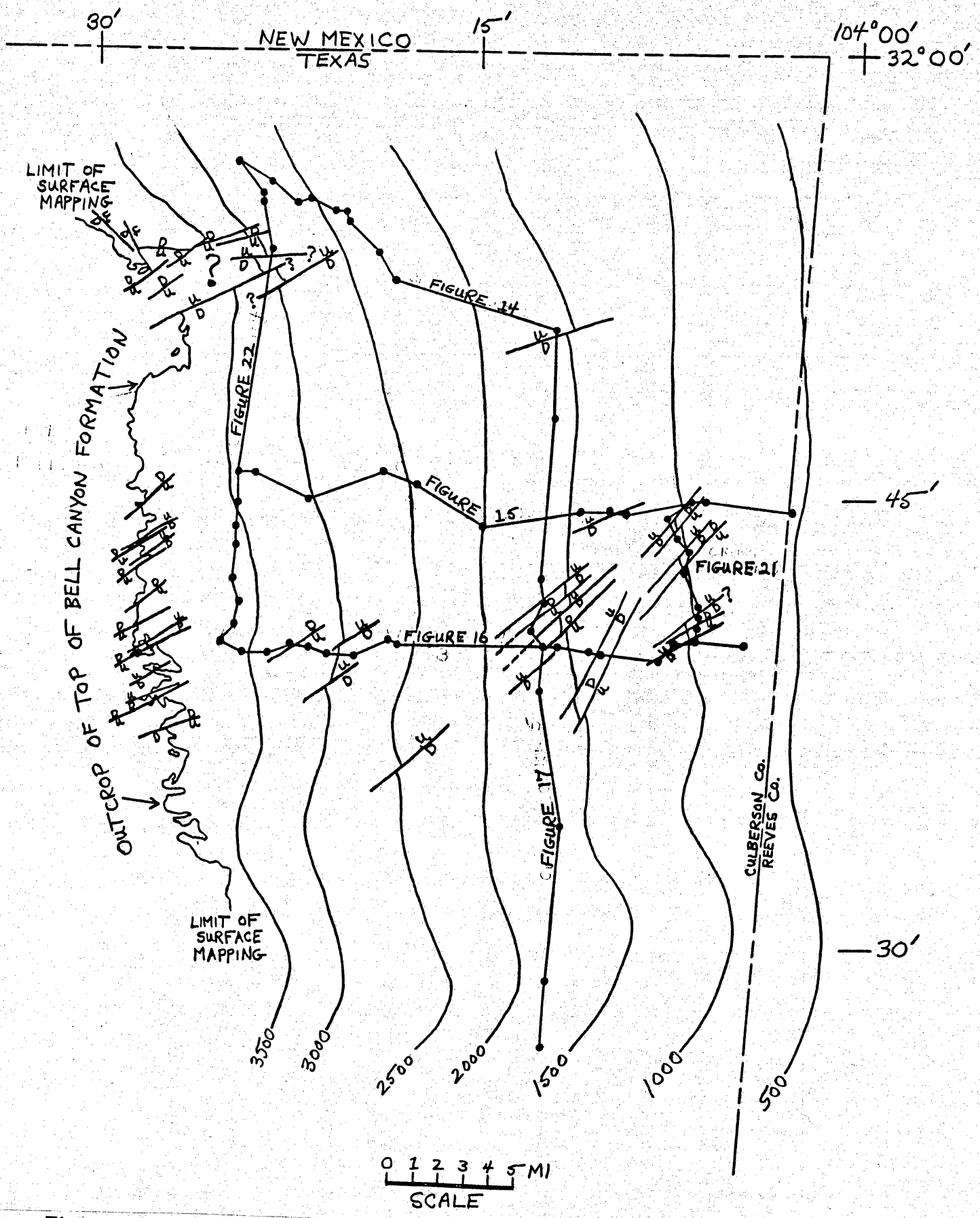


Figure 4. Structure-contour map of the top of the Bell Canyon Formation in the Rustler Springs sulfur district. Orientations of cross-section lines coincide with regional strike and dip. Locations of faults derived from subsurface and photogeologic analysis are preferentially concentrated in areas of good well control and well-exposed, relatively unweathered bedrock (at western limit of outcrop). Refer to figure 29 for well control of the Bell Canyon horizon.

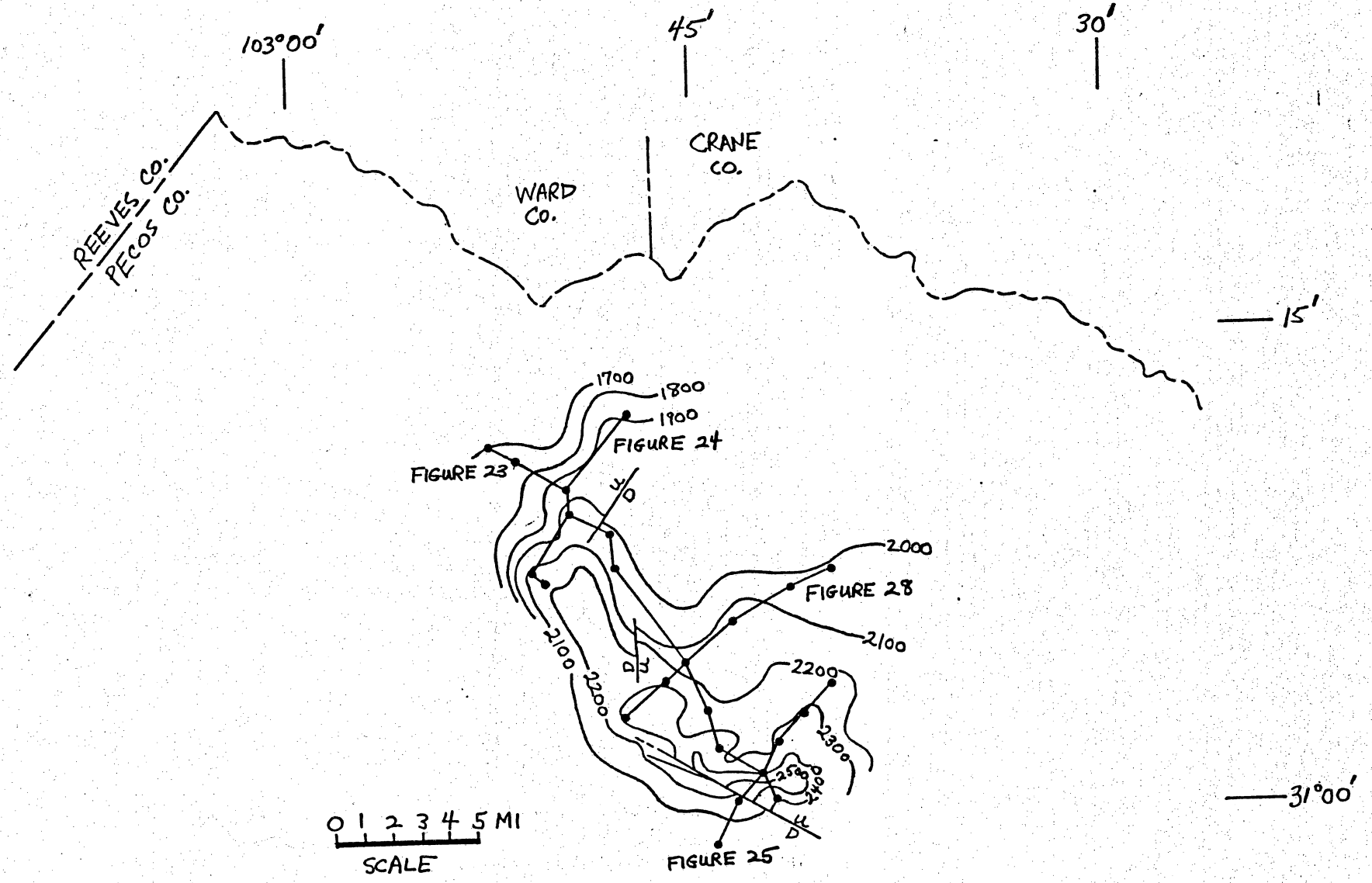


Figure 5. Cross-section lines superimposed on structure-contour map of the top of the Rustler Formation in the Fort Stockton sulfur district. Cross sections are oriented approximately parallel and perpendicular to the axis of the anticline. Refer to figure 35 for well control of the Rustler horizon.

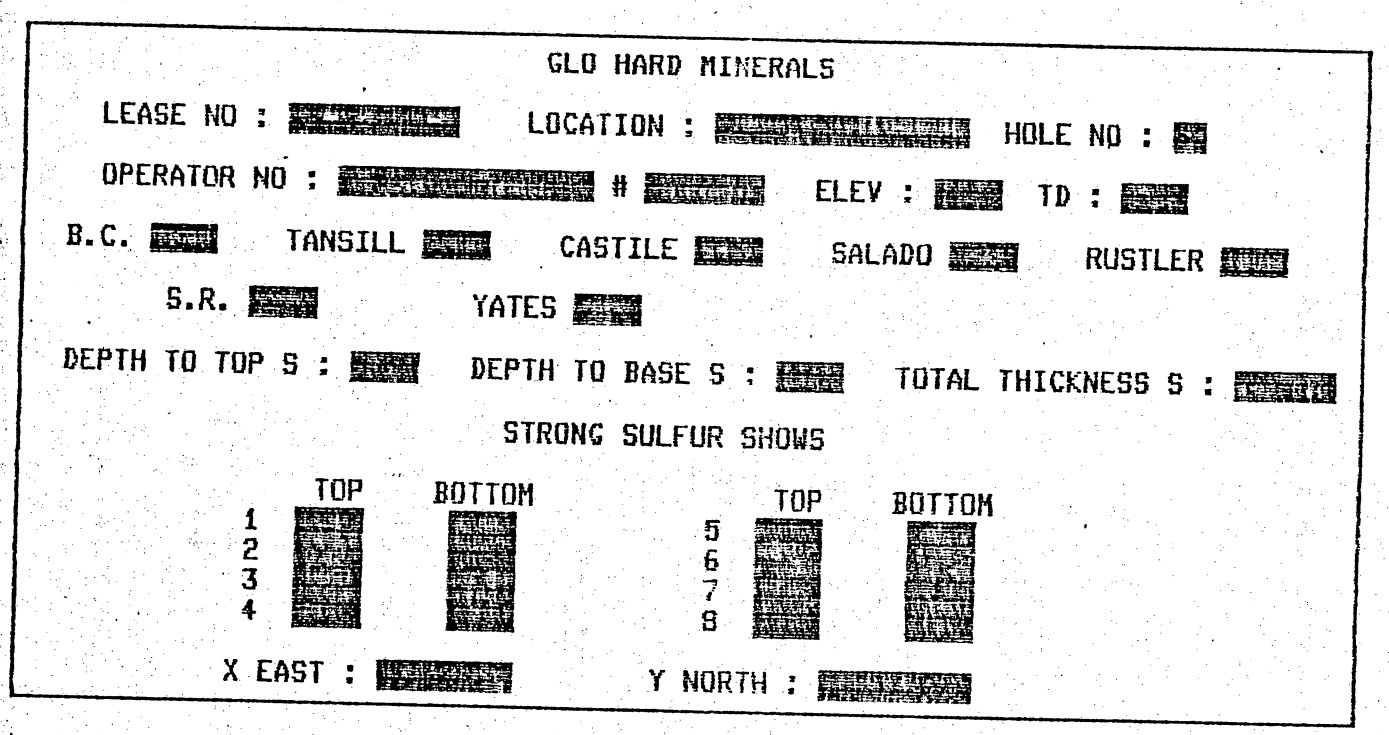


Figure 6. Example record of SMARTSTAR database into which all drilling and stratigraphic data from individual wells in the sulfur districts were entered. Appendix 1 represents a compilation of these data from all wells.

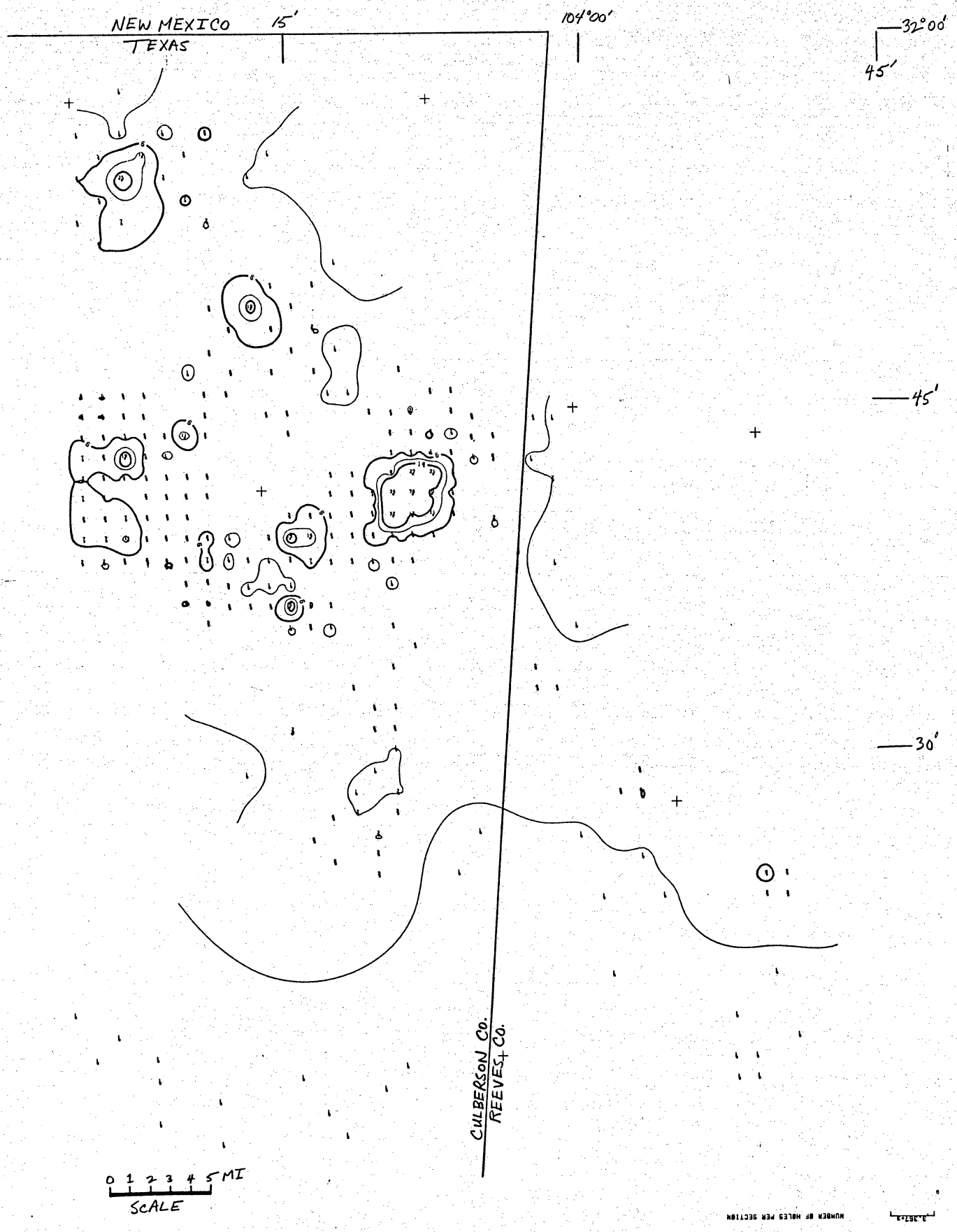


Figure 7. Contour map illustrating number of boreholes per section in the Rustler Springs sulfur district.

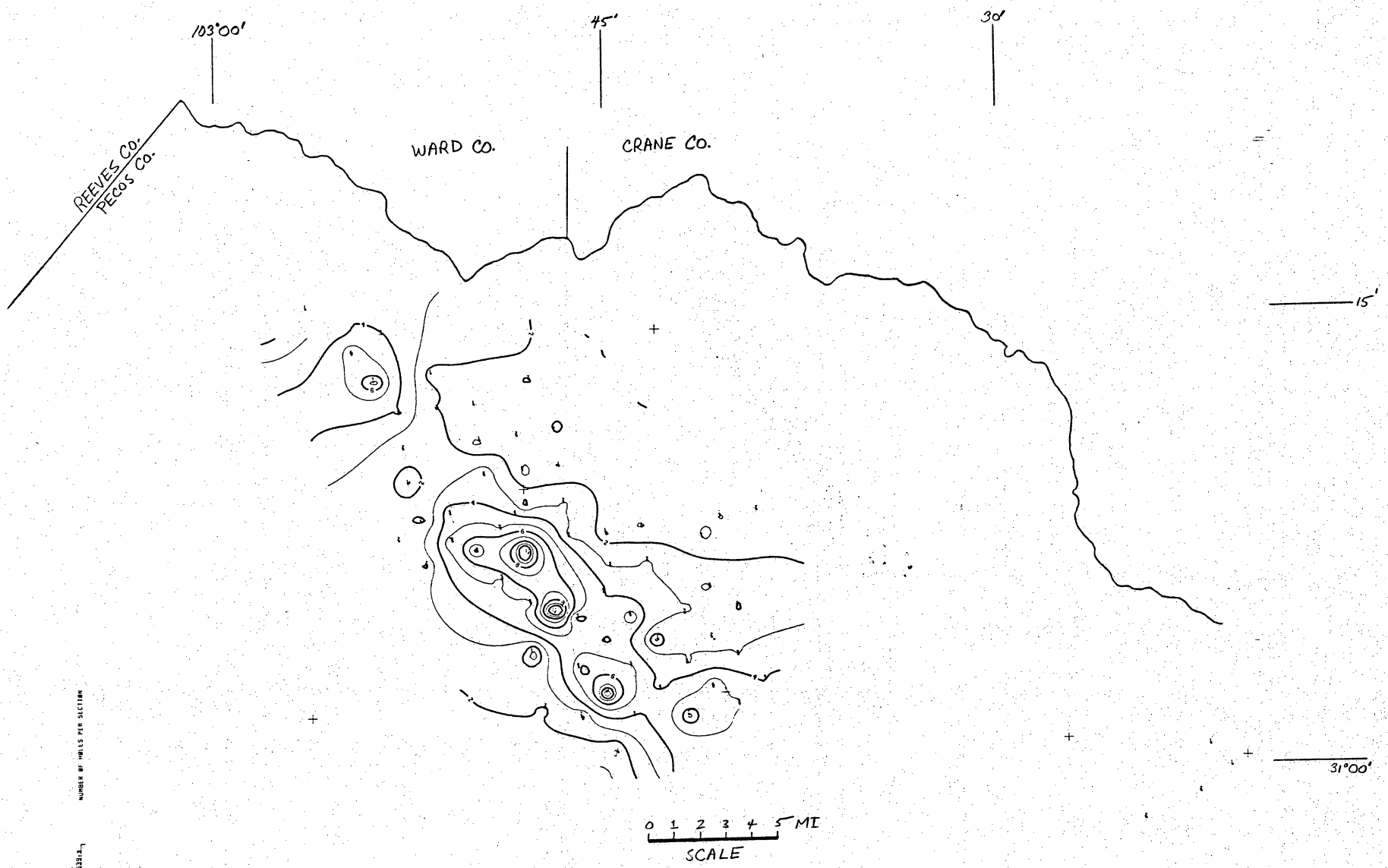


Figure 8. Contour map illustrating number of boreholes per section in the Fort Stockton sulfur district.

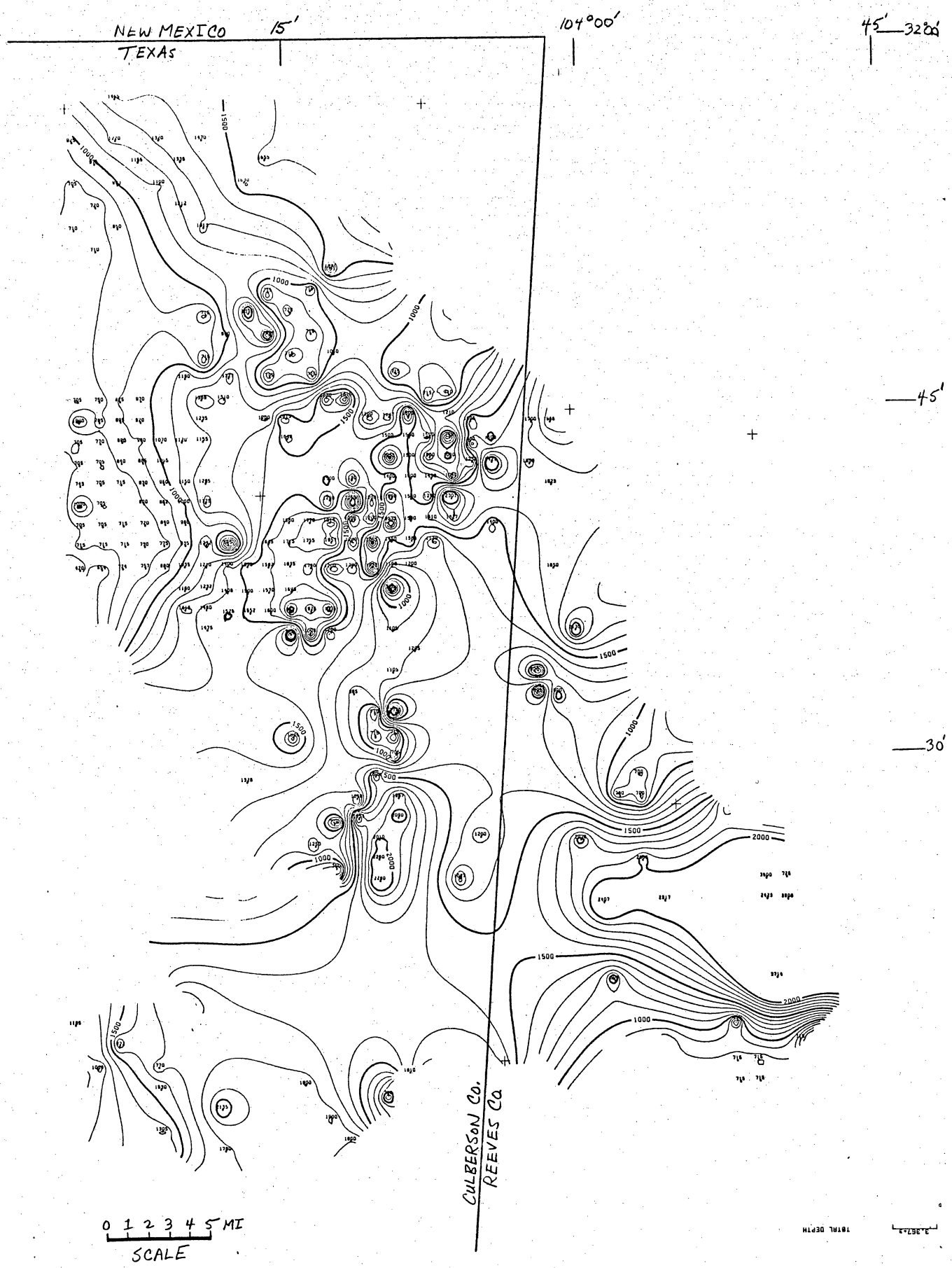


Figure 9. Contour map of maximum values of total depth for all boreholes within each section of the Rustler Springs sulfur district (see table 5).

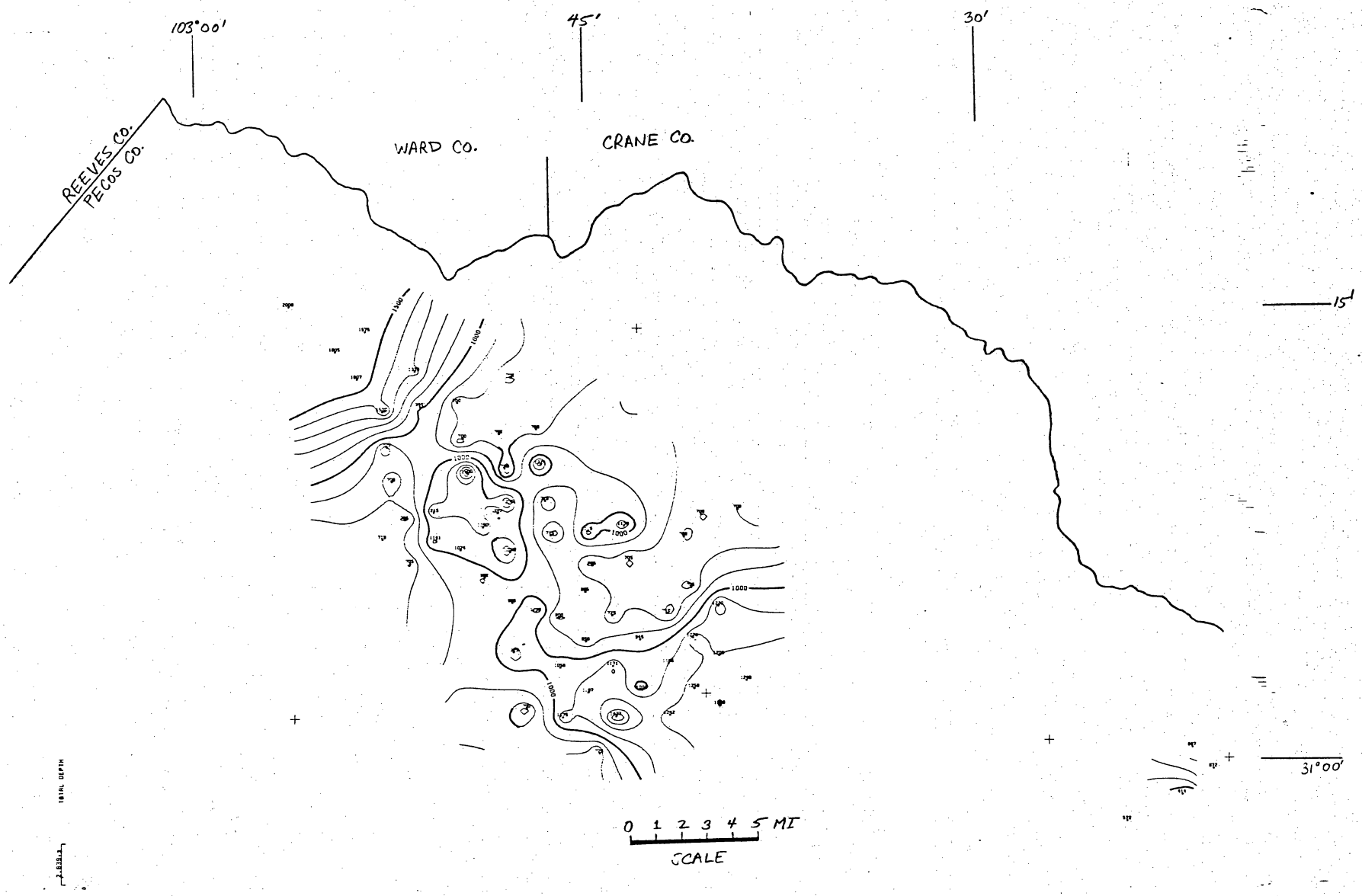


Figure 10. Contour map of maximum values of total depth for all boreholes within each section of the Fort Stockton sulfur district (see table 5).

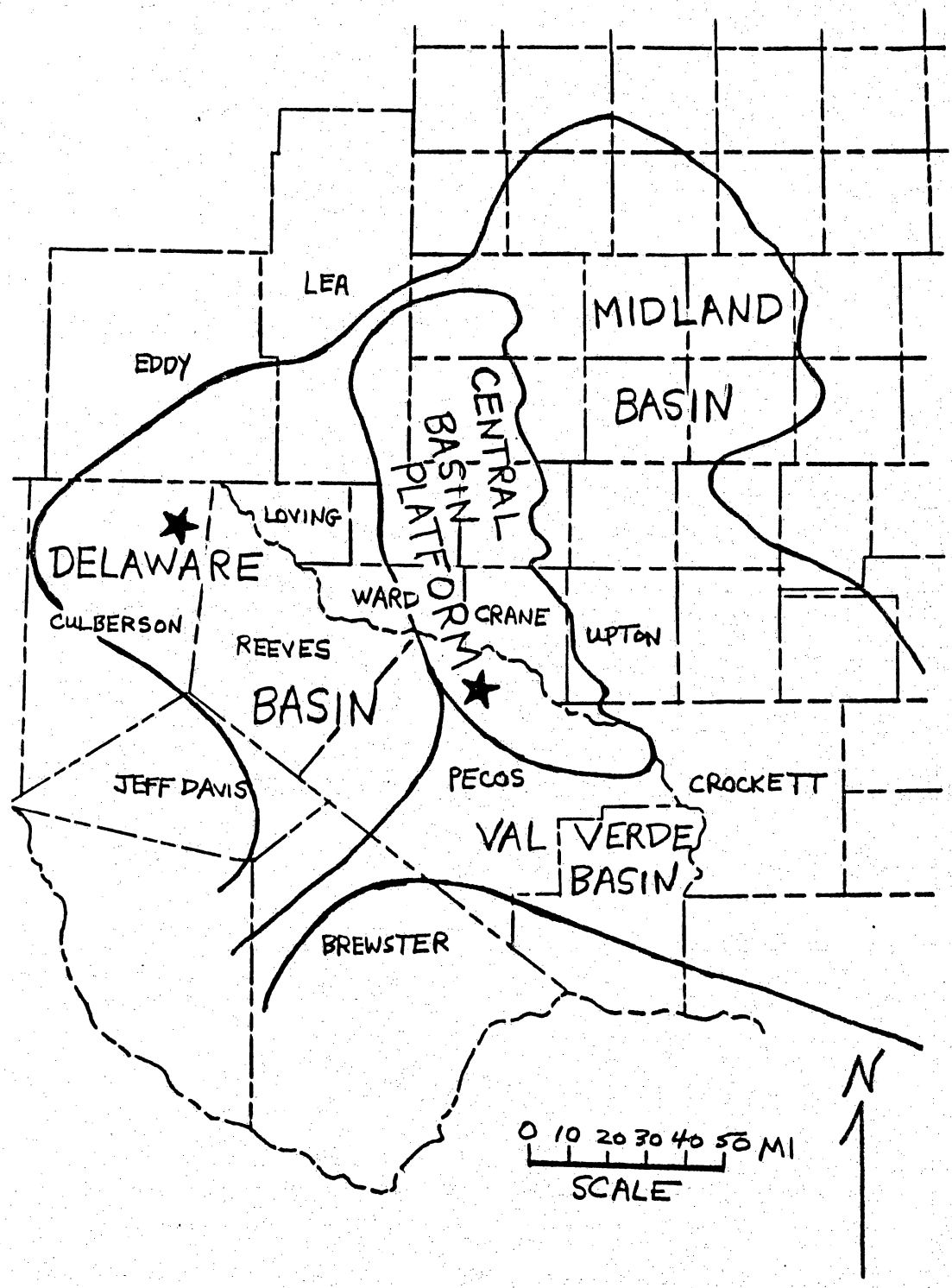


Figure 11. Structural subdivisions of the Permian Basin of West Texas and southeastern New Mexico. Stars locate Rustler Springs sulfur district (west) and Fort Stockton sulfur district (east) (from Hills, 1972).

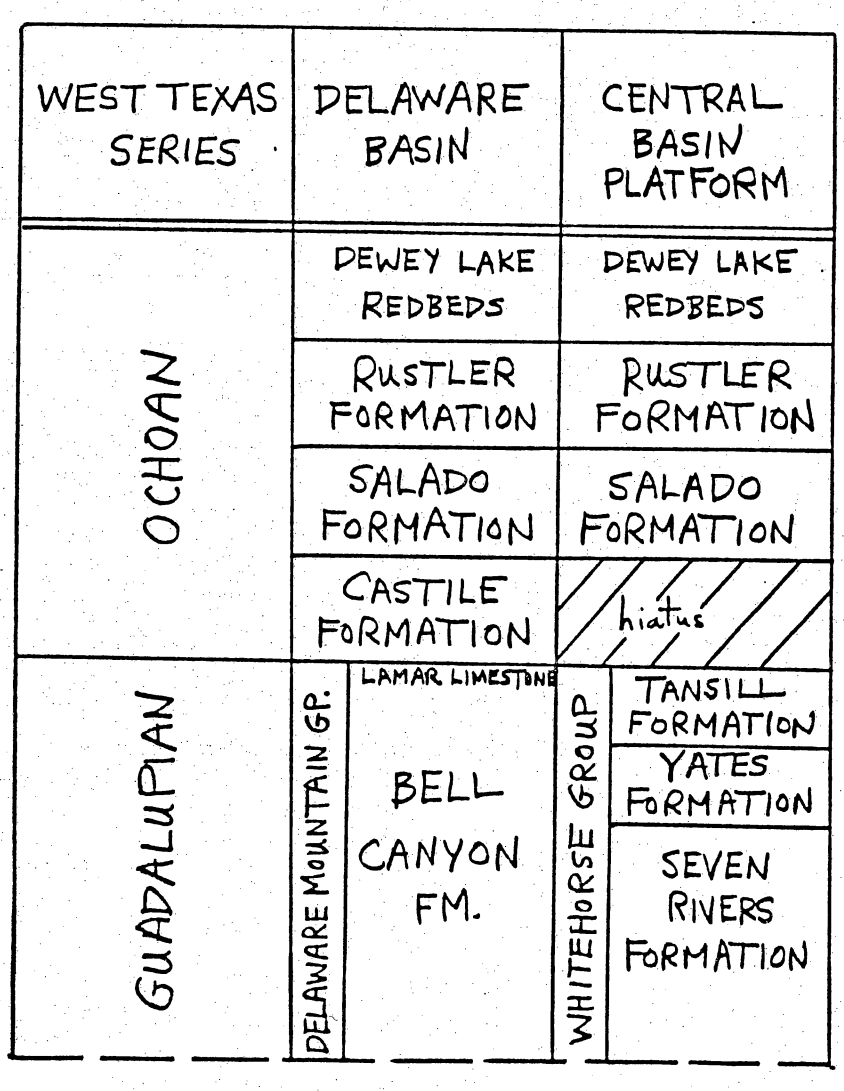


Figure 12. Upper Permian stratigraphy represented in the Rustler Springs (Delaware Basin) and Fort Stockton (Central Basin Platform) sulfur districts.

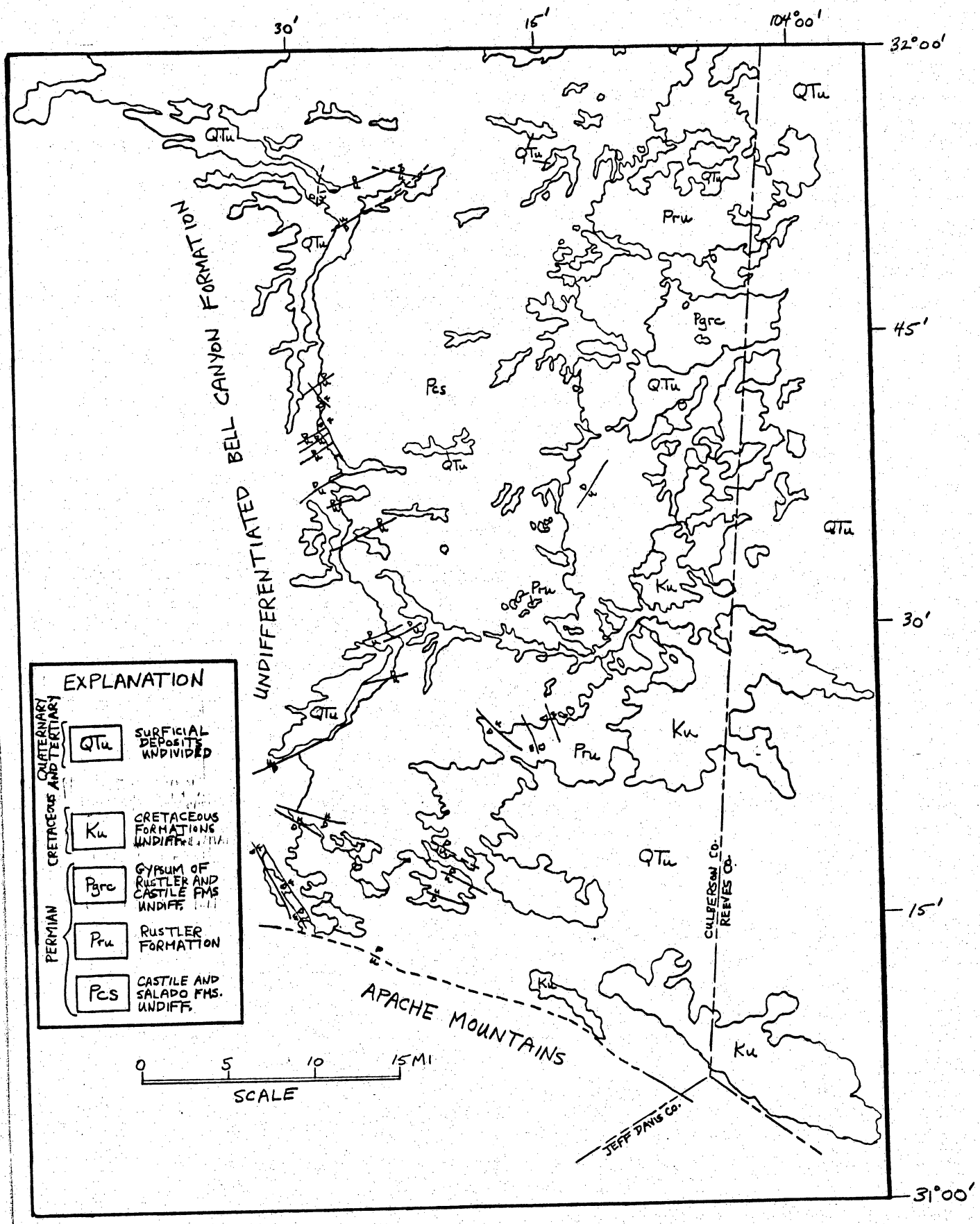


Figure 13. Geologic map of the Rustler Springs sulfur district and surrounding areas (generalized from Barnes, 1983).

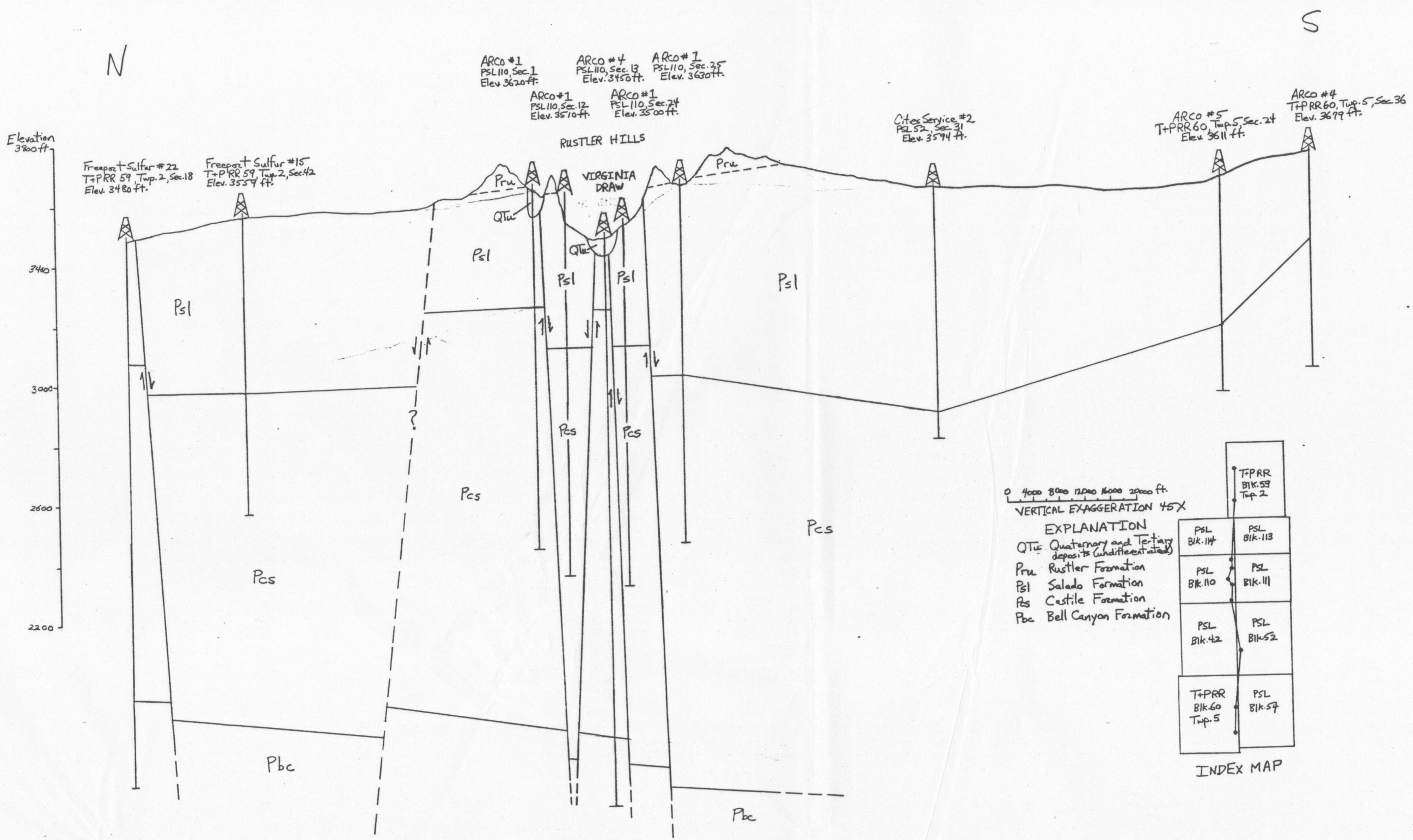


Figure 17. Regional strike-oriented cross section of the central area of well coverage in the Rustler Springs sulfur district (see fig. 4).

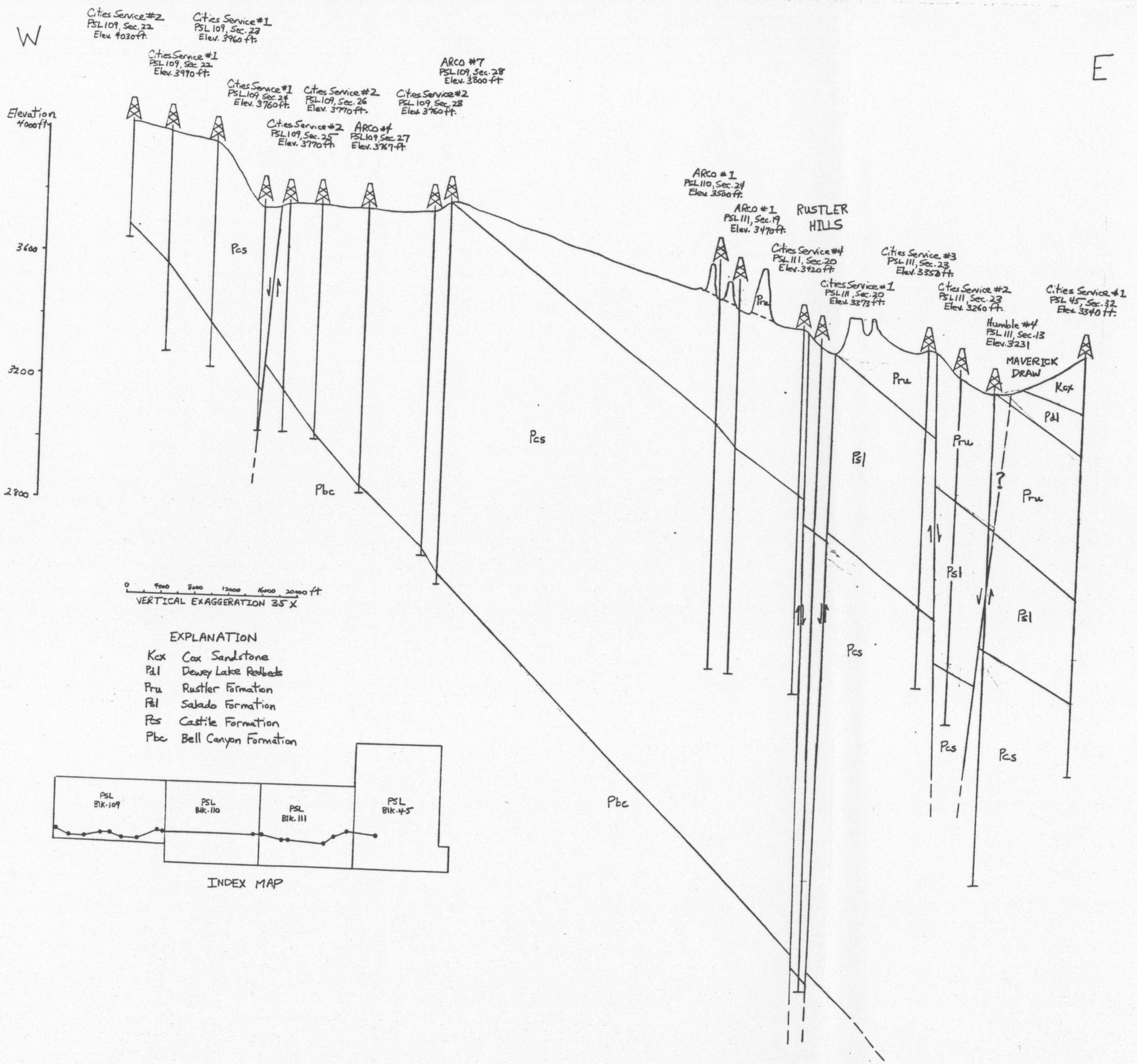


Figure 16. Regional dip-oriented cross section of the southern area of well coverage in the Rustler Springs sulfur district (see fig. 4).

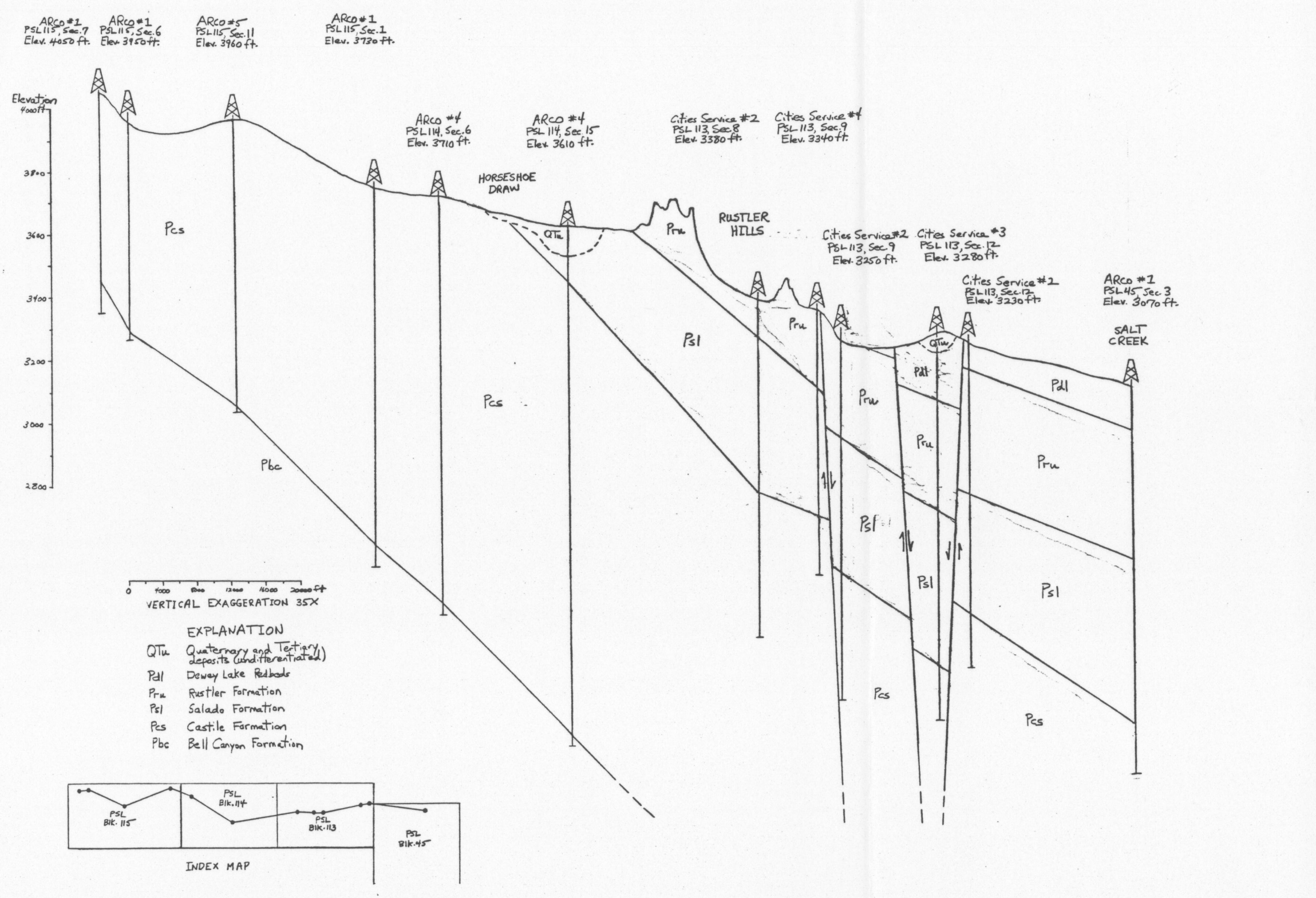


Figure 15. Regional dip-oriented cross section of the central area of well coverage in the Rustler Springs sulfur district (see fig. 4).

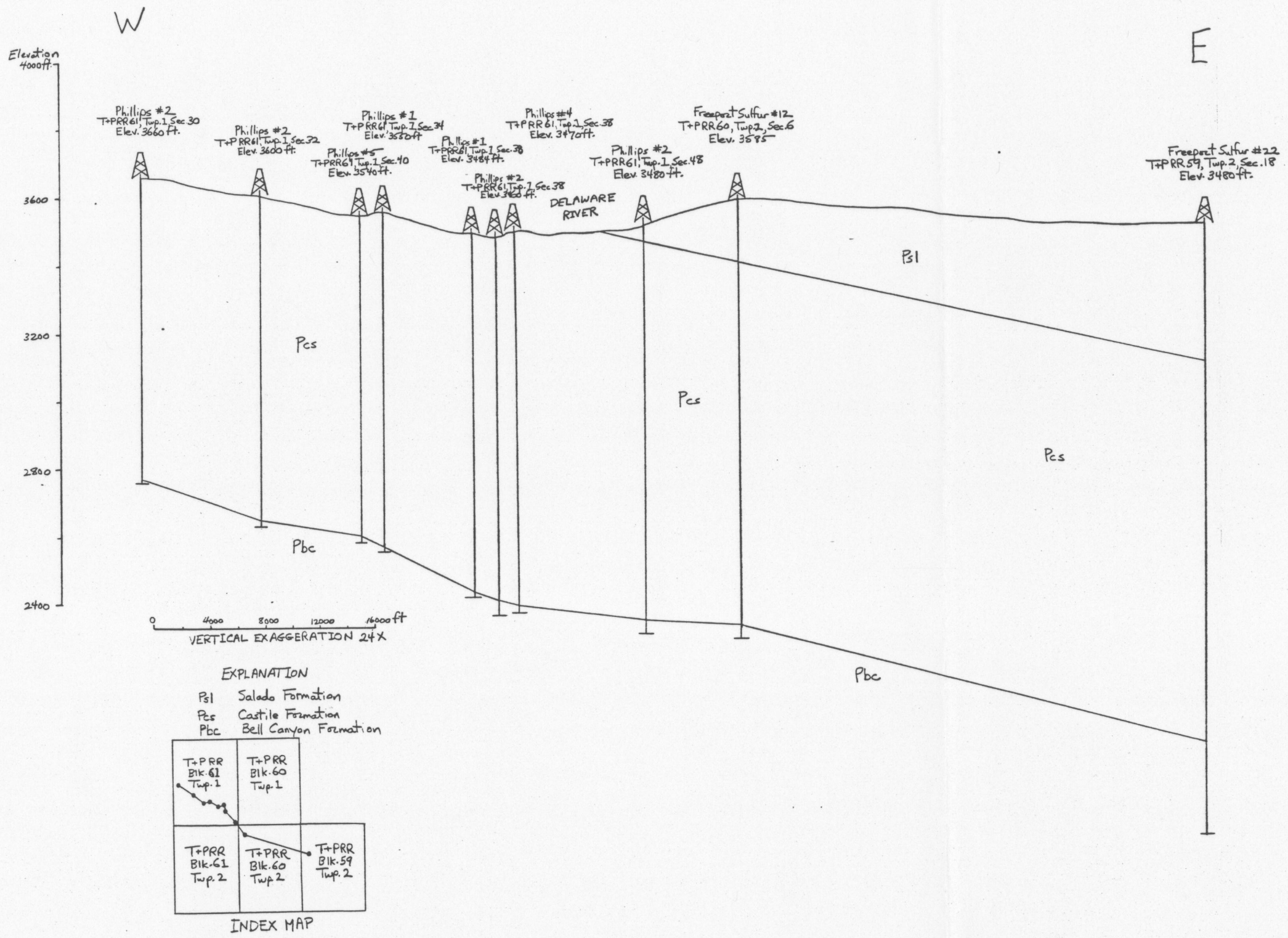


Figure 14. Regional dip-oriented cross section of the northern area of well coverage in the Rustler Springs sulfur district (see fig. 4).

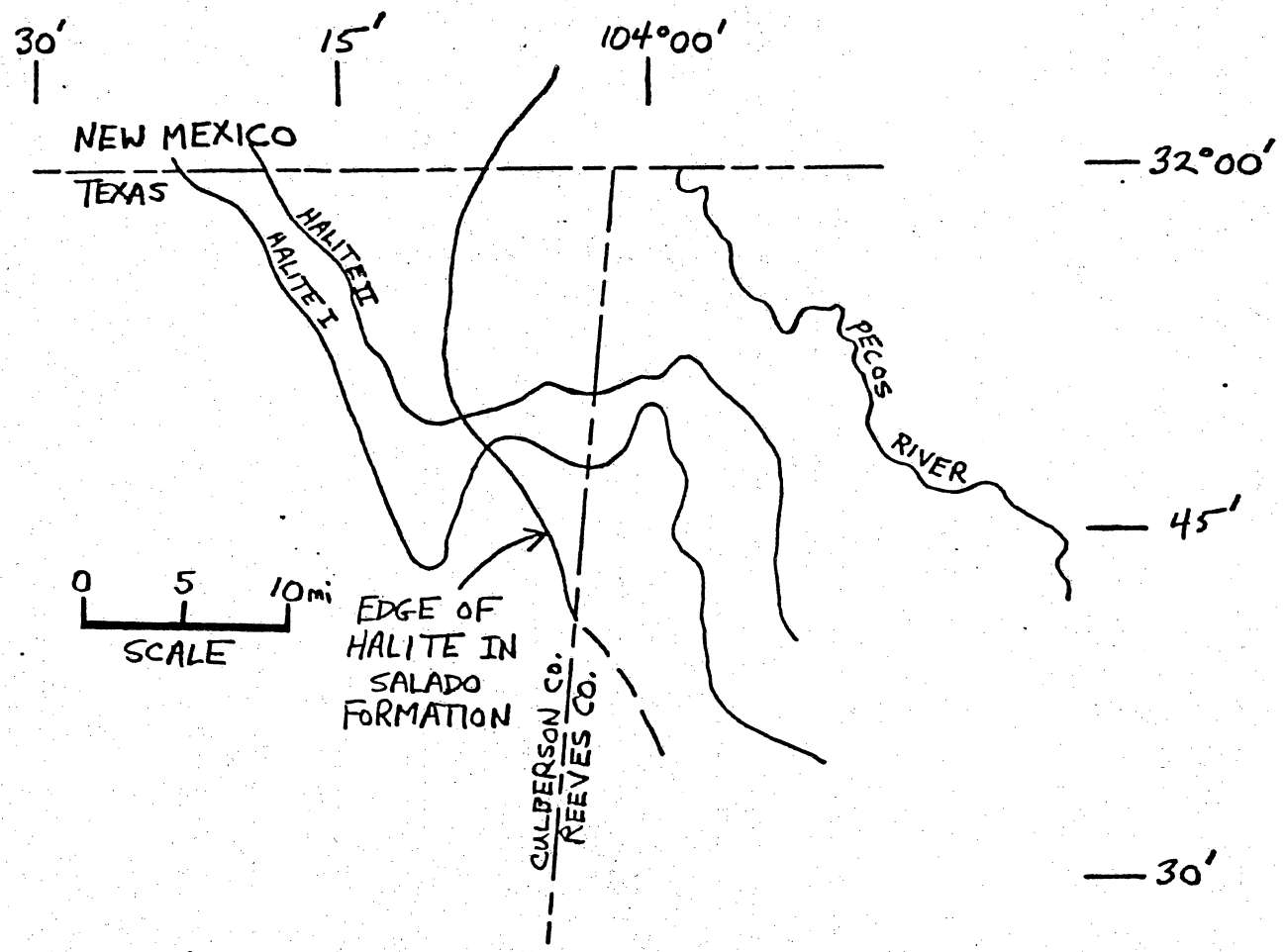


Figure 18. Subsurface limits of halite marker beds within the Castile (Halites I and II) and Salado Formations (modified from Anderson and others, 1978; Smith, 1978).

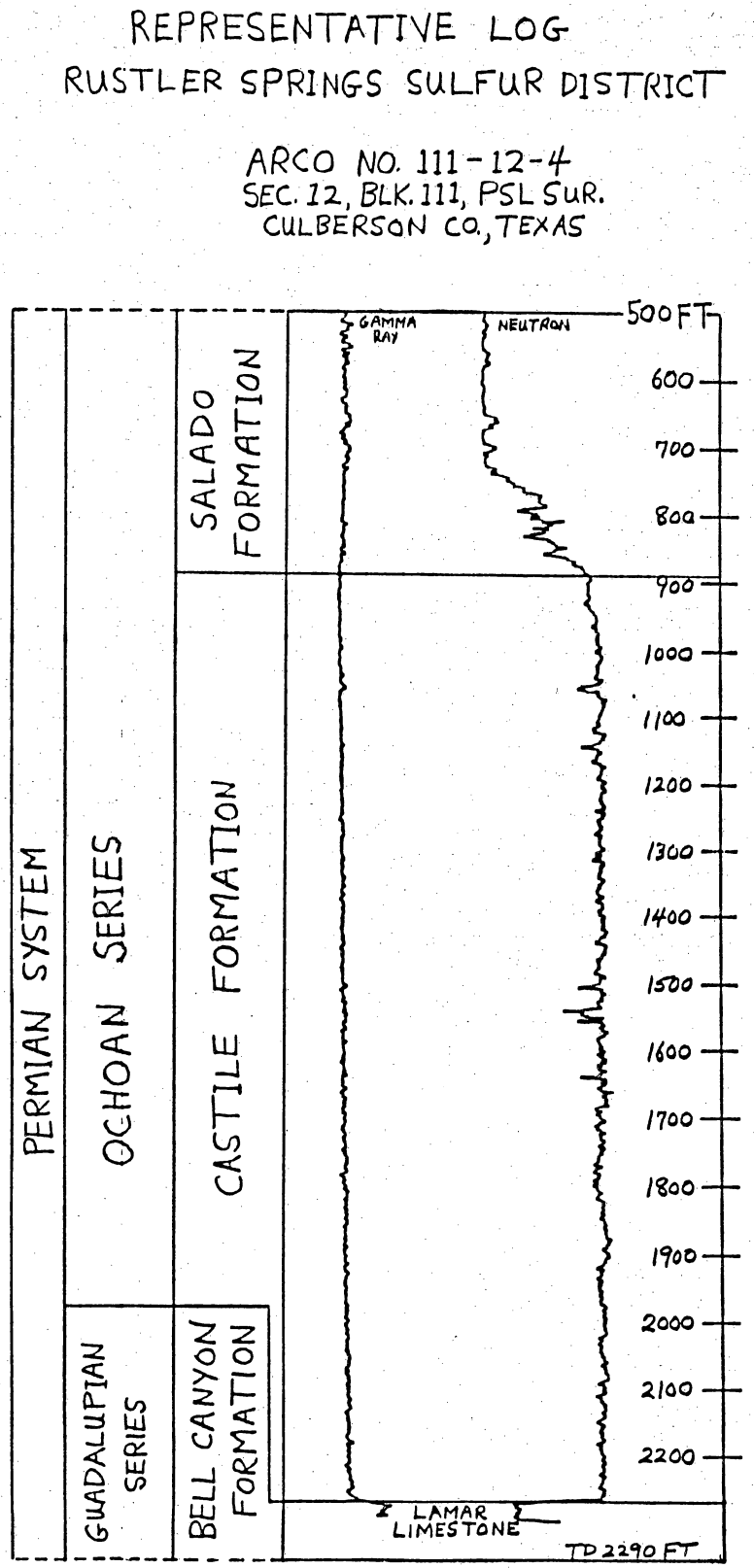


Figure 19. Representative log of the Castile Formation in the Rustler Springs sulfur district.

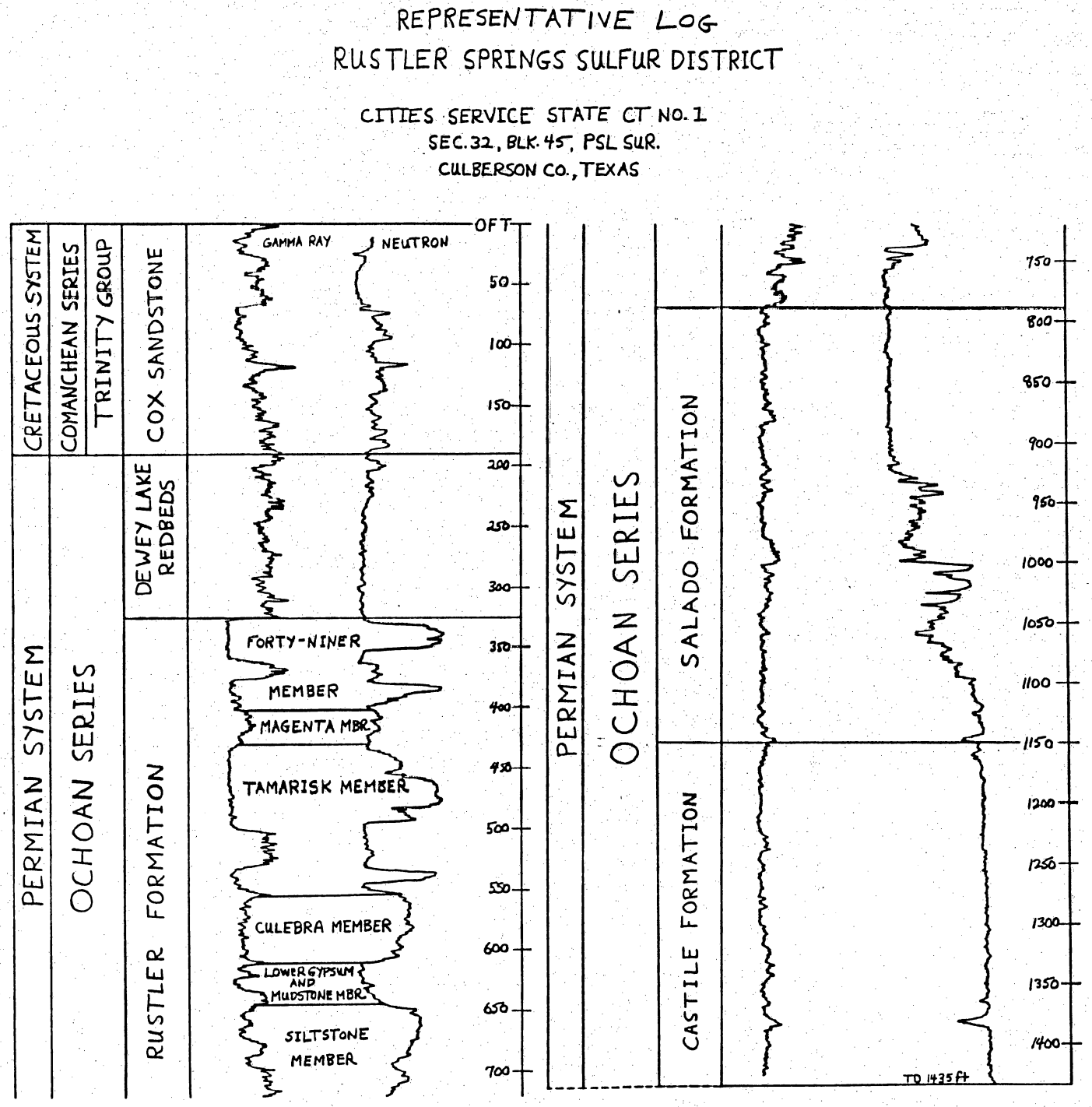
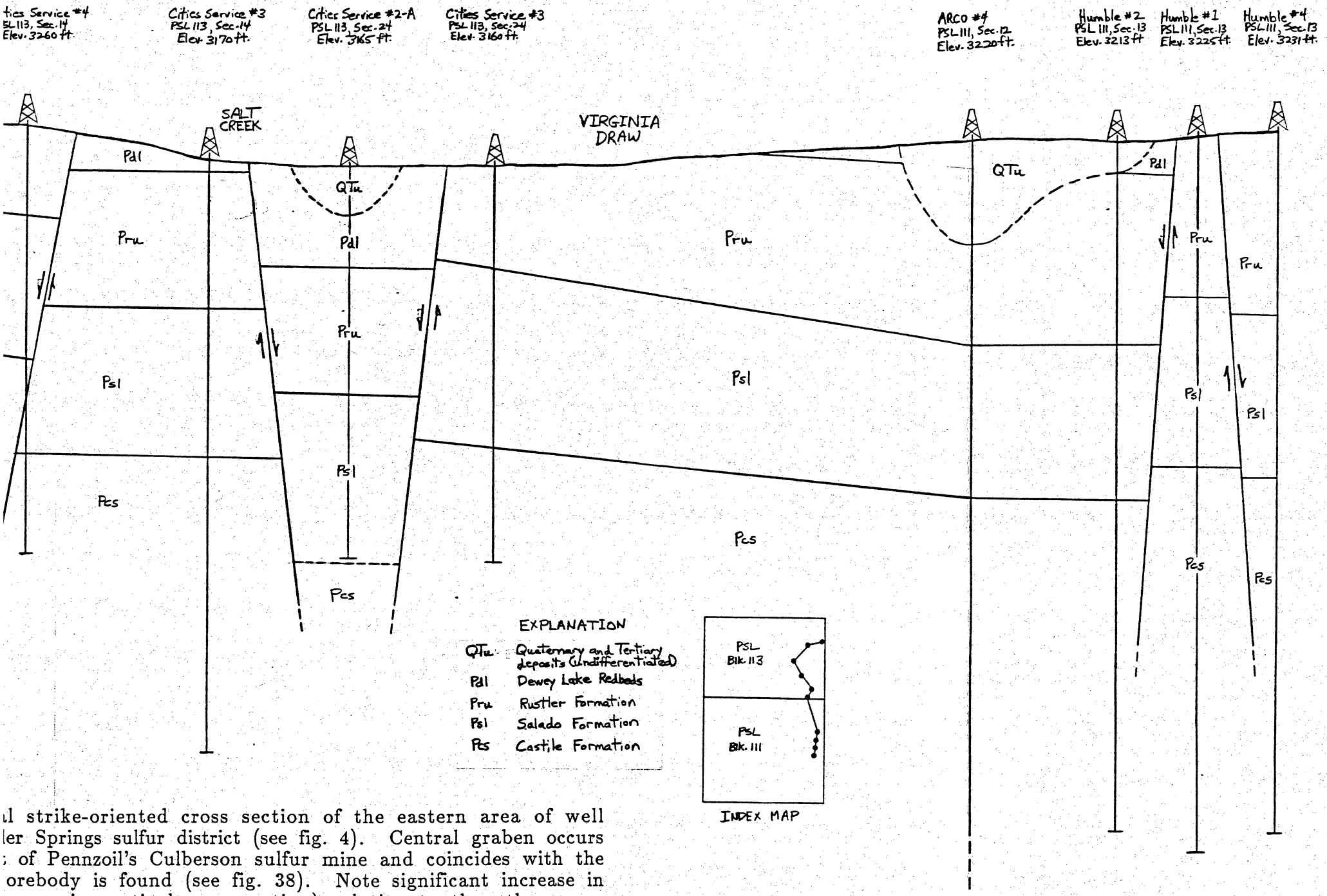


Figure 20. Representative log of the Salado and Rustler Formations and part of the Castile and Dewey Lake Formations in the Rustler Springs sulfur district.



ıl strike-oriented cross section of the eastern area of well
ler Springs sulfur district (see fig. 4). Central graben occurs
; of Pennzoil's Culberson sulfur mine and coincides with the
orebody is found (see fig. 38). Note significant increase in
:rease in vertical exaggeration) relative to the other cross

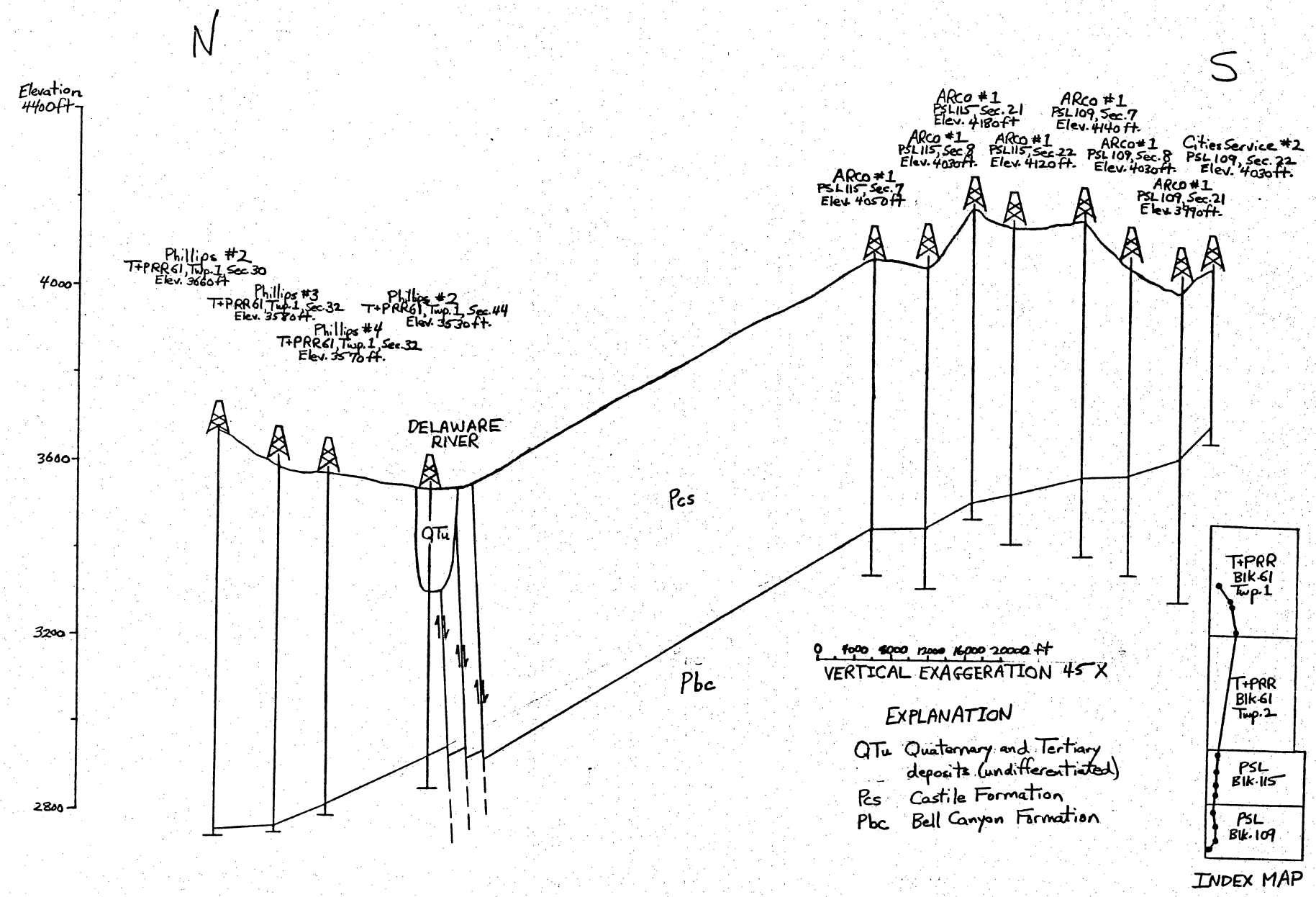


Figure 22. Regional strike-oriented cross section of the western area of well coverage in the Rustler Springs sulfur district (see fig. 4). Faults were interpreted from photogeologic inspection of the western Gypsum Plain (see fig. 32).

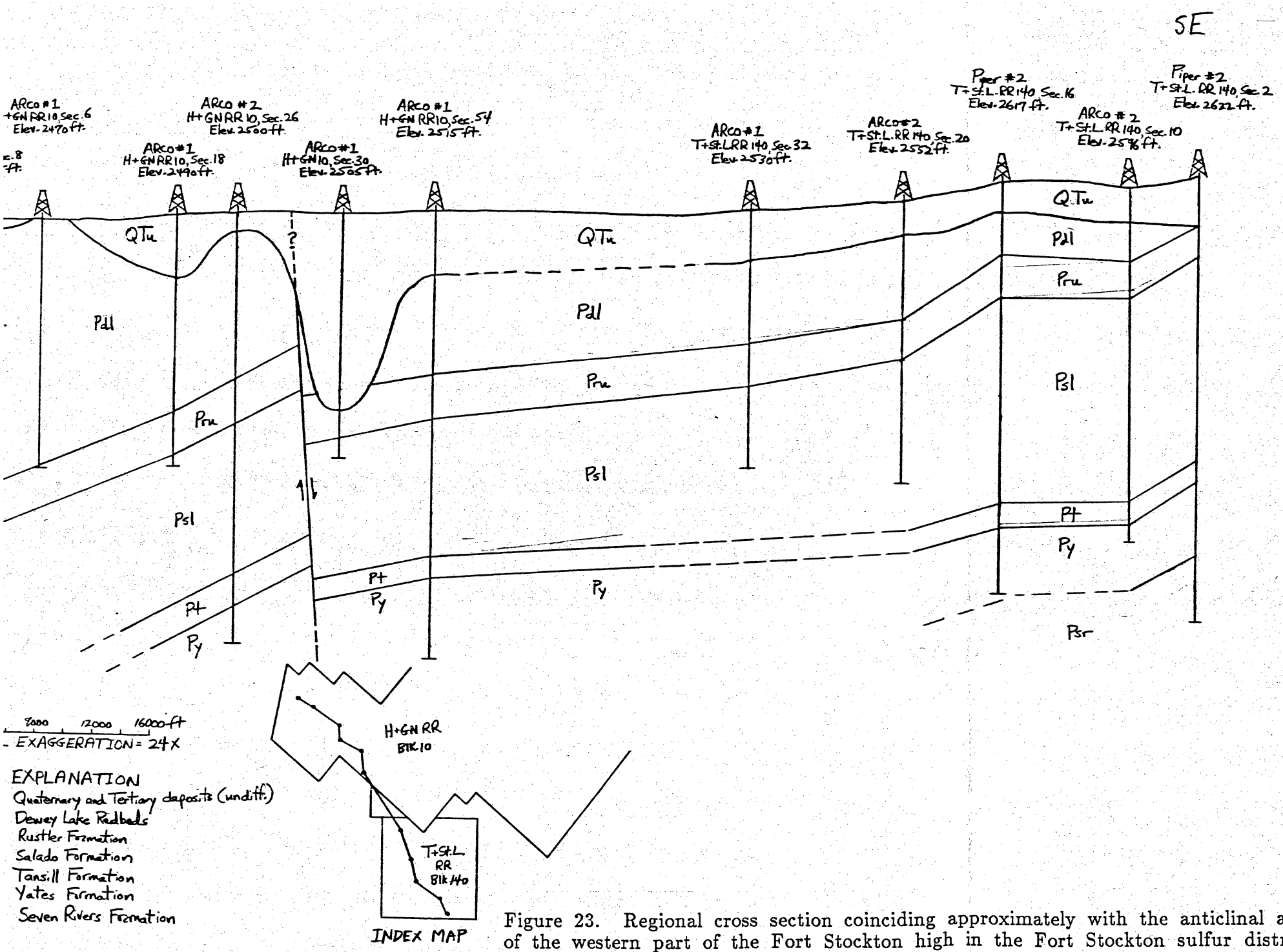


Figure 23. Regional cross section coinciding approximately with the anticlinal axis of the western part of the Fort Stockton high in the Fort Stockton sulfur district (see fig. 5).



Figure 63. Map of Rustler Springs sulfur district outlining areas of multiple overlap of individual areas of favorability illustrated in figure 61. Regions with a sulfur assessment ranking (table 7) of 3 (moderately favorable geologic conditions) indicate areas of no overlap; a ranking of 7 (highly favorable geologic conditions) indicates areas of multiple overlap. Active and inactive sulfur mines have rankings of 5 or 9, depending on the magnitude of known reserves or resources.

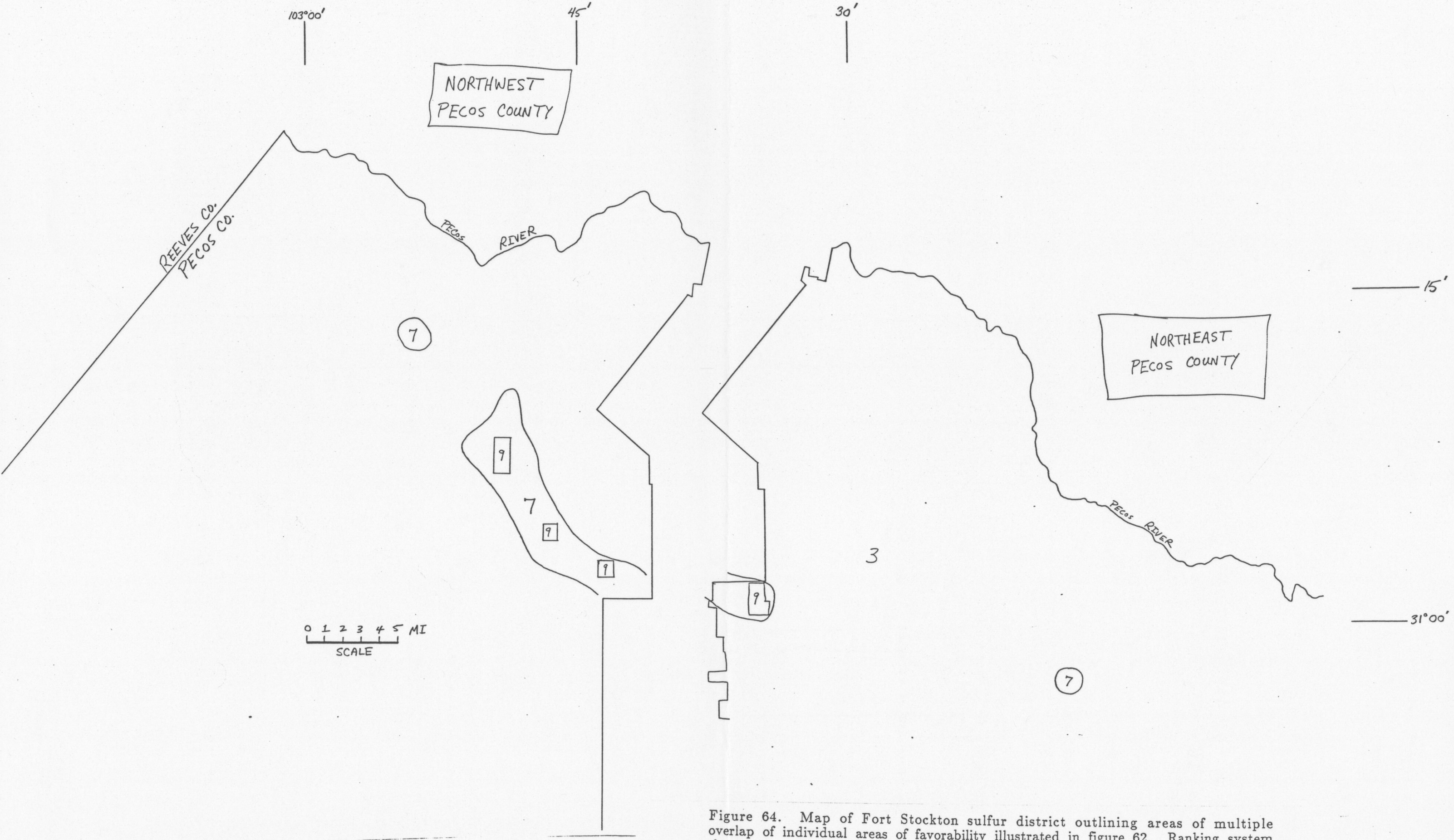


Figure 64. Map of Fort Stockton sulfur district outlining areas of multiple overlap of individual areas of favorability illustrated in figure 62. Ranking system the same as described in figure 63.

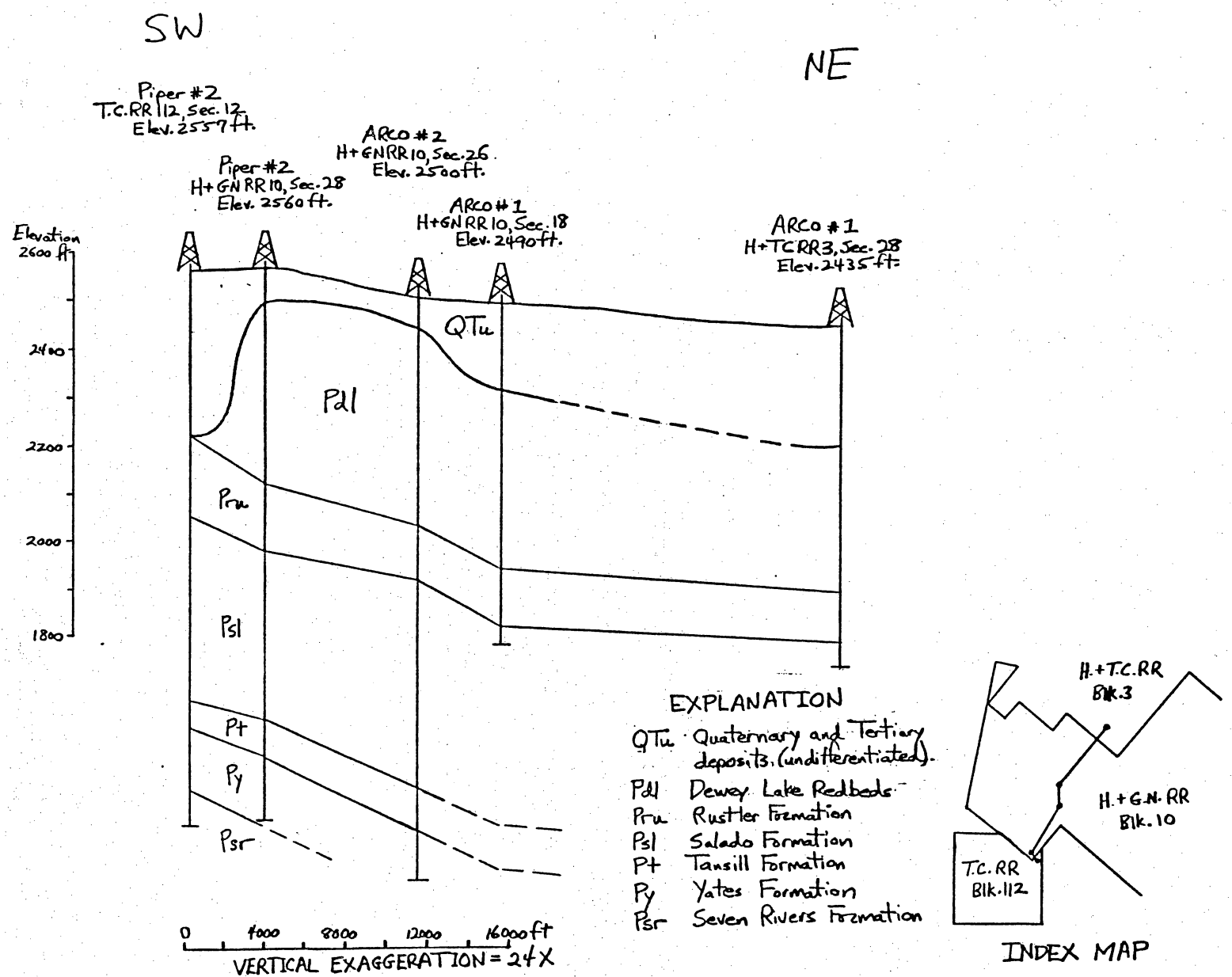


Figure 24. Regional cross section oriented perpendicular to the anticlinal axis in the northwestern part of the Fort Stockton sulfur district (see fig. 5).

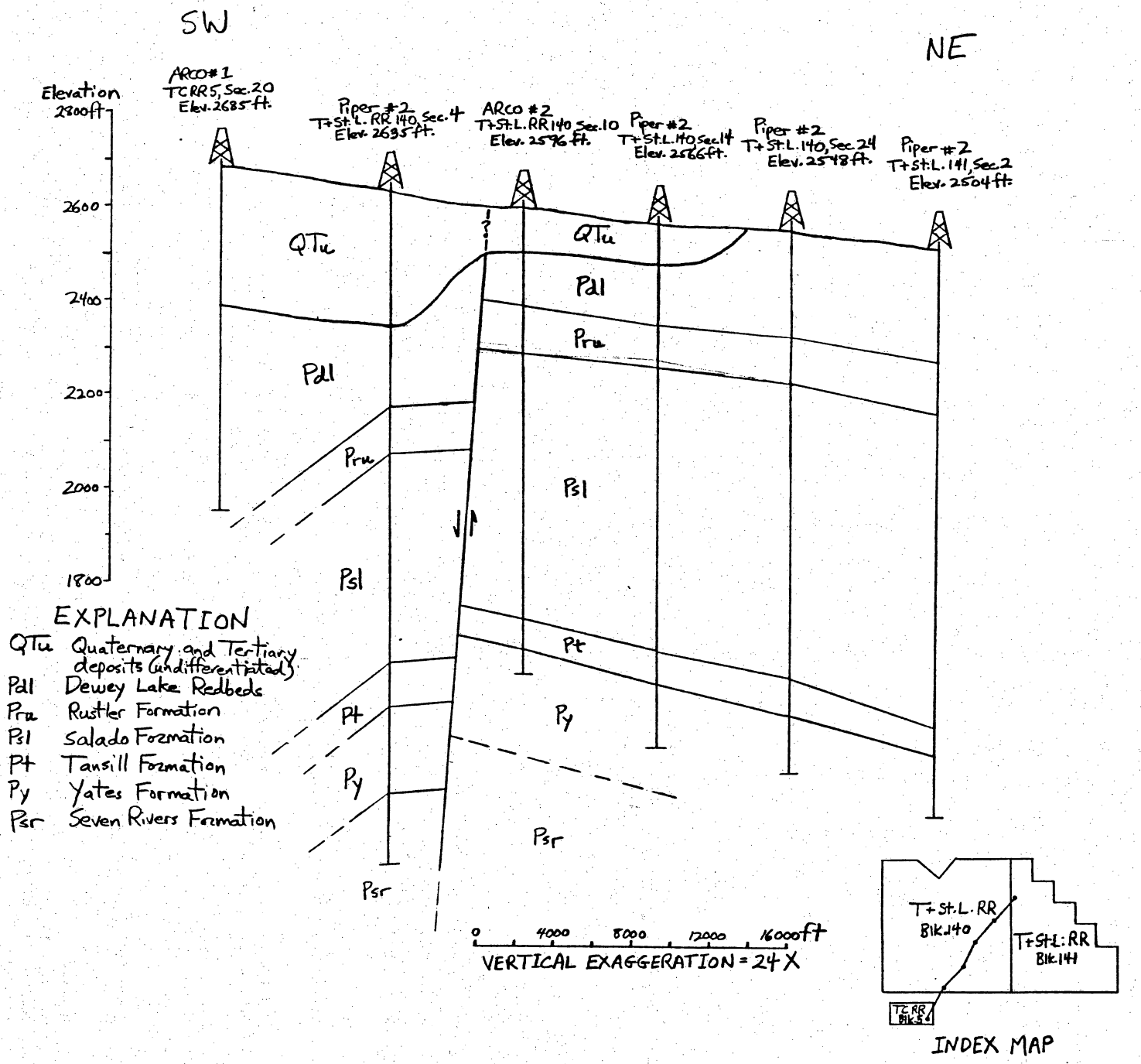


Figure 25. Regional cross section oriented perpendicular to the anticlinal axis in the southeastern part of the Fort Stockton sulfur district (see fig. 5).

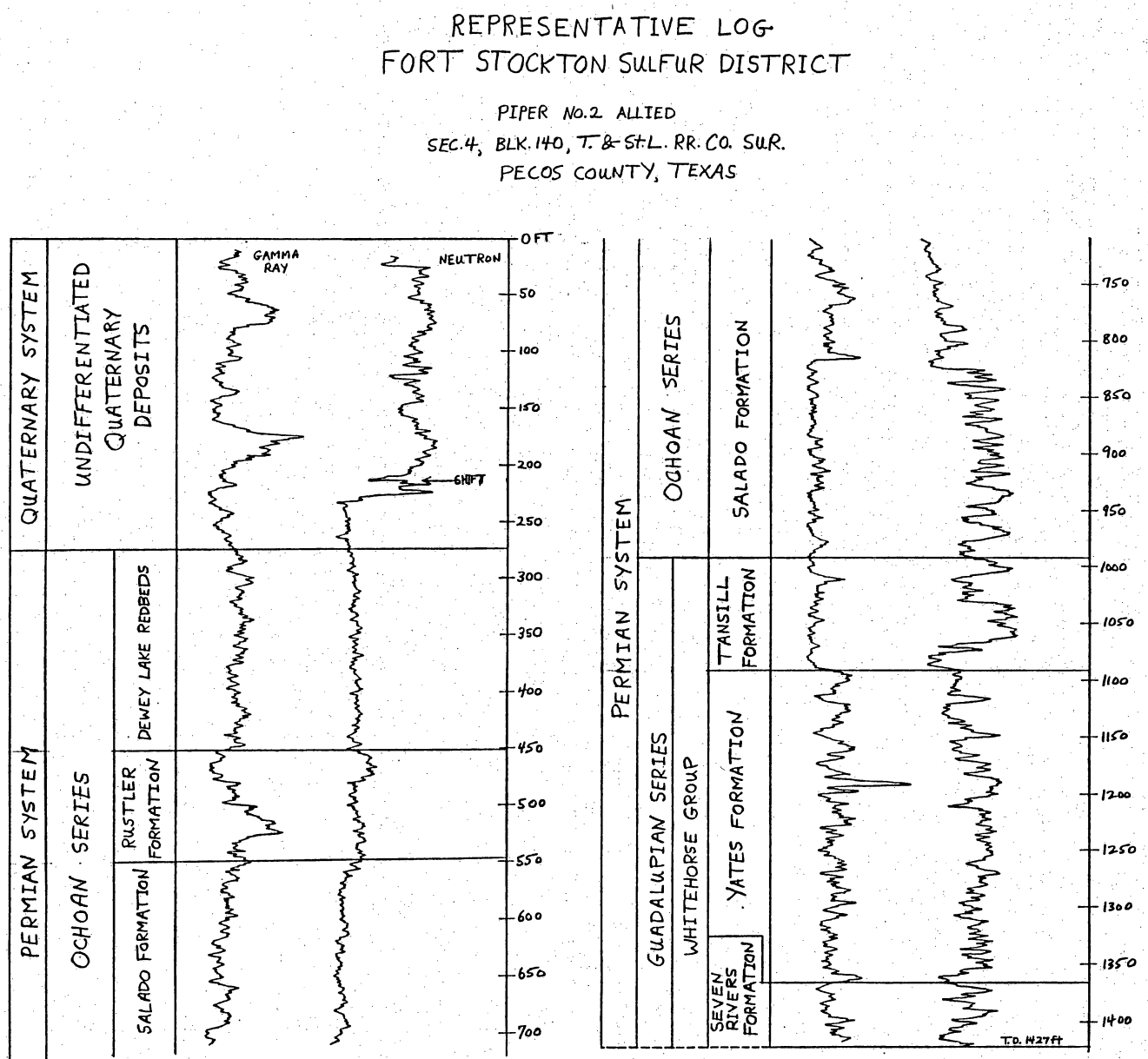


Figure 26. Representative log of the Yates, Tansill, Salado, and Rustler Formations and part of the Seven Rivers and Dewey Lake Formations in the Fort Stockton sulfur district.

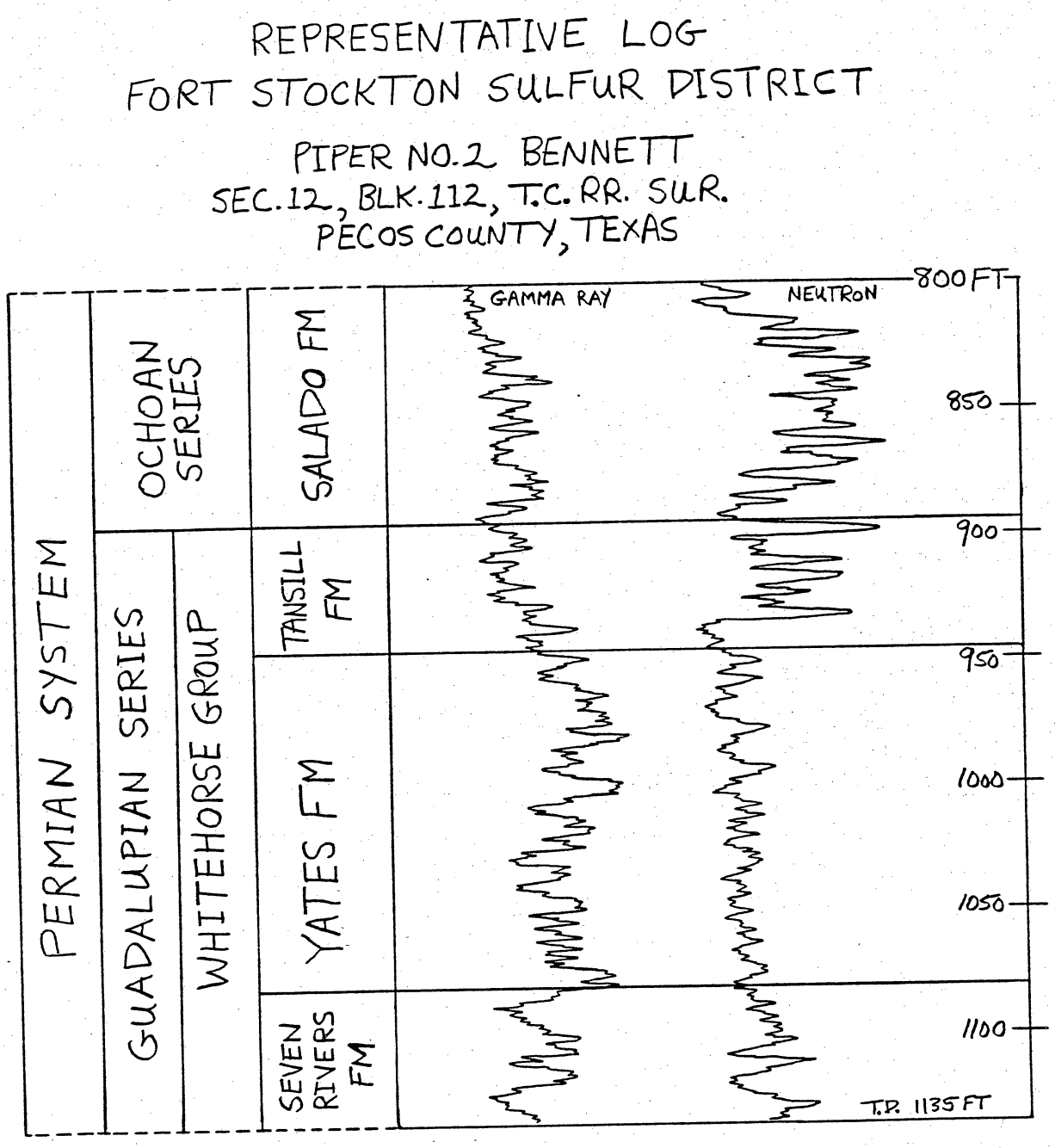


Figure 27. Representative log of the Fort Stockton sulfur district that illustrates the log response of a sandstone-rich Yates Formation characteristic of the northwestern part of the sulfur district. Compare with the dolomite-rich Yates of the southeastern part of the sulfur district (fig. 26).

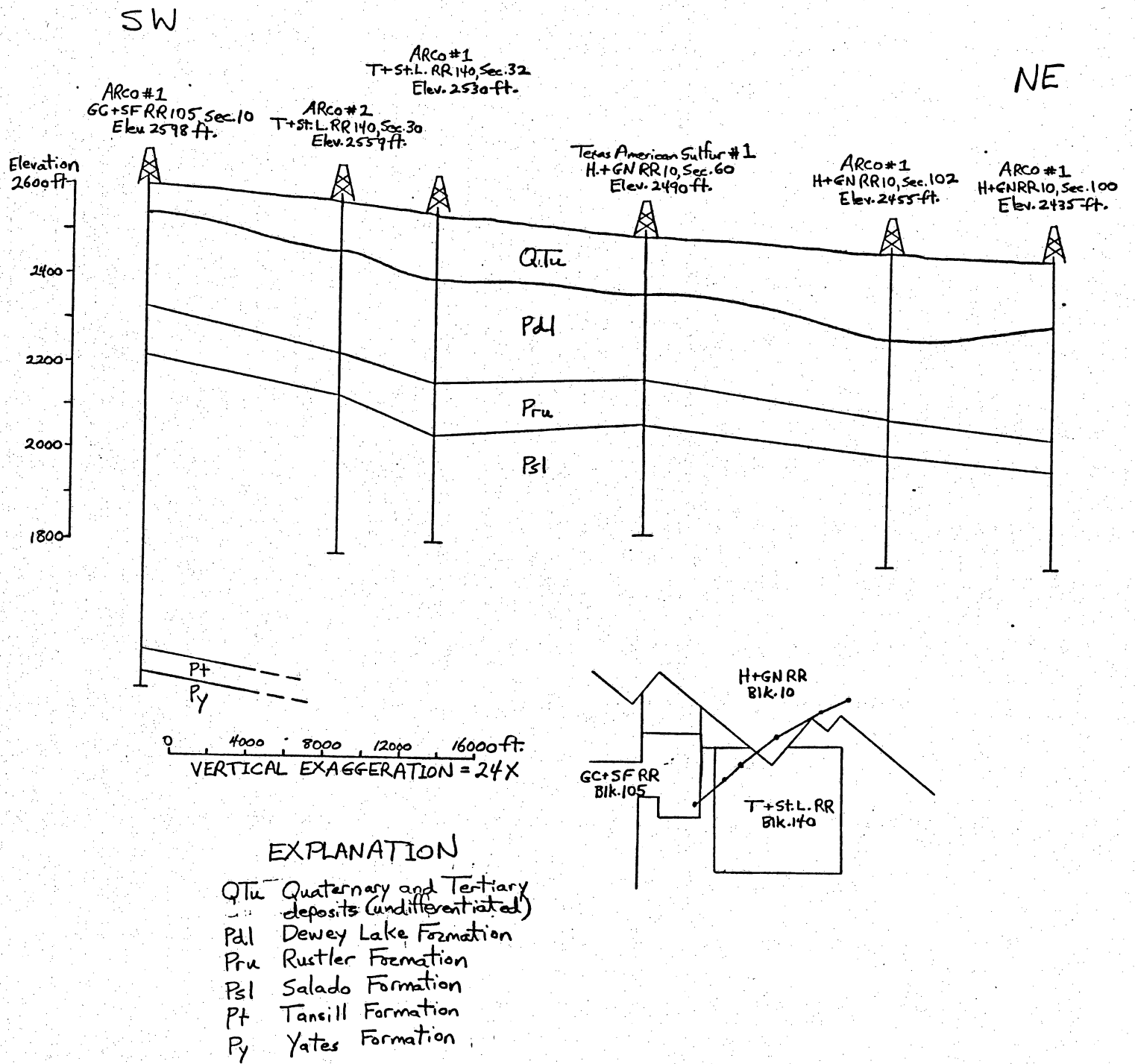


Figure 28. Regional cross section oriented perpendicular to the anticlinal axis in the central part of the Fort Stockton sulfur district (see fig. 5).

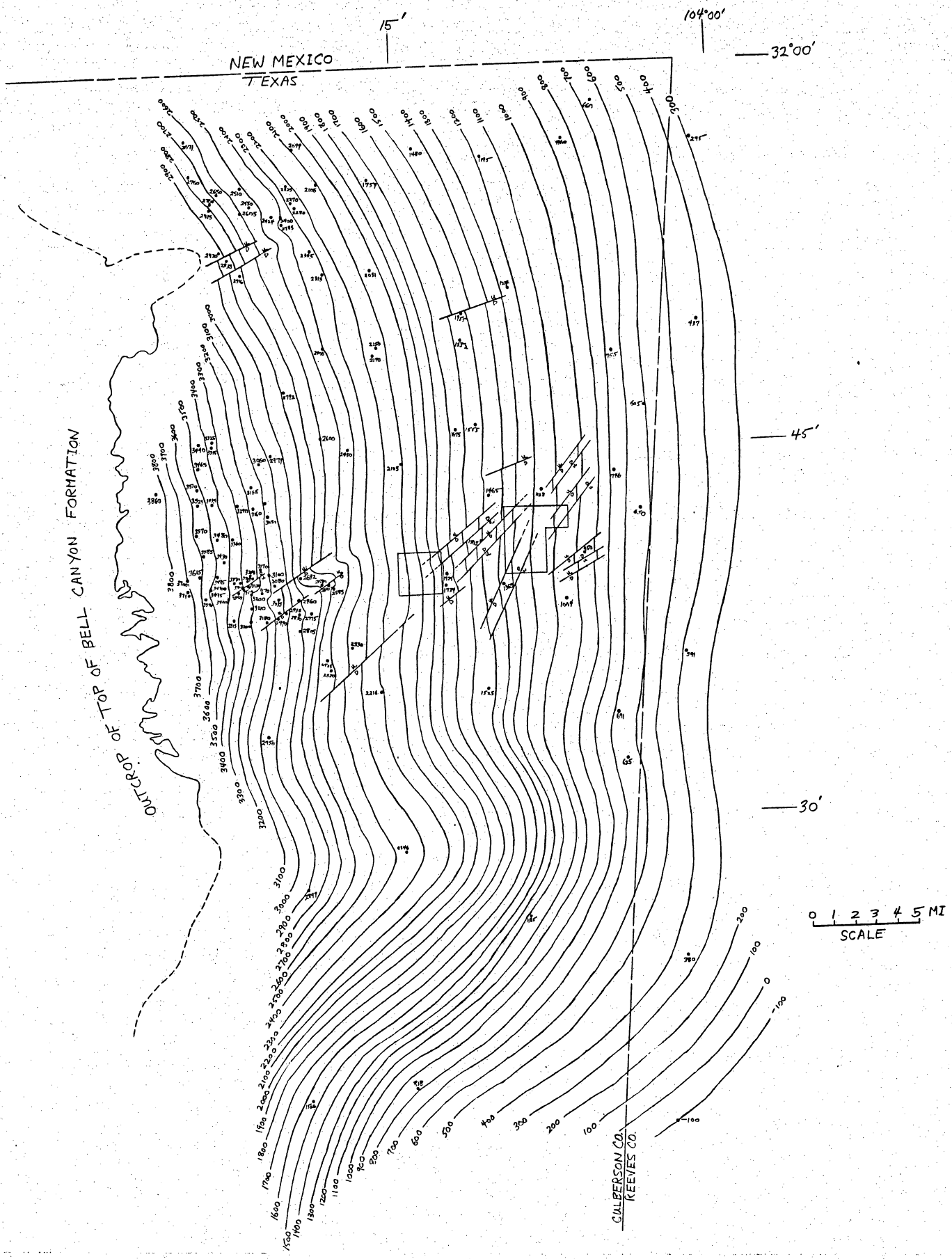


Figure 29. Structure-contour map of the top of the Bell Canyon Formation (top of Lamar Limestone member) in the Rustler Springs sulfur district. Areas outlined on the central part of the map include those sections that compose the Texasgulf Phillips Ranch deposit (west) and the Pennzoil Culberson mine (east). Datum is sea level.

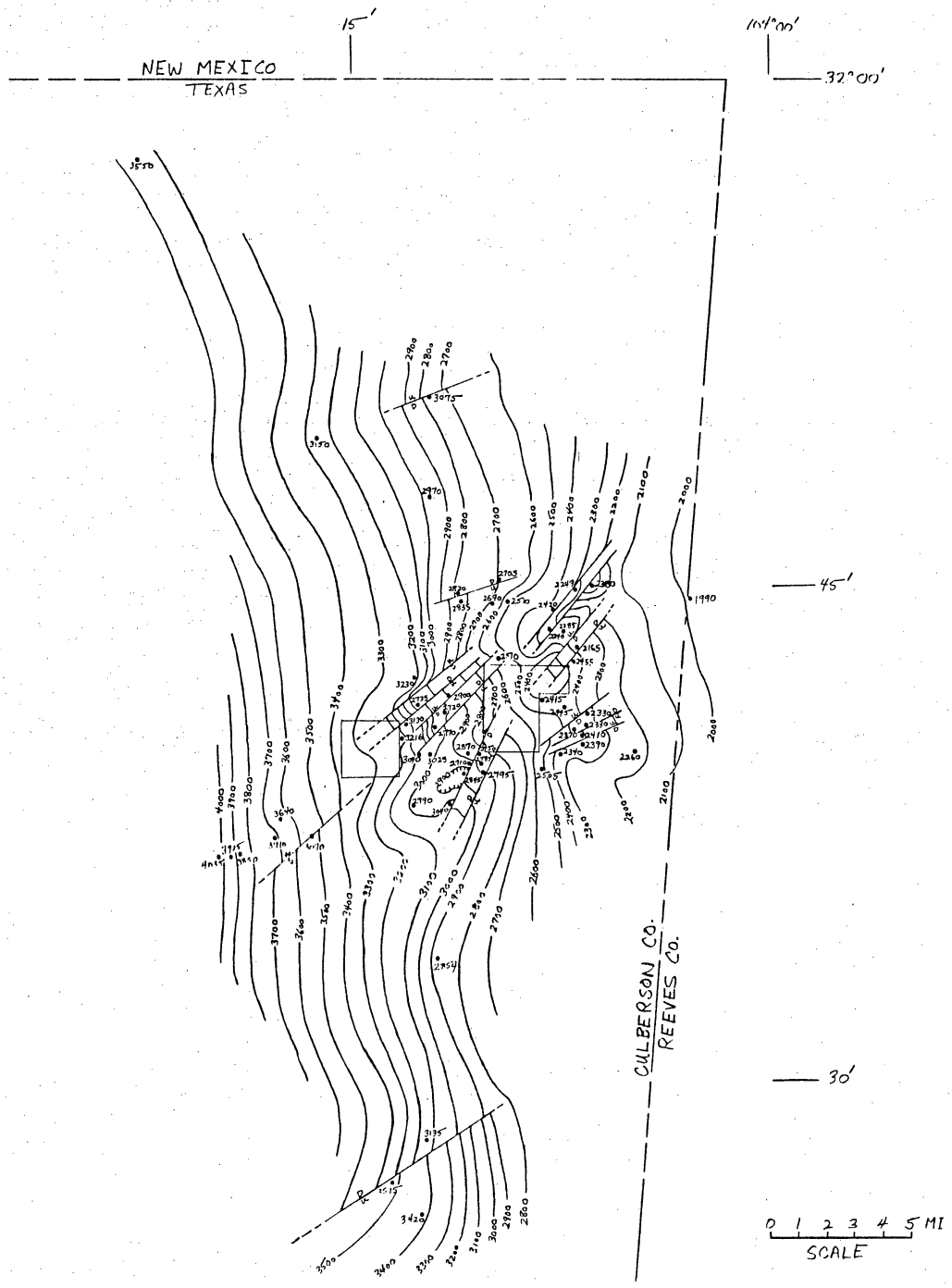


Figure 30. Structure-contour map of the top of the Castile Formation in the Rustler Springs sulfur district. Sections outlined coincide with the Texasgulf Phillips Ranch deposit (west) and the Pennzoil Culberson mine (east). Datum is sea level.

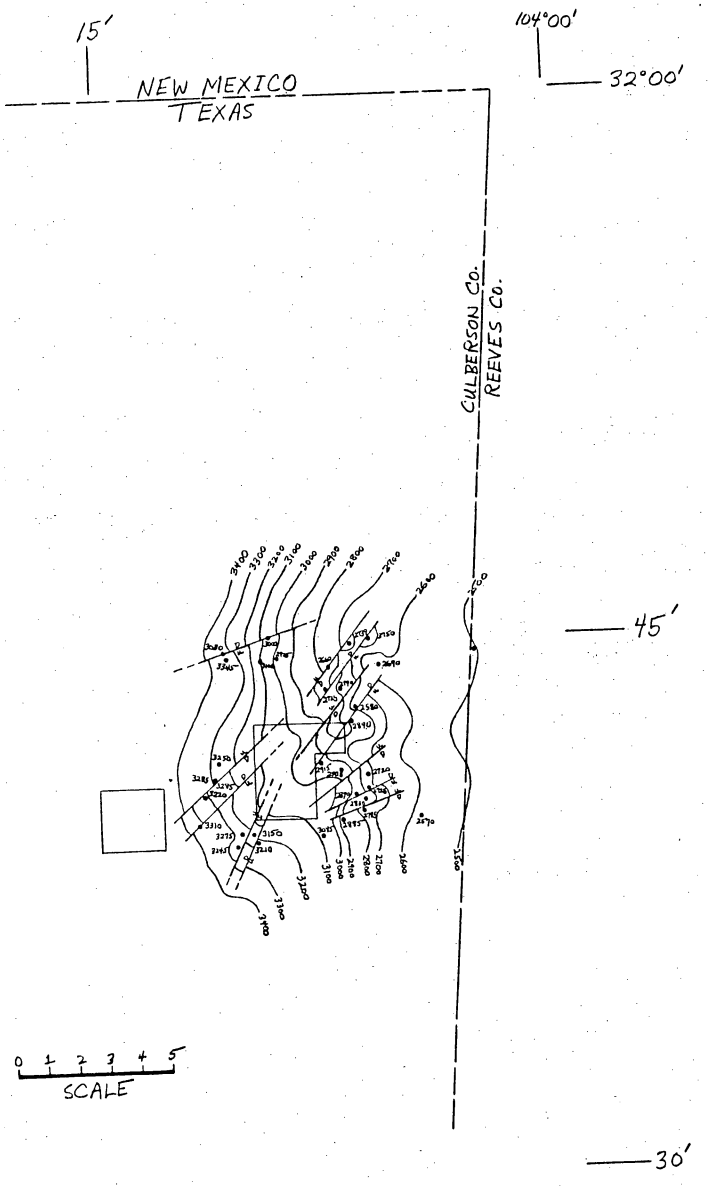


Figure 31. Structure-contour map of the top of the Salado Formation in the Rustler Springs sulfur district. Sections that compose the Texasgulf Phillips ranch deposit (west) and the Pennzoil Culberson mine (east) are outlined. Datum is sea level.

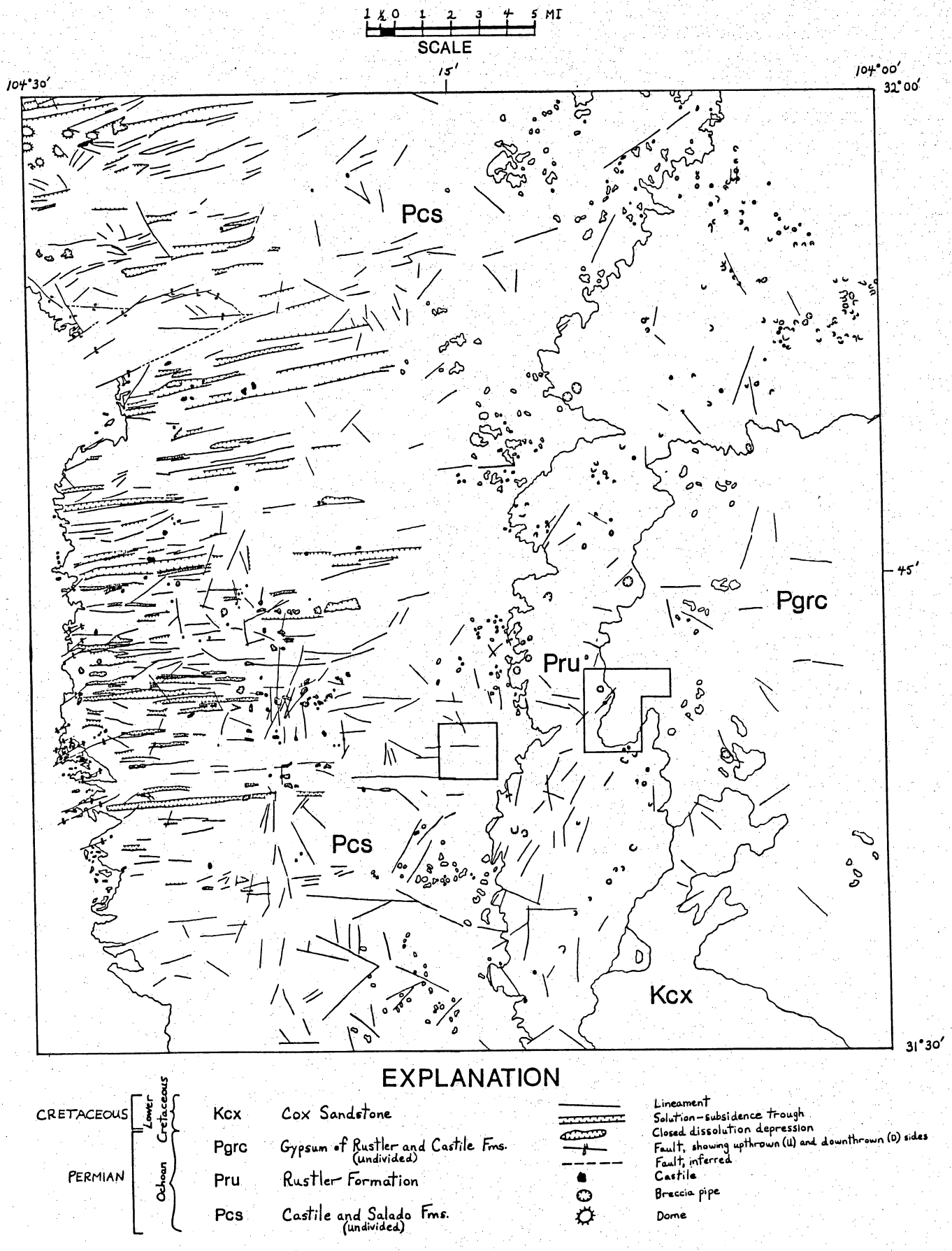


Figure 32. Geologic map of the Rustler Springs sulfur district showing distribution of prominent lineaments, solution-subsidence troughs and depressions, and faults mapped from stereophotographs (scale 1:26,000). Areas outlined are the Texasgulf Phillips Ranch deposit (west) and the Pennzoil Culberson mine (east).

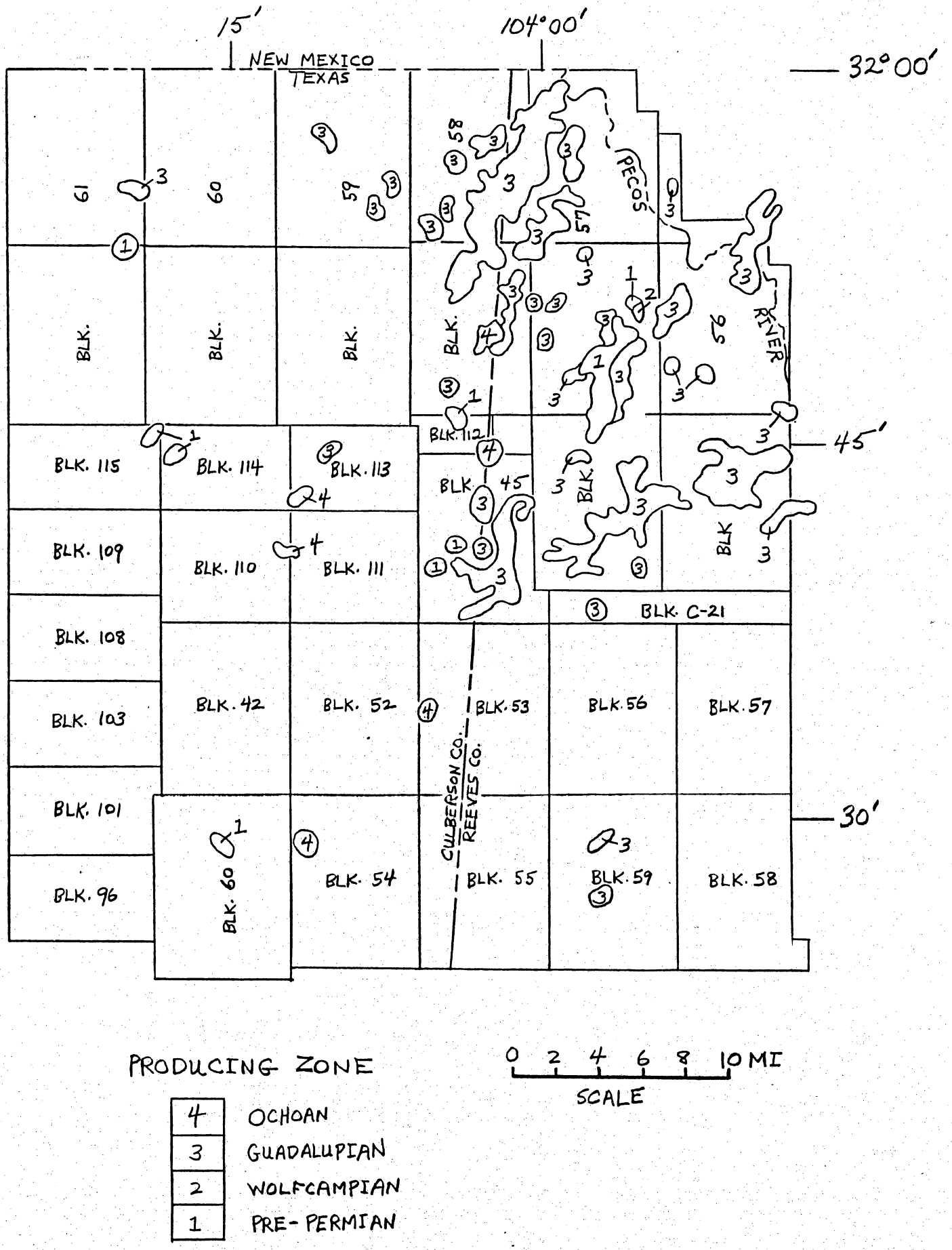


Figure 33. Permian and pre-Permian oil fields of northeastern Culberson and northwestern Reeves Counties (Rustler Springs sulfur district) (modified from Geomap, 1981).

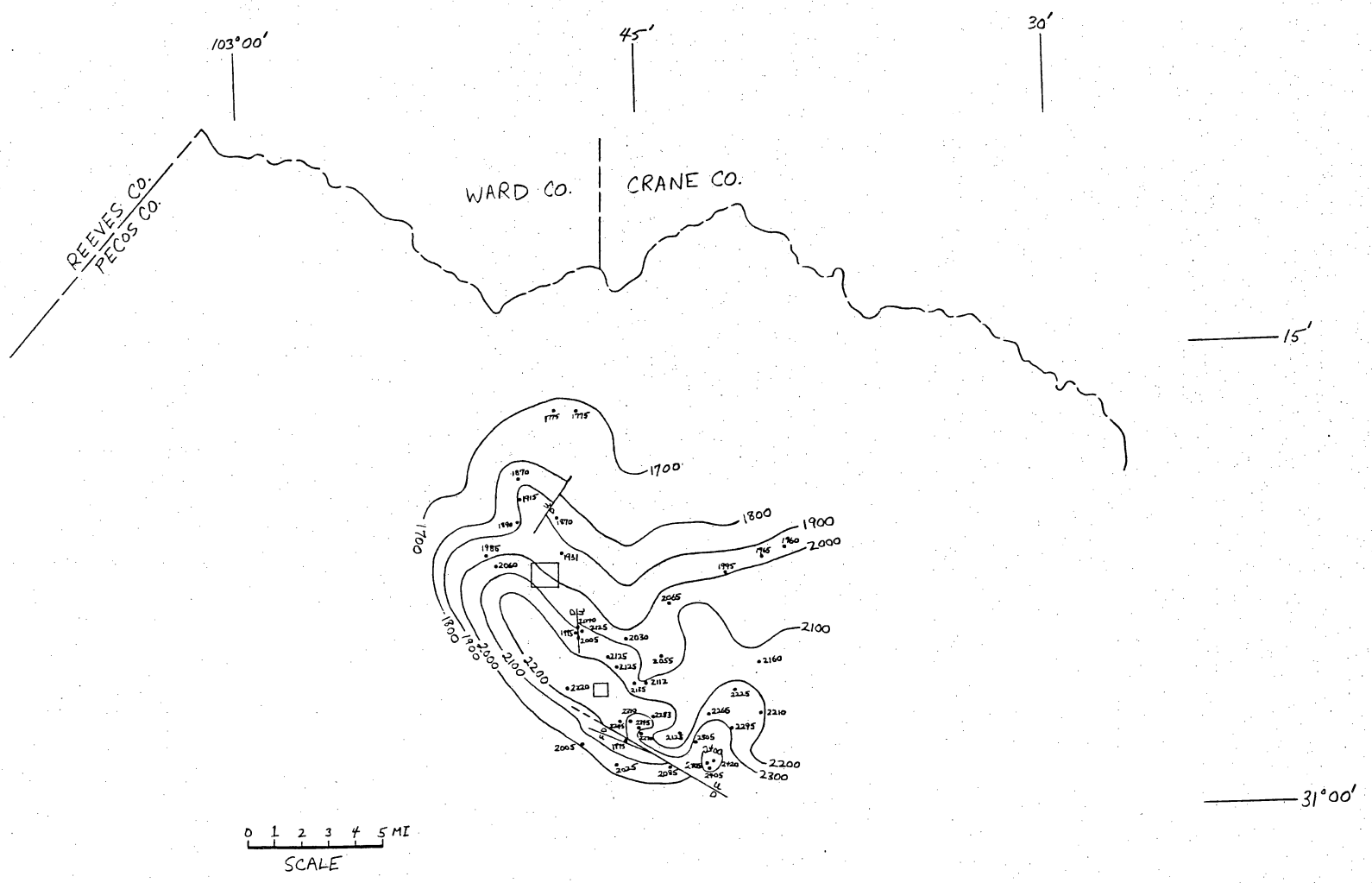


Figure 34. Structure-contour map of the top of the Salado Formation in the Fort Stockton sulfur district. The anticline is the westernmost structure of the Fort Stockton high of the southern part of the Central Basin Platform (CBP). The southwestern edge of the anticline marks the approximate boundary between the CBP and the Delaware Basin. Areas outlined are the locations of the ARCO Fort Stockton mine (southeast) and the Pennzoil Heiner mine (northwest). Datum is sea level.

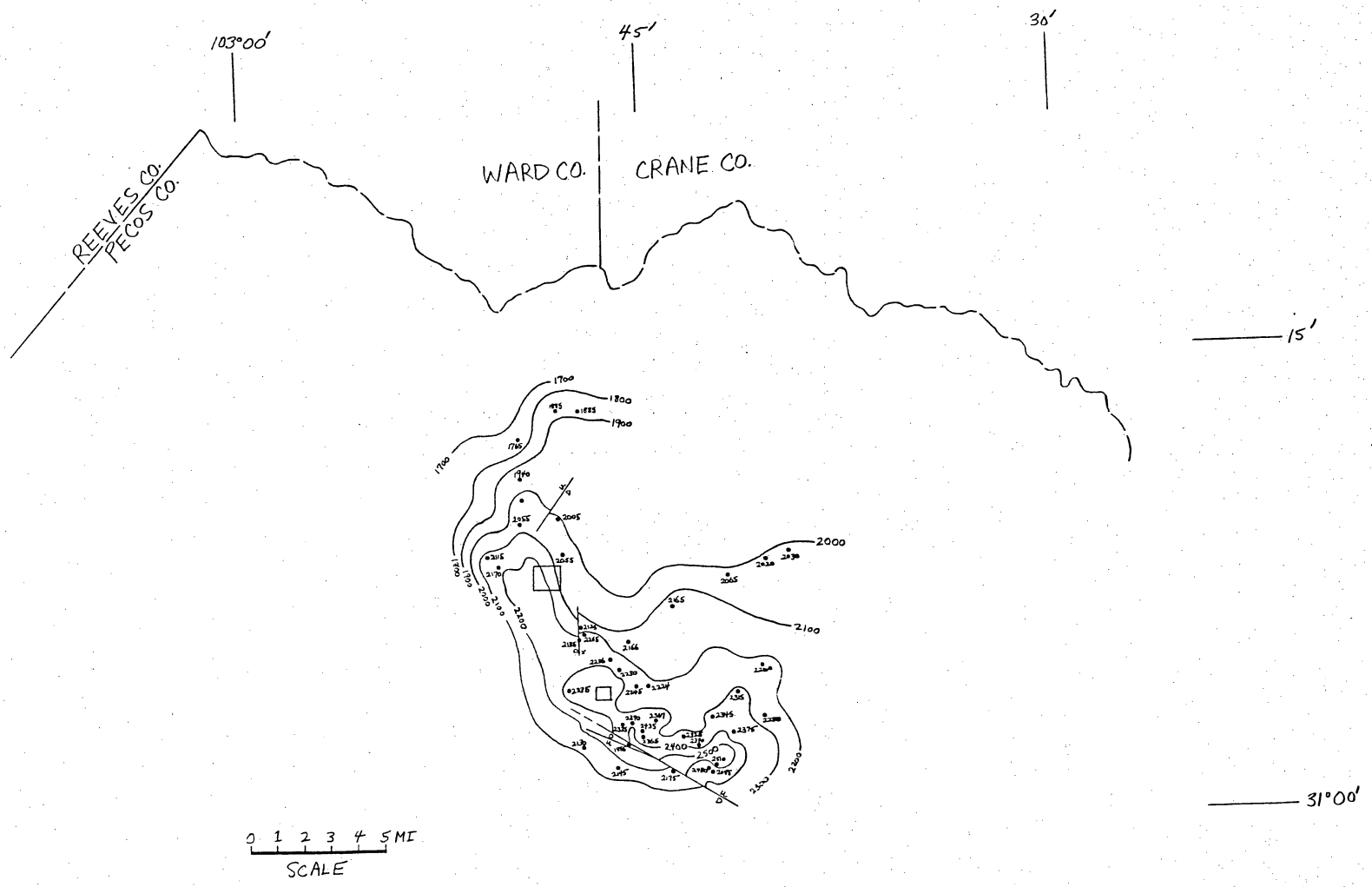


Figure 35. Structure-contour map of the top of the Rustler Formation in the Fort Stockton sulfur district. The regional structure is the same as that described in figure 34. The ARCO Fort Stockton mine (southeast) and Pennzoil Heiner mine (northwest) are outlined. Datum is sea level.

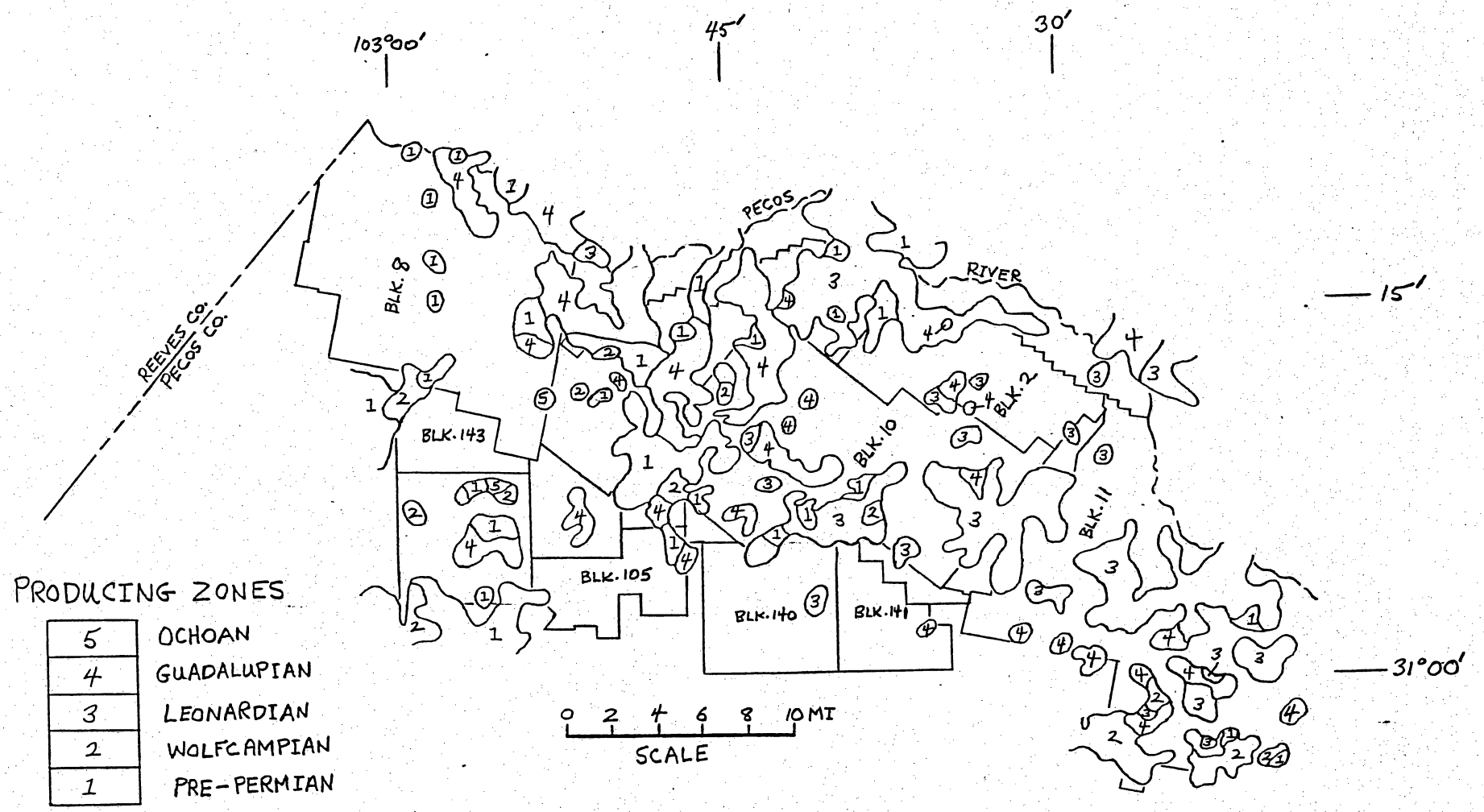


Figure 36. Permian and pre-Permian oil fields of northern Pecos County (Fort Stockton sulfur district) (modified from Geomap, 1981).

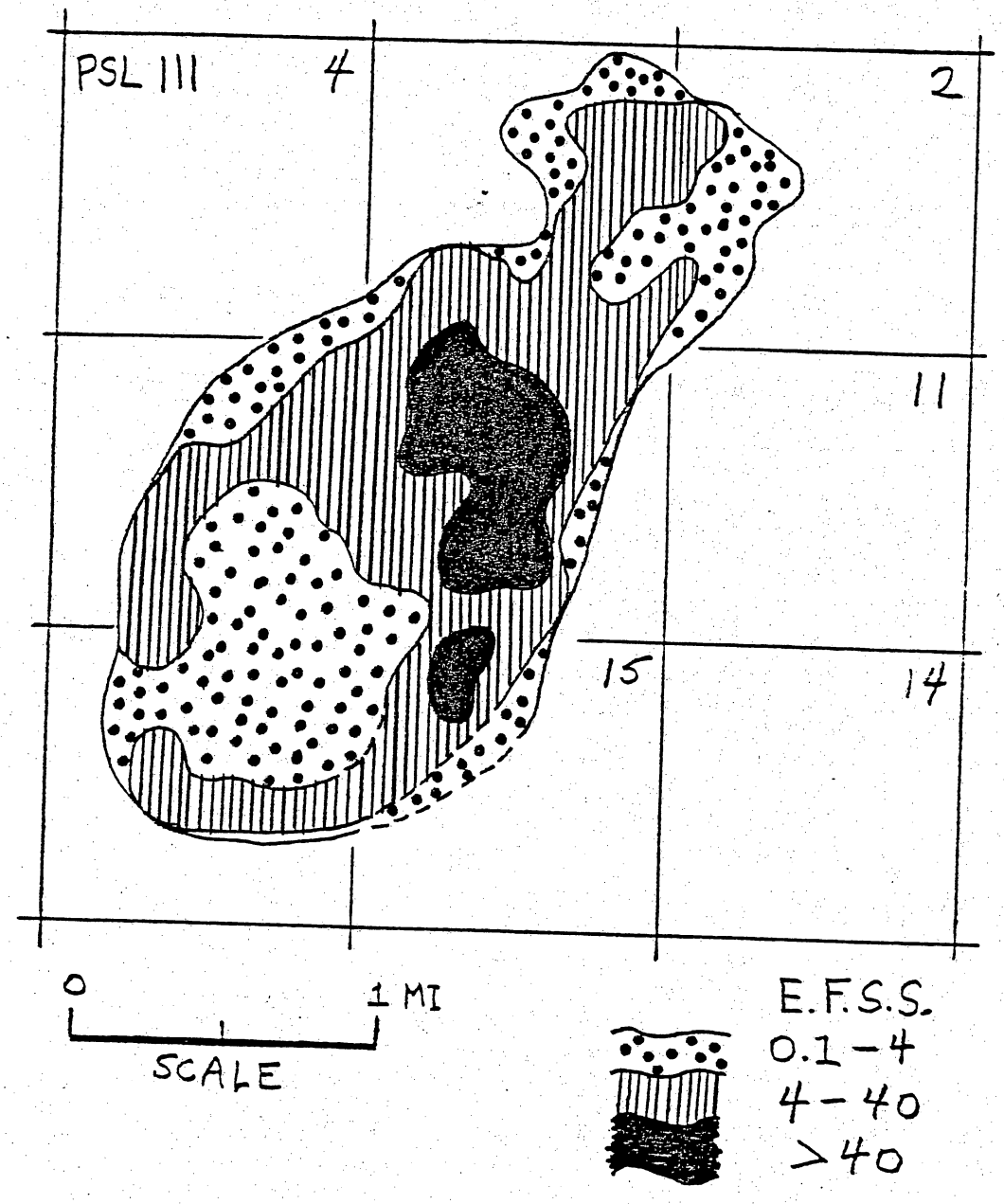


Figure 37. Aerial perspective of sulfur mineralization within the Culberson mine. "Equivalent feet of solid sulfur" (E.F.S.S.) is the standard unit of measurement among sulfur geologists. As an example, a 50-ft section of rock containing 25% sulfur would have 12.5 E.F.S.S. (from Smith, 1978).

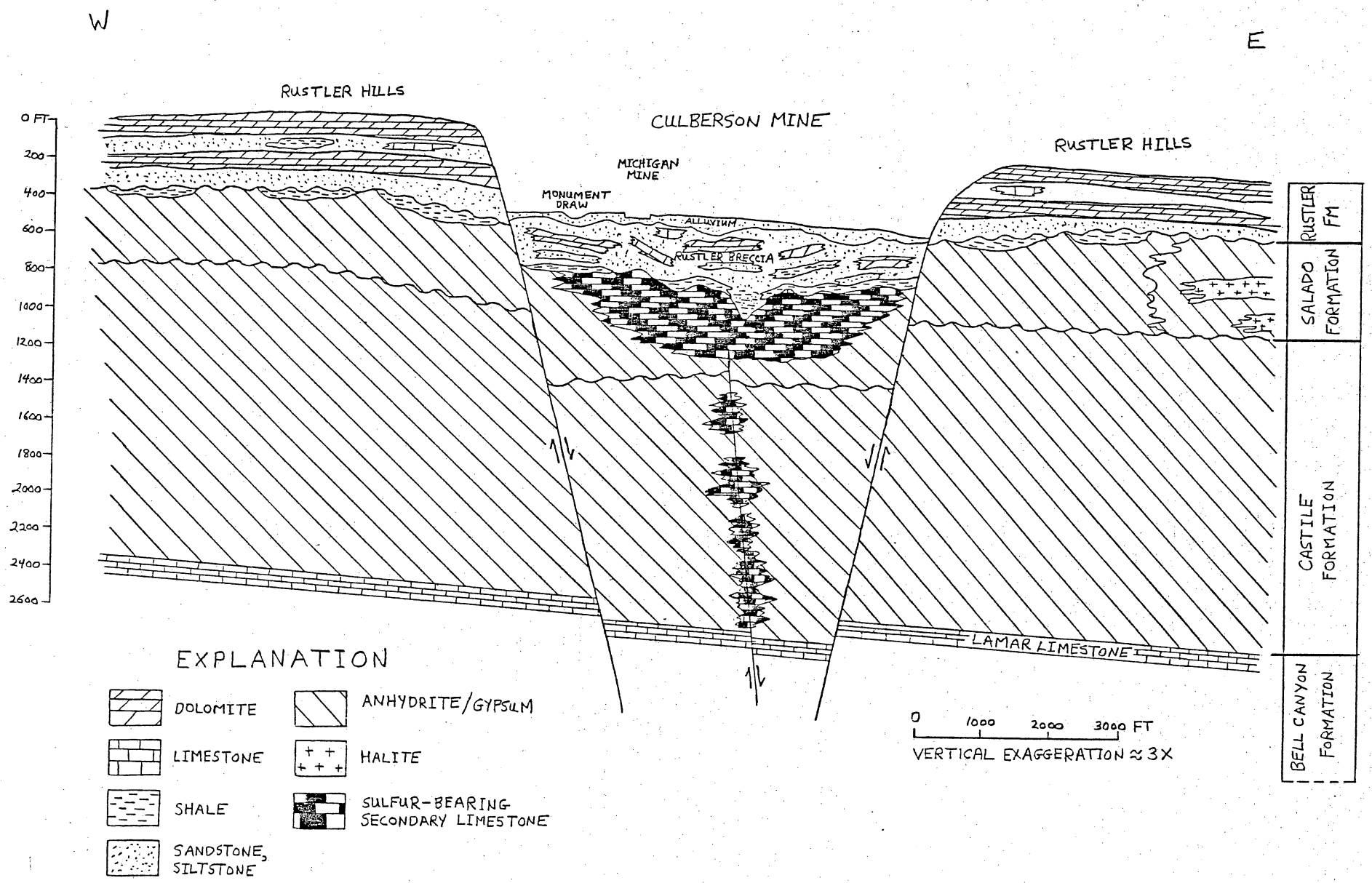


Figure 38. Dip-oriented cross section of Culberson mine (modified from Duval Corporation, 1982).

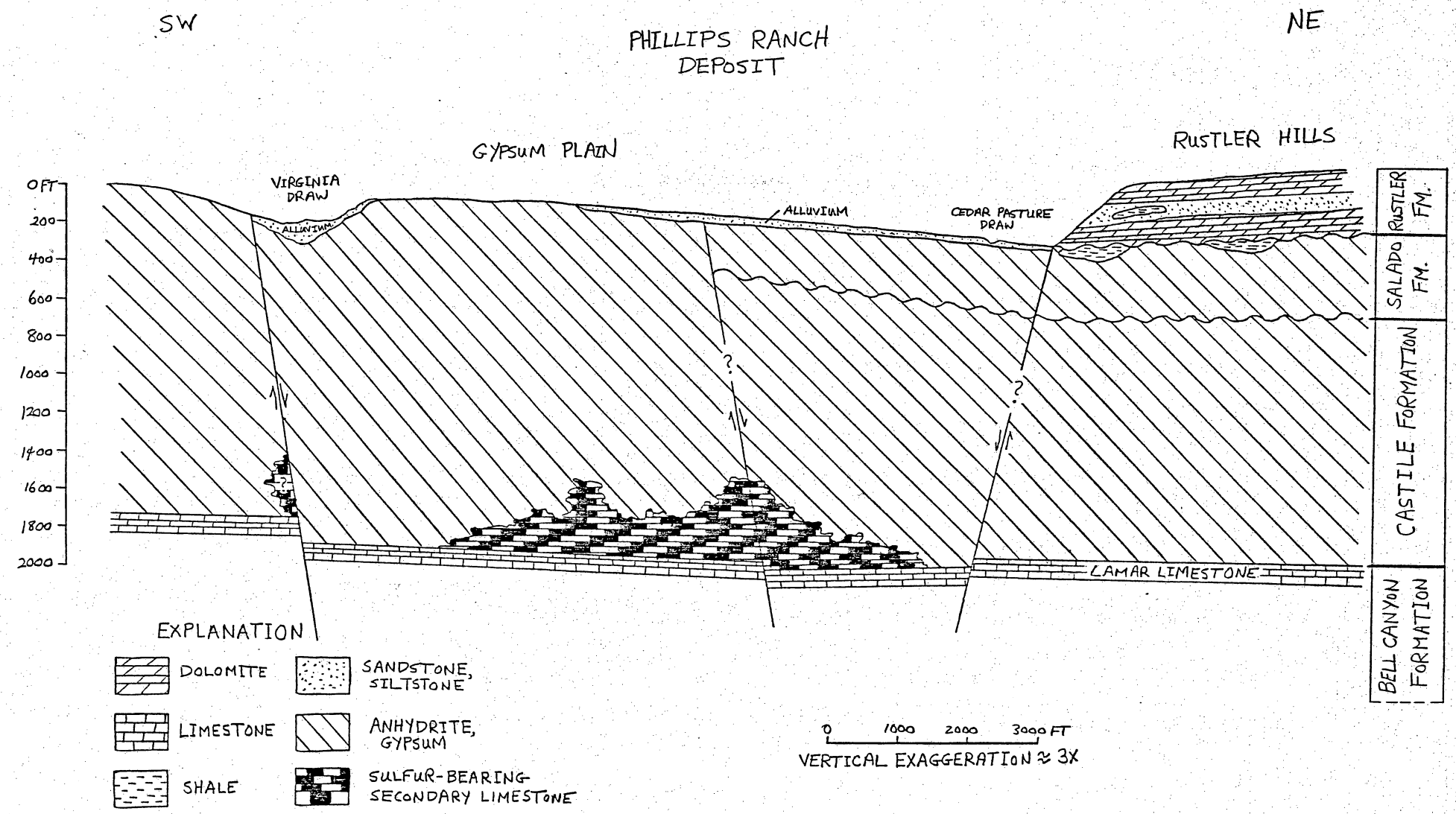


Figure 39. Oblique cross section through sulfur-bearing graben of the Phillips Ranch deposit (modified from Duval Corporation, 1982).

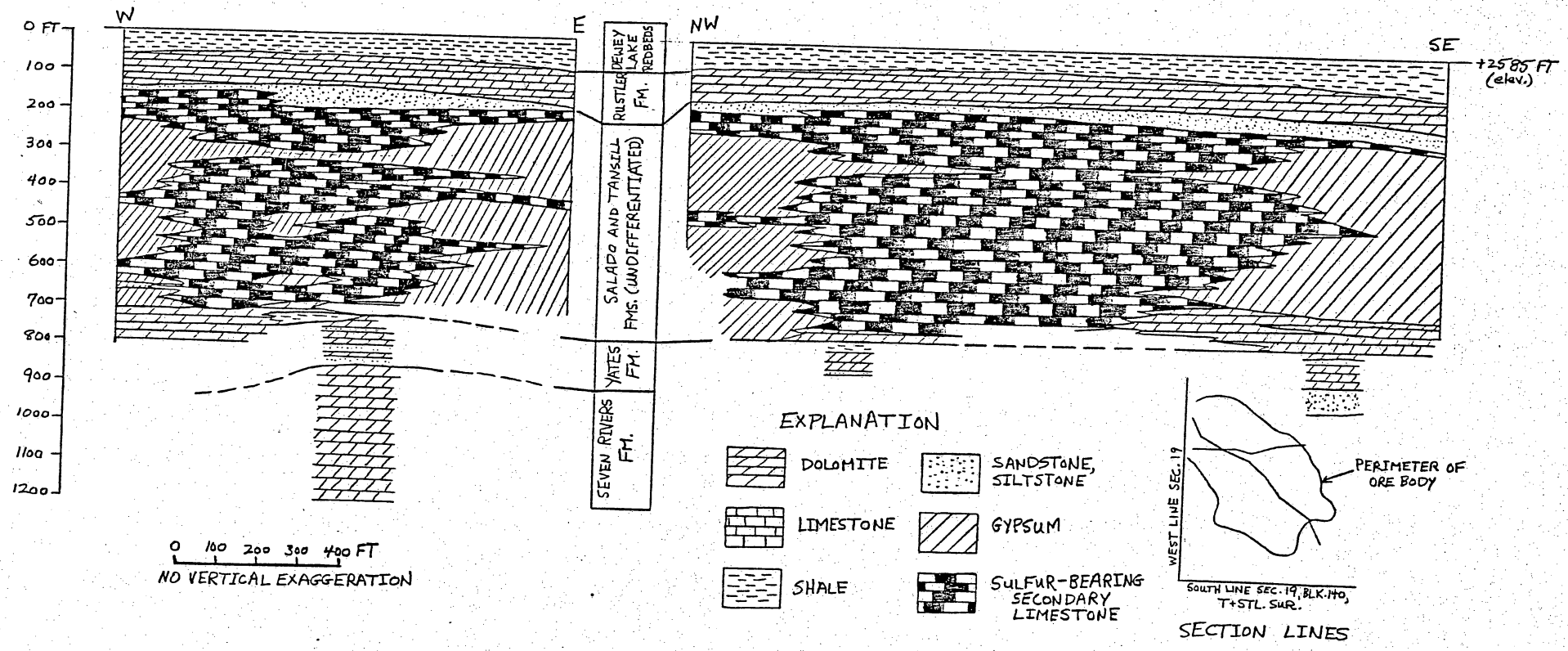


Figure 40. Cross sections of ARCO's Fort Stockton sulfur mine. Sulfur-bearing secondary limestone is situated in a small structural closure on the axis of the major northwest-trending anticline (from McNeal and Hemenway, 1972).

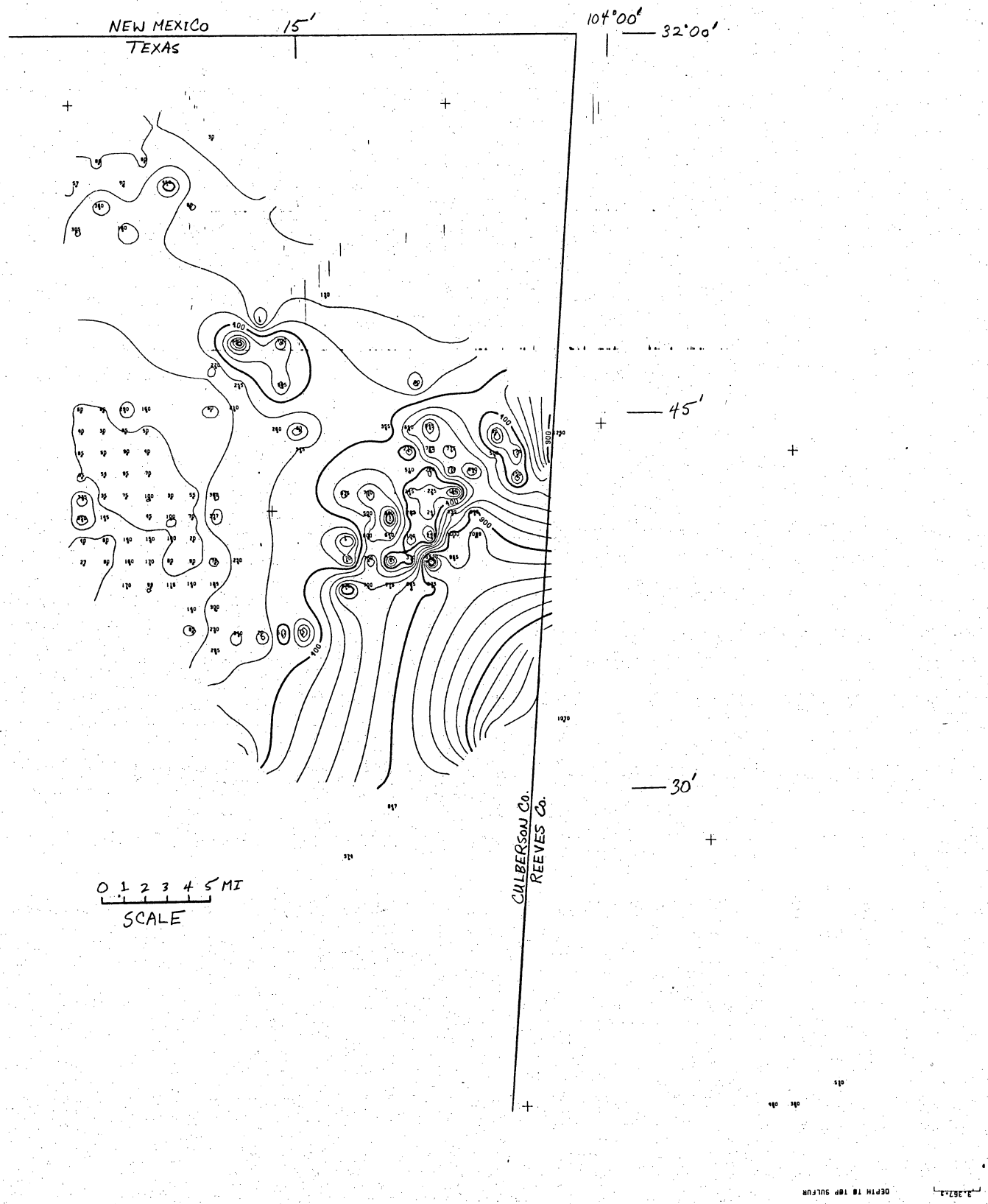


Figure 41. Contour map of the shallowest occurrences of sulfur within each section of the Rustler Springs sulfur district (see table 5).

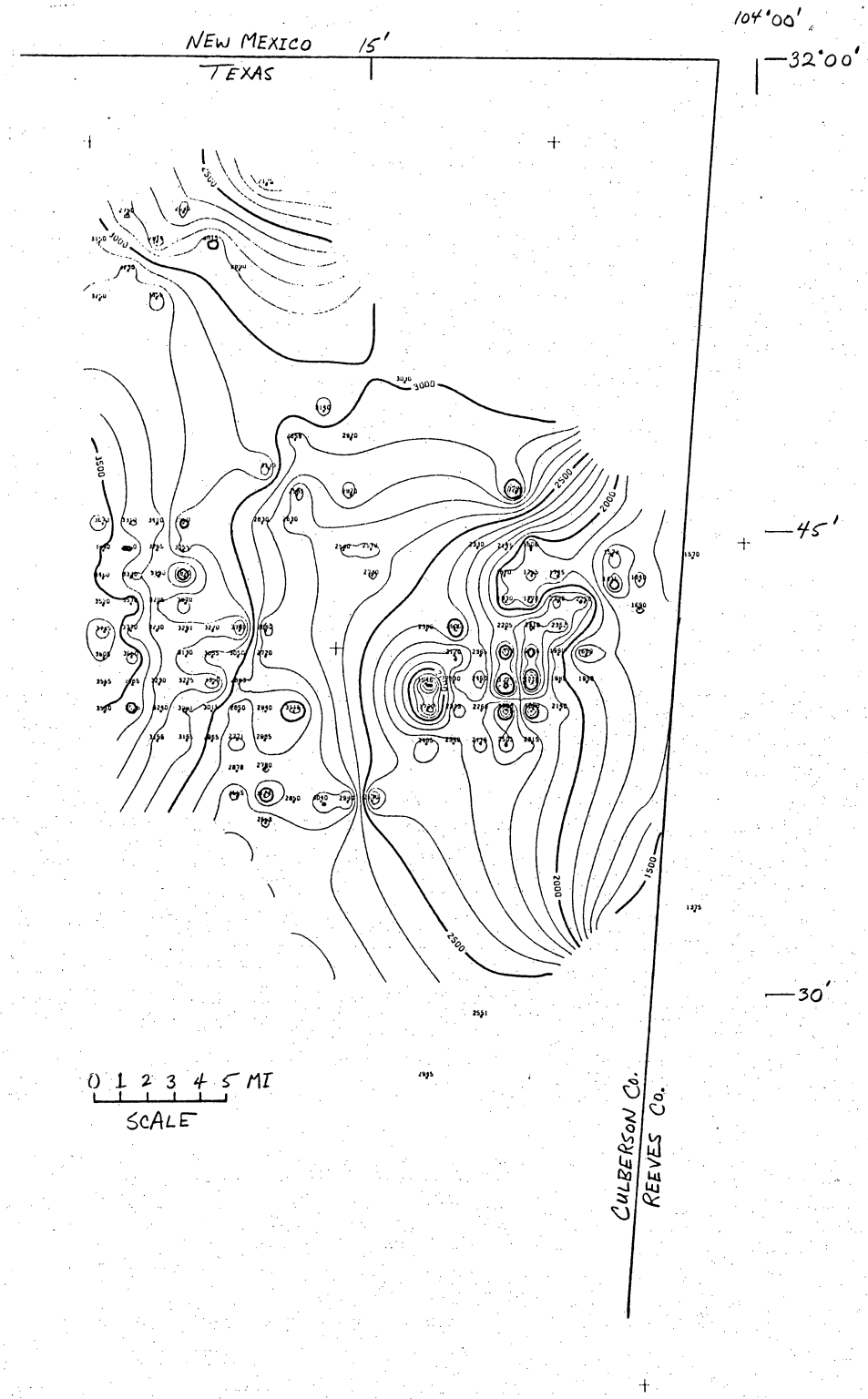


Figure 42. Contour map of the deepest occurrences of sulfur within each section of the Rustler Springs sulfur district (see table 5). Datum is sea level.

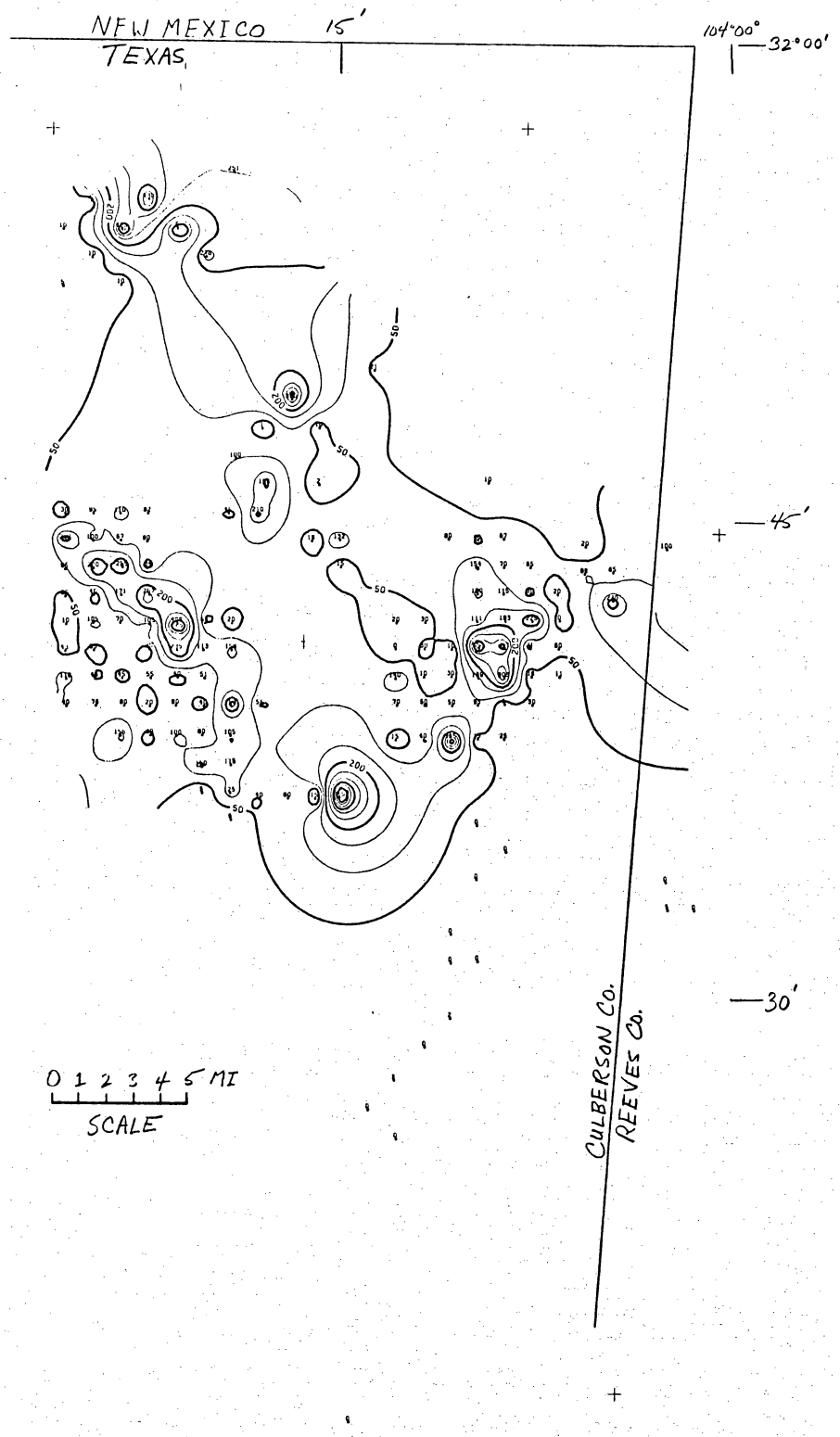


Figure 43. Isopach map of net thickness of sulfur in the Rustler Springs sulfur district. Values represent maximum thickness of sulfur for all boreholes within each section (see table 5).

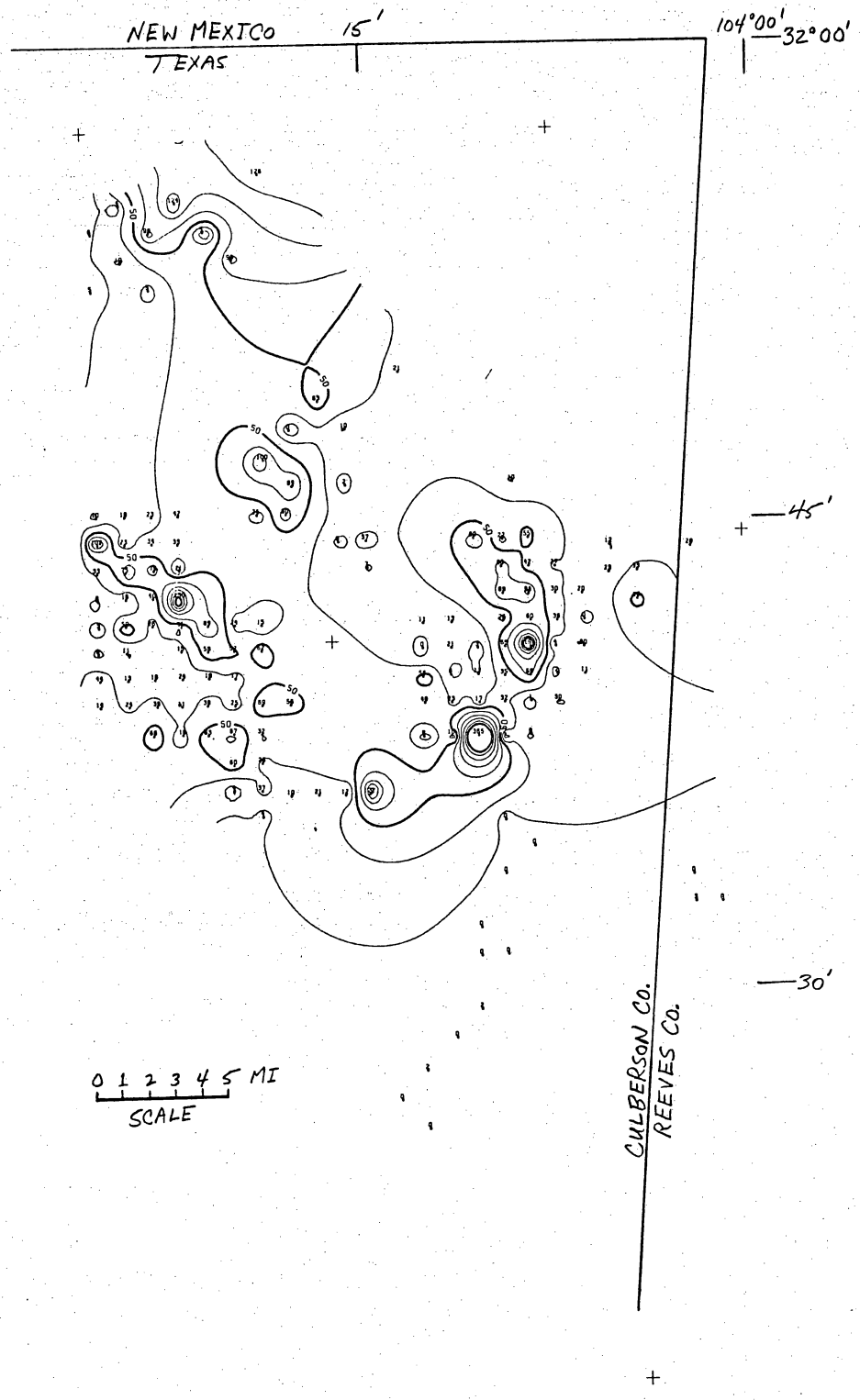


Figure 44. Isopach map of net thickness of sulfur in the Rustler Springs sulfur district. Values represent average thickness of sulfur for all boreholes within each section (see table 5).

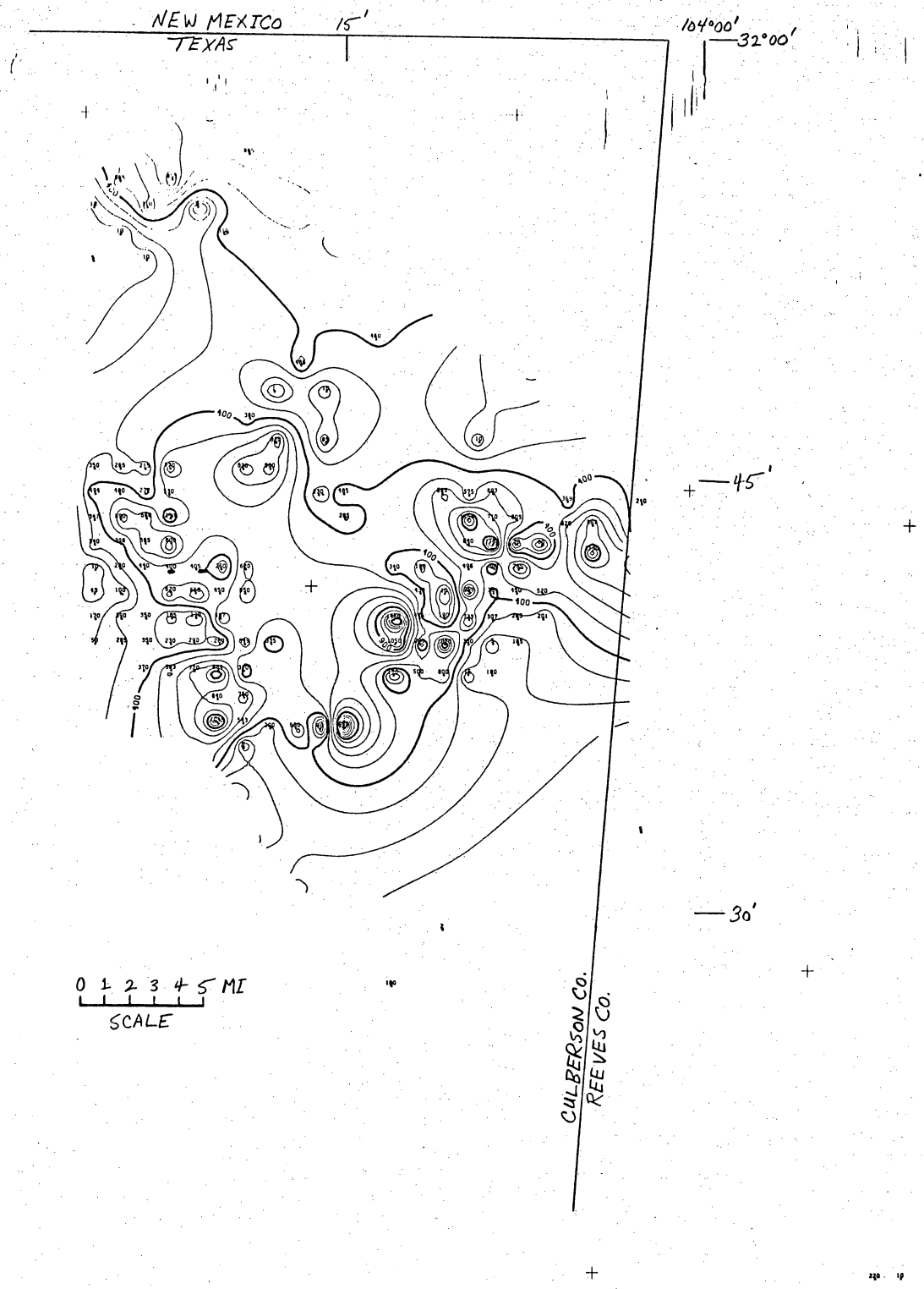


Figure 45. Isopach map of gross thickness of sulfur in the Rustler Springs sulfur district. Values represent maximum thickness of sulfur for all boreholes within each section (see table 5).

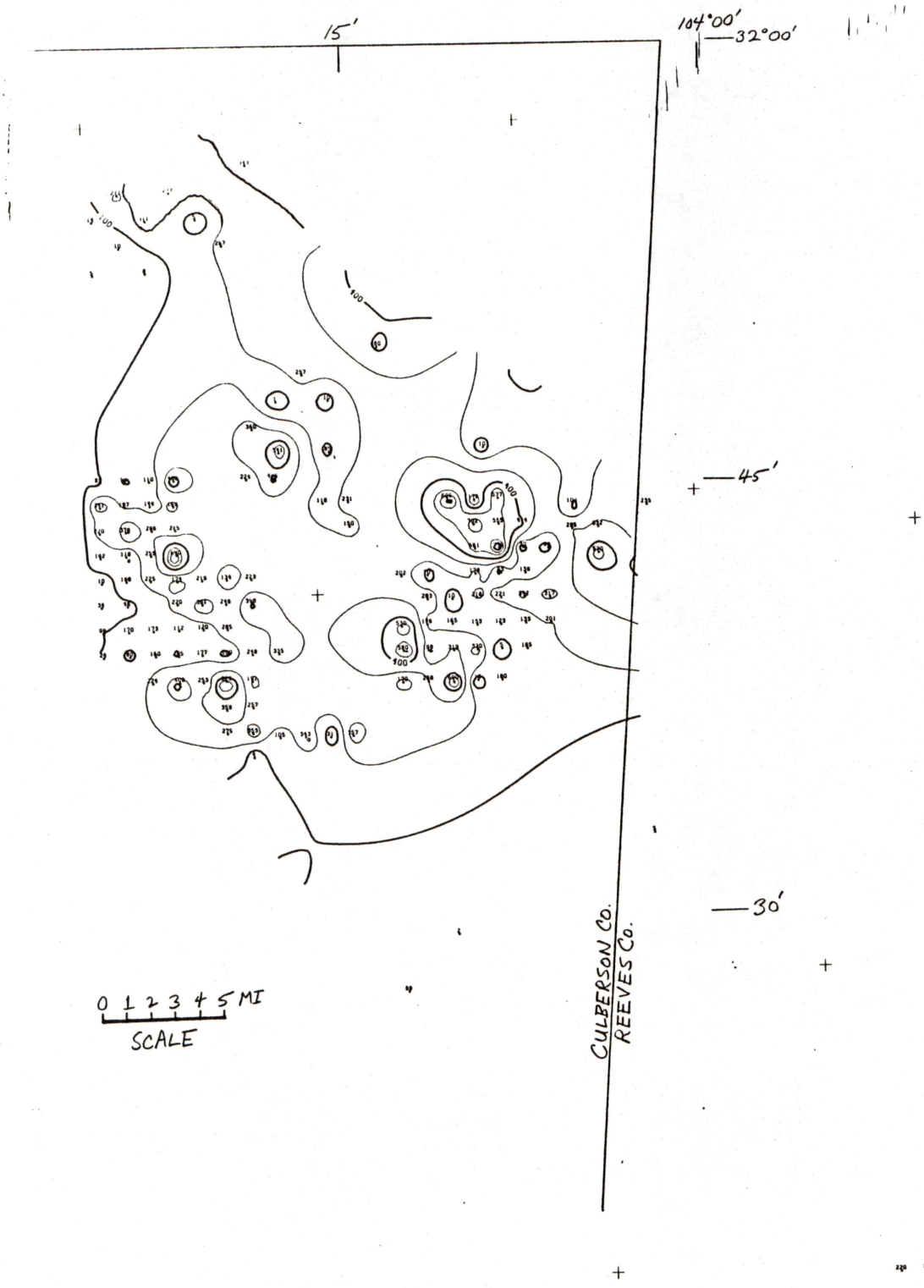


Figure 46. Isopach map of gross thickness of sulfur in the Rustler Springs sulfur district. Values represent average thickness of sulfur for all boreholes within each section (see table 5).

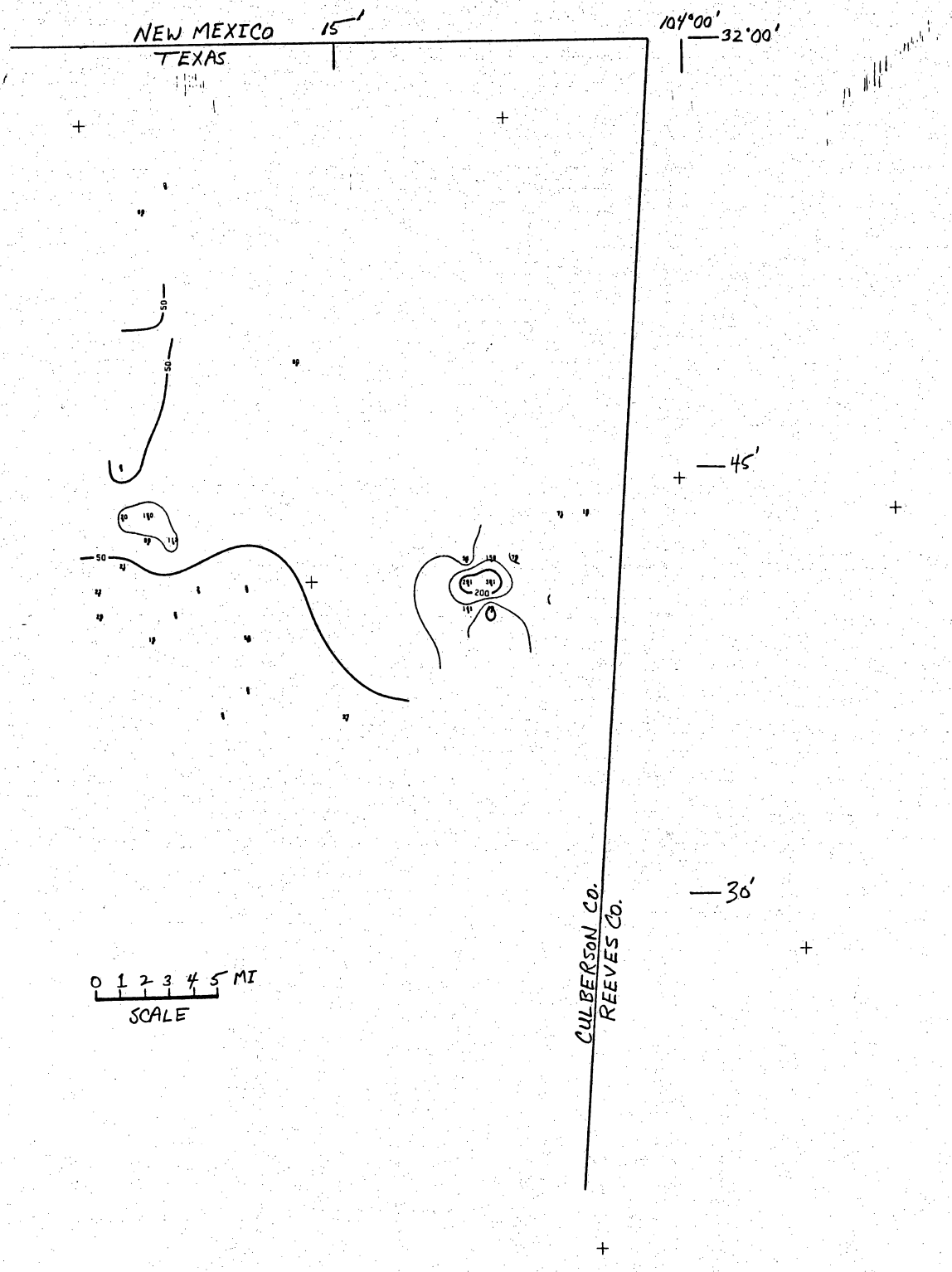


Figure 47. Isopach map of net thickness of ore-grade (>5%) sulfur in the Rustler Springs sulfur district. Values represent maximum thickness of sulfur for all boreholes within each section (see table 5).

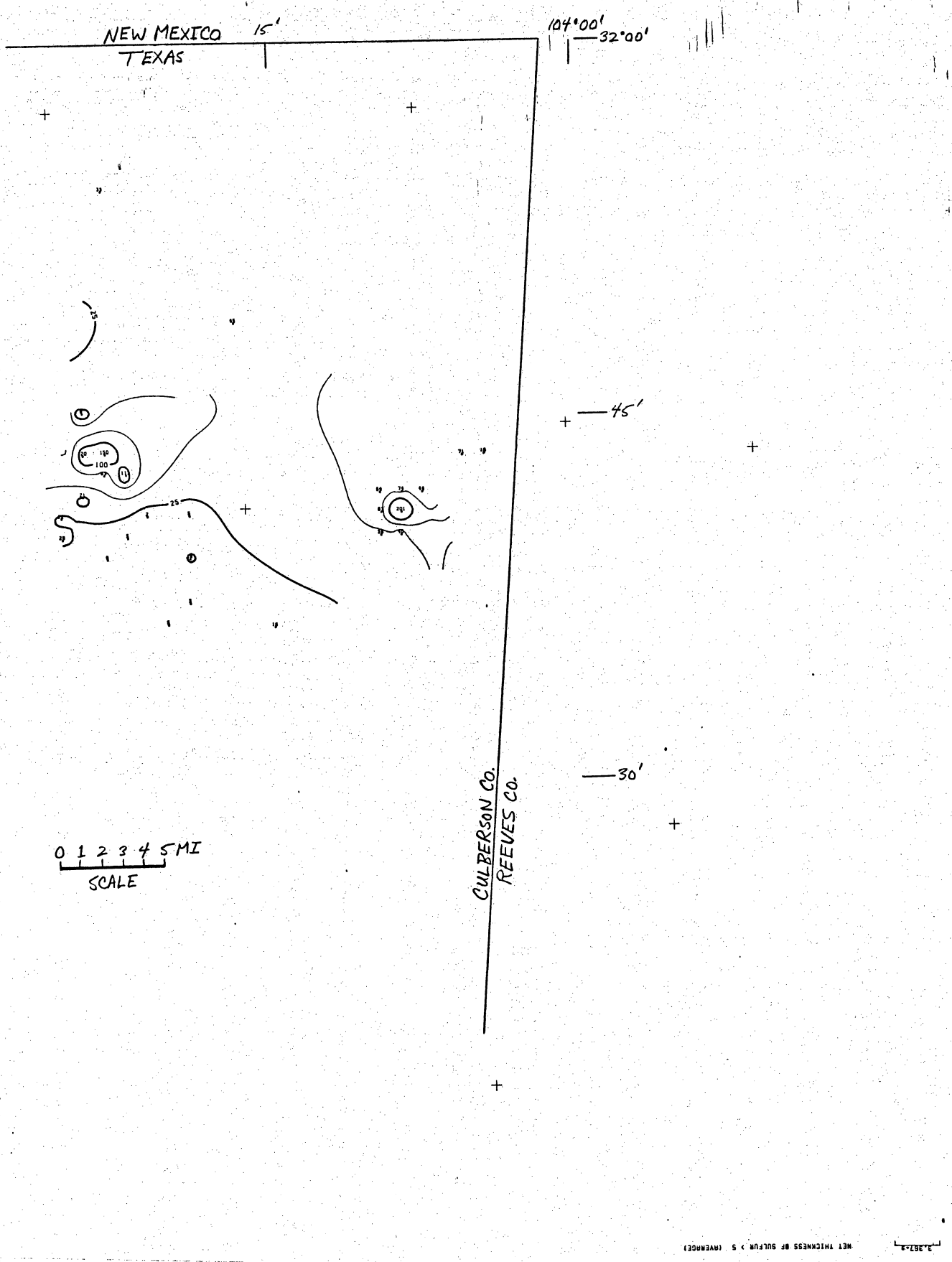


Figure 48. Isopach map of net thickness of ore-grade (>5%) sulfur in the Rustler Springs sulfur district. Values represent average thickness of sulfur for all boreholes within each section (see table 5).

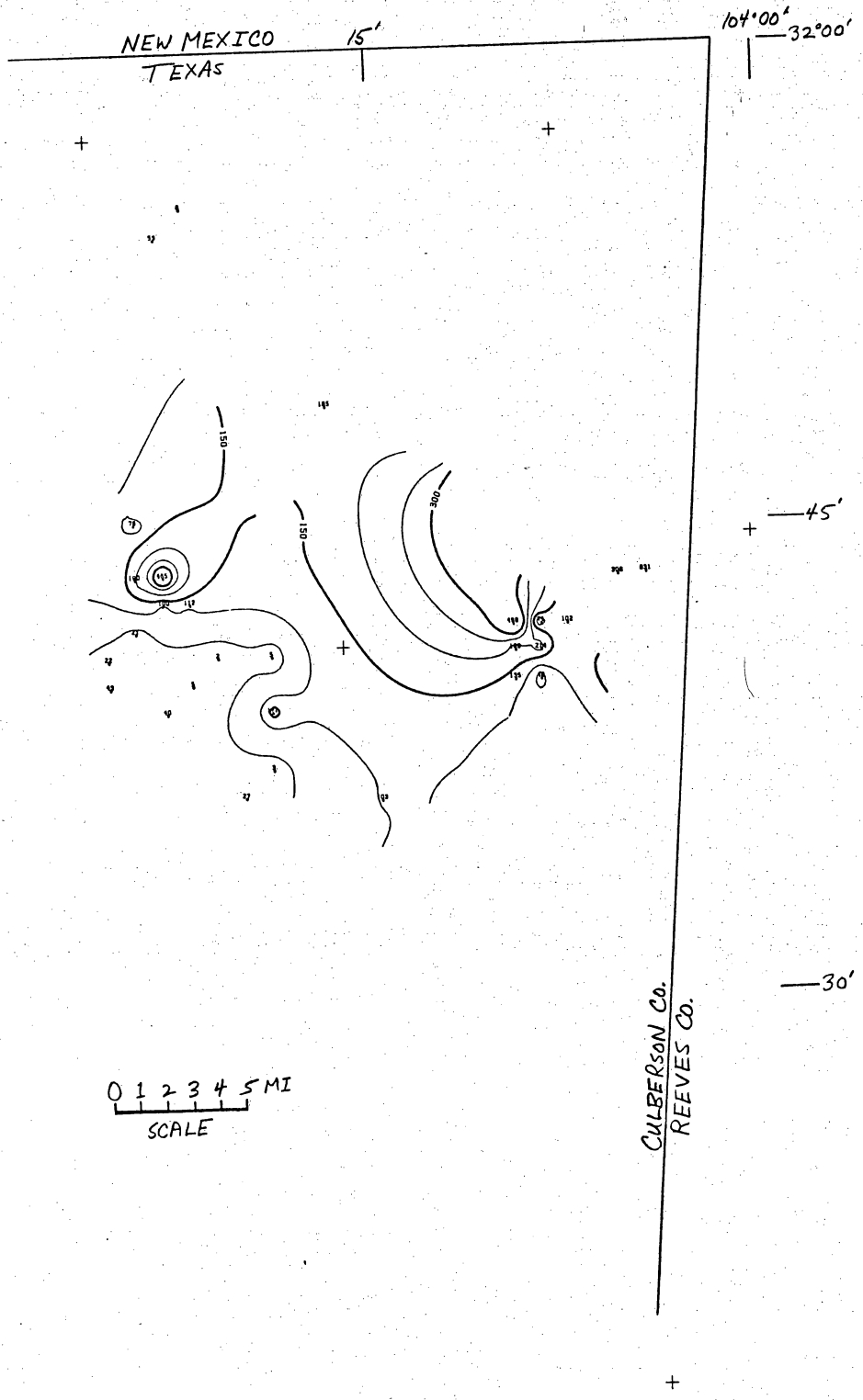


Figure 50. Isopach map of gross thickness of ore-grade (>5%) sulfur in the Rustler Springs sulfur district. Values represent average thickness of sulfur for all boreholes within each section (see table 5).

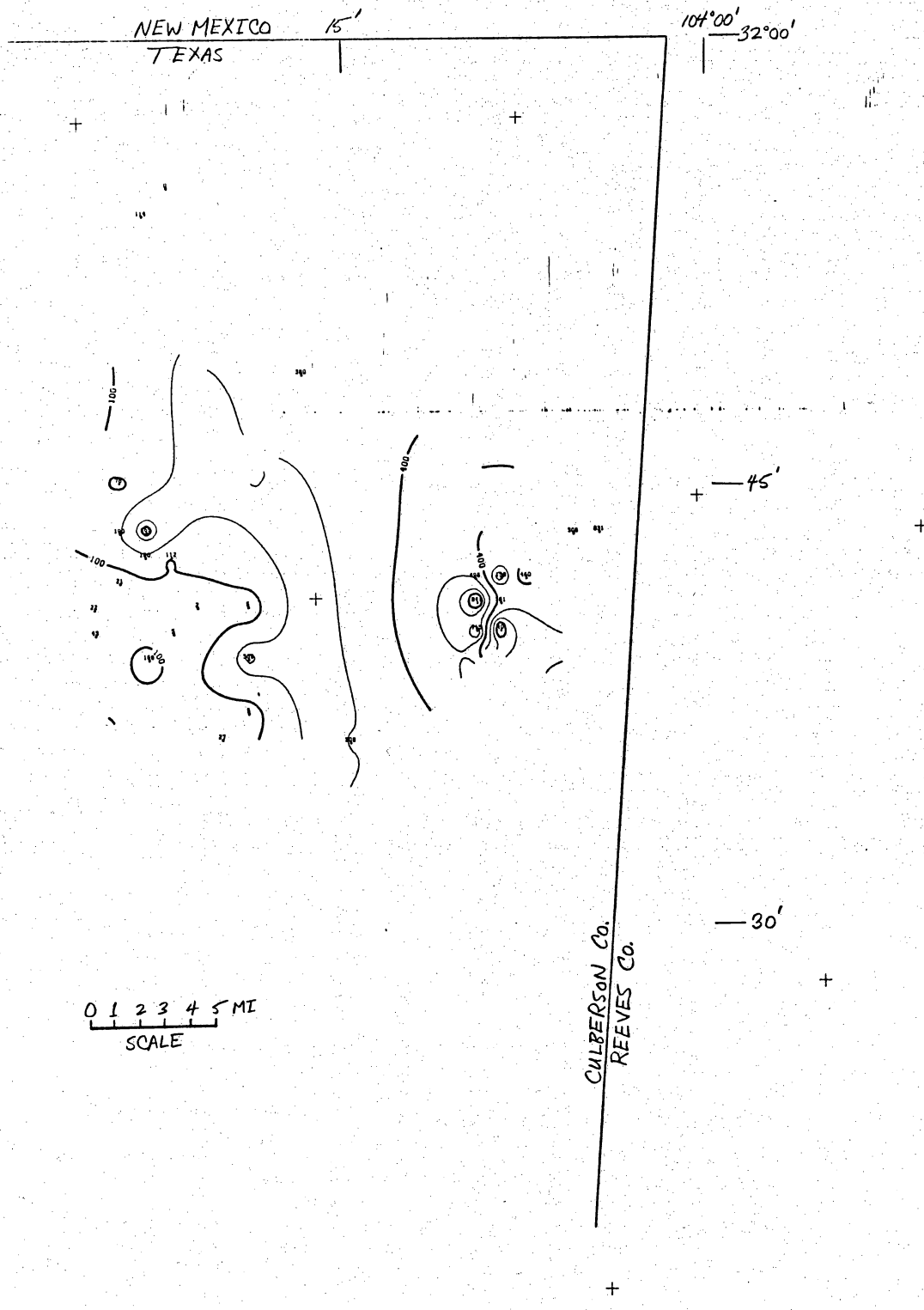


Figure 49. Isopach map of gross thickness of ore-grade (>5%) sulfur in the Rustler Springs sulfur district. Values represent maximum thickness of sulfur for all boreholes within each section (see table 5).

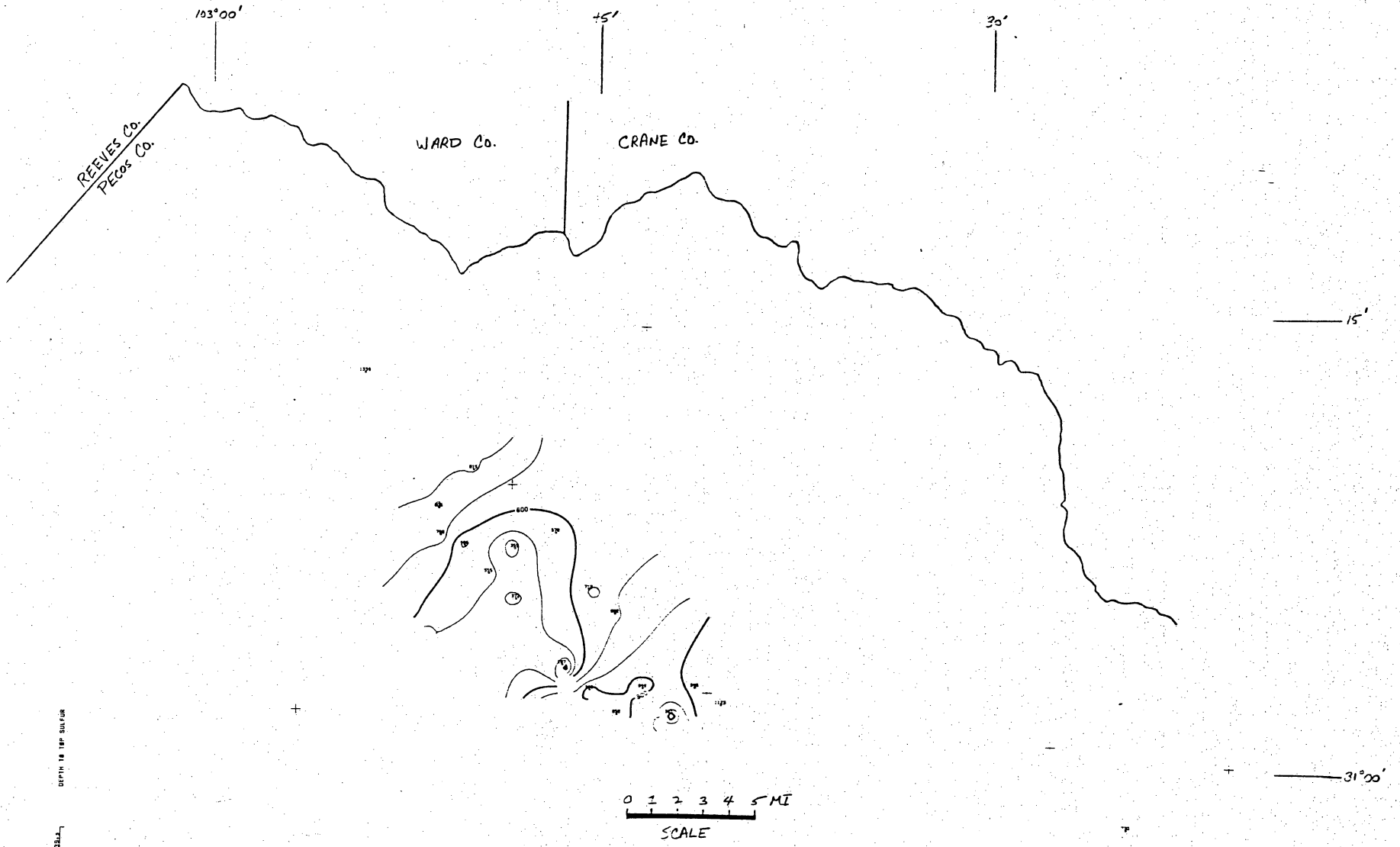


Figure 51. Contour map of shallowest occurrences of sulfur within each section in the Fort Stockton sulfur district (see table 5).

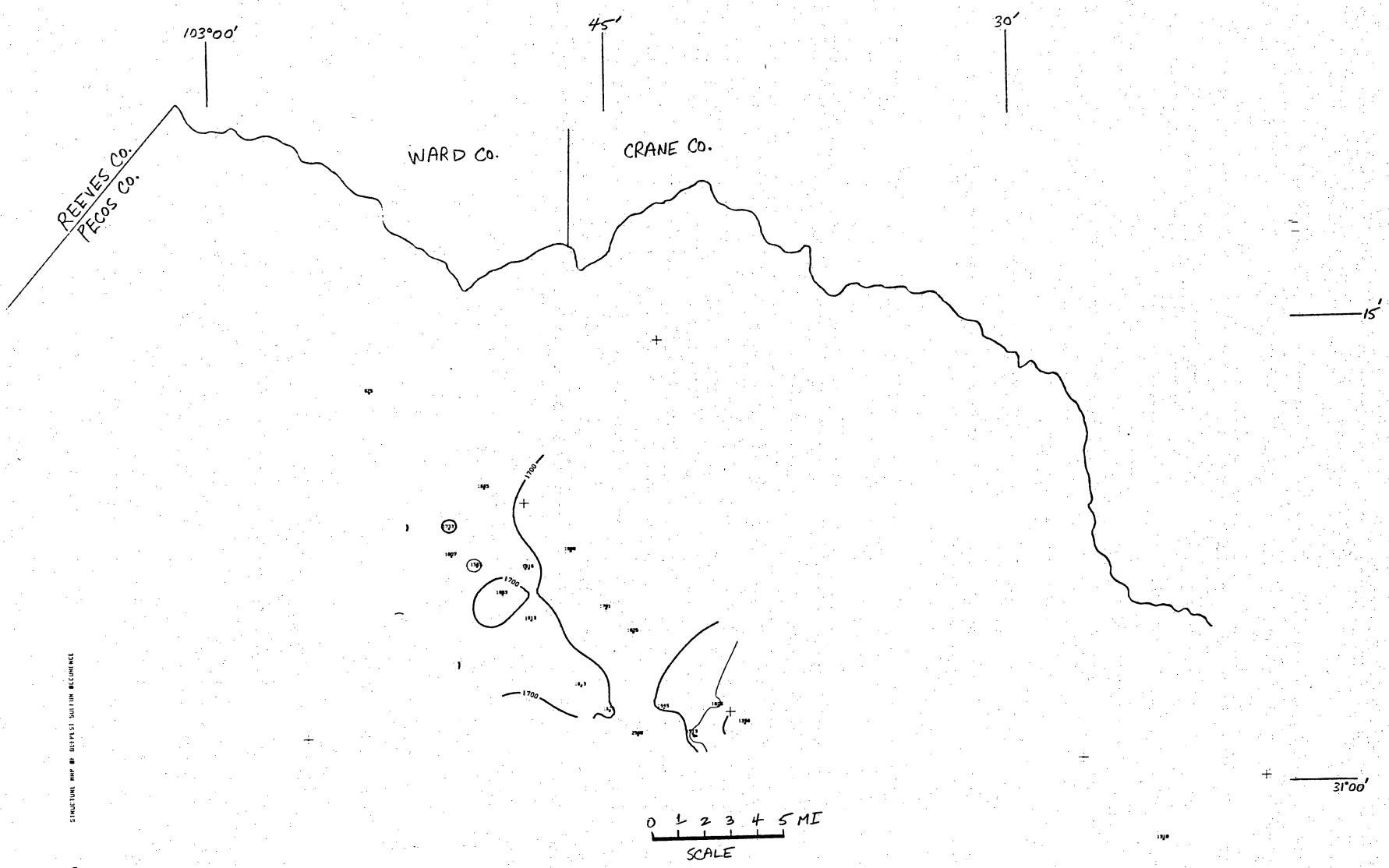


Figure 52. Contour map of deepest occurrences of sulfur within each section in the Fort Stockton sulfur district (see table 5). Datum is sea level.

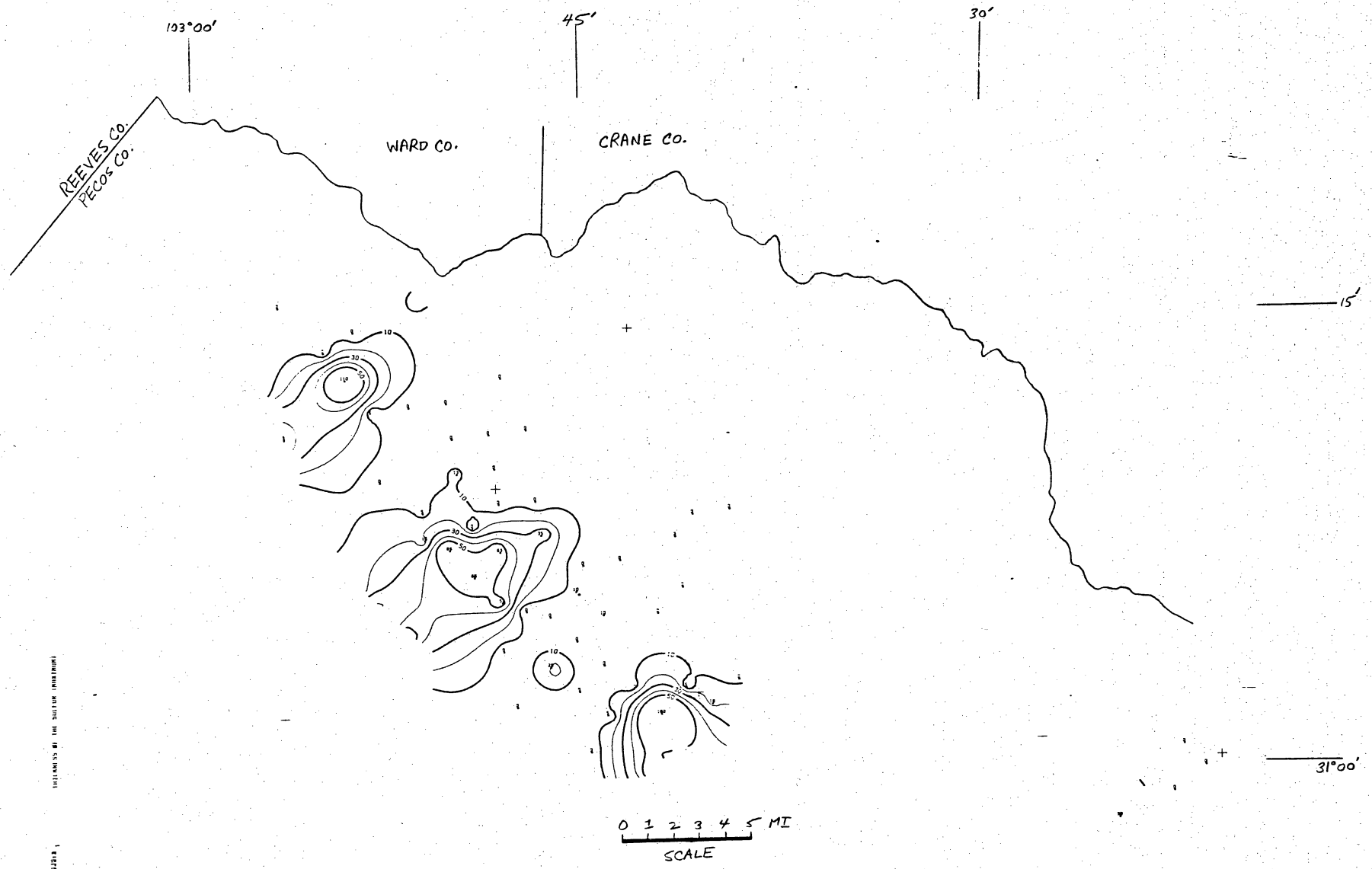


Figure 53. Isopach map of net thickness of sulfur in the Fort Stockton sulfur district. Values represent maximum thickness of sulfur for all boreholes within each section (see table 5).

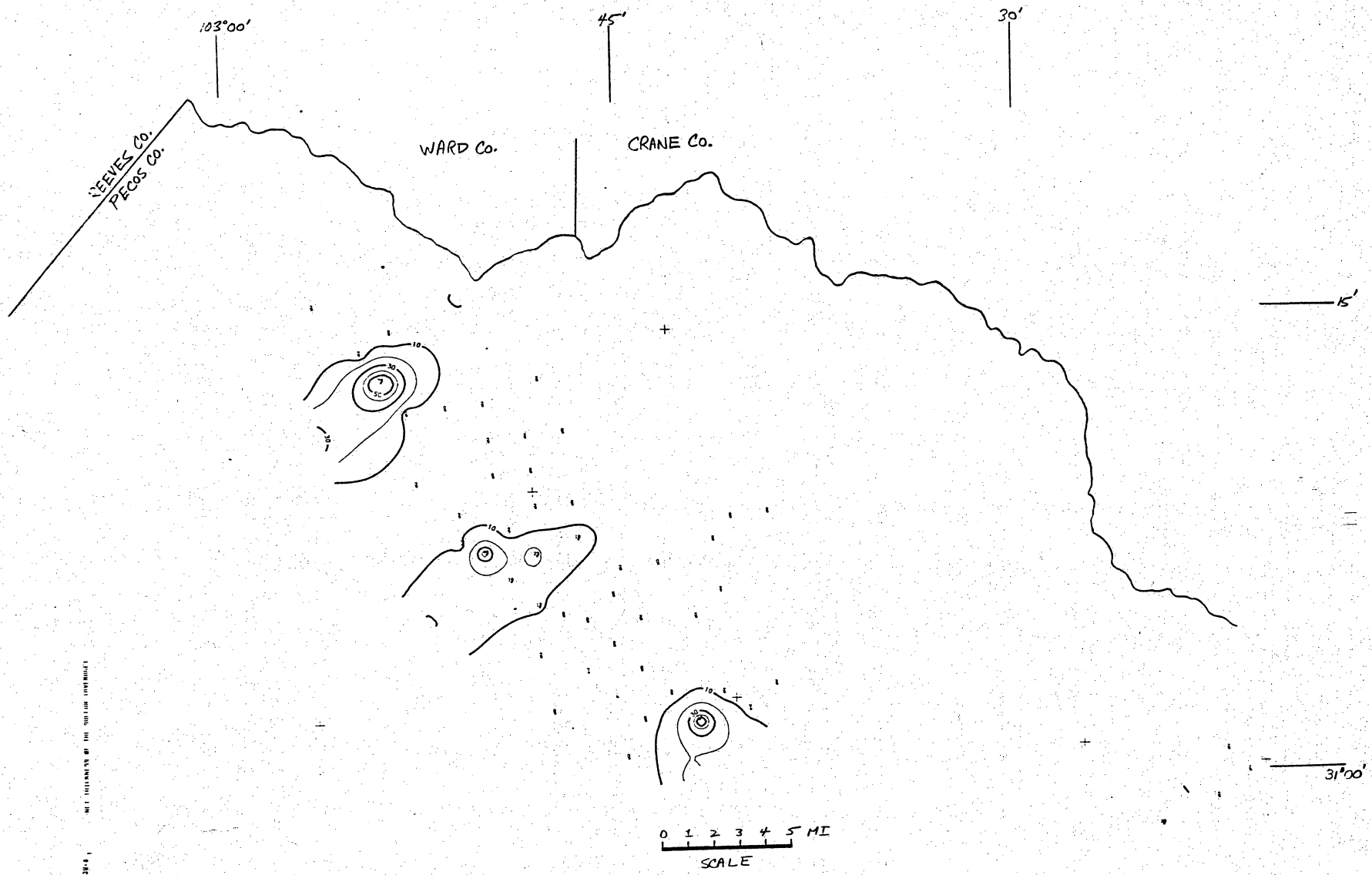


Figure 54. Isopach map of net thickness of sulfur in the Fort Stockton sulfur district. Values represent average thickness of sulfur for all boreholes within each section (see table 5).

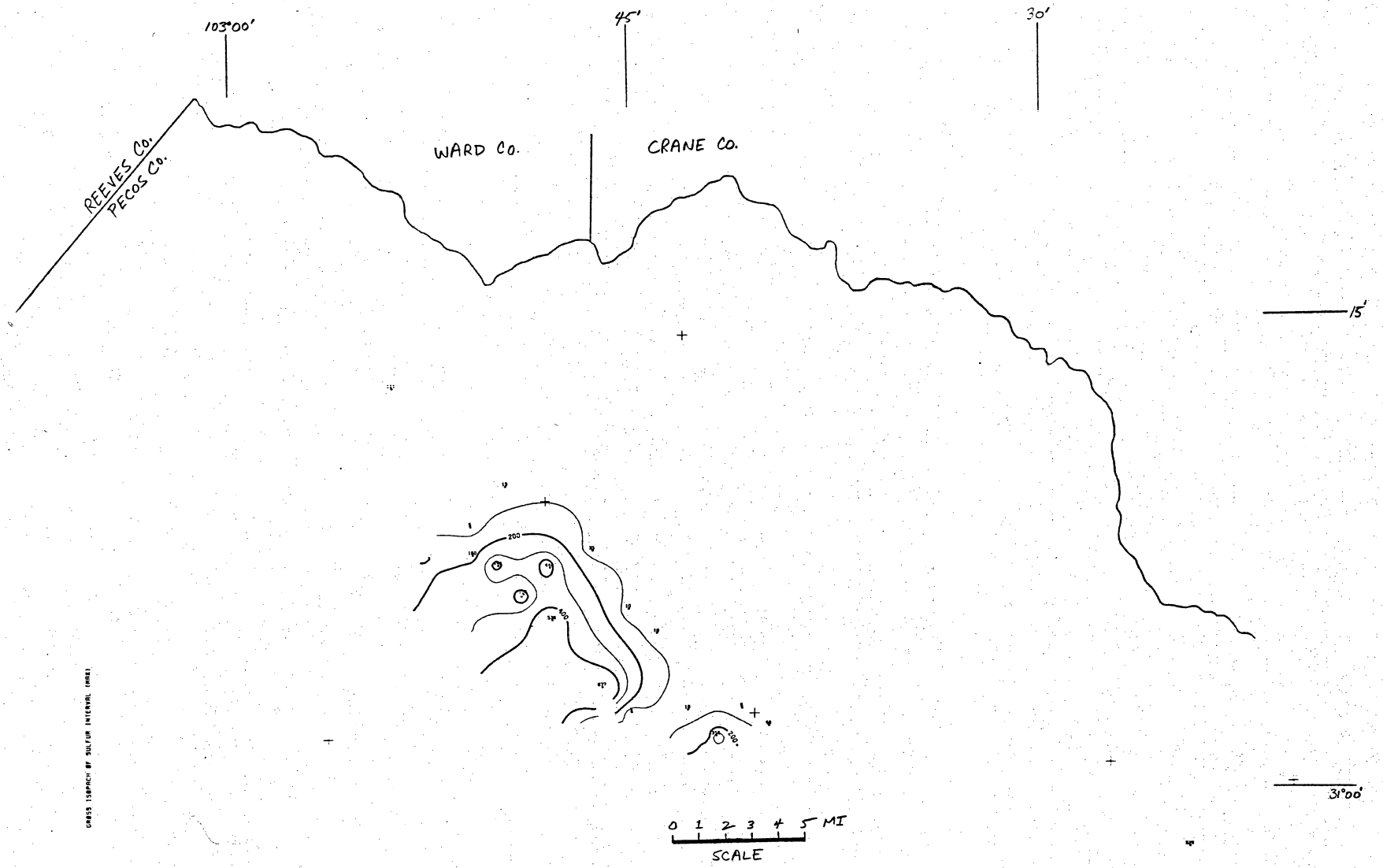


Figure 55. Isopach map of gross thickness of sulfur in the Fort Stockton sulfur district. Values represent maximum thickness of sulfur for all boreholes within each section (see table 5).

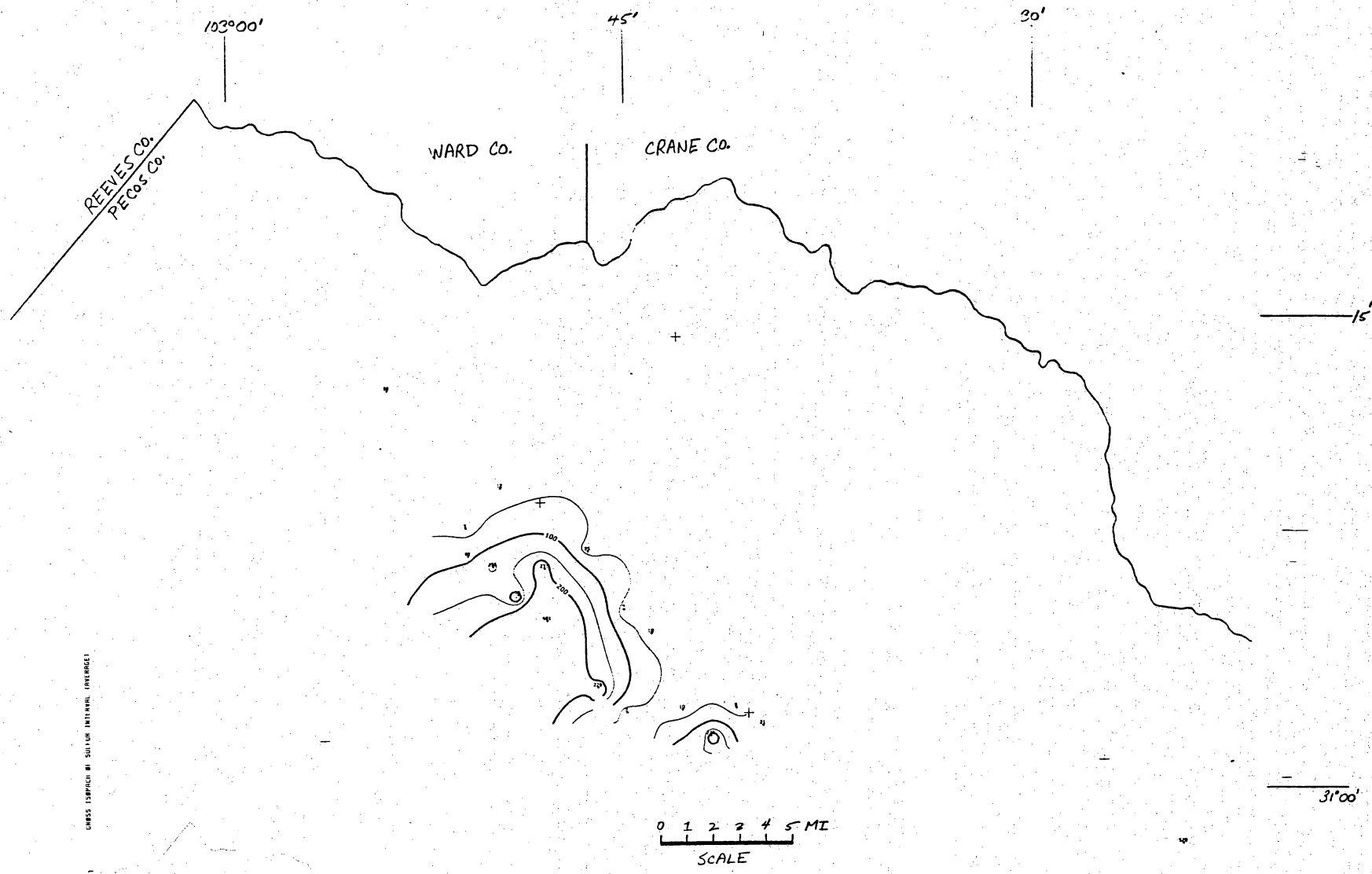


Figure 56. Isopach map of gross thickness of sulfur in the Fort Stockton sulfur district. Values represent average thickness of sulfur for all boreholes within each section (see table 5).

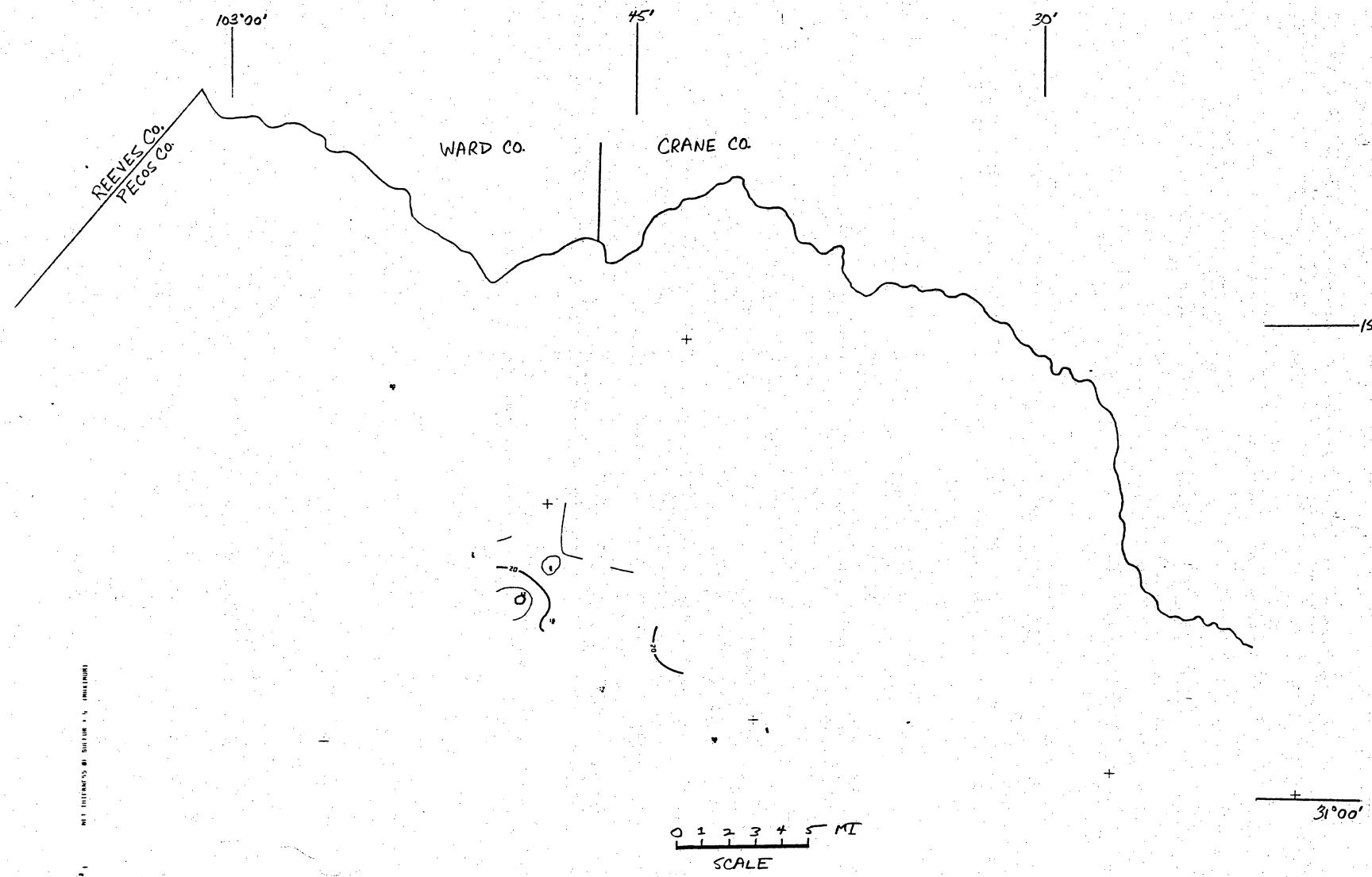


Figure 57. Isopach map of net thickness of ore-grade (>5%) sulfur in the Fort Stockton sulfur district. Values represent maximum thickness of sulfur for all boreholes within each section (see table 5).

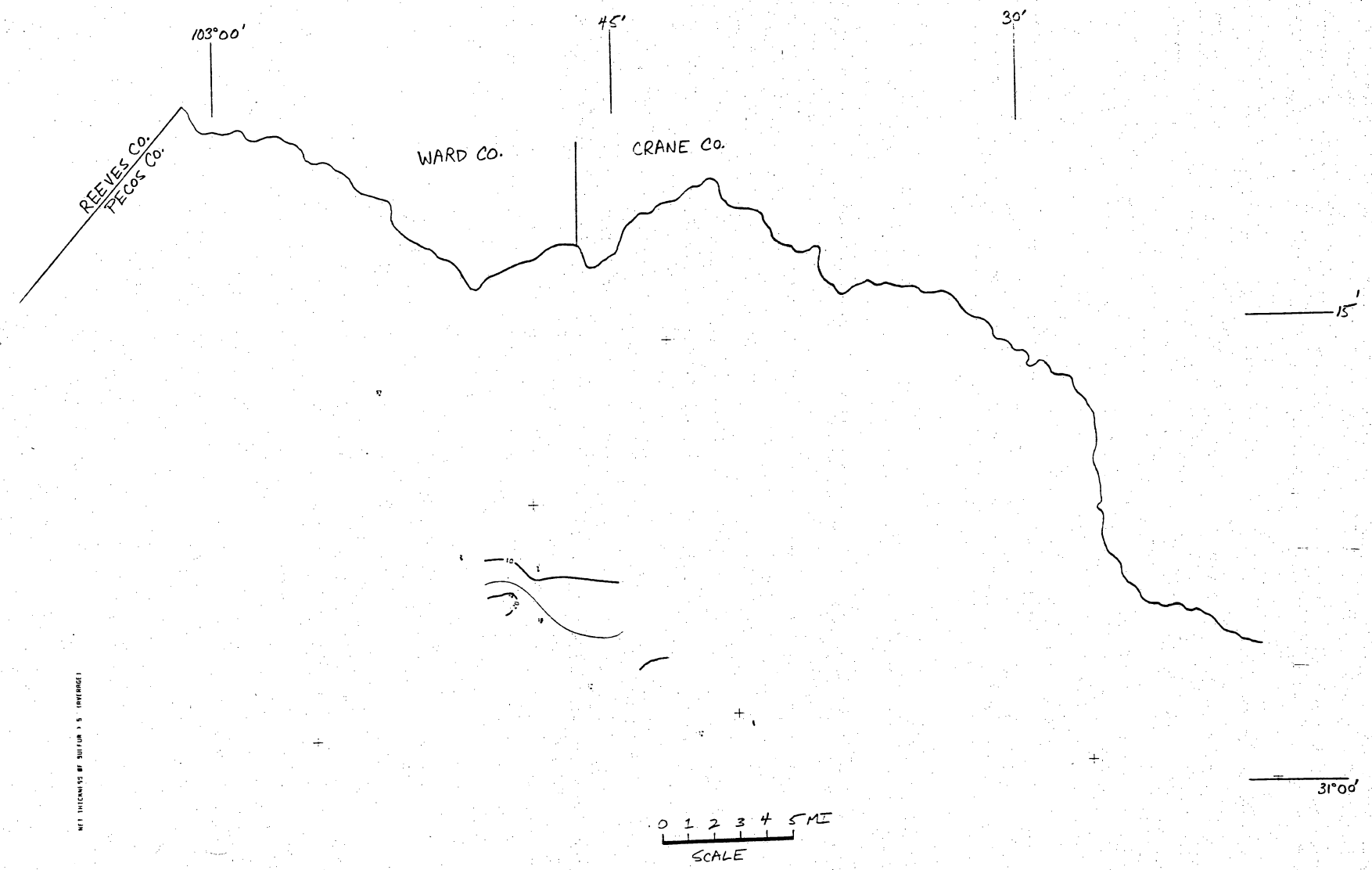


Figure 58. Isopach map of net thickness of ore-grade (>5%) sulfur in the Fort Stockton sulfur district. Values represent average thickness of sulfur for all boreholes within each section (see table 5).

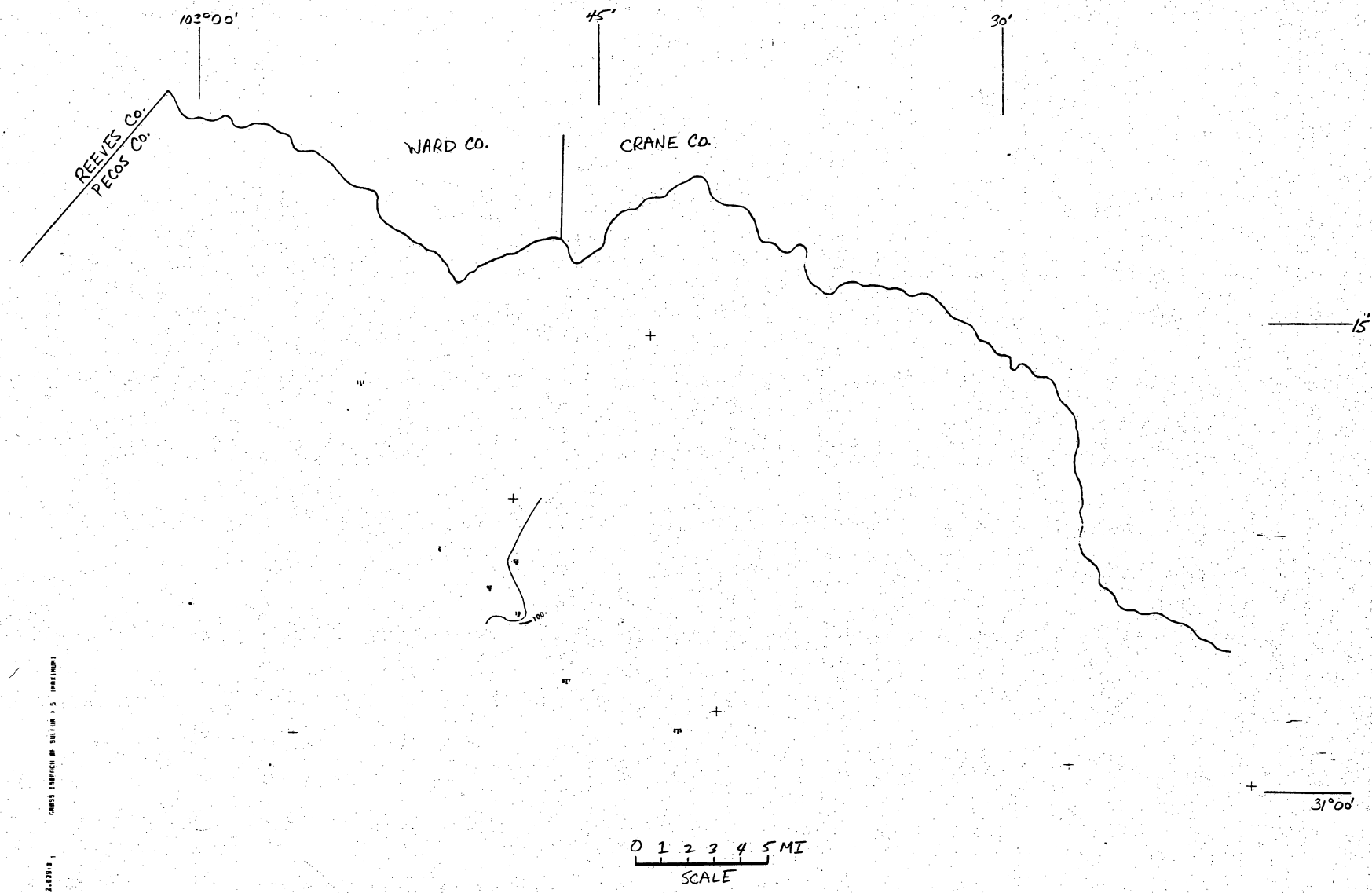


Figure 59. Isopach map of gross thickness of ore-grade (>5%) sulfur in the Fort Stockton sulfur district. Values represent maximum thickness of sulfur for all boreholes within each section (see table 5).

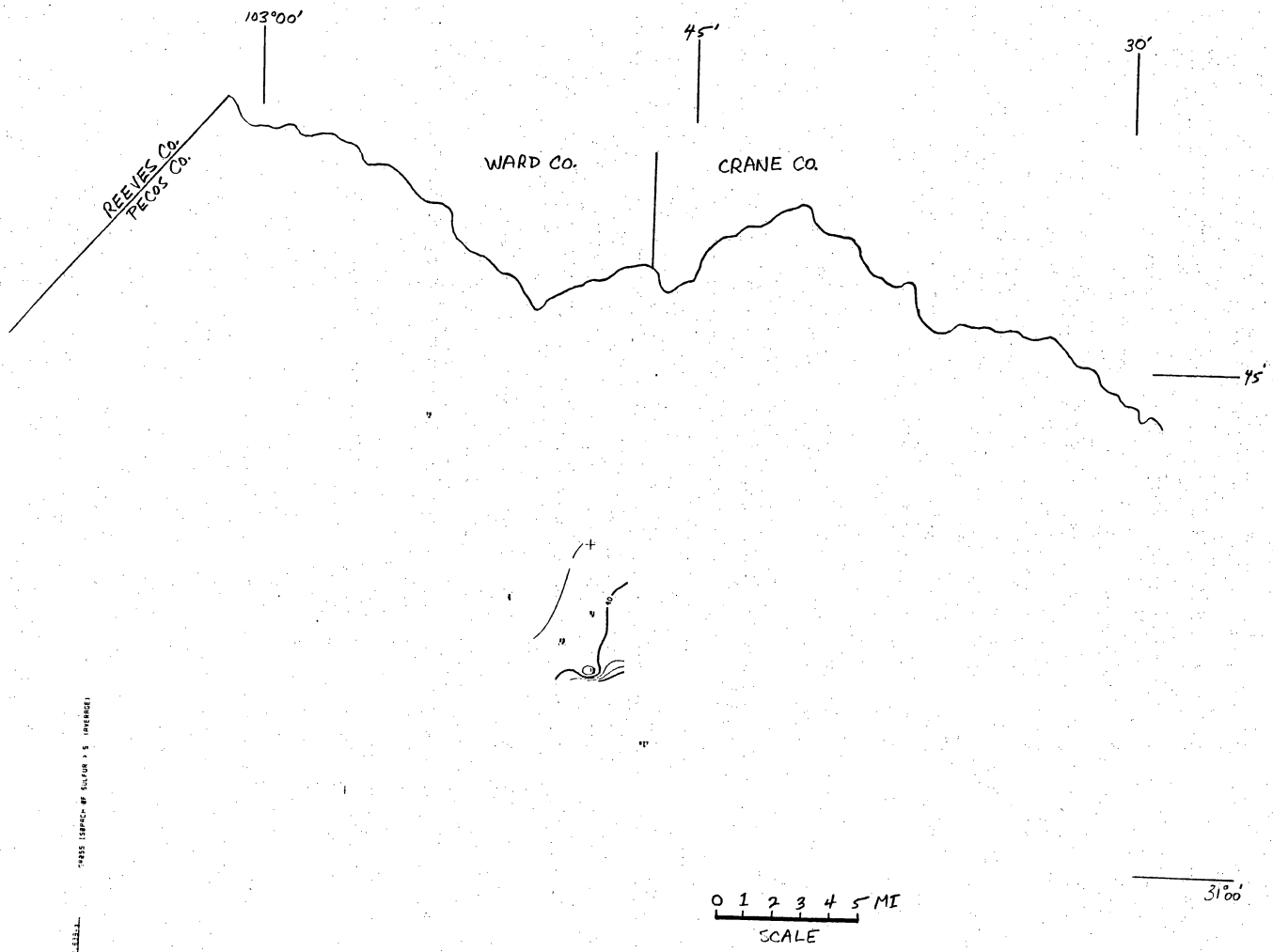


Figure 60. Isopach map of gross thickness of ore-grade (>5%) sulfur in the Fort Stockton sulfur district. Values represent average thickness of sulfur for all boreholes within each section (see table 5).

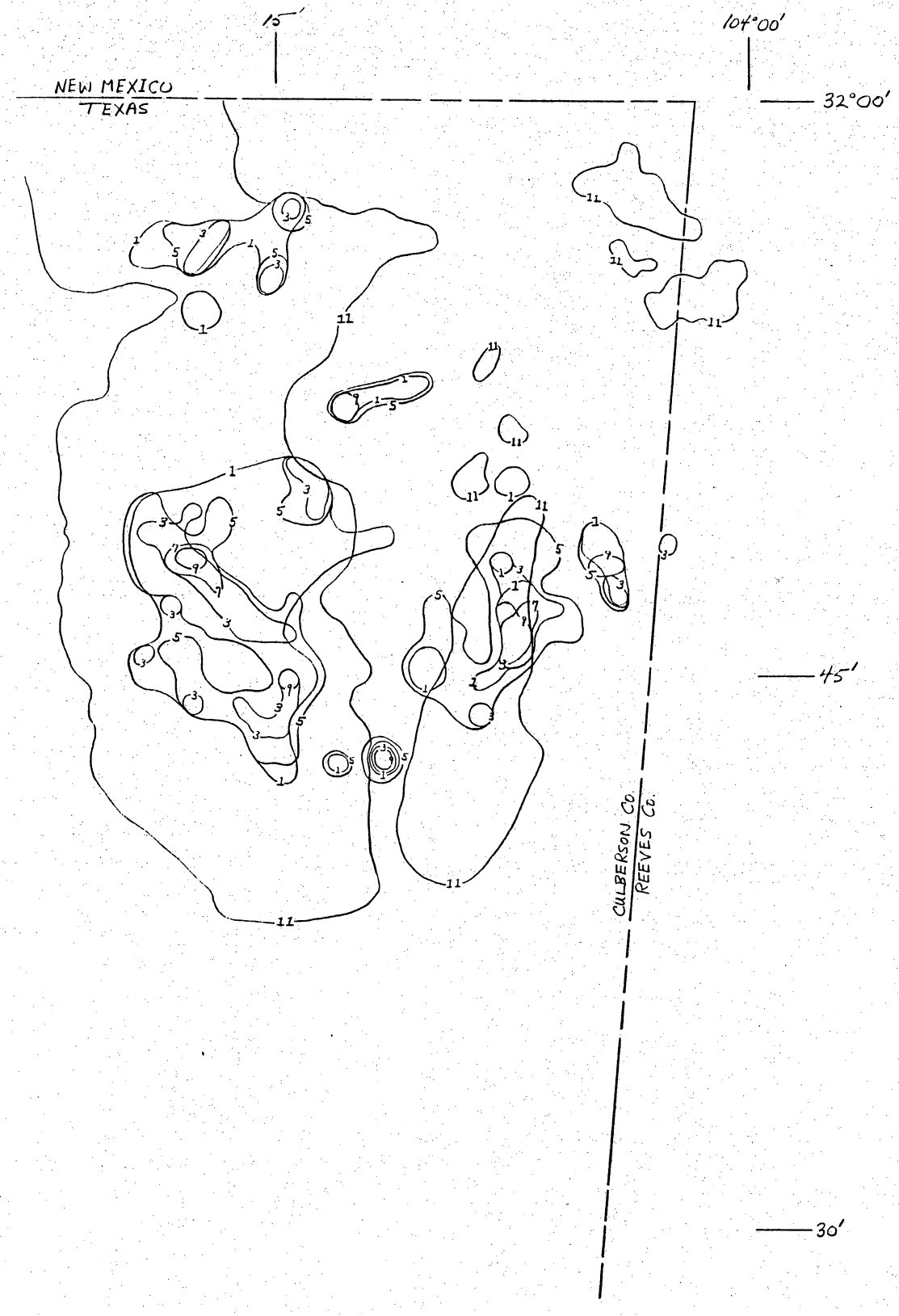


Figure 61A. Map of Rustler Springs sulfur district illustrating areas of sulfur favorability based on depth and thickness limits (table 6) of individual structure-contour and isopach maps and on lineament/fracture density of the lineament map (fig. 32). Areas of favorability from individual assessment maps are represented by numbers 1 through 11 (odd): 1 = depth to top sulfur (fig. 41), 3 = net thickness of sulfur - maximum (fig. 43), 5 = gross isopach of sulfur - maximum (fig. 45), 7 = net thickness of sulfur (>5%) - maximum (fig. 47), 9 = gross isopach of sulfur (>5%) - maximum (fig. 49), 11 = lineament/fracture map (fig. 32).

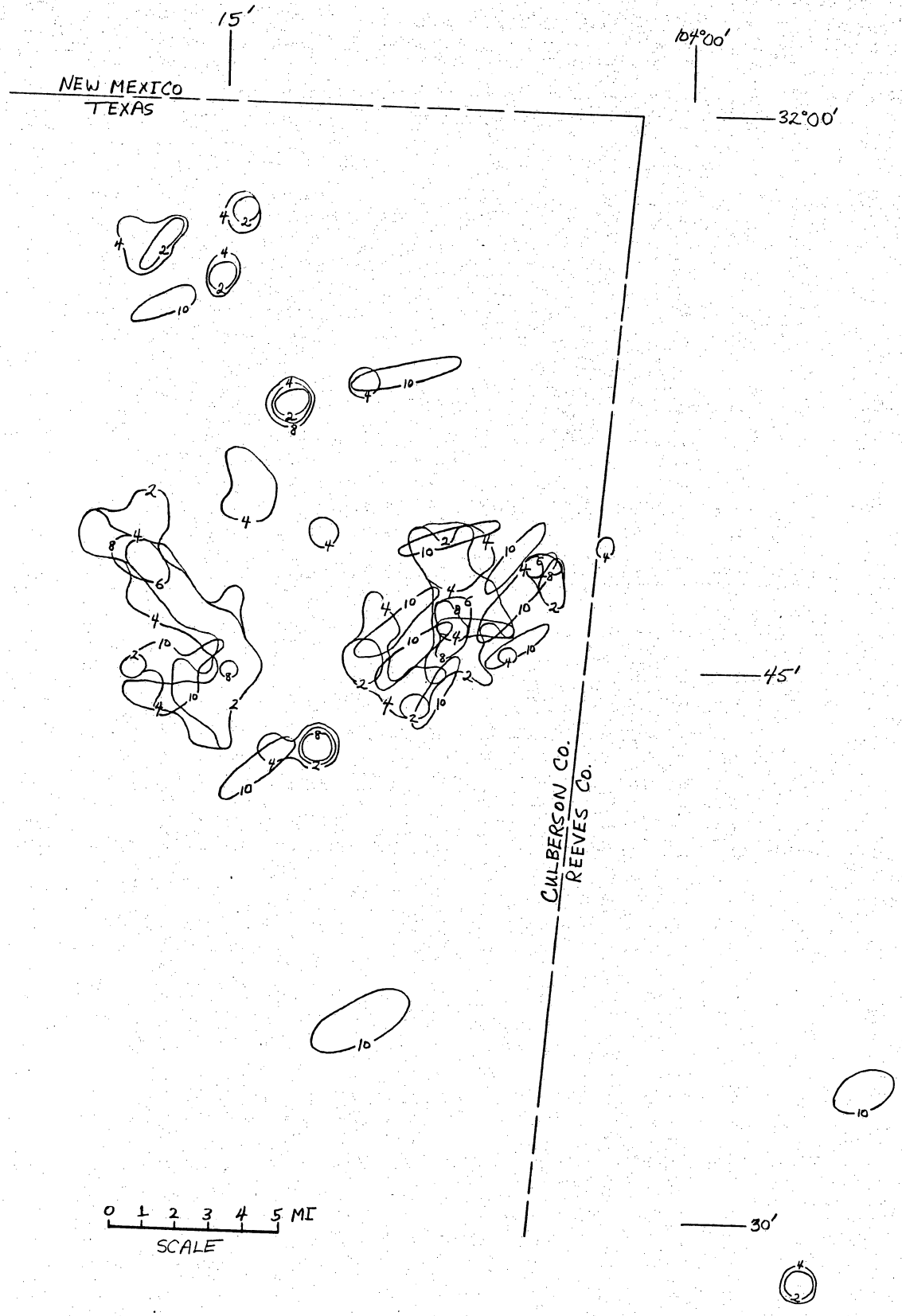


Figure 61B. Map of Rustler Springs sulfur district illustrating areas of sulfur favorability based on depth and thickness limits (table 6) of individual structure-contour and isopach maps and on lineament/fracture density of the lineament map (fig. 32). Areas of favorability from individual assessment maps are represented by numbers 1 through 11 (even): 2 = net thickness of sulfur - average (fig. 44), 4 = gross isopach of sulfur - average (fig. 46), 6 = net thickness of sulfur (>5%) - average (fig.48), 8 = gross isopach of sulfur (>5%) - average (fig. 50), 10 = fault locations from structure-contour maps of the tops of the Bell Canyon, Castile, and Salado Formations (figs. 29 through 31).

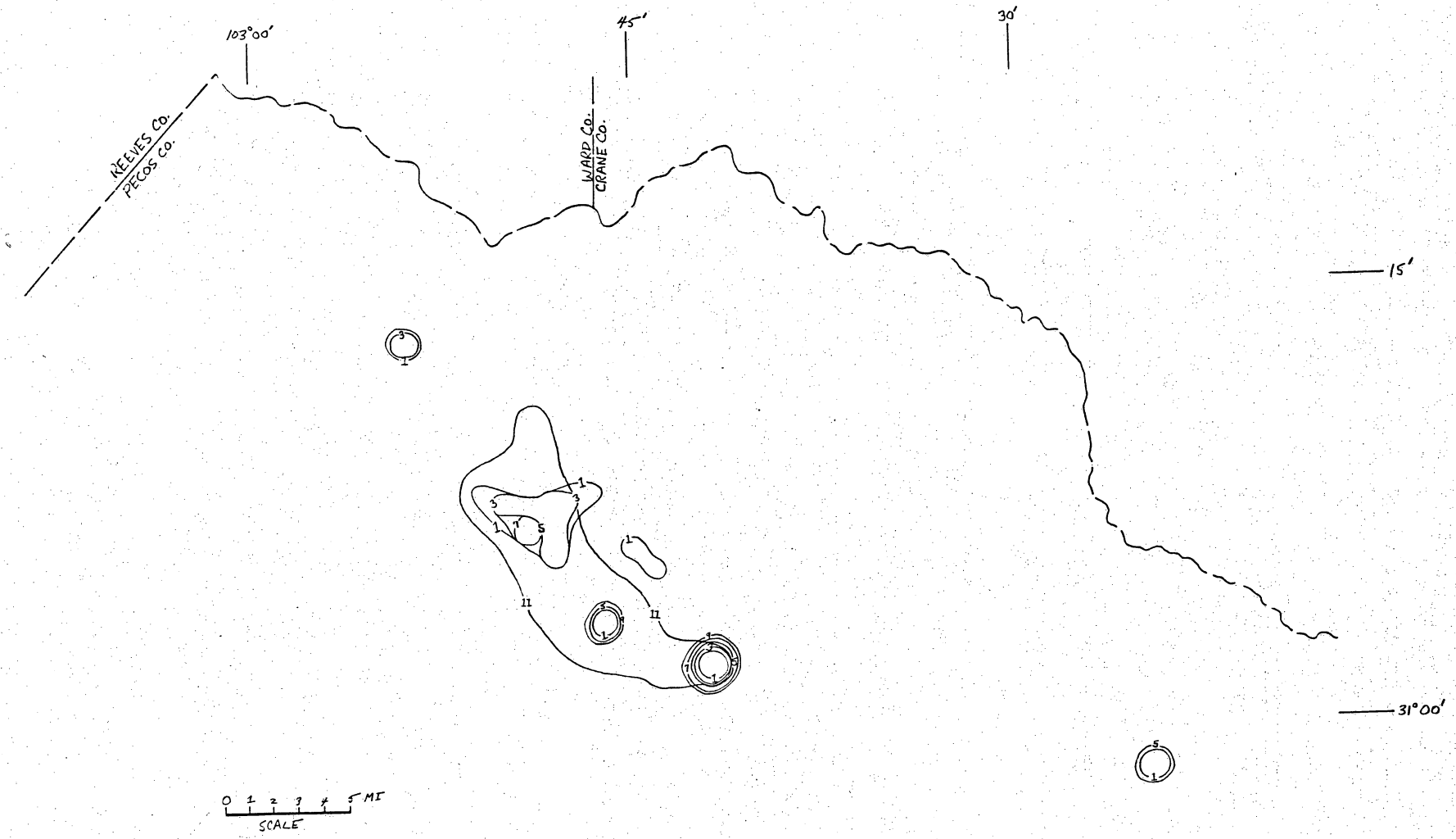


Figure 62A. Map of Fort Stockton sulfur district illustrating areas of sulfur favorability based on depth and thickness limits (table 6) of individual structure-contour and isopach maps. Areas of favorability from individual assessment maps are represented by numbers 1 through 11 (odd): 1 = depth to top sulfur (fig. 51), 3 = net thickness of sulfur - maximum (fig. 53), 5 = gross isopach of sulfur - maximum (fig. 55), 7 = net thickness of sulfur (>5%) - maximum (fig. 57), 9 = gross isopach of sulfur (>5%) - maximum (fig. 59), 11 = structural closures from structure-contour maps of the tops of the Salado and Rustler Formations (figs. 34 and 35).

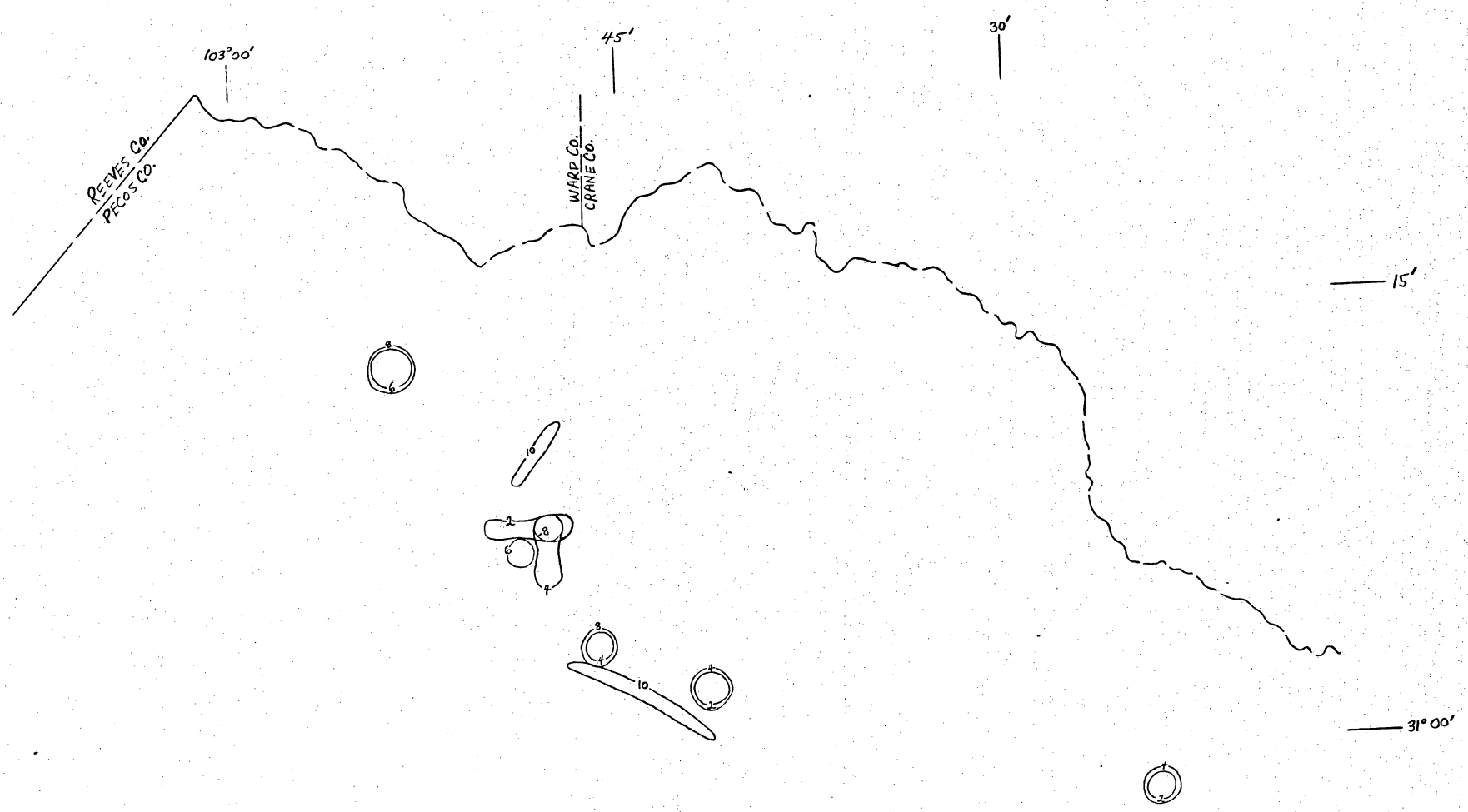


Figure 62B. Map of Fort Stockton sulfur district illustrating areas of sulfur favorability based on depth and thickness limits (table 6) of individual structure-contour and isopach maps. Areas of favorability from individual assessment maps are represented by numbers 1 through 11 (even): 2 = net thickness of sulfur - average (fig. 54), 4 = gross isopach of sulfur - average (fig. 56), 6 = net thickness of sulfur (>5%) - average (fig. 58), 8 = gross isopach of sulfur (>5%) - average (fig. 60), 10 = fault locations from structure-contour maps of the tops of the Salado and Rustler Formations (figs. 34 and 35).

TRANS-PECOS MINERAL COMMODITIES

PIM NUMBER	IDNUM	TYPE
★Barite	Iron	★Sand +
Bentonite	Kaolin	Gravel
Beryllium	Lead	Silver
★Brine	★Limestone	Sodium
Clay	Magnesium +	Sulfate
Coal	Magnesite	Specialty
Copper	Manganese	Stone
Dimension	Marble	★Strontium
Stone	Mercury	★Sulfur
Feldspar	Mica	Talc
Fluorspar	Molybdenum	Thorium
Gemstones	Perlite	Tin
Graphite	★Potash	Titanium
★Gypsum	Rare Earth	Tungsten
Helium	Elements	Uranium
Industrial	★Salt	Zeolite
Sand		★Zinc

Figure 65. Example record of SMARTSTAR database used to compile final evaluations of sulfur and other mineral commodities (with stars) for individual State-owned tracts in the sulfur districts. Record represents a complete listing of all primary hard mineral commodities that are likely to occur in economically exploitable deposits in Texas (see table 1). It was designed for possible use in any future mineral assessment studies.

APPENDIX 1
BOREHOLE DATA

Explanation

LEASE NO. = unique identification number of State-owned tracts (PIM No.)
LOCATION = borehole location (survey, block, section)
HOLE = number used to segregate different boreholes in same tract
OPERATOR NO. = operating company and well identification number
ELEV. = elevation of top of borehole (at ground surface)
TD = total depth of borehole
BC = depth to top of Bell Canyon Formation
TAN = depth to top of Tansill Formation
CAS = depth to top of Castile Formation
SAL = depth to top of Salado Formation
RUS = depth to top of Rustler Formation
SR = depth to top of Seven Rivers Formation
YAT = depth to top of Yates Formation
TOP S = depth to highest sulfur occurrence
BASE S = depth to lowest sulfur occurrence
THICK S = net thickness of sulfur
TOP 1, BOT 1,...TOP 8, BOT 8 = depth limits of separate intervals containing commercial grade (>5%) sulfur
X EAST, Y NORTH = UTM coordinates of central point of tract (GLO has more exact coordinates from their digitizing of borehole locations from 7.5-minute USGS topographic maps)

"0" entry in database = no data
"0.1" entry in database = zero value

All elevation, depth, and thickness values are in feet

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1	TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3	TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL	RUS / BOT8	SR	YAT / X	TOP S / EAST	BASE / Y	S THICK / NORTH	S
04-00389-3	PSL 45-7			1	DUVAL C 323					3140	1170	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			585842.0		3509674.8		
04-00389-3	PSL 45-7			2	DUVAL C 228					3135	1800	0	0	0	0	0	0	0	1230	1720	22.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			585842.0		3509674.8		
04-00389-3	PSL 45-7			3	DUVAL C 226					3145	1131	0	0	0	0	0	0	0	1035	1040	5.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			585842.0		3509674.8		
04-00389-3	PSL 45-7			4	DUVAL C 229					3130	1115	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			585842.0		3509674.8		
04-00389-3	PSL 45-7			5	DUVAL C 227					3140	1165	0	0	0	0	0	0	0	1025	1085	10.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			585842.0		3509674.8		
04-00389-3	PSL 45-7			6	DUVAL 47					0	1500	0	0	0	0	0	0	0	500	1125	99.0	
502	504	510	514	554	598	600	613	800	808	0	0	0	0	0	0			585842.0		3509674.8		
04-00390-0	PSL 45-8			1	DUVAL 48					3120	1500	0	0	0	0	0	0	0	445	525	65.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			587532.2		3509775.4		
04-00390-0	PSL 45-8			2	DUVAL 66					3100	1500	0	0	0	0	0	0	0	178	1045	34.0	
214	220	1035	1045	0	0	0	0	0	0	0	0	0	0	0	0			587532.2		3509775.4		
04-00390-0	PSL 45-8			3	DUVAL C 230					3100	1200	0	0	0	0	0	0	0	1170	1175	5	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			587532.2		3509775.4		
04-00390-0	PSL 45-8			4	DUVAL C 231					3120	1300	0	0	0	0	0	0	0	1050	1280	46.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			587532.2		3509775.4		
04-00390-0	PSL 45-8			1	TX GULF SULF	MD-3				3100	792	0	0	0	0	0	0	0	255	735	15.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			587532.2		3509775.4		
04-00396-4	PSL 45-32			1	CITIES CT-1					3360	1400	0	0	1100	790	325	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			587576.6		3503315.7		
04-00396-4	PSL 45-32			2	CITIES CT-2					3280	1343	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			587576.6		3503315.7		
04-00451-6	PSL 111-3			2	DUVAL 115					3235	594	0	0	0	0	0	0	0	366	524	158.0	
366	524	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1		3506907.5		
04-00451-6	PSL 111-3			3	DUVAL 140					3260	900	0	0	0	0	0	0	0	845	850	5.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1		3506907.5		
04-00451-6	PSL 111-3			4	DUVAL 102					3245	910	0	0	0	0	0	0	0	395	398	3.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1		3506907.5		
04-00451-6	PSL 111-3			5	DUVAL 113A					3240	550	0	0	0	0	0	0	0	335	434	41.0	
408	432	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1		3506907.5		
04-00451-6	PSL 111-3			6	DUVAL 121					3235	550	0	0	0	0	0	0	0	428	543	0.0	
428	543	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1		3506907.5		
04-00451-6	PSL 111-3			8	DUVAL 133					3230	923	0	0	0	0	0	0	0	545	747	0.0	

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO	LOCATION			HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT TOP S	BASE S THICK S
TOP1	BOT1	TOP2	BOT2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X EAST	Y NORTH
651	747	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1	3506907.5
04-00451-6	PSL 111-3			9	DUVAL 138					3230	900	0	0	0	0	0	0	0 275	390 60.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1	3506907.5
04-00451-6	PSL 111-3			10	DUVAL 142					3245	900	0	0	0	0	0	0	0 361	457 82.0
419	437	439	457	0	0	0	0	0	0	0	0	0	0	0	0			581150.1	3506907.5
04-00451-6	PSL 111-3			11	DUVAL 147					3260	900	0	0	0	0	0	0	0 315	355 40.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1	3506907.5
04-00451-6	PSL 111-3			12	DUVAL 148					3235	900	0	0	0	0	0	0	0 445	521 76.0
445	521	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1	3506907.5
04-00451-6	PSL 11-3			13	DUVAL 151					3270	900	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1	3506907.5
04-00451-6	PSL 111-3			14	DUVAL 180					3275	900	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1	3506907.5
04-00451-6	PSL 111-3			15	DUVAL 173					3250	900	0	0	0	0	0	0	0 325	335 10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1	3506907.5
04-00451-6	PSL 111-3			1	DUVAL 107					3220	900	0	0	0	0	0	0	0 630	708 78.0
630	708	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1	3506907.5
04-00451-6	PSL 111-3			16	DUVAL 155					3255	893	0	0	0	0	0	0	0 356	397 41.0
378	387	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1	3506907.5
04-00451-6	PSL 111-3			17	DUVAL 159					3240	900	0	0	0	0	0	0	0 365	370 5.0
365	370	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1	3506907.5
04-00451-6	PSL 111-3			18	DUVAL 6-19-68					3240	579	0	0	0	0	0	0	0 408	444 31.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1	3506907.5
04-00451-6	PSL 111-3			19	DUVAL 82					3240	1200	0	0	0	0	0	0	0 305	527 183.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1	3506907.5
04-00451-6	PSL 111-3			20	DUVAL 92					3245	880	0	0	0	0	0	0	0 311	390 79.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1	3506907.5
04-00451-6	PSL 111-3			21	DUVAL 98					3230	952	0	0	0	0	0	0	0 414	551 137.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1	3506907.5
04-00451-6	PSL 111-3			22	DUVAL 80					3225	1200	0	0	0	0	0	0	0 536	622 76.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1	3506907.5
04-00451-6	PSL 111-3			22	DUVAL 75					3230	1500	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1	3506907.5
04-00451-6	PSL 111-3			24	DUVAL 87					3250	930	0	0	0	0	0	0	0 340	492 150.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1	3506907.5
04-00451-6	PSL 111-3			25	DUVAL 86					3235	1005	0	0	0	0	0	0	0 365	424 57.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581150.1	3506907.5

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1	TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3	TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL	RUS / BOT8	SR	YAT TOP S / X EAST	BASE S THICK S / Y NORTH
04-00451-6	PSL 111-3			26	DUVAL 6-9-68					3260	1200	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		581150.1	3506907.5
04-00451-6	PSL 111-3			27	DUVAL 6-11-68					3240	1200	0	0	0	0	0	0	0 413	436 23.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		581150.1	3506907.5
04-00451-6	PSL 111-3			7	DUVAL 130					3230	800	0	0	0	0	0	0	0 225	532 51.0
394	532	0	0	0	0	0	0	0	0	0	0	0	0		0	0		581150.1	3506907.5
04-00452-5	PSL 111-13			1	HUMBLE 1					3225	1827	0	0	815	390	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		584359.5	3503741.8
04-00452-5	PSL 111-13			2	HUMBLE 2					3215	1750	0	0	885	490	60	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		584359.5	3503741.8
04-00452-5	PSL 111-13			3	HUMBLE 3					3230	1752	0	0	860	340	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		584359.5	3503741.8
04-00452-5	PSL 111-13			4	HUMBLE 4					3231	1776	0	0	840	445	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		584359.5	3503741.8
04-00453-4	PSL 111-15			1	DUVAL 95					3290	488	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		581096.4	3503660.0
04-00453-4	PSL 111-15			2	DUVAL 119					3310	900	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		581096.4	3503660.0
04-00453-4	PSL 111-15			3	DUVAL 7-15-68					3290	900	0	0	0	0	0	0	0 490	590 100.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		581096.4	3503660.0
04-00453-4	PSL 111-15			4	DUVAL 160					3320	900	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		581096.4	3503660.0
04-00453-4	PSL 111-15			5	DUVAL 162					3340	1000	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		581096.4	3503660.0
04-00453-4	PSL 111-15			6	DUVAL 194					3300	900	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		581096.4	3503660.0
04-00453-4	PSL 111-15			7	DUVAL 6-22-68					3300	900	0	0	0	0	0	0	0 425	430 5.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		581096.4	3503660.0
04-00453-4	PSL 111-15			8	DUVAL 6-21-68					3278	854	0	0	0	0	0	0	0 425	553 115.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		581096.4	3503660.0
04-00453-4	PSL 111-15			9	DUVAL 6-19-68					3280	900	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		581096.4	3503660.0
04-00453-4	PSL 111-15			10	DUVAL 6-10-68					3280	1500	0	0	0	0	0	0	0 255	562 303.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		581096.4	3503660.0
04-00453-4	PSL 111-15			11	DUVAL 6-13-68					3280	1200	0	0	0	0	0	0	0 290	518 218.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		581096.4	3503660.0
04-00453-4	PSL 111-15			12	DUVAL 6-17-68					3290	1200	0	0	0	0	0	0	0 518	550 32.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		581096.4	3503660.0

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1	TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3	TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN	CAS / TOP8	SAL	RUS / BOT8	SR	YAT / X	TOP S / EAST	BASE S / Y	THICK S / NORTH
04-00453-4	PSL 111-15			13	DUVAL 95A					3290	900	0	0	0	0	0	0	0	500	560	60.0
520	560	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581096.4		3503660.0	
04-00454-3	PSL 111-16			1	DUVAL C149					3310	2173	0	0	0	0	0	0	0	1956	1986	30.0
1976	1986	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		579557.6		3503645.4	
04-00454-3	PSL 111-16			2	DUVAL C132					3310	1375	0	0	0	0	0	0	0	302	997	32.0
302	308	541	561	575	577	992	997	0	0	0	0	0	0	0	0	0		579557.6		3503645.4	
04-00471-2	T&P 59-2-42			1	FREEPORT 15					3559	1010	0	0	590	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		575156.9		3516506.8	
04-00479-4	T&P 61-2-48			2	FREEPORT 59					3824	1190	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		563488.4		3514704.9	
04-01966-2	PSL 45-15			1	CITIES CT-1					3145	1553	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		590530.0		3507953.4	
04-01968-0	PSL 45-23			1	CITIES CT-2					3095	1050	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		592217.7		3506381.2	
04-01969-9	PSL 45-23			1	CITIES CT-1					3080	1623	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		592217.7		3506381.2	
07-02131-3	PSL-45-17			1	ARCO 2					3110	1700	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		587531.0		3508118.1	
07-02131-3	PSL 45-17			2	ARCO 3					3130	1700	0	0	0	0	0	0	0	150	1280	230.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		587531.0		3508118.1	
07-02131-3	PSL 45-17			3	ARCO 4					3120	2427	0	0	0	0	0	0	0	1420	1430	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		587531.0		3508118.1	
07-02131-3	PSL45-17			4	ARCO 5					3170	705	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		587531.0		3508118.1	
07-02131-3	PSL 45-17			1	CONOCO 1A					3130	1700	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		587531.0		3508118.1	
07-02136-8	PSL 42-3			1	HUMBLE 1					3575	1695	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		571525.2		3498259.0	
07-02137-7	PSL 42-4			1	TX GULF SULF 1-A					3650	1570	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		569800.6		3498225.7	
07-02138-6	PSL 42-5			1	TX GULF SULF 1-B					3685	1500	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		568160.7		3498176.3	
07-02139-5	PSL 42-6			1	TX GULF SULF 1-C					3750	1409	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		566587.4		3498229.0	
07-02139-5	PSL 42-6			2	TX GULF SULF 3-C					3760	862	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		566587.4		3498229.0	
07-02139-5	PSL 42-6			3	TX GULF SULF 4-C					3730	1379	0	0	0	0	0	0	0	0	0	0.0

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(Appendix 1 - Borehole Data)

LEASE NO	LOCATION			HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT TOP S	BASE S	THICK S
TOP1	BOT1	TOP2	BOT2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X EAST	Y NORTH	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			566587.4	3498229.0	
07-02141-1	PSL 42-7			1	ARCO 3					3890	1377	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			566670.2	3496640.1	
07-02141-1	PSL 42-7			2	ARCO 4					3810	1440	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			566670.2	3496640.1	
07-02141-1	PSL42-7			3	ARCO 5					3790	1450	0	0	0	0	0	0	0 930	940	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			566670.2	3496640.1	
07-02141-1	PSL 42-7			1	CITIES CT-1					3820	1525	1490	0	110	0	0	0	0 340	540	40.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			566670.2	3496640.1	
07-02141-1	PSL 42-7			2	CITIES CT-2					3770	725	0	0	130	0	0	0	0 433	433	1.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			566670.2	3496640.1	
07-02142-0	PSL 42-8			1	ARCO 3					3720	1500	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568327.2	3496672.8	
07-02142-0	PSL 42-8			2	ARCO 4					3800	1552	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568327.2	3496672.8	
07-02142-0	PSL 42-8			1	CITIES CT-1					3740	715	0	0	0	0	0	0	0 20	700	80.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568327.2	3496672.8	
07-02142-0	PSL 42-8			2	CITIES CT-2					3730	800	0	0	660	0	0	0	0 620	625	2.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568327.2	3496672.8	
07-02143-9	PSL 42-9			1	GULF OIL 28					3670	1600	0	0	0	0	0	0	0 670	680	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			569933.9	3496654.2	
07-02143-9	PSL 42-9			2	GULF OIL 21					3685	700	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			569933.9	3496654.2	
07-02143-9	PSL 42-9			3	GULF OIL 36					3680	700	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			569933.9	3496654.2	
07-02143-9	PSL 42-9			4	GULF OIL 35					3670	700	0	0	0	0	0	0	0 512	580	12.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			569933.9	3496654.2	
07-02143-9	PSL 42-9			5	GULF OIL 29					3683	700	0	0	0	0	0	0	0 565	580	15.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			569933.9	3496654.2	
07-02144-8	PSL 42-10			1	PHILLIPS 6-1					3680	1475	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571387.7	3496718.8	
07-02144-8	PSL 42-10			2	PHILLIPS 15-1					3700	670	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571387.7	3496718.8	
07-02144-8	PSL 42-10			3	PHILLIPS 22-1					3670	720	0	0	0	0	0	0	0 425	720	295.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571387.7	3496718.8	
07-02144-8	PSL 42-10			4	PHILLIPS 24-1					3640	701	0	0	0	0	0	0	0 305	408	68.0
305	307	312	312	319	320	0	0	0	0	0	0	0	0	0	0			571387.7	3496718.8	

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LEASE NO	LOCATION			HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT	TOP S	BASE S	THICK S
TOP1	BOT1	TOP2	BOT2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X	EAST	Y	NORTH
07-02144-8	PSL 42-10			5	PHILLIPS 24-2					3640	122	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571387.7		3496718.8	
07-02144-8	PSL 42-10			6	PHILLIPS 24-3					3680	760	0	0	0	0	0	0	0	418	746	7.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571387.7		3496718.8	
07-02144-8	PSL 42-10			7	PHILLIPS 24-4					3650	585	0	0	0	0	0	0	0	337	487	150.0
357	361	366	367	387	388	470	478	479	486	0	0	0	0	0	0			571387.7		3496718.8	
07-02144-8	PSL 42-10			8	PHILLIPS 24-5					3640	582	0	0	0	0	0	0	0	392	552	51.0
394	400	408	415	445	446	448	449	450	451	0	0	0	0	0	0			571387.7		3496718.8	
07-02144-8	PSL 42-10			9	PHILLIPS 24-8					3640	599	0	0	0	0	0	0	0	475	599	88.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571387.7		3496718.8	
07-02144-8	PSL 42-10			10	PHILLIPS 25-1					3640	600	0	0	0	0	0	0	0	467	600	103.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571387.7		3496718.8	
07-02144-8	PSL 42-10			11	PHILLIPS 25-2					3640	897	0	0	0	0	0	0	0	593	771	18.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571387.7		3496718.8	
07-02144-8	PSL42-10			13	PHILLIPS 32-1					3640	1435	0	0	0	0	0	0	0	770	1325	545.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571387.7		3496718.8	
07-02144-8	PSL 42-10			12	PHILLIPS 25-3					3640	910	0	0	0	0	0	0	0	542	865	154.0
556	562	622	624	802	814	824	829	845	846	853	864	0	0	0	0			571387.7		3496718.8	
07-02144-8	PSL 42-10			14	PHILLIPS 33-1					3640	502	0	0	0	0	0	0	0	271	357	26.0
352	357	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571387.7		3496718.8	
07-02144-8	PSL 42-10			15	PHILLIPS 33-4					3630	1500	0	0	0	0	0	0	0	75	1422	4.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571387.7		3496718.8	
07-02144-8	PSL 42-10			16	PHILLIPS 34-1					3640	1967	0	0	0	0	0	0	0	605	1470	75.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571387.7		3496718.8	
07-02145-7	PSL 42-11			1	JEFF LAKE 1					3750	1925	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			573078.5		3496751.7	
07-02145-7	PSL 42-11			2	JEFF LAKE 4					3710	1800	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			573078.5		3496751.7	
07-02146-6	PSL 42-12			1	JEFF LAKE 5					3689	1815	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			574651.2		3496749.8	
07-02146-6	PSL 42-12			2	JEFF LAKE 9					3656	1975	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			574651.2		3496749.8	
07-02146-6	PSL 42-12			3	JEFF LAKE 11					3624	1200	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			574651.2		3496749.8	
07-02146-6	PSL 42-12			4	JEFF LAKE 12					3663	1200	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			574651.2		3496749.8	
07-02147-5	PSL 42-13			1	JEFF LAKE 1					3718	1200	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			574632.8		3495126.1	

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1 / TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3 / TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE / Y	S THICK / NORTH	S
07-02148-4	PSL 42-14		1	JEFF LAKE 5				3803	2000	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			573026.7		3495077.0		
07-02148-4	PSL 42-14		2	JEFF LAKE 7				3791	2000	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			573026.7		3495077.0		
07-02148-4	PSL 42-14		3	JEFF LAKE 8				3806	1200	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			573026.7		3495077.0		
07-02149-3	PSL 42-15		1	PHILLIPS 15-1				3780	620	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			571454.6		3495011.4		
07-02178-7	PSL 42-46		1	HUMBLE 1				3630	1309	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			571563.6		3487098.0		
07-02179-6	PSL 42-46		1	HUMBLE 1				3680	1824	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			571563.6		3487098.0		
07-02202-7	PSL 45-17		1	DUVAL 27				3130	1600	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			587531.0		3508118.1		
07-02203-6	PSL 45-18		1	TX GULF SULF 120				3150	1250	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			585975.2		3508120.2		
07-02255-3	PSL 52-4		1	CONOCO 19				3430	220	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			579438.5		3498384.9		
07-02263-3	PSL 52-16		1	ARCO 2				3530	1100	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			579519.7		3495172.5		
07-02263-3	PSL 52-16		2	ARCO 3				3550	725	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			579519.7		3495172.5		
07-02264-2	PSL 52-16		1	ARCO 4				3520	710	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			579519.7		3495172.5		
07-02264-2	PSL 52-16		1	CONOCO 1				3540	1105	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			579519.7		3495172.5		
07-02269-7	PSL 52-22		1	ARCO 2				3540	1200	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			581242.4		3493633.1		
07-02269-7	PSL 52-22		2	ARCO 3				3500	725	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			581242.4		3493633.1		
07-02269-7	PSL 52-22		3	ARCO 4				3520	710	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			581242.4		3493633.1		
07-02269-7	PSL 52-22		4	CONOCO 1				3560	1205	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			581242.4		3493633.1		
07-02270-4	PSL 52-28		1	ARCO 2				3510	1100	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			579499.1		3492009.9		
07-02270-4	PSL 52-28		2	ARCO 3				3555	725	0	0	0	0	0	0	0	0	0	0.1	

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LEASE NO / TOP1	LOCATION BOT1	TOP2	BOT2	HOLE TOP3	OPERATOR NO BOT3	TOP4	BOT4	TOP5	BOT5	ELEV TOP6	TD BOT6	BC TOP7	TAN BOT7	CAS TOP8	SAL BOT8	RUS	SR	YAT X	TOP S EAST	BASE Y	S THICK S NORTH
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579499.1		3492009.9	
07-02270-4 PSL 52-28				3	ARCO 4					3490	710	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579499.1		3492009.9	
07-02270-4 PSL 52-28				4	CONOCO 1					3530	1105	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579499.1		3492009.9	
07-02272-2 PSL 52-31				1	CITIES CT-1					3588	949	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			576368.9		3490390.6	
07-02272-2 PSL 52-31				2	CITIES CT-2					3594	850	0	0	740	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			576368.9		3490390.6	
07-02272-2 PSL 52-31				3	CITIES CT-3					3565	985	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			576368.9		3490390.6	
07-02274-0 PSL 52-40				1	TEXAS AMER. 1					3470	715	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579646.8		3488916.6	
07-02274-0 PSL 52-40				2	TEXAS AMER. 2					3490	2320	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579646.8		3488916.6	
07-02274-0 PSL 52-40				3	TEXAS AMER. 4					3470	705	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579646.8		3488916.6	
07-02274-0 PSL 52-40				4	TEXAS AMER. 5					3470	705	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579646.8		3488916.6	
07-02275-9 PSL 52-41				1	TEXAS AMER. 1					3540	715	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			578007.4		3488816.5	
07-02275-9 PSL 52-41				2	TEXAS AMER. 2					3550	715	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			578007.4		3488816.5	
07-02275-9 PSL 52-41				3	TEXAS AMER. 3					3500	715	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			578007.4		3488816.5	
07-02275-9 PSL 52-41				4	TEXAS AMER. 4					3520	705	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			578007.4		3488816.5	
07-02275-9 PSL 52-41				5	TEXAS AMER. 5					3520	705	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			578007.4		3488816.5	
07-02278-6 PSL 52-44				1	TEXAS AMER. 1					3450	715	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			578006.2		3487159.2	
07-02278-6 PSL 52-44				2	TEXAS AMER. 2					3500	715	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			578006.2		3487159.2	
07-02278-6 PSL 52-44				3	TEXAS AMER. 3					3490	715	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			578006.2		3487159.2	
07-02278-6 PSL 52-44				4	TEXAS AMER. 4					3480	705	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			578006.2		3487159.2	

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(Appendix 1 - Borehole Data)

LEASE NO / LOCATION	HOLE / OPERATOR NO	ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT / X	TOP S / EAST	BASE S / Y	THICK S / NORTH
07-02278-6 PSL 52-44	5 TEXAS AMER. 5	3480	705	0	0	0	0	0	0	0	0	0	0.0
0 0 0 0 0 0 0 0 0 0		0	0	0	0	0	0	0		578006.2		3487159.2	
07-02279-5 PSL 52-45	1 TEXAS AMER. 1	3430	715	0	0	0	0	0	0	0	0	0	0.0
0 0 0 0 0 0 0 0 0 0		0	0	0	0	0	0	0		579595.1		3487241.9	
07-02279-5 PSL 52-45	2 TEXAS AMER. 2	3395	715	0	0	0	0	0	0	0	0	0	0.0
0 0 0 0 0 0 0 0 0 0		0	0	0	0	0	0	0		579595.1		3487241.9	
07-02279-5 PSL 52-45	3 TEXAS AMER. 3	3430	710	0	0	0	0	0	0	0	0	0	0.1
0 0 0 0 0 0 0 0 0 0		0	0	0	0	0	0	0		579595.1		3487241.9	
07-02279-5 PSL 52-45	4 TEXAS AMER. 4	3480	705	0	0	0	0	0	0	0	0	0	0.0
0 0 0 0 0 0 0 0 0 0		0	0	0	0	0	0	0		579595.1		3487241.9	
07-02279-5 PSL 52-45	5 TEXAS AMER. 5	3480	705	0	0	0	0	0	0	0	0	0	0.1
0 0 0 0 0 0 0 0 0 0		0	0	0	0	0	0	0		579595.1		3487241.9	
07-02290-0 PSL 54-4	1 ARCO 1	3470	705	0	0	0	0	0	0	0	0	0	0.0
0 0 0 0 0 0 0 0 0 0		0	0	0	0	0	0	0		579643.8		3485669.6	
07-02294-6 PSL 54-8	1 ARCO 1	3500	1800	0	0	0	0	0	0	0	947	949	2.0
0 0 0 0 0 0 0 0 0 0		0	0	0	0	0	0	0		577985.5		3483996.6	
07-02302-6 PSL 54-16	1 HUMBLE 1	3530	1963	0	0	0	0	0	0	0	0	0	0.0
0 0 0 0 0 0 0 0 0 0		0	0	0	0	0	0	0		579776.9		3482339.4	
07-02302-6 PSL 54-16	2 HUMBLE 2	3540	1967	0	0	0	0	0	0	0	0	0	0.0
0 0 0 0 0 0 0 0 0 0		0	0	0	0	0	0	0		579776.9		3482339.4	
07-02305-3 PSL 54-18	1 DUVAL 3	3570	1040	0	0	0	0	0	0	0	0	0	0.1
0 0 0 0 0 0 0 0 0 0		0	0	0	0	0	0	0		576479.4		3482325.0	
07-02307-1 PSL 54-19	1 HUMBLE 1	3640	1870	0	0	0	0	0	0	0	0	0	0.0
0 0 0 0 0 0 0 0 0 0		0	0	0	0	0	0	0		576595.6		3480770.2	
07-02307-1 PSL 54-19	2 HUMBLE 2	3590	1957	0	0	0	0	0	0	0	0	0	0.0
0 0 0 0 0 0 0 0 0 0		0	0	0	0	0	0	0		576595.6		3480770.2	
07-02310-6 PSL 54-21	1 HUMBLE 1	3500	2090	0	0	0	0	0	0	0	0	0	0.0
0 0 0 0 0 0 0 0 0 0		0	0	0	0	0	0	0		579723.7		3480816.9	
07-02310-6 PSL 54-21	2 HUMBLE 2	3520	2060	0	0	0	0	0	0	0	0	0	0.0
0 0 0 0 0 0 0 0 0 0		0	0	0	0	0	0	0		579723.7		3480816.9	
07-02310-6 PSL 54-21	3 HUMBLE 3	3520	2006	0	0	0	0	0	0	0	0	0	0.0
0 0 0 0 0 0 0 0 0 0		0	0	0	0	0	0	0		579723.7		3480816.9	
07-02319-7 PSL 54-29	1 HUMBEL 1	3550	1980	0	0	0	0	0	0	0	0	0	0.0
0 0 0 0 0 0 0 0 0 0		0	0	0	0	0	0	0		578200.5		3479162.0	
07-02319-7 PSL 54-29	2 HUMBLE 2	3540	2010	0	0	0	0	0	0	0	0	0	0.0
0 0 0 0 0 0 0 0 0 0		0	0	0	0	0	0	0		578200.5		3479162.0	
07-02322-2 PSL 54-32	1 HUMBLE 1	3562	2260	0	0	0	0	0	0	0	0	0	0.0
0 0 0 0 0 0 0 0 0 0		0	0	0	0	0	0	0		578164.1		3477656.6	

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LEASE NO / TOP1	LOCATION / BOT1 / TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3 / TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE / Y	S THICK / NORTH	S
07-02322-2	PSL 54-32		2	HUMBLE 2				3550	2147	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0			578164.1		3477656.6		
07-02322-2	PSL 54-32		3	HUMBLE 3				3556	2070	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0			578164.1		3477656.6		
07-02328-6	PSL 54-37		1	FREEPORT 1				3369	1087	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0			584520.0		3476161.1		
07-02332-0	PSL 54-41		4	HUMBLE 1				3580	2290	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0			578213.3		3476033.6		
07-02332-0	PSL 54-41		5	HUMBLE 2				3620	2268	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0			578213.3		3476033.6		
07-02332-0	PSL 54-41		6	HUMBLE 3				3580	2271	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0			578213.3		3476033.6		
07-02359-8	PSL 55-30		1	FREEPORT 1				3310	1200	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0			586231.8		3479322.9		
07-02387-4	PSL 60-46		1	ARCO 1				3800	1900	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0			572053.2		3460484.4		
07-02388-3	PSL 61-1		1	HUMBLE 1				3846	2135	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0			565525.2		3458731.3		
07-02395-4	PSL 61-9		1	HUMBLE 1				3960	1305	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0			560771.9		3457079.5		
07-02399-0	PSL 61-13		1	HUMBLE 1				3840	1780	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0			565708.1		3455503.0		
07-02849-6	PSL 88-2		1	HUMBLE 1				4290	1195	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0			554165.9		3465320.2		
07-02874-4	PSL 89-7		1	HUMBLE 1				4260	1722	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0			557547.0		3463661.2		
07-02880-6	PSL 89-16		1	HUMBLE 1				4100	1770	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0			560606.8		3461999.1		
07-02887-9	PSL 89-21		1	HUMBLE 1				4300	1530	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0			560741.3		3460309.3		
07-03121-3	PSL 108-1		1	PRICKETT 1				3725	800	0	0	0	0	0	0	0	632	638	6.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0			564928.1		3500225.7		
07-03121-3	PSL 108-1		1	ARCO 3				3765	1135	0	0	0	0	0	0	0	460	780	105.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0			564928.1		3500225.7		
07-03121-3	PSL 108-1		2	ARCO 4				3790	705	0	0	0	0	0	0	0	190	560	46.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0			564928.1		3500225.7		
07-03121-3	PSL 108-1		1	CITIES CT-2				3780	748	0	0	0	0	0	0	0	405	720	45.0	

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / LOCATION	HOLE / OPERATOR NO	ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT / X	TOP S / EAST	BASE / Y	S THICK / NORTH
TOP1 BOT1 TOP2 BOT2	TOP3 BOT3 TOP4 BOT4 TOP5 BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8						
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			564928.1		3500225.7	
07-03121-3 PSL 108-1	1 DUVAL C 222	3738	725	0	0	0	0	0	0	0	185	316	17.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			564928.1		3500225.7	
07-03121-3 PSL 108-1	2 DUVAL C 206	3730	1210	0	0	0	0	0	0	0	335	340	5.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			564928.1		3500225.7	
07-03121-3 PSL 108-1	3 DUVAL C 192	3730	800	0	0	0	0	0	0	0	0	0	0.1
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			564928.1		3500225.7	
07-03122-2 PSL 108-2	1 ARCO 3	3750	1025	0	0	0	0	0	0	0	390	840	80.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			563253.7		3500243.6	
07-03122-2 PSL 108-2	2 ARCO 4	3780	928	0	0	0	0	0	0	0	240	910	75.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			563253.7		3500243.6	
07-03122-2 PSL 108-2	3 ARCO 5	3795	1035	0	0	0	0	0	0	0	140	1024	64.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			563253.7		3500243.6	
07-03122-2 PSL 108-2	2 CITIES CT-1	3810	717	0	0	0	0	0	0	0	0	0	0.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			563253.7		3500243.6	
07-03122-2 PSL 108-2	3 CITIES CT-2	3770	975	940	0	0	0	0	0	0	670	780	50.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			563253.7		3500243.6	
07-03123-1 PSL 108-3	1 ARCO 4	3760	880	0	0	0	0	0	0	0	250	470	100.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			561732.3		3500178.4	
07-03123-1 PSL 108-3	2 ARCO 5	3770	800	0	0	0	0	0	0	0	160	170	10.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			561732.3		3500178.4	
07-03123-1 PSL 108-3	3 ARCO 6	3830	735	0	0	0	0	0	0	0	500	660	75.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			561732.3		3500178.4	
07-03123-1 PSL 108-3	1 CITIES CT-1	3780	715	0	0	0	0	0	0	0	0	0	0.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			561732.3		3500178.4	
07-03123-1 PSL 108-3	2 CITIES CT-2	3790	872	855	0	0	0	0	0	0	510	666	70.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			561732.3		3500178.4	
07-03123-1 PSL 108-3	4 CITIES CT-3	3800	872	810	0	0	0	0	0	0	115	835	60.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			561732.3		3500178.4	
07-03124-0 PSL 108-4	1 ARCO 3	3860	740	0	0	0	0	0	0	0	0	0	0.1
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			560193.2		3500197.6	
07-03124-0 PSL 108-4	2 ARCO 4	3850	757	670	0	0	0	0	0	0	160	685	30.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			560193.2		3500197.6	
07-03124-0 PSL 108-4	3 ARCO 5	3850	705	0	0	0	0	0	0	0	270	390	30.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			560193.2		3500197.6	
07-03124-0 PSL 108-4	0 CITIES CT-1	3820	716	0	0	0	0	0	0	0	0	0	0.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			560193.2		3500197.6	

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1 / TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3 / TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE / Y	S THICK / NORTH	S
07-03124-0	PSL 108-4		0	CITIES CT-2				3860	724	650	0	0	0	0	0	0	99	682	5.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		560193.2		3500197.6		
07-03125-9	PSL 108-5		1	ARCO 3				3920	705	0	0	0	0	0	0	0	360	530	20.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		558417.9		3500163.8		
07-03125-9	PSL 108-5		2	ARCO 5				3920	705	0	0	0	0	0	0	0	170	340	80.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		558417.9		3500163.8		
07-03126-8	PSL 108-5		1	ARCO 4				3890	710	0	0	0	0	0	0	0	250	435	155.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		558417.9		3500163.8		
07-03126-8	PSL 108-5		0	CITIES CT-1				3901	715	585	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		558417.9		3500163.8		
07-03126-8	PSL 108-5		0	CITIES CT-2				3860	724	660	0	0	0	0	0	0	334	704	10.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		558417.9		3500163.8		
07-03127-7	PSL 108-6		1	TX GULF SULF 2-A				3960	554	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		556811.9		3500097.8		
07-03127-7	PSL 108-6		2	TX GULF SULF 1-A				3980	523	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		556811.9		3500097.8		
07-03128-6	PSL 108-7		1	TX GULF SULF 1-B				4030	355	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		555104.2		3500064.7		
07-03128-6	PSL 108-7		2	TX GULF SULF 2-B				4020	420	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		555104.2		3500064.7		
07-03135-7	PSL 108-13		3	ARCO 5				3910	705	0	0	0	0	0	0	0	140	510	150.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		563237.2		3498417.0		
07-03135-7	PSL 108-13		1	ARCO 3				3838	963	0	0	0	0	0	0	0	320	960	35.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		563237.2		3498417.0		
07-03135-7	PSL 108-13		2	ARCO 4				3940	1160	0	0	0	0	0	0	0	600	930	41.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		563237.2		3498417.0		
07-03135-7	PSL 108-13		0	CITIES CT-1				3910	715	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		563237.2		3498417.0		
07-03135-7	PSL 108-13		0	CITIES CT-2				3880	1110	1075	0	0	0	0	0	0	818	912	14.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		563237.2		3498417.0		
07-03136-6	PSL 108-14		1	PRICKETT 2				4060	800	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		564944.0		3498551.6		
07-03136-6	PSL 108-14		1	ARCO 1				3830	1232	0	0	0	0	0	0	0	300	1050	115.0	
460	465 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		564944.0		3498551.6		
07-03136-6	PSL 108-14		1	DUVAL C 223				3940	725	0	0	0	0	0	0	0	405	410	5.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		564944.0		3498551.6		
07-03136-6	PSL 108-14		2	DUVAL C 207				3880	705	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		564944.0		3498551.6		

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1 / TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3 / TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE / Y	S THICK / NORTH	S
07-03136-6	PSL 108-14		2	DUVAL C 207				3880	705	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			564944.0		3498551.6		
07-03136-6	PSL 108-14		3	DUVAL C 193				3930	800	0	0	0	0	0	0	0	353	370	8.0	
358	359 0	0	0	0 0	0	0	0	0	0	0	0	0	0			564944.0		3498551.6		
07-03137-5	PSL 108-15		2	ARCO 4				4000	1370	0	0	0	0	0	0	0	333	876	40.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			564908.7		3496927.8		
07-03137-5	PSL 108-15		1	ARCO 3				3930	1300	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			564908.7		3496927.8		
07-03137-5	PSL 108-15		1	ARCO 5				3875	1355	0	0	0	0	0	0	0	230	450	125.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			564908.7		3496927.8		
07-03137-5	PSL 108-15		2	ARCO 4				4000	1370	0	0	0	0	0	0	0	333	876	40.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			564908.7		3496927.8		
07-03137-5	PSL 108-15		0	CITIES CT-2				4040	725	0	0	215	0	0	0	0	440	666	6.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			564908.7		3496927.8		
07-03137-5	PSL 108-15		0	CITIES CT-1				3950	1460	1425	0	100	0	0	0	0	520	754	11.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			564908.7		3496927.8		
07-03138-4	PSL 108-16		1	PHILLIPS 6-1				4100	1415	0	0	65	0	0	0	0	1148	1193	0.0	
1151	1152 1165	1167	1173	1174 1177	1178	0	0	0	0	0	0	0	0			563251.4		3496929.0		
07-03138-4	PSL 108-16		2	PHILLIPS 10-1				4080	1345	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			563251.4		3496929.0		
07-03138-4	PSL 108-16		3	PHILLIPS 5-1				4080	1395	0	0	0	0	0	0	0	1380	1385	5.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			563251.4		3496929.0		
07-03138-4	PSL 108-16		4	PHILLIPS 23-1				4040	1355	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			563251.4		3496929.0		
07-03138-4	PSL 108-16		5	PHILLIPS 16-1				4000	1130	0	0	0	0	0	0	0	85	1130	2.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			563251.4		3496929.0		
07-03138-4	PSL 108-16		6	PHILLIPS 4-2				4100	1250	0	0	0	0	0	0	0	225	230	5.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			563251.4		3496929.0		
07-03158-9	PSL 108-28		1	PHILLIPS 14-1				4040	780	0	0	0	0	0	0	0	295	296	2.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			564957.1		3495389.3		
07-03158-9	PSL 108-28		2	PHILLIPS 30-1				3980	1475	1450	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			564957.1		3495389.3		
07-03158-9	PSL 108-28		3	PHILLIPS 23-1				4000	1336	0	0	0	0	0	0	0	1330	1336	6.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			564957.1		3495389.3		
07-03159-8	PSL 109-1		2	ARCO 2				3880	1210	0	0	0	0	0	0	0	580	1200	10.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			564985.1		3506686.3		
07-03159-8	PSL 109-1		3	ARCO 3				3860	1295	0	0	0	0	0	0	0	300	320	20.0	

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1	TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3	TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL	RUS / BOT8	SR	YAT TOP S / X EAST	BASE S / Y NORTH	THICK S
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		564985.1	3506686.3	
07-03159-8	PSL 109-1			4	ARCO 4					3865	1145	0	0	0	0	0	0	0 820	1130	20.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		564985.1	3506686.3	
07-03159-8	PSL 109-1			5	ARCO 5					3860	705	0	0	0	0	0	0	0 630	640	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		564985.1	3506686.3	
07-03159-8	PSL 109-1			1	ARCO 1					3896	700	0	0	0	0	0	0	0 475	630	15.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		564985.1	3506686.3	
07-03160-5	PSL 109-2			1	ARCO 1					3850	700	0	0	0	0	0	0	0 465	470	5.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		563395.6	3506671.2	
07-03160-5	PSL 109-2			72	ARCO 2					3850	1037	0	0	0	0	0	0	0 55	97	12.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		563395.6	3506671.2	
07-03160-5	PSL 109-2			3	ARCO 3					3860	1150	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		563395.6	3506671.2	
07-03160-5	PSL 109-2			4	ARCO 4					3860	1060	0	0	0	0	0	0	0 140	370	65.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		563395.6	3506671.2	
07-03160-5	PSL 109-2			5	ARCO 5					3840	705	0	0	0	0	0	0	0 160	420	40.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		563395.6	3506671.2	
07-03161-4	PSL 109-2			1	ARCO 1					3860	700	0	0	0	0	0	0	0 235	640	15.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		561772.4	3506638.8	
07-03161-4	PSL 109-3			3	ARCO 3					3870	850	0	0	0	0	0	0	0 80	485	405.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		561772.4	3506638.8	
07-03161-4	PSL 109-3			4	ARCO 4					3880	960	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		561772.4	3506638.8	
07-03161-4	PSL 109-3			5	ARCO 5					3860	830	0	0	0	0	0	0	0 200	210	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		561772.4	3506638.8	
07-03161-4	PSL 109-3			2	ARCO 2					3890	875	0	0	0	0	0	0	0 30	85	15.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		561772.4	3506638.8	
07-03162-3	PSL 109-4			1	ARCO 1					3920	700	0	0	0	0	0	0	0 165	270	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		560166.2	3506606.7	
07-03162-3	PSL 109-4			2	ARCO 2					3880	825	420	589	42	0	0	0	0 420	589	42.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		560166.2	3506606.7	
07-03162-3	PSL 109-4			3	ARCO 3					3930	770	0	0	0	0	0	0	0 100	120	20.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		560166.2	3506606.7	
07-03162-3	PSL 109-4			4	ARCO 4					3900	830	0	0	0	0	0	0	0 180	580	105.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		560166.2	3506606.7	
07-03162-3	PSL 109-4			5	ARCO 5					3980	805	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		560166.2	3506606.7	

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO	LOCATION		HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT TOP S	BASE S THICK S
TOP1	BOT1	TOP2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X EAST	Y NORTH
07-03163-2	PSL 109-5		2	ARCO 3					3990	700	0	0	0	0	0	0	0 75	515 10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558406.9	3506657.6
07-03163-2	PSL 109-5		3	ARCO 4					3940	705	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558406.9	3506657.6
07-03163-2	PSL 109-5		4	ARCO 5					3980	715	0	0	0	0	0	0	0 330	535 45.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558406.9	3506657.6
07-03163-2	PSL 109-5		5	ARCO 6					3920	705	0	0	0	0	0	0	0 440	690 70.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558406.9	3506657.6
07-03163-2	PSL 109-5		1	ARCO 1					3970	700	610	0	0	0	0	0	0 605	610 5.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558406.9	3506657.6
07-03164-1	PSL 109-6		2	ARCO 2					4015	700	0	0	0	0	0	0	0 435	610 105.0
530	551	0	0	0	0	0	0	0	0	0	0	0	0	0			556817.4	3506642.5
07-03164-1	PSL 109-6		4	ARCO 4					4000	705	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556817.4	3506642.5
07-03164-1	PSL 109-6		5	ARCO 5					4035	705	0	0	0	0	0	0	0 190	480 105.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556817.4	3506642.5
07-03164-1	PSL 109-6		1	ARCO 1					4040	700	560	0	0	0	0	0	0 35	40 5.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556817.4	3506642.5
07-03164-1	PSL 109-6		3	ARCO 3					4030	705	0	0	0	0	0	0	0 380	660 80.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556817.4	3506642.5
07-03165-0	PSL 109-7		1	ARCO 1					4140	743	570	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555211.6	3506559.6
07-03165-0	PSL 109-7		2	ARCO 2					4135	700	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555211.6	3506559.6
07-03165-0	PSL 109-7		3	ARCO 3					4060	500	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555211.6	3506559.6
07-03165-0	PSL 109-7		4	ARCO 4					4080	515	0	0	0	0	0	0	0 335	345 10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555211.6	3506559.6
07-03165-0	PSL 109-7		5	ARCO 5					4120	705	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555211.6	3506559.6
07-03165-0	PSL 109-7		6	ARCO 6					4115	705	0	0	0	0	0	0	0 370	380 10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555211.6	3506559.6
07-03166-9	PSL 109-8		1	ARCO 1					4030	700	445	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555158.6	3505020.2
07-03166-9	PSL 109-8		2	ARCO 2					4040	390	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555158.6	3505020.2
07-03166-9	PSL 109-8		3	ARCO 3					4000	0	0	0	0	0	0	0	0 352	395 43.0
352	374	0	0	0	0	0	0	0	0	0	0	0	0	0			555158.6	3505020.2

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO	LOCATION			HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT	TOP S	BASE S	THICK S
TOP1	BOT1	TOP2	BOT2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X	EAST	Y	NORTH
07-03166-9	PSL 109-8			4	ARCO 4					3980	1000	0	0	0	0	0	0	0	350	375	15.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555158.6		3505020.2	
07-03166-9	PSL 109-8			5	ARCO 5					4030	430	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555158.6		3505020.2	
07-03166-9	PSL 109-8			6	ARCO 6					4055	405	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555158.6		3505020.2	
07-03166-9	PSL 109-8			7	ARCO 7					4000	705	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555158.6		3505020.2	
07-03167-8	PSL 109-9			1	ARCO 1					3980	700	0	0	0	0	0	0	0	220	320	35.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556849.3		3505070.1	
07-03167-8	PSL 109-9			2	ARCO 2					3950	565	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556849.3		3505070.1	
07-03167-8	PLS 109-9			3	ARCO 3					4070	400	0	0	0	0	0	0	0	239	270	12.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556849.3		3505070.1	
07-03167-8	PSL 109-9			4	ARCO 4					3980	700	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556849.3		3505070.1	
07-03167-8	PSL 109-9			5	ARCO 5					3920	705	490	0	0	0	0	0	0	145	153	6.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556849.3		3505070.1	
07-03167-8	PSL 109-9			6	ARCO 6					3980	705	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556849.3		3505070.1	
07-03168-7	PSL 109-11			1	ARCO 1					3880	700	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			560146.2		3505152.1	
07-03168-7	PSL 109-11			2	ARCO 2					3870	800	0	0	0	0	0	0	0	45	665	35.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			560146.2		3505152.1	
07-03168-7	PSL 109-11			3	ARCO 3					3850	740	0	0	0	0	0	0	0	690	720	30.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			560146.2		3505152.1	
07-03168-7	PSL 109-11			4	ARCO 4					3876	705	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			560146.2		3505152.1	
07-03168-7	PSL 109-11			5	ARCO 5					3860	705	0	0	0	0	0	0	0	400	410	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			560146.2		3505152.1	
07-03169-6	PSL 109-12			1	ARCO 1					3800	700	0	0	0	0	0	0	0	205	555	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			561753.1		3505116.6	
07-03169-6	PSL 109-12			2	ARCO 2					3860	830	0	0	0	0	0	0	0	155	805	40.0
300	302	0	0	0	0	0	0	0	0	0	0	0	0	0	0			561753.1		3505116.6	
07-03169-6	PSL 109-12			3	ARCO 3					3860	835	0	0	0	0	0	0	0	100	535	235.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			561753.1		3505116.6	
07-03169-6	PSL 109-12			4	ARCO 4					3780	862	0	0	0	0	0	0	0	0	0	0.1

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1	TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3	TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL	RUS / BOT8	SR	YAT TOP S / X EAST	BASE S THICK S / Y NORTH
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		561753.1	3505116.6
07-03169-6	PSL 109-12			5	ARCO 5					3860	810	0	0	0	0	0	0	0 230	240 10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		561753.1	3505116.6
07-03170-3	PSL 109-13			1	ARCO 1					3790	700	0	0	0	0	0	0	0 155	550 110.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		563308.7	3505131.4
07-03170-3	PLS 109-13			2	ARCO 2					3780	920	0	0	0	0	0	0	0 720	730 10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		563308.7	3505131.4
07-03170-3	PSL 109-13			3	ARCO 3					3830	965	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		563308.7	3505131.4
07-03170-3	PSL 109-13			4	ARCO 4					3810	1000	0	0	0	0	0	0	0 70	210 25.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		563308.7	3505131.4
07-03170-3	PSL 109-13			5	ARCO 5					3780	705	0	0	0	0	0	0	0 130	580 113.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		563308.7	3505131.4
07-03171-2	PSL 109-14			1	ARCO 1					3966	700	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		564965.9	3505147.2
07-03171-2	PSL 109-14			2	ARCO 2					3900	1185	0	0	0	0	0	0	0 530	1180 20.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		564965.9	3505147.2
07-03171-2	PSL 109-14			3	ARCO 3					3900	1314	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		564965.9	3505147.2
07-03171-2	PSL 109-14			4	ARCO 4					3940	1325	0	0	0	0	0	0	0 560	740 130.0
590	595	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		564965.9	3505147.2
07-03171-2	PSL 109-14			5	ARCO 5					3940	705	0	0	0	0	0	0	0 337	700 158.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		564965.9	3505147.2
07-03173-0	PSL 109-16			1	ARCO 1					3720	700	0	0	0	0	0	0	0 275	560 20.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		563374.7	3503525.5
07-03173-0	PSL 109-16			2	ARCO 2					3720	854	0	0	0	0	0	0	0 140	837 7.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		563374.7	3503525.5
07-03173-0	PSL 109-16			3	ARCO 3					3740	905	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		563374.7	3503525.5
07-03173-0	PSL 109-16			4	ARCO 4					3760	960	0	0	0	0	0	0	0 530	535 5.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		563374.7	3503525.5
07-03173-0	PSL 109-16			5	ARCO 5					3760	705	0	0	0	0	0	0	0 20	171 51.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		563374.7	3503525.5
07-03174-9	PSL 109-17			1	ARCO 3					3720	775	0	0	0	0	0	0	0 100	210 40.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		561801.8	3503544.4
07-03174-9	PSL 109-17			2	ARCO 4					3780	776	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		561801.8	3503544.4

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1 / TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3 / TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE S / Y	THICK S / NORTH
07-03174-9	PSL 109-17		3	ARCO 5				3780	810	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			561801.8		3503544.4	
07-03174-9	PSL 109-17		0	CITIES CT-1				3740	840	0	0	0	0	0	0	0	260	390	30.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			561801.8		3503544.4	
07-03174-9	PSL 109-17		0	CITIES CT-2				3840	784	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			561801.8		3503544.4	
07-03175-8	PSL 109-18		2	ARCO 4				3880	710	0	0	0	0	0	0	0	470	655	55.0
640	645 0	0	0	0 0	0	0	0	0	0	0	0	0	0			560212.5		3503512.4	
07-03175-8	PSL 109-18		3	ARCO 5				3760	705	0	0	0	0	0	0	0	220	350	19.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			560212.5		3503512.4	
07-03175-8	PSL 109-18		1	ARCO 3				3870	705	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			560212.5		3503512.4	
07-03175-8	PSL 109-18		0	CITIES CT-1				3760	715	660	0	0	0	0	0	0	150	170	20.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			560212.5		3503512.4	
07-03175-8	PSL 109-18		0	CITIES CT-2				3800	720	630	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			560212.5		3503512.4	
07-03176-7	PSL 109-19		1	ARCO 5				3920	705	0	0	0	0	0	0	0	170	410	45.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			558521.7		3503479.4	
07-03176-7	PSL 109-19		2	ARCO 6				3820	710	0	0	0	0	0	0	0	140	490	3.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			558521.7		3503479.4	
07-03176-7	PSL 109-19		4	CITIES CT-4				3810	510	500	0	0	0	0	0	0	250	320	40.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			558521.7		3503479.4	
07-03176-7	PSL 109-19		3	ARCO 7				3870	705	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			558521.7		3503479.4	
07-03176-7	PSL 109-19		5	CITIES CT-1				3840	715	595	0	0	0	0	0	0	595	610	15.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			558521.7		3503479.4	
07-03176-7	PSL 109-19		6	CITIES CT-2				3810	563	540	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			558521.7		3503479.4	
07-03176-7	PSL 109-19		7	CITIES CT-3				3830	485	460	0	0	0	0	0	0	275	464	6.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			558521.7		3503479.4	
07-03177-6	PSL 109-20		1	ARCO 1				3935	700	440	0	0	0	0	0	0	60	450	25.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			556915.6		3503430.3	
07-03177-6	PSL 109-20		2	ARCO 2				3940	426	0	0	0	0	0	0	0	170	405	49.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			556915.6		3503430.3	
07-03177-6	PSL 109-20		3	ARCO 3				3940	400	0	0	0	0	0	0	0	149	151	3.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			556915.6		3503430.3	
07-03177-6	PSL 109-20		5	ARCO 5				3910	490	0	0	0	0	0	0	0	280	290	10.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			556915.6		3503430.3	

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OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1	TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3	TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT TOP S / X EAST	BASE S THICK S / Y NORTH
07-03177-6	PSL 109-20			4	ARCO 4					3940	470	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556915.6	3503430.3
07-03177-6	PSL 19-20			6	ARCO 6					3880	477	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556915.6	3503430.3
07-03177-6	PSL 109-20			7	ARCO 7					3940	445	0	0	0	0	0	0	0 230	445 15.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556915.6	3503430.3
07-03177-6	PSL 109-20			8	ARCO 8					3930	705	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556915.6	3503430.3
07-03178-5	PSL 109-21			1	ARCO 1					3990	700	375	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555224.8	3503397.3
07-03178-5	PSL 109-21			2	ARCO 2					4050	345	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555224.8	3503397.3
07-03178-5	PSL 109-21			3	ARCO 3					4000	402	0	0	0	0	0	0	0 355	398 43.0
355	376	390	398	0	0	0	0	0	0	0	0	0	0	0	0			555224.8	3503397.3
07-03178-5	PSL 109-21			4	ARCO 4					3980	420	0	0	0	0	0	0	0 310	380 25.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555224.8	3503397.3
07-03178-5	PSL 109-21			5	ARCO 5					4020	386	0	0	0	0	0	0	0 110	220 110.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555224.8	3503397.3
07-03178-5	PSL 109-21			6	ARCO 6					3990	391	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555224.8	3503397.3
07-03178-5	PSL 109-21			7	ARCO 7					4060	380	360	0	0	0	0	0	0 40	210 110.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555224.8	3503397.3
07-03178-5	PSL 109-21			8	ARCO 8					3990	705	0	0	0	0	0	0	0 330	425 65.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555224.8	3503397.3
07-03179-4	PSL 109-22			1	CITIES	CT-1				3990	715	420	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555239.5	3501841.6
07-03179-4	PSL 109-22			2	CITIES	CT-2				4030	365	320	0	0	0	0	0	0 27	64 8.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555239.5	3501841.6
07-03179-4	PSL 109-22			3	CITIES	CT-3				3990	398	0	0	0	0	0	0	0 390	398 8.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555239.5	3501841.6
07-03179-4	PSL 109-22			4	CITIES	CT-4				3990	480	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555239.5	3501841.6
07-03179-4	PSL 109-22			5	CITIES	CT-5				3980	463	0	0	0	0	0	0	0 380	430 40.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555239.5	3501841.6
07-03179-4	PSL 109-22			1	HARRIS & WALTON		CT-6			4000	360	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555239.5	3501841.6
07-03179-4	PSL 109-22			2	HARRIS & WALTON		CT-7			3980	360	0	0	0	0	0	0	0 250	251 1.0

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION BOT1	TOP2	BOT2	HOLE TOP3	OPERATOR NO BOT3	TOP4	BOT4	TOP5	BOT5	ELEV TOP6	TD BOT6	BC TOP7	TAN BOT7	CAS TOP8	SAL	RUS BOT8	SR	YAT TOP S X EAST	BASE S THICK S Y NORTH
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		555239.5	3501841.6
07-03180-1	PSL 109-23			1	CITIES CT-1					3980	715	580	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		556964.2	3501874.9
07-03180-1	PSL 109-23			2	CITIES CT-2					3880	480	450	0	0	0	0	0	0	80	114	14.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		556964.2	3501874.9
07-03180-1	PSL 109-23			3	CITIES CT-3					3985	520	490	0	0	0	0	0	0	155	198	2.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		556964.2	3501874.9
07-03180-1	PSL 109-23			1	HARRIS & WALTON	CT-6				3870	360	0	0	0	0	0	0	0	140	170	20.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		556964.2	3501874.9
07-03180-1	PSL 109-23			2	HARRIS & WALTON	CT-7				3980	360	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		556964.2	3501874.9
07-03180-1	PSL 109-23			3	HARRIS & WALTON	CT-5				3980	460	0	0	0	0	0	0	0	170	455	76.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		556964.2	3501874.9
07-03180-1	PSL 109-23			4	HARRIS & WALTON	CT-4				3990	465	0	0	0	0	0	0	0	270	280	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		556964.2	3501874.9
07-03181-0	PSL 109-24			1	ARCO 9					3880	705	0	0	0	0	0	0	0	490	640	60.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		558638.2	3501890.8
07-03181-0	PSL 109-24			2	ARCO 10					3900	710	0	0	0	0	0	0	0	160	510	80.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		558638.2	3501890.8
07-03181-0	PSL 109-24			3	ARCO 11					3940	705	0	0	0	0	0	0	0	400	510	70.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		558638.2	3501890.8
07-03181-0	PSL 109-24			1	CITIES CT-1					3780	715	580	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		558638.2	3501890.8
07-03181-0	PSL 109-24			2	CITIES CT-2					3820	540	470	0	0	0	0	0	0	301	307	6.0
301	307	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		558638.2	3501890.8
07-03181-0	PSL 109-24			3	CITIES CT-3					3820	510	450	0	0	0	0	0	0	469	481	12.0
469	481	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		558638.2	3501890.8
07-03181-0	PSL 109-24			4	CITIES CT-4					3810	511	440	0	0	0	0	0	0	242	385	46.0
316	322	450	456	482	485	0	0	0	0	0	0	0	0	0	0	0		558638.2	3501890.8
07-03181-0	PSL 109-24			5	CITIES CT-5					3820	498	450	0	0	0	0	0	0	448	474	16.0
450	459	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		558638.2	3501890.8
07-03181-0	PSL 109-24			6	CITIES CT-6					3810	516	490	0	0	0	0	0	0	200	494	55.0
310	315	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		558638.2	3501890.8
07-03181-0	PSL 109-24			7	CITIES CT-7					3800	531	480	0	0	0	0	0	0	160	506	5.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		558638.2	3501890.8
07-03181-0	PSL 109-24			8	CITIES CT-8					3830	480	460	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		558638.2	3501890.8

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO	LOCATION			HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT	TOP S	BASE S	THICK S
TOP1	BOT1	TOP2	BOT2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X	EAST	Y	NORTH
07-03182-9	PSL 109-25			1	ARCO 3					3850	705	0	0	0	0	0	0	0	360	370	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			560160.4		3501871.5	
07-03182-9	PSL 109-25			2	ARCO 4					3780	710	0	0	0	0	0	0	0	450	680	20.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			560160.4		3501871.5	
07-03182-9	PSL 109-25			3	ARCO 5					3775	705	0	0	0	0	0	0	0	170	180	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			560160.4		3501871.5	
07-03182-9	PSL 109-25			1	CITIES	CT-1A				3810	722	0	0	0	0	0	0	0	551	719	5.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			560160.4		3501871.5	
07-03182-9	PSL 109-25			2	CITIES	CT-2				3760	730	590	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			560160.4		3501871.5	
07-03183-8	PSL 109-26			1	ARCO 3					3720	775	0	0	0	0	0	0	0	550	560	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			561698.9		3501919.9	
07-03183-8	PSL 109-26			2	ARCO 4					3730	762	0	0	0	0	0	0	0	60	290	90.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			561698.9		3501919.9	
07-03183-8	PSL 109-26			3	ARCO 5					3740	755	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			561698.9		3501919.9	
07-03183-8	PSL 109-26			1	CITIES	CT-1				3750	715	670	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			561698.9		3501919.9	
07-03183-8	PSL 109-26			2	CITIES	CT-2				3770	769	735	0	0	0	0	0	0	465	755	50.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			561698.9		3501919.9	
07-03184-7	PSL 109-27			1	ARCO 3					3740	900	0	0	0	0	0	0	0	610	890	40.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			563339.4		3501901.7	
07-03184-7	PSL 109-27			2	ARCO 4					3760	910	900	0	0	0	0	0	0	240	310	20.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			563339.4		3501901.7	
07-03184-7	PSL 109-27			3	ARCO 5					3740	935	0	0	0	0	0	0	0	220	260	30.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			563339.4		3501901.7	
07-03184-7	PSL 109-27			1	CITIES	CT-1				3715	715	0	0	0	0	0	0	0	90	100	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			563339.4		3501901.7	
07-03184-7	PSL 109-27			2	CITIES	CT-2				3750	885	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			563339.4		3501901.7	
07-03185-6	PSL 109-28			1	ARCO 6					3700	944	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			564962.8		3501917.1	
07-03185-6	PSL 109-28			2	ARCO 7					3800	1232	1215	0	0	0	0	0	0	300	860	105.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			564962.8		3501917.1	
07-03185-6	PSL 109-28			3	ARCO 8					3720	970	0	0	0	0	0	0	0	300	330	20.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			564962.8		3501917.1	
07-03185-6	PSL 109-28			1	CITIES	CT-1				3720	1061	1030	0	0	0	0	0	0	76	725	268.0
200	205	272	278	338	348	364	374	379	384	389	394	410	415	535	539			564962.8		3501917.1	

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1 / TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3 / TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE S / Y	THICK S / NORTH
07-03185-6	PSL 109-28		2	CITIES CT-2				3740	1120	1095	0	0	0	0	0	0	290	300	10.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		564962.8		3501917.1	
07-03185-6	PSL 109-28		3	CITIES CT-3				3700	808	0	0	0	0	0	0	0	320	330	10.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		564962.8		3501917.1	
07-03185-6	PSL 109-28		4	CITIES CT-4				3760	1000	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		564962.8		3501917.1	
07-03185-6	PSL 109-28		5	CITIES CT-5				3700	850	0	0	0	0	0	0	0	358	587	69.0
402	407 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		564962.8		3501917.1	
07-03186-5	PSL 110-1		1	ARCO 1				3620	1200	0	0	390	0	0	0	0	1150	1155	5.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		574708.1		3506778.6	
07-03186-5	PSL 110-1		2	ARCO 2				3580	1200	0	0	0	0	0	0	0	635	895	20.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		574708.1		3506778.6	
07-03186-5	PSL 110-1		3	ARCO 3				3620	1500	0	0	0	0	0	0	0	900	1240	20.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		574708.1		3506778.6	
07-03186-5	PSL 110-1		4	ARCO 4				3660	1000	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		574708.1		3506778.6	
07-03204-3	PSL 110-13		1	ARCO 1				3450	1200	0	0	320	0	0	0	0	450	485	20.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		574670.9		3503582.1	
07-03204-3	PSL 110-13		2	ARCO 2				3435	1000	0	0	0	0	0	0	0	735	975	10.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		574670.9		3503582.1	
07-03204-3	PSL 110-13		3	ARCO 3				3430	1788	0	0	0	0	0	0	0	405	680	35.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		574670.9		3503582.1	
07-03204-3	PSL 110-13		5	ARCO 5				3480	1725	0	0	0	0	0	0	0	1	650	140.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		574670.9		3503582.1	
07-03204-3	PSL 110-13		4	ARCO 4				3446	1914	1720	0	230	0	0	0	0	450	1900	75.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		574670.9		3503582.1	
07-03205-2	PSL 110-14		1	TX GULF SULF 6-K				3470	1705	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		573081.2		3503583.9	
07-03205-2	PSL 110-14		2	TX GULF SULF 7-K				3465	1737	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		573081.2		3503583.9	
07-03205-2	PSL 110-14		3	TX GULF SULF 8-K				3460	1770	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		573081.2		3503583.9	
07-03205-2	PSL 110-14		4	TX GULF SULF 9-K				3455	1721	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		573081.2		3503583.9	
07-03205-2	PSL 110-14		5	TX GULF SULF 10-K				3470	1710	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		573081.2		3503583.9	
07-03205-2	PSL 110-14		6	TX GULF SULF 11-K				3460	1760	0	0	0	0	0	0	0	0	0	0.0

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1	TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3	TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT TOP S / X EAST	BASE S THICK S / Y NORTH
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			573081.2	3503583.9
07-03205-5	PSL 110-12			1	ARCO 1					3510	1200	0	0	415	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			574671.6	3505290.1
07-03205-5	PSL 110-12			2	ARCO 2					3445	1000	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			574671.6	3505290.1
07-03205-5	PSL 110-12			3	ARCO 4					3480	1000	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			574671.6	3505290.1
07-03205-5	PSL 110-12			4	ARCO 5					3515	705	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			574671.6	3505290.1
07-03206-1	PSL 110-14			1	TX GULF SULF 3-K					3540	1715	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			573081.2	3503583.9
07-03206-1	PSL 110-14			2	TX GULF SULF 4-K					3480	1706	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			573081.2	3503583.9
07-03206-1	PSL 110-14			3	TX GULF SULF 5-K					3475	1725	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			573081.2	3503583.9
07-03207-0	PSL 110-15			1	TX GULF SULF 1-J					3570	1650	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571423.7	3503602.0
07-03207-0	PSL 110-15			3	TX GULF SULF 3-J					3550	1654	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571423.7	3503602.0
07-03207-0	PSL 110-15			2	TX GULF SULF 2-J					3550	1660	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571423.7	3503602.0
07-03211-4	PSL 110-19			1	TEXAS LAND 1-5					3680	565	0	0	0	0	0	0	0 230	565 56.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			566687.4	3501950.4
07-03213-2	PSL 110-21			1	TX GULF SULF 1-F					3620	1605	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			569799.1	3501946.1
07-03213-2	PSL 110-21			2	TX GULF SULF 2-F					3620	1575	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			569799.1	3501946.1
07-03213-2	PSL 110-21			3	TX GULF SULF 3-F					3700	1550	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			569799.1	3501946.1
07-03214-1	PSL 110-22			1	TX GULF SULF 1-G					3500	1610	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571439.3	3501961.7
07-03214-1	PSL 110-22			2	TX GULF SULF 2-G					3550	1683	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571439.3	3501961.7
07-03214-1	PSL 110-22			3	TX GULF SULF 24-G					3560	1627	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571439.3	3501961.7
07-03214-1	PSL 110-22			4	TX GULF SULF 23-G					3560	1679	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571439.3	3501961.7

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO	LOCATION			HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT	TOP S	BASE S	THICK S
TOP1	BOT1	TOP2	BOT2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X	EAST	Y	NORTH
07-03214-1	PSL 110-22			5	TX GULF	SULF	22-G			3550	1685	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571439.3		3501961.7	
07-03214-1	PSL 110-22			6	TX GULF	SULF	6-K			0	1705	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571439.3		3501961.7	
07-03214-1	PSL 110-22			7	TX GULF	SULF	21-G			3520	1709	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571439.3		3501961.7	
07-03214-1	PSL 110-22			8	TX GULF	SULF	17-G			3550	1640	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571439.3		3501961.7	
07-03214-1	PSL 110-22			9	TX GULF	SULF	16-G			3540	1645	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571439.3		3501961.7	
07-03214-1	PSL 110-22			10	TX GULF	SULF	15-G			3555	1640	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571439.3		3501961.7	
07-03214-1	PSL 110-22			11	TX GULF	SULF	14-G			3565	1680	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571439.3		3501961.7	
07-03214-1	PSL 110-22			12	TX GULF	SULF	13-G			3530	1655	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571439.3		3501961.7	
07-03214-1	PSL 110-22			13	TX GULF	SULF	12-G			3540	1644	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571439.3		3501961.7	
07-03214-1	PSL 110-22			14	TX GULF	SULF	11-H			3575	1680	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571439.3		3501961.7	
07-03214-1	PSL 110-22			15	TX GULF	SULF	11-G			3500	1620	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571439.3		3501961.7	
07-03214-1	PSL 110-22			16	TX GULF	SULF	8-G			3540	1693	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571439.3		3501961.7	
07-03214-1	PSL 110-22			17	TX GULF	SULF	7-G			3520	1715	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571439.3		3501961.7	
07-03214-1	PSL 110-22			18	TX GULF	SULF	6-G			3510	1710	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571439.3		3501961.7	
07-03214-1	PSL 110-22			19	TX GULF	SULF	3-G			3560	1635	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571439.3		3501961.7	
07-03215-0	PSL 110-23			1	TX GULF	SULF	1-H			3490	1695	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			573028.5		3502010.6	
07-03215-0	PSL 110-23			2	TX GULF	SULF	16-H			3470	1755	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			573028.5		3502010.6	
07-03215-0	PSL 110-23			3	TX GULF	SULF	15-H			3480	1712	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			573028.5		3502010.6	
07-03215-0	PSL 110-23			4	TX GULF	SULF	14-H			3485	1670	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			573028.5		3502010.6	

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OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1 / TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3 / TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE / Y	S THICK / NORTH	S
07-03215-0	PSL 110-23		5	TX GULF SULF 13-H				3490	1730	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			573028.5		3502010.6		
07-03215-0	PSL 110-23		6	TX GULF SULF 12-H				3510	1670	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			573028.5		3502010.6		
07-03215-0	PSL 110-23		7	TX GULF SULF 10-H				3490	1660	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			573028.5		3502010.6		
07-03215-0	PSL 110-23		8	TX GULF SULF 8-H				3510	1675	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			573028.5		3502010.6		
07-03215-0	PSL 110-23		9	TX GULF SULF 7-H				3500	1630	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			573028.5		3502010.6		
07-03215-0	PSL 110-23		10	TX GULF SULF 6-H				3490	1667	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			573028.5		3502010.6		
07-03215-0	PSL 110-23		11	TX GULF SULF 5-H				3490	1680	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			573028.5		3502010.6		
07-03215-0	PSL 110-23		12	TX GULF SULF 4-H				3500	1740	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			573028.5		3502010.6		
07-03215-0	PSL 110-23		13	TX GULF SULF 3-H				3500	1740	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			573028.5		3502010.6		
07-03215-0	PSL 110-23		14	TX GULF SULF 2-H				3490	1735	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			573028.5		3502010.6		
07-03216-9	PSL 110-24		1	ARCO 1				3500	1200	0	0	410	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			574753.1		3502043.9		
07-03216-9	PSL 110-24		2	ARCO 3				3490	1857	0	0	0	0	0	0	0	740	1790	70.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			574753.1		3502043.9		
07-03216-9	PSL 110-24		3	ARCO 4				3520	1200	0	0	0	0	0	0	0	660	980	25.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			574753.1		3502043.9		
07-03217-8	PSL 110-24		1	ARCO 5				3490	705	0	0	0	0	0	0	0	170	540	50.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			574753.1		3502043.9		
07-03218-7	PSL 110-25		2	ARCO 2				3580	1200	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			574687.5		3500047.8		
07-03218-7	PSL 110-25		3	ARCO 3				3640	725	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			574687.5		3500047.8		
07-03218-7	PSL 110-25		4	ARCO 4				3620	705	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			574687.5		3500047.8		
07-03218-7	PSL 110-25		1	ARCO 1				3630	1200	0	0	640	0	0	0	0	975	1145	15.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			574687.5		3500047.8		
07-03219-6	PSL 110-26		1	HUMBLE 1				3500	1690	0	0	0	0	0	0	0	0	0	0.0	

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LEASE NO	LOCATION			HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT TOP S	BASE S	THICK S
TOP1	BOT1	TOP2	BOT2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X EAST	Y NORTH	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			573097.5	3500083.4	
07-03219-6	PSL 110-26			2	HUMBLE 2					3510	1691	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			573097.5	3500083.4	
07-03219-6	PSL 110-26			3	HUMBLE 3					3520	1693	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			573097.5	3500083.4	
07-03219-6	PSL 110-26			4	HUMBLE 4					3520	1692	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			573097.5	3500083.4	
07-03219-6	PSL 110-26			5	HUMBLE 5					3530	1680	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			573097.5	3500083.4	
07-03219-6	PSL 110-26			6	HUMBLE 6					3540	1696	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			573097.5	3500083.4	
07-03219-6	PSL 110-26			7	HUMBLE 7					3540	1730	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			573097.5	3500083.4	
07-03220-3	PSL 110-27			1	TX GULF SULF 3-D					3550	1635	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571472.6	3500237.1	
07-03220-3	PSL 110-27			2	TX GULF SULF 5-D					3520	1630	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571472.6	3500237.1	
07-03220-3	PSL 110-27			3	TX GULF SULF 1-D					3570	1590	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571472.6	3500237.1	
07-03221-2	PSL100-28			1	HUMBLE 1					3600	1582	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			569782.0	3500187.2	
07-03222-1	PSL 110-29			2	HUMBLE 1					3690	1485	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568141.2	3500222.4	
07-03222-1	PSL 110-29			3	HUMBLE 2					3685	1553	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568141.2	3500222.4	
07-03222-1	PSL 110-29			4	HUMBLE 3					3700	1495	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568141.2	3500222.4	
07-03222-1	PSL 110-29			5	HUMBLE 4					3710	1466	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568141.2	3500222.4	
07-03223-0	PSL 110-30			1	HUMBLE 1					3720	1400	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			566618.7	3500275.5	
07-03224-9	PSL 111-1			1	DUVAL 34					3230	1000	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			584362.8	3506954.9	
07-03224-9	PSL 111-1			2	DUVAL 1					3184	727	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			584362.8	3506954.9	
07-03224-9	PSL 111-1			3	DUVAL C 196					3180	1040	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			584362.8	3506954.9	

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OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

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LEASE NO	LOCATION			HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT TOP S	BASE S	THICK S
TOP1	BOT1	TOP2	BOT2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X EAST	Y NORTH	
07-03224-9	PSL 111-1			1	DUVAL C 212					3210	725	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			584362.8	3506954.9	
07-03224-9	PSL 111-1			2	DUVAL C233A					3183	725	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			584362.8	3506954.9	
07-03225-8	PSL 111-2			1	DUVAL C 145					3194	900	0	0	0	0	0	0	0 290	300	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582739.8	3506905.7	
07-03225-8	PSL 111-2			2	DUVAL 164					3225	900	0	0	0	0	0	0	0 320	555	70.0
520	535	545	555	0	0	0	0	0	0	0	0	0	0	0	0			582739.8	3506905.7	
07-03225-8	PSL 111-2			3	DUVAL C 167					3211	900	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582739.8	3506905.7	
07-03225-8	PSL 111-2			4	DUVAL C 168					3226	900	0	0	0	0	0	0	0 400	405	5.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582739.8	3506905.7	
07-03225-8	PSL 111-2			5	DUVAL C 174					3215	900	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582739.8	3506905.7	
07-03225-8	PSL 111-2			6	DUVAL C 175					3217	923	0	0	0	0	0	0	0 309	322	3.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582739.8	3506905.7	
07-03225-8	PSL 111-2			7	DUVAL C 179					3210	900	0	0	0	0	0	0	0 310	425	35.0
310	320	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582739.8	3506905.7	
07-03225-8	PSL 111-2			8	DUVAL C 181					3200	900	0	0	0	0	0	0	0 171	405	17.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582739.8	3506905.7	
07-03225-8	PSL 111-2			9	DUVAL C182					3200	900	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582739.8	3506905.7	
07-03225-8	PSL 111-2			10	DUVAL C185					3212	900	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582739.8	3506905.7	
07-03225-8	PSL 111-2			11	DUVAL C214					3218	725	0	0	0	0	0	0	0 378	452	74.0
378	452	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582739.8	3506905.7	
07-03225-8	PSL 111-2			12	DUVAL C213					3180	725	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582739.8	3506905.7	
07-03225-8	PSL 111-2			13	DUVAL C234					3220	725	0	0	0	0	0	0	0 352	462	55.0
434	460	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582739.8	3506905.7	
07-03225-8	PSL 111-2			14	DUVAL C235					3226	725	0	0	0	0	0	0	0 372	539	56.0
503	523	535	537	0	0	0	0	0	0	0	0	0	0	0	0			582739.8	3506905.7	
07-03225-8	PSL 111-2			15	DUVAL C8					3200	1450	0	0	0	0	0	0	0 0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582739.8	3506905.7	
07-03225-8	PSL 111-2			16	DUVAL 7					3230	830	0	0	0	0	0	0	0 390	480	79.0
405	480	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582739.8	3506905.7	
07-03225-8	PSL 111-2			17	DUVAL C129					3226	900	0	0	0	0	0	0	0 255	365	110.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582739.8	3506905.7	

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1 / TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3 / TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE S / Y	THICK S / NORTH
07-03225-8	PSL 111-2		18	DUVAL C186				3198	900	0	0	0	0	0	0	0	260	275	15.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		582739.8		3506905.7	
07-03225-8	PSL 111-2		19	DUVAL C195				3200	900	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		582739.8		3506905.7	
07-03225-8	PSL 111-2		20	DUVAL C197				3227	960	0	0	0	0	0	0	0	100	865	229.0
100	105 486	560	0	0 0	0	0	0	0	0	0	0	0	0	0		582739.8		3506905.7	
07-03225-8	PSL 111-2		21	DUVAL C198				3211	950	0	0	0	0	0	0	0	160	165	5.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		582739.8		3506905.7	
07-03226-7	PSL 111-4		1	DUVAL C216				3314	725	0	0	0	0	0	0	0	650	725	20.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		579493.1		3506874.8	
07-03226-7	PSL 111-4		2	DUVAL 1				3320	1400	0	0	0	0	0	0	0	990	1115	7.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		579493.1		3506874.8	
07-03226-7	PSL 111-4		3	DUVAL C236				3329	750	0	0	0	0	0	0	0	245	741	111.0
245	247 249	251	330	350 354	378	735	741	0	0	0	0	0	0	0		579493.1		3506874.8	
07-03226-7	PSL 111-4		4	DUVAL C199				3395	710	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		579493.1		3506874.8	
07-03226-7	PSL 111-4		5	DUVAL 23				3380	800	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		579493.1		3506874.8	
07-03227-6	PSL 111-4		1	DUVAL 16				3275	750	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		579493.1		3506874.8	
07-03227-6	PSL 111-4		2	DUVAL C158A				3290	900	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		579493.1		3506874.8	
07-03227-6	PSL 111-4		3	DUVAL C158				3290	342	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		579493.1		3506874.8	
07-03227-6	PSL 111-4		4	DUVAL C135				3270	900	0	0	0	0	0	0	0	339	355	16.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		579493.1		3506874.8	
07-03229-4	PSL 111-6		1	ARCO 1				3620	1110	0	0	0	0	0	0	0	1005	1015	10.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		576415.9		3506811.8	
07-03229-4	PSL 111-6		3	ARCO 3				3580	1130	0	0	0	0	0	0	0	730	920	30.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		576415.9		3506811.8	
07-03229-4	PSL 111-6		4	ARCO 4				3550	705	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		576415.9		3506811.8	
07-03229-4	PSL 111-6		2	ARCO 2				3620	907	0	0	0	0	0	0	0	840	850	10.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		576415.9		3506811.8	
07-03230-1	PSL 111-7		4	ARCO 4				3540	2055	2035	0	640	290	0	0	0	990	1420	30.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		576379.6		3505289.4	
07-03230-1	PSL 111-7		1	ARCO 1				3435	935	0	0	0	0	0	0	0	820	825	5.0

ASSESSMENT OF NATIVE SULFUR POTENTIAL
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LEASE NO	LOCATION			HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT TOP S	BASE S THICK S
TOP1	BOT1	TOP2	BOT2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X EAST	Y NORTH
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			576379.6	3505289.4
07-03231-0	PSL 111-7			1	ARCO 2					3350	1600	0	0	0	0	0	0	0 700	965 10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			576379.6	3505289.4
07-03231-0	PSL 111-7			2	ARCO 3					3380	1000	0	0	660	95	0	0	0 500	930 60.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			576379.6	3505289.4
07-03231-0	PSL 111-7			1	ARCO 5					3350	705	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			576379.6	3505289.4
07-03232-4	PSL 111-8			1	ARCO 4					3365	1200	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			577969.3	3505287.6
07-03233-8	PSL 111-8			1	ARCO 2					3310	1000	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			577969.3	3505287.6
07-03233-8	PSL 111-8			2	ARCO 3					3335	1000	0	0	0	0	0	0	0 960	970 10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			577969.3	3505287.6
07-03233-8	PSL 111-8			3	ARCO 5					3320	705	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			577969.3	3505287.6
07-03234-7	PSL 111-9			1	DUVAL C-91					3268	1500	0	0	0	0	0	0	0 360	528 152.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579592.1	3505353.8
07-03234-7	PSL 111-9			2	DUVAL 161					3320	900	0	0	0	0	0	0	0 825	830 5.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579592.1	3505353.8
07-03234-7	PSL 111-9			3	DUVAL 166					3350	653	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579592.1	3505353.8
07-03234-7	PSL 111-9			4	DUVAL 200A					3310	925	0	0	0	0	0	0	0 694	860 11.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579592.1	3505353.8
07-03234-7	PSL 111-9			5	DUVAL C24					3300	800	0	0	0	0	0	0	0 440	780 80.0
564	600	760	780	0	0	0	0	0	0	0	0	0	0	0	0			579592.1	3505353.8
07-03234-7	PSL 111-9			6	DUVAL C10					3270	1282	0	0	0	0	0	0	0 552	1252 453.0
581	657	868	876	880	884	940	948	984	1144	1217	1252	0	0	0	0			579592.1	3505353.8
07-03234-7	PSL 111-9			7	DUVAL C128					3271	1531	0	0	0	0	0	0	0 540	1497 229.0
540	626	864	872	901	921	974	981	1057	1087	1469	1481	0	0	0	0			579592.1	3505353.8
07-03234-7	PSL 111-9			8	DUVAL C134					3292	900	0	0	0	0	0	0	0 820	830 10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579592.1	3505353.8
07-03234-7	PSL 111-9			9	DUVAL C117					3274	900	0	0	0	0	0	0	0 346	456 108.0
346	456	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579592.1	3505353.8
07-03234-7	PSL 111-9			10	DUVAL C94A					3296	950	0	0	0	0	0	0	0 350	930 52.0
360	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579592.1	3505353.8
07-03234-7	PSL 111-9			11	DUVAL C94					3296	265	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579592.1	3505353.8

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1 / TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3 / TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE S / Y	THICK S / NORTH
07-03234-7	PSL 111-9		13	DUVAL C103				3278	900	0	0	0	0	0	0	0	358	491	133.0
358	491 0	0	0	0 0	0	0	0	0	0	0	0	0	0			579592.1		3505353.8	
07-03234-7	PSL 111-9		14	DUVAL C99				3284	1500	0	0	0	0	0	0	0	423	841	120.0
423	433 445	451	493	495 507	515	525	563	829	835	0	0	0	0			579592.1		3505353.8	
07-03234-7	PSL 111-9		15	DUVAL C91				3270	1500	0	0	0	0	0	0	0	350	530	160.0
350	370 390	524	0	0 0	0	0	0	0	0	0	0	0	0			579592.1		3505353.8	
07-03234-7	PSL 111-9		12	DUVAL C165				3304	900	0	0	0	0	0	0	0	620	770	20.0
760	770 0	0	0	0 0	0	0	0	0	0	0	0	0	0			579592.1		3505353.8	
07-03235-6	PSL 111-9		1	DUVAL 120				3294	465	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			579592.1		3505353.8	
07-03235-6	PSL 111-9		2	DUVAL 139				3280	900	0	0	0	0	0	0	0	476	594	118.0
476	592 0	0	0	0 0	0	0	0	0	0	0	0	0	0			579592.1		3505353.8	
07-03235-6	PSL 111-9		3	DUVAL 154				3290	900	0	0	0	0	0	0	0	845	857	12.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			579592.1		3505353.8	
07-03235-6	PSL 111-9		4	DUVAL C143				3298	900	0	0	0	0	0	0	0	745	815	10.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			579592.1		3505353.8	
07-03235-6	PSL 111-9		5	DUVAL C131				3286	900	0	0	0	0	0	0	0	680	682	2.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			579592.1		3505353.8	
07-03235-6	PSL 111-9		6	DUVAL C120A				3294	900	0	0	0	0	0	0	0	460	539	79.0
460	537 0	0	0	0 0	0	0	0	0	0	0	0	0	0			579592.1		3505353.8	
07-03235-6	PSL 111-9		7	DUVAL C111				3270	1200	0	0	0	0	0	0	0	620	656	36.0
650	654 0	0	0	0 0	0	0	0	0	0	0	0	0	0			579592.1		3505353.8	
07-03235-6	PSL 111-9		8	DUVAL C183				3350	900	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			579592.1		3505353.8	
07-03235-6	PSL 111-9		9	DUVAL C137				3331	1100	0	0	0	0	0	0	0	282	818	21.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			579592.1		3505353.8	
07-03235-6	PSL 111-9		10	DUVAL C106				3287	1900	0	0	0	0	0	0	0	625	882	137.0
625	631 668	692	740	744 750	772	880	882	0	0	0	0	0	0			579592.1		3505353.8	
07-03235-6	PSL 111-9		11	DUVAL C97				3280	1300	0	0	0	0	0	0	0	615	643	28.0
615	641 0	0	0	0 0	0	0	0	0	0	0	0	0	0			579592.1		3505353.8	
07-03235-6	PSL 111-9		12	DUVAL C96				3306	1500	0	0	0	0	0	0	0	602	652	48.0
644	650 0	0	0	0 0	0	0	0	0	0	0	0	0	0			579592.1		3505353.8	
07-03235-6	PSL 111-9		13	DUVAL C76				3270	1500	0	0	0	0	0	0	0	428	942	27.0
438	444 0	0	0	0 0	0	0	0	0	0	0	0	0	0			579592.1		3505353.8	
07-03235-6	PSL 111-9		14	DUVAL C123				3280	900	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			579592.1		3505353.8	
07-03235-6	PSL 111-9		15	DUVAL C122				3280	900	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			579592.1		3505353.8	

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1	TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3	TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE S / Y	THICK S / NORTH
07-03235-6	PSL 111-9			16	DUVAL	C108				3294	901	0	0	0	0	0	0	0	585	595	10.0
585	595	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579592.1		3505353.8	
07-03235-6	PSL 111-9			17	DUVAL	C237				3279	725	0	0	0	0	0	0	0	400	648	110.0
472	476	644	646	0	0	0	0	0	0	0	0	0	0	0	0			579592.1		3505353.8	
07-03235-6	PSL 111-9			18	DUVAL	C105				3270	900	0	0	0	0	0	0	0	653	795	10.0
653	661	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579592.1		3505353.8	
07-03235-6	PSL 111-9			19	DUVAL	217				3270	725	0	0	0	0	0	0	0	626	642	16.0
626	642	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579592.1		3505353.8	
07-03236-5	PSL 111-10			1	DUVAL	70				3235	1200	0	0	0	0	0	0	0	400	569	169.0
400	569	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03236-5	PSL 111-10			2	DUVAL	69				3245	1200	0	0	0	0	0	0	0	363	609	208.0
363	392	411	421	440	609	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03236-5	PSL 111-10			3	DUVAL	C-67				3249	1200	0	0	0	0	0	0	0	338	630	292.0
338	530	534	622	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03236-5	PSL 111-10			4	DUVAL	55				3230	1205	0	0	0	0	0	0	0	460	552	92.0
460	552	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03236-5	PSL 111-10			5	DUVAL	54				3250	1205	0	0	0	0	0	0	0	492	611	75.0
494	509	518	550	573	610	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03236-5	PSL 111-10			6	DUVAL	S-1				3250	620	0	0	0	0	0	0	0	382	571	189.0
382	571	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03236-5	PSL 111-10			7	DUVAL	2(67)				3240	1031	0	0	0	0	0	0	0	293	654	361.0
293	654	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03236-5	PSL 111-10			8	DUVAL	116				3274	387	0	0	0	0	0	0	0	335	384	49.0
335	384	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03236-5	PSL 111-10			9	DUVAL	S-2				3250	585	0	0	0	0	0	0	0	375	584	210.0
375	584	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03236-5	PSL 111-10			10	DUVAL	61				3264	1200	0	0	0	0	0	0	0	364	509	145.0
364	509	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03236-5	PSL 111-10			11	DUVAL	C-64				3260	1200	0	0	0	0	0	0	0	351	550	188.0
376	550	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03236-5	PSL 111-10			12	DUVAL	58				3240	1200	0	0	0	0	0	0	0	250	565	236.0
369	536	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03236-5	PSL 111-10			13	DUVAL	78				3238	957	0	0	0	0	0	0	0	388	585	197.0
388	537	540	585	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03236-5	PSL 111-10			14	DUVAL	71				3261	1400	0	0	0	0	0	0	0	482	606	122.0
482	492	520	604	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03236-5	PSL 111-10			15	DUVAL	73				3256	1200	0	0	0	0	0	0	0	0	0	0.1

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION BOT1	TOP2	BOT2	HOLE TOP3	OPERATOR NO BOT3	TOP4	BOT4	TOP5	BOT5	ELEV TOP6	TD BOT6	BC TOP7	TAN BOT7	CAS TOP8	SAL	RUS BOT8	SR	YAT TOP S X EAST	BASE S THICK S Y NORTH
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0	3505351.5
07-03236-5	PSL 111-10			16	DUVAL 81-13					3260	954	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0	3505351.5
07-03236-5	PSL 111-10			17	DUVAL 79					3254	1009	0	0	0	0	0	0	0 377	580 197.0
377	580	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0	3505351.5
07-03236-5	PSL 111-10			18	DUVAL 60					3250	508	0	0	0	0	0	0	0 280	507 227.0
280	507	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0	3505351.5
07-03236-5	PSL 111-10			19	DUVAL 64					3260	598	0	0	0	0	0	0	0 305	590 285.0
305	520	545	590	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0	3505351.5
07-03237-4	PSL 111-10			1	DUVAL 44					3264	566	0	0	0	0	0	0	0 305	557 247.0
305	325	330	557	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0	3505351.5
07-03237-4	PSL 111-10			2	DUVAL 132					3257	609	0	0	0	0	0	0	0 324	604 280.0
324	604	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0	3505351.5
07-03237-4	PSL 111-10			3	DUVAL 147					3257	568	0	0	0	0	0	0	0 374	555 181.0
374	548	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0	3505351.5
07-03237-4	PSL 111-10			4	DUVAL 148					3259	568	0	0	0	0	0	0	0 345	559 214.0
345	559	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0	3505351.5
07-03237-4	PSL 111-10			5	DUVAL 172					3248	605	0	0	0	0	0	0	0 285	576 287.0
285	341	345	529	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0	3505351.5
07-03237-4	PSL 111-10			6	DUVAL 167					3268	558	0	0	0	0	0	0	0 260	548 288.0
260	548	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0	3505351.5
07-03237-4	PSL 111-10			7	DUVAL 166					3271	555	0	0	0	0	0	0	0 336	546 210.0
336	546	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0	3505351.5
07-03237-4	PSL 111-10			8	DUVAL 134					3260	534	0	0	0	0	0	0	0 411	529 118.0
411	414	428	500	510	529	0	0	0	0	0	0	0	0	0	0	0		581131.0	3505351.5
07-03237-4	PSL 111-10			9	DUVAL 169					3250	640	0	0	0	0	0	0	0 355	630 275.0
355	370	407	630	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0	3505351.5
07-03237-4	PSL 111-10			10	DUVAL 170					3248	575	0	0	0	0	0	0	0 250	572 322.0
250	303	318	572	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0	3505351.5
07-03237-4	PSL 111-10			11	DUVAL 174					3251	644	0	0	0	0	0	0	0 335	637 272.0
385	637	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0	3505351.5
07-03237-4	PSL 111-10			12	DUVAL 168					3264	553	0	0	0	0	0	0	0 288	545 257.0
288	327	365	385	400	415	438	455	480	540	0	0	0	0	0	0	0		581131.0	3505351.5
07-03237-4	PSL 111-10			13	DUVAL 143					3272	540	0	0	0	0	0	0	0 323	528 205.0
323	528	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0	3505351.5
07-03237-4	PSL 111-10			14	DUVAL 59					3276	1200	0	0	0	0	0	0	0 514	540 26.0
526	538	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0	3505351.5

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION BOT1	TOP2	BOT2	HOLE TOP3	OPERATOR NO BOT3	TOP4	BOT4	TOP5	BOT5	ELEV TOP6	TD BOT6	BC TOP7	TAN BOT7	CAS TOP8	SAL	RUS BOT8	SR	YAT X	TOP S EAST	BASE Y	S THICK S NORTH
07-03237-4	PSL 111-10			15	DUVAL 68					3261	565	0	0	0	0	0	0	0	282	545	289.0
282	545	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0		3505351.5	
07-03237-4	PSL 111-10			16	DUVAL 33					3265	590	0	0	0	0	0	0	0	380	580	200.0
380	580	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0		3505351.5	
07-03237-4	PSL 111-10			17	DUVAL 4					3270	540	0	0	0	0	0	0	0	278	530	247.0
278	290	300	395	410	420	440	530	0	0	0	0	0	0	0	0	0		581131.0		3505351.5	
07-03237-4	PSL 111-10			18	DUVAL 187					3284	900	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0		3505351.5	
07-03237-4	PSL 111-10			19	DUVAL 41					3260	591	0	0	0	0	0	0	0	245	585	340.0
245	280	285	465	480	585	0	0	0	0	0	0	0	0	0	0	0		581131.0		3505351.5	
07-03237-4	PSL 111-10			20	DUVAL 116-A					3274	727	0	0	0	0	0	0	0	430	560	125.0
430	445	450	560	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0		3505351.5	
07-03237-4	PSL 111-10			21	DUVAL 152					3280	900	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0		3505351.5	
07-03237-4	PSL 111-10			22	DUVAL 153					3284	900	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0		3505351.5	
07-03237-4	PSL 111-10			23	DUVAL 65					3251	1200	0	0	0	0	0	0	0	284	584	290.0
284	582	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0		3505351.5	
07-03237-4	PSL 111-10			24	DUVAL 62					3254	1200	0	0	0	0	0	0	0	330	635	277.0
330	334	362	635	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0		3505351.5	
07-03237-4	PSL 111-10			25	DUVAL 56					3259	1200	0	0	0	0	0	0	0	550	604	54.0
550	604	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0		3505351.5	
07-03237-4	PSL 111-10			26	DUVAL 63A					3253	867	0	0	0	0	0	0	0	309	497	188.0
309	497	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0		3505351.5	
07-03237-4	PSL 111-10			27	DUVAL 57					3264	666	0	0	0	0	0	0	0	281	572	291.0
281	489	494	572	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0		3505351.5	
07-03237-4	PSL 111-10			28	DUVAL 74					3260	1500	0	0	0	0	0	0	0	365	436	24.0
365	376	425	430	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0		3505351.5	
07-03237-4	PSL 111-10			29	DUVAL 77					3260	1200	0	0	0	0	0	0	0	390	504	96.0
390	400	450	482	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0		3505351.5	
07-03237-4	PSL 111-10			30	DUVAL 15					3270	750	0	0	0	0	0	0	0	381	553	172.0
381	553	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0		3505351.5	
07-03237-4	PSL 111-10			31	DUVAL 34					3264	580	0	0	0	0	0	0	0	307	550	243.0
330	545	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0		3505351.5	
07-03237-4	PSL 111-10			32	DUVAL 72					3260	1200	0	0	0	0	0	0	0	558	624	66.0
558	618	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0		3505351.5	
07-03237-4	PSL 111-10			33	DUVAL 85					3230	1200	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		581131.0		3505351.5	

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO	LOCATION			HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT	TOP S	BASE S	THICK S
TOP1	BOT1	TOP2	BOT2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X	EAST	Y	NORTH
07-03237-4	PSL 111-10			34	DUVAL 11					3269	540	0	0	0	0	0	0	0	255	525	270.0
255	525	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03237-4	PSL 111-10			35	DUVAL 31					3267	600	0	0	0	0	0	0	0	273	585	304.0
273	325	329	585	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03237-4	PSL 111-10			36	DUVAL 10					3269	520	0	0	0	0	0	0	0	254	475	221.0
254	320	325	475	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03237-4	PSL 111-10			37	DUVAL 2					3270	580	0	0	0	0	0	0	0	259	480	221.0
259	265	270	480	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03237-4	PSl 111-10			38	DUVAL 30					3265	599	0	0	0	0	0	0	0	290	585	293.0
290	295	300	585	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03237-4	PSL 111-10			39	DUVAL 29					3259	620	0	0	0	0	0	0	0	281	560	272.0
281	283	285	305	310	545	550	560	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03237-4	PSl 111-10			40	DUVAL 28					3260	577	0	0	0	0	0	0	0	270	552	282.0
270	290	310	552	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03237-4	PSL 111-10			41	DUVAL 27					3260	580	0	0	0	0	0	0	0	277	580	270.0
277	283	290	330	335	485	510	530	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03237-4	PSL 111-10			42	DUVAL 52					3260	595	0	0	0	0	0	0	0	241	590	338.0
241	260	271	277	280	315	320	585	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03237-4	PSL 111-10			43	DUVAL 51					3262	590	0	0	0	0	0	0	0	330	575	240.0
330	365	375	570	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03237-4	PSL 111-10			44	DUVAL 43					3265	595	0	0	0	0	0	0	0	355	585	230.0
355	400	410	576	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03237-4	PSL 111-10			45	DUVAL 40					3260	585	0	0	0	0	0	0	0	270	580	300.0
270	285	295	510	515	570	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03237-4	PSL 111-10			46	DUVAL 32					3266	601	0	0	0	0	0	0	0	485	590	100.0
485	490	500	585	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03237-4	PSL 111-10			47	DUVAL 23					3266	600	0	0	0	0	0	0	0	415	590	175.0
415	590	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03237-4	PSL 111-10			48	DUVAL 139					3252	638	0	0	0	0	0	0	0	391	626	223.0
401	407	414	498	507	525	542	548	582	589	599	626	0	0	0	0			581131.0		3505351.5	
07-03237-4	PSL 111-10			49	DUVAL 65					3264	595	0	0	0	0	0	0	0	315	590	272.0
315	365	390	480	500	585	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03237-4	PSL 111-10			50	DUVAL 57					3260	564	0	0	0	0	0	0	0	333	539	200.0
333	539	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03237-4	PSL 111-10			51	DUVAL 144					3252	589	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581131.0		3505351.5	
07-03238-3	PSL 111-11			1	CITIES CT-2					3260	1018	0	0	845	345	0	0	0	739	973	9.0

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

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LEASE NO	LOCATION			HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT TOP S	BASE S	THICK S
TOP1	BOT1	TOP2	BOT2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X EAST	Y NORTH	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582636.0	3505365.8	
07-03238-3	PSL 111-11			2	CITIES CT-3					3280	1290	0	0	0	0	0	0	0 840	1290	21.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582636.0	3505365.8	
07-03238-3	PSL 111-11			3	CITIES CT-4					3275	1000	0	0	830	300	0	0	0 0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582636.0	3505365.8	
07-03238-3	PSL 111-11			1	DUVAL C239					3239	725	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582636.0	3505365.8	
07-03238-3	PSL 111-11			2	DUVAL 6					3240	1025	0	0	0	0	0	0	0 0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582636.0	3505365.8	
07-03238-3	PSL 111-11			3	DUVAL C201					3242	700	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582636.0	3505365.8	
07-03238-3	PSL 111-11			4	DUVAL C118					3249	900	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582636.0	3505365.8	
07-03238-3	PSL 111-11			5	DUVAL C215					3246	725	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582636.0	3505365.8	
07-03239-2	PSL 111-11			1	CITIES CT-1					3285	715	0	0	0	0	0	0	0 0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582636.0	3505365.8	
07-03239-2	PSL 111-11			1	DUVAL C178					3360	800	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582636.0	3505365.8	
07-03240-9	PSL 111-12			2	ARCO 3					3210	1400	0	0	0	0	0	0	0 940	1350	60.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			584310.2	3505364.8	
07-03240-9	PSL 111-12			3	ARCO 4					3220	2301	2270	0	890	500	65	0	0 1040	1560	50.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			584310.2	3505364.8	
07-03240-9	PSL 111-12			4	ARCO 5					3210	705	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			584310.2	3505364.8	
07-03240-9	PSL 111-12			1	ARCO 2					3260	1500	0	0	0	0	0	0	0 1042	1062	8.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			584310.2	3505364.8	
07-03240-9	PSL 111-12			0	CONOCO 1					3240	1505	0	0	0	0	0	0	0 0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			584310.2	3505364.8	
07-03241-8	PSL 111-13			1	DUVAL 4					3220	1600	0	0	0	0	0	0	0 1089	1290	11.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			584359.5	3503741.8	
07-03242-7	PSL 111-14			1	ARCO 2					3250	1400	0	0	0	0	0	0	0 1000	1265	18.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582719.1	3503743.1	
07-03242-7	PSL 111-14			3	ARCO 4					3270	710	0	0	0	0	0	0	0 0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582719.1	3503743.1	
07-03242-7	PSL 111-14			1	DUVAL C240					3285	725	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582719.1	3503743.1	

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION BOT1	TOP2	BOT2	HOLE TOP3	OPERATOR NO BOT3	TOP4	BOT4	TOP5	BOT5	ELEV TOP6	TD BOT6	BC TOP7	TAN BOT7	CAS TOP8	SAL BOT8	RUS	SR	YAT TOP S X EAST	BASE S THICK S Y NORTH
07-03242-7	PSL 111-14			2	DUVAL 35					3290	900	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582719.1	3503743.1
07-03242-7	PSL 111-14			3	DUVAL C191					3300	900	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582719.1	3503743.1
07-03242-7	PSL 111-14			4	DUVAL C202					3274	705	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582719.1	3503743.1
07-03242-7	PSL 111-14			5	DUVAL C221					3290	725	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582719.1	3503743.1
07-03242-7	PSl 111-14			6	DUVAL 3					3290	1610	0	0	0	0	0	0	0 1000	1001 1.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582719.1	3503743.1
07-03242-7	PSL 111-14			9	ARCO 3					3260	1500	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582719.1	3503743.1
07-03242-7	PSL 111-14			10	ARCO 5					3240	705	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582719.1	3503743.1
07-03242-7	PSL 111-14			1	CONOCO 1					3250	1406	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582719.1	3503743.1
07-03243-6	PSL 111-16			1	DUVAL C124					3300	900	0	0	0	0	0	0	0 676	684 8.0
676	684	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6	3503645.4
07-03243-6	PSL 111-16			2	DUVAL C125					3292	900	0	0	0	0	0	0	0 587	616 29.0
604	614	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6	3503645.4
07-03243-6	PSL 111-16			3	DUVAL C156					3315	1350	0	0	0	0	0	0	0 450	601 105.0
492	518	559	569	573	599	0	0	0	0	0	0	0	0	0	0			579557.6	3503645.4
07-03243-6	PSL 111-16			4	DUVAL C177					3384	850	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6	3503645.4
07-03243-6	PSL 111-16			5	DUVAL C176					3338	900	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6	3503645.4
07-03243-6	PSL 111-16			6	DUVAL C188					3342	900	0	0	0	0	0	0	0 850	860 10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6	3503645.4
07-03243-6	PSL 111-16			7	DUVAL C52					3330	1200	0	0	0	0	0	0	0 190	584 131.0
190	196	250	291	515	528	537	584	0	0	0	0	0	0	0	0			579557.6	3503645.4
07-03243-6	PSL 111-16			8	DUVAL C51					3302	1315	0	0	0	0	0	0	0 557	1280 139.0
565	567	775	807	862	914	934	952	966	970	1148	1176	1275	1280	0	0			579557.6	3503645.4
07-03243-6	PSL 111-16			9	DUVAL C12					3280	950	0	0	0	0	0	0	0 680	835 21.0
680	686	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6	3503645.4
07-03243-6	PSL 111-16			10	DUVAL C144					3321	859	0	0	0	0	0	0	0 514	566 52.0
519	547	549	566	0	0	0	0	0	0	0	0	0	0	0	0			579557.6	3503645.4
07-03243-6	PSL 111-16			11	DUVAL C169					3346	900	0	0	0	0	0	0	0 240	380 15.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6	3503645.4

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1	TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3	TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL	RUS / BOT8	SR	YAT / X	TOP S / EAST	BASE S / Y	THICK S / NORTH
07-03243-6	PSL 111-16			12	DUVAL C203					3381	705	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6		3503645.4
07-03243-6	PSL 111-16			13	DUVAL C170					3334	1000	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6		3503645.4
07-03243-6	PSL 111-16			14	DUVAL C184					3335	1200	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6		3503645.4
07-03243-6	PSL 111-16			15	DUVAL C163					3324	1300	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6		3503645.4
07-03243-6	PSL 111-16			16	DUVAL C171					3325	900	0	0	0	0	0	0	0	344	410	41.0
346	362	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6		3503645.4
07-03243-6	PSL 111-16			17	DUVAL C157					3320	900	0	0	0	0	0	0	0	465	575	110.0
510	575	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6		3503645.4
07-03243-6	PSL 111-16			18	DUVAL C189					3351	900	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6		3503645.4
07-03243-6	PSL 111-16			19	DUVAL C249					3295	725	0	0	0	0	0	0	0	660	671	11.0
667	671	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6		3503645.4
07-03243-6	PSL 111-16			20	DUVAL C204					3330	950	0	0	0	0	0	0	0	350	660	55.0
650	655	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6		3503645.4
07-03243-6	PSL 111-16			21	DUVAL C53					3300	1200	0	0	0	0	0	0	0	1025	1039	8.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6		3503645.4
07-03243-6	PSL 111-16			22	DUVAL C250					3308	725	0	0	0	0	0	0	0	670	688	18.0
670	674	678	688	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6		3503645.4
07-03243-6	PSL 111-16			23	DUVAL C141					3311	879	0	0	0	0	0	0	0	475	564	89.0
475	512	544	564	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6		3503645.4
07-03243-6	PSL 111-16			24	DUVAL C190					3359	900	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6		3503645.4
07-03243-6	PSL 111-16			25	DUVAL C21					3320	875	0	0	0	0	0	0	0	641	812	20.0
641	643	770	772	774	786	810	812	0	0	0	0	0	0	0	0	0			579557.6		3503645.4
07-03243-6	PSL 111-16			26	DUVAL C26					3300	800	0	0	0	0	0	0	0	432	540	73.0
432	480	495	500	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6		3503645.4
07-03243-6	PSL 111-16			27	DUVAL C163					3324	1300	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6		3503645.4
07-03243-6	PSL 111-16			28	DUVAL C218					3352	725	0	0	0	0	0	0	0	390	405	15.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6		3503645.4
07-03243-6	PSL 111-16			29	DUVAL C238					3370	725	0	0	0	0	0	0	0	310	374	33.0
366	368	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6		3503645.4
07-03243-6	PSL 111-16			30	DUVAL C11					3360	716	0	0	0	0	0	0	0	0	0	0.0

ASSESSMENT OF NATIVE SULFUR POTENTIAL
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LEASE NO	LOCATION			HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT TOP S	BASE S	THICK S
TOP1	BOT1	TOP2	BOT2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X EAST	Y NORTH	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579557.6	3503645.4	
07-03244-5	PSL 111-17			4	ARCO 2					3330	1200	0	0	0	0	0	0	0 640	830	15.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			577967.3	3503714.9	
07-03244-5	PSL 111-17			2	ARCO 3					3375	1100	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			577967.3	3503714.9	
07-03244-5	PSL 111-17			3	ARCO 4					3420	1000	0	0	0	0	0	0	0 820	960	30.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			577967.3	3503714.9	
07-03244-5	PSL 111-17			4	ARCO 5					3380	705	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			577967.3	3503714.9	
07-03245-4	PSL 111-18			1	ARCO 1					3380	1200	0	0	610	60	0	0	0 605	1050	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			576344.1	3503682.5	
07-03245-4	PSL 111-18			2	ARCO 2					3380	1200	0	0	0	0	0	0	0 610	850	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			576344.1	3503682.5	
07-03245-4	PSL 111-18			4	ARCO 4					3370	710	0	0	0	0	0	0	0 600	610	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			576344.1	3503682.5	
07-03246-3	PSL 111-18			1	ARCO 3					3440	1000	0	0	0	0	0	0	0 870	880	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			576344.1	3503682.5	
07-03246-3	PSL 111-18			2	ARCO 5					3420	705	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			576344.1	3503682.5	
07-03247-2	PSL 111-19			1	ARCO 1					3480	1200	0	0	455	170	0	0	0 865	1145	25.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			576376.5	3502059.4	
07-03247-2	PSL 111-19			2	ARCO 2					3500	1200	0	0	0	0	0	0	0 955	1050	15.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			576376.5	3502059.4	
07-03247-2	PSL 111-19			3	ARCO 3					3500	1000	0	0	0	0	0	0	0 780	1000	50.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			576376.5	3502059.4	
07-03247-2	PSL 111-19			4	ARCO 4					3470	710	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			576376.5	3502059.4	
07-03248-1	PSL 111-20			3	ARCO 3					3520	710	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			578017.0	3502041.1	
07-03248-1	PSL 111-20			4	ARCO 4					3500	705	0	0	0	0	0	0	0 0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			578017.0	3502041.1	
07-03248-1	PSL 111-20			1	CITIES	CT-1				3380	2065	2015	0	630	0	0	0	0 100	1120	50.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			578017.0	3502041.1	
07-03248-1	PSL 111-20			2	CITIES	CT-2				3450	1200	0	0	605	175	0	0	0 1080	1110	20.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			578017.0	3502041.1	
07-03248-1	PSL 111-20			3	CITIES	CT-3				3380	1147	0	0	595	200	0	0	0 985	1025	3.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			578017.0	3502041.1	

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO	LOCATION			HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT	TOP	S	BASE	S	THICK	S
TOP1	BOT1	TOP2	BOT2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X	EAST		Y	NORTH		
07-03248-1	PSL 111-20			4	CITIES CT-4					3420	1200	0	0	550	0	0	0	0	637		1135		44.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			578017.0			3502041.1			
07-03248-1	PSL 111-20			5	CITIES CT-5					3410	1089	0	0	635	200	0	0	0	0		0		0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			578017.0			3502041.1			
07-03248-1	PSL 111-20			8	ARCO 1					3420	1223	0	0	510	175	0	0	0	985		990		5.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			578017.0			3502041.1			
07-03248-1	PSL 111-20			4	ARCO 4					3500	705	0	0	0	0	0	0	0	0		0		0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			578017.0			3502041.1			
07-03249-0	PSL 111-21			1	DUVAL C219					3350	725	0	0	0	0	0	0	0	0		0		0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579538.7			3502072.5			
07-03249-0	PSL 111-21			2	DUVAL C241					3393	725	0	0	0	0	0	0	0	0		0		0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579538.7			3502072.5			
07-03249-0	PSL 111-21			3	DUVAL C13					3415	1450	0	0	0	0	0	0	0	0		0		0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579538.7			3502072.5			
07-03249-0	PSL 111-21			4	DUVAL C37					3390	1000	0	0	0	0	0	0	0	0		0		0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579538.7			3502072.5			
07-03249-0	PSL 111-21			5	DUVAL C204					3440	950	0	0	0	0	0	0	0	330		660		95.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			579538.7			3502072.5			
07-03250-6	PSL 111-22			1	DUVAL C220					3327	725	0	0	0	0	0	0	0	0		0		0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581127.9			3502121.4			
07-03250-6	PSL 111-22			2	DUVAL 5					3350	1584	0	0	0	0	0	0	0	1520		1525		5.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581127.9			3502121.4			
07-03250-6	PSL 111-22			3	DUVAL C205					3351	705	0	0	0	0	0	0	0	0		0		0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581127.9			3502121.4			
07-03250-6	PSL 111-22			4	DUVAL C36					3350	1000	0	0	0	0	0	0	0	0		0		0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581127.9			3502121.4			
07-03250-6	PSL 111-22			5	DUVAL C242					3306	725	0	0	0	0	0	0	0	0		0		0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581127.9			3502121.4			
07-03251-5	PSL 111-23			1	CITIES CT-1					3290	715	0	0	0	0	0	0	0	0		0		0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582768.5			3502103.2			
07-03251-5	PSL 111-23			2	CITIES CT-2					3270	1139	0	0	930	385	0	0	0	965		1130		30.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582768.5			3502103.2			
07-03251-5	PSL 111-23			3	CITIES CT-3					3350	1100	0	0	845	255	0	0	0	0		0		0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582768.5			3502103.2			
07-03251-5	PSL 111-23			4	CITIES CT-4					3280	990	0	0	0	0	0	0	0	0		0		0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			582768.5			3502103.2			
07-03257-9	PSL 111-27			1	ARCO 2					3370	1200	0	0	0	0	0	0	0	875		1055		25.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			581096.0			3500142.5			

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / LOCATION	HOLE / OPERATOR NO	ELEV / TD / BC / TAN / CAS / SAL / RUS	SR	YAT / TOP S / BASE S / THICK S
07-03257-9 PSL 111-27	2 ARCO 3	3390 1100 0 0 0 0 0	0	0 0 0 0.1
0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0		581096.0 3500142.5
07-03257-9 PSL 111-27	3 ARCO 4	3370 710 0 0 0 0 0	0	0 0 0 0.1
0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0		581096.0 3500142.5
07-03257-9 PSL 111-27	1 CONOCO 1	3420 1180 0 0 0 0 0	0	0 0 0 0.0
0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0		581096.0 3500142.5
07-03258-8 PSL 111-28	1 ARCO 2	3410 1100 0 0 0 0 0	0	0 885 890 5.0
0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0		579540.1 3500144.6
07-03258-8 PSL 111-28	2 ARCO 3	3470 1000 0 0 0 0 0	0	0 950 965 15.0
0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0		579540.1 3500144.6
07-03258-8 PSL 111-28	3 ARCO 4	3430 710 0 0 0 0 0	0	0 0 0 0.1
0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0		579540.1 3500144.6
07-03260-4 PSL 111-29	1 UNION 1	3490 1979 0 0 0 0 0	0	0 775 1375 365.0
0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0		577967.8 3500095.9
07-03261-3 PSL 111-30	1 ARCO 1	3480 1200 0 0 440 0 0	0	0 785 1040 13.0
0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0		576344.4 3500097.3
07-03261-3 PSL 111-30	2 ARCO 2	3510 1200 0 0 0 0 0	0	0 855 995 40.0
0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0		576344.4 3500097.3
07-03261-3 PSL 111-30	3 ARCO 3	3540 1200 0 0 0 0 0	0	0 700 1200 20.0
0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0		576344.4 3500097.3
07-03261-3 PSL 111-30	4 ARCO 4	3500 773 0 0 0 0 0	0	0 0 0 0.1
0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0		576344.4 3500097.3
07-03263-1 PSL 113-1	1 HARRIS & WALTON CT-1	3280 710 0 0 0 0 0	0	0 0 0 0.0
0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0		584235.0 3513278.5
07-03263-1 PSL 113-1	2 HARRIS & WALTON CT-2	3300 710 0 0 0 0 0	0	0 0 0 0.0
0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0		584235.0 3513278.5
07-03263-1 PSL 113-1	3 HARRIS & WALTON CT-3	3250 710 0 0 0 0 0	0	0 0 0 0.0
0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0		584235.0 3513278.5
07-03264-0 PSL 113-2	1 HARRIS & WALTON CT-1	3310 715 0 0 0 0 0	0	0 0 0 0.0
0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0		582595.1 3513229.1
07-03264-0 PSL 113-2	2 HARRIS & WALTON CT-2	3330 715 0 0 0 0 0	0	0 0 0 0.0
0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0		582595.1 3513229.1
07-03264-0 PSL 113-2	3 HARRIS & WALTON CT-3	3320 713 0 0 0 0 0	0	0 0 0 0.0
0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0		582595.1 3513229.1
07-03268-6 PSL 113-6	1 TX GULF SULF 1-A	3400 1875 0 0 0 0 0	0	0 0 0 0.0
0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0		576135.6 3513167.7
07-03270-2 PSL 113-8	1 CITIES CT-1	3350 715 0 0 0 0 0	0	0 0 0 0.0

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / LOCATION	HOLE / OPERATOR NO	ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT TOP S / BASE S THICK S
TOP1 BOT1 TOP2 BOT2	TOP3 BOT3 TOP4 BOT4	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X EAST / Y NORTH
0 0 0 0	0 0 0 0	0	0	0	0	0	0			577773.4 3511661.3
07-03270-2 PSL 113-8	2 CITIES CT-2	3380	1100	0	0 545	35	0	0	0	0 355 1050 80.0
0 0 0 0	0 0 0 0	0	0	0	0	0	0			577773.4 3511661.3
07-03270-2 PSL 113-8	3 CITIES CT-3	3470	932	0	0 650	390	0	0	0	0 0 0 0.0
0 0 0 0	0 0 0 0	0	0	0	0	0	0			577773.4 3511661.3
07-03271-1 PSL 113-9	1 CITIES CT-3	3320	850	0	0 615	320	0	0	0	0 670 782 6.0
0 0 0 0	0 0 0 0	0	0	0	0	0	0			579499.0 3511593.1
07-03272-0 PSL 113-9	1 CITIES CT-1	3270	715	0	0 0	0	0	0	0	0 650 690 40.0
0 0 0 0	0 0 0 0	0	0	0	0	0	0			579499.0 3511593.1
07-03272-0 PSL 113-9	2 CITIES CT-2	3245	1137	0	0 735	320	0	0	0	0 725 1100 20.0
0 0 0 0	0 0 0 0	0	0	0	0	0	0			579499.0 3511593.1
07-03272-0 PSL 113-9	3 CITIES CT-4	3340	854	0	0 650	240	0	0	0	0 0 0 0.0
0 0 0 0	0 0 0 0	0	0	0	0	0	0			579499.0 3511593.1
07-03273-9 PSL 113-10	1 ARCO 1	3240	1800	0	0 0	0	0	0	0	0 865 1412 67.0
0 0 0 0	0 0 0 0	0	0	0	0	0	0			581037.2 3511675.4
07-03273-9 PSL 113-10	2 ARCO 2	3260	1500	0	0 0	0	0	0	0	0 845 1452 43.0
0 0 0 0	0 0 0 0	0	0	0	0	0	0			581037.2 3511675.4
07-03274-8 PSL 113-12	1 CITIES CT-1	3260	715	0	0 0	0	0	0	0	0 0 0 0.0
0 0 0 0	0 0 0 0	0	0	0	0	0	0			584233.1 3511705.7
07-03274-8 PSL 113-12	2 CITIES CT-2	3230	1000	0	0 850	480	70	0	0	0 0 0 0.0
0 0 0 0	0 0 0 0	0	0	0	0	0	0			584233.1 3511705.7
07-03274-8 PSL 113-12	3 CITIES CT-3	3284	1210	0	0 1035	545	200	0	0	0 0 0 0.0
0 0 0 0	0 0 0 0	0	0	0	0	0	0			584233.1 3511705.7
07-03276-6 PSL 113-13	1 DUVAL 11-3-67	3145	750	0	0 0	0	0	0	0	0 0 0 0.0
0 0 0 0	0 0 0 0	0	0	0	0	0	0			584265.7 3510048.7
07-03277-5 PSL 113-14	1 CITIES CT-1	3200	321	0	0 0	0	0	0	0	0 0 0 0.0
0 0 0 0	0 0 0 0	0	0	0	0	0	0			582625.5 3510033.2
07-03277-5 PSL 113-14	2 CITIES CT-2	3265	701	0	0 0	0	0	0	0	0 0 0 0.0
0 0 0 0	0 0 0 0	0	0	0	0	0	0			582625.5 3510033.2
07-03277-5 PSL 113-14	3 CITIES CT-3	3170	1500	0	0 785	380	35	0	0	0 820 1425 65.0
0 0 0 0	0 0 0 0	0	0	0	0	0	0			582625.5 3510033.2
07-03277-5 PSL 113-14	4 CITIES CT-4	3260	1094	0	0 840	600	250	0	0	0 850 850 1.0
0 0 0 0	0 0 0 0	0	0	0	0	0	0			582625.5 3510033.2
07-03277-5 PSL 113-14	5 CITIES CT-5	3170	1100	0	0 930	445	0	0	0	0 775 997 16.0
0 0 0 0	0 0 0 0	0	0	0	0	0	0			582625.5 3510033.2
07-03277-5 PSL 113-14	6 CITIES CT-6	3200	1030	0	0 0	0	0	0	0	0 0 0 0.0
0 0 0 0	0 0 0 0	0	0	0	0	0	0			582625.5 3510033.2

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1 / TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3 / TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT TOP S / X EAST	BASE S / Y NORTH	THICK S
07-03277-5	PSL 113-14		7	CITIES CT-7				3200	500	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		582625.5	3510033.2	
07-03278-4	PSL 113-15		1	ARCO 1				3220	1500	0	0	0	0	0	0	0 745	1455	13.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		581052.7	3510035.1	
07-03278-4	PSL 113-15		3	ARCO 3				3230	1500	0	0	0	0	0	0	0 725	1115	70.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		581052.7	3510035.1	
07-03278-4	PSL 113-15		2	ARCO 2				3210	1500	0	0	0	0	0	0	0 765	1330	44.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		581052.7	3510035.1	
07-03279-3	PSL 113-16		1	ARCO 1				3250	1500	0	0	0	0	0	0	0 735	1430	70.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		579412.5	3510019.5	
07-03279-3	PSL 113-16		2	ARCO 2				3250	1500	0	0	0	0	0	0	0 980	1235	15.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		579412.5	3510019.5	
07-03279-3	PSL 113-16		3	ARCO 3A				3290	1500	0	0	0	0	0	0	0 235	1390	154.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		579412.5	3510019.5	
07-03282-8	PSL 113-21		1	ARCO 1				3275	1500	0	0	0	0	0	0	0 715	730	50.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		579494.9	3508464.5	
07-03282-8	PSL 113-21		2	ARCO 2				3310	1500	0	0	0	0	0	0	0 672	1480	107.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		579494.9	3508464.5	
07-03282-8	PSL 113-21		3	ARCO 3				3290	1500	0	0	0	0	0	0	0 790	1372	37.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		579494.9	3508464.5	
07-03282-8	PSL 113-21		4	ARCO 4				3320	2055	0	0	690	0	0	0	0 510	1350	160.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		579494.9	3508464.5	
07-03283-7	PSL 113-22		1	ARCO 1				3240	1500	0	0	0	0	0	0	0 735	1450	115.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		581050.6	3508479.3	
07-03283-7	PSL 113-22		2	ARCO 2				3230	1500	0	0	0	0	0	0	0 280	1460	90.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		581050.6	3508479.3	
07-03283-7	PSL 113-22		3	ARCO 3				3270	1500	0	0	0	0	0	0	0 925	1485	60.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		581050.6	3508479.3	
07-03283-7	PSL 113-22		2	ARCO 4				3240	1500	0	0	0	0	0	0	0 790	1450	110.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		581050.6	3508479.3	
07-03284-6	PSL 113-23		1	DUVAL C248				3190	1000	0	0	0	0	0	0	0 770	800	30.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		582640.1	3508494.4	
07-03285-5	PSL 113-24		1	CITIES CT-1				3170	715	0	0	0	0	0	0	0 0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		584229.9	3508475.7	
07-03285-5	PSL 113-24		2	CITIES CT-2				3165	609	0	0	0	0	0	0	0 0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		584229.9	3508475.7	
07-03285-5	PSL 113-24		3	CITIES CT-2A				3165	1000	0	0	1000	585	265	0	0 0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		584229.9	3508475.7	

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1 / TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3 / TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE S / Y	THICK S / NORTH
07-03285-5	PSL 113-24		4	CITIES CT-3				3160	1000	0	0	705	270	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			584229.9		3508475.7
07-03285-5	PSL 113-24		5	CITIES CT-4				3170	993	0	0	0	0	0	0	0	840	920	20.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			584229.9		3508475.7
07-03286-4	PSL 114-1		1	TX GULF SULF 1-B				3470	1830	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			574546.3		3513135.7
07-03290-8	PSL 114-6		2	ARCO 2				3680	1235	0	0	0	0	0	0	0	600	1040	130.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			566530.9		3513076.5
07-03290-8	PSL 114-6		1	ARCO 1				3670	1200	0	0	0	0	0	0	0	885	950	20.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			566530.9		3513076.5
07-03290-8	PSL 114-6		3	ARCO 3				3700	1266	0	0	0	0	0	0	0	360	1060	210.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			566530.9		3513076.5
07-03290-8	PSL 114-6		4	ARCO 4				3710	1310	1280	0	0	0	0	0	0	640	650	10.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			566530.9		3513076.5
07-03290-8	PSL 114-6		5	ARCO 5				3700	1250	0	0	0	0	0	0	0	210	1070	30.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			566530.9		3513076.5
07-03293-5	PSL 114-9		1	ARCO 1				3660	1200	0	0	0	0	0	0	0	260	265	5.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			569691.6		3511483.0
07-03293-5	PSL 114-9		2	ARCO 2				3660	1200	0	0	0	0	0	0	0	840	1070	18.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			569691.6		3511483.0
07-03293-5	PSL 114-9		3	ARCO 3				3650	1000	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			569691.6		3511483.0
07-03293-5	PSL 114-9		4	ARCO 4				3620	778	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			569691.6		3511483.0
07-03295-3	PSL 114-10		1	ARCO 1				3560	1200	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			571348.2		3511549.5
07-03295-3	PSL 114-10		2	ARCO 3				3540	1615	0	0	0	0	0	0	0	965	970	5.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			571348.2		3511549.5
07-03295-3	PSL 114-10		3	ARCO 4				3530	710	0	0	0	0	0	0	0	80	565	30.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			571348.2		3511549.5
07-03295-3	PSL 114-10		4	ARCO 5				3530	1606	0	0	0	0	0	0	0	210	610	132.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			571348.2		3511549.5
07-03296-2	PSL 114-10		1	ARCO 2				3570	1200	0	0	0	0	0	0	0	490	525	19.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			571348.2		3511549.5
07-03301-5	PSL 114-15		1	ARCO 1				3600	1200	0	0	0	0	0	0	0	345	350	5.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			571413.7		3509994.3
07-03301-5	PSL 114-15		2	ARCO 2				3600	1200	0	0	0	0	0	0	0	580	865	15.0

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO	LOCATION			HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT	TOP S	BASE S	THICK S
TOP1	BOT1	TOP2	BOT2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8		BOT8		X	EAST	Y	NORTH
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		571413.7		3509994.3	
07-03301-5	PSL 114-15			3	ARCO 3					3590	1000	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	0.1
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		571413.7		3509994.3	
07-03301-5	PSL 114-15			4	ARCO 4					3610	1640	1610	Ø	Ø	Ø	Ø	Ø	Ø	720	880	15.0
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		571413.7		3509994.3	
07-03303-3	PSL 114-15			1	ARCO 5					3630	705	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	0.1
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		571413.7		3509994.3	
07-03311-3	PSL 115-1			1	ARCO 1					3730	1200	1130	Ø	Ø	Ø	Ø	Ø	Ø	520	525	5.0
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		564772.5		3513042.9	
07-03311-3	PSL 115-1			2	ARCO 2					3720	1225	Ø	Ø	Ø	Ø	Ø	Ø	Ø	60	890	45.0
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		564772.5		3513042.9	
07-03311-3	PSL 115-1			3	ARCO 3					3750	1000	Ø	Ø	Ø	Ø	Ø	Ø	Ø	770	820	40.0
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		564772.5		3513042.9	
07-03311-3	PSL 115-1			4	ARCO 4					3710	1368	Ø	Ø	Ø	Ø	Ø	Ø	Ø	380	390	10.0
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		564772.5		3513042.9	
07-03311-3	PSL 115-1			2	FREEPORT	53				3767	1232	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	0.0
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		564772.5		3513042.9	
07-03314-Ø	PSL 115-4			1	ARCO 1					3930	700	Ø	Ø	Ø	Ø	Ø	Ø	Ø	195	635	27.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		560037.6		3513014.8	
07-03314-Ø	PSL 115-4			2	ARCO 2					3880	910	Ø	Ø	Ø	Ø	Ø	Ø	Ø	238	908	32.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		560037.6		3513014.8	
07-03314-Ø	PSL 115-4			3	ARCO 3					3900	965	Ø	Ø	Ø	Ø	Ø	Ø	Ø	880	950	70.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		560037.6		3513014.8	
07-03314-Ø	PSL 115-4			4	ARCO 4					3950	935	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	0.1
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		560037.6		3513014.8	
07-03314-Ø	PSL 115-4			5	ARCO 5					3900	970	Ø	Ø	Ø	Ø	Ø	Ø	Ø	160	930	82.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		560037.6		3513014.8	
07-03315-9	PSL 115-5			1	ARCO 1					3990	700	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	0.1
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		558414.5		3512982.5	
07-03315-9	PSL 115-5			2	ARCO 2					4020	925	Ø	Ø	Ø	Ø	Ø	Ø	Ø	290	295	5.0
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		558414.5		3512982.5	
07-03315-9	PSL 115-5			3	ARCO 3					3975	800	Ø	Ø	Ø	Ø	Ø	Ø	Ø	350	565	110.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		558414.5		3512982.5	
07-03315-9	PSL 115-5			4	ARCO 4					3995	825	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	0.1
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		558414.5		3512982.5	
07-03315-9	PSL 115-5			5	ARCO 5					3970	746	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	0.1
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		558414.5		3512982.5	

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO	LOCATION			HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT TOP S	BASE S THICK S
TOP1	BOT1	TOP2	BOT2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X EAST	Y NORTH
07-03316-8	PSL 115-6			1	ARCO 1					3990	700	665	0	0	0	0	0	0 675	680 5.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556807.9	3512984.1
07-03316-8	PSL 115-6			2	ARCO 2					3975	600	0	0	0	0	0	0	0 90	355 95.0
220	222	277	281	294	296	0	0	0	0	0	0	0	0	0	0			556807.9	3512984.1
07-03316-8	PSL 115-6			3	ARCO 3					3990	621	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556807.9	3512984.1
07-03316-8	PSL 115-6			4	ARCO 4					3980	750	665	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556807.9	3512984.1
07-03316-8	PSL 115-6			5	ARCO 5					3970	730	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556807.9	3512984.1
07-03316-8	PSL 115-6			6	ARCO 6					3970	705	0	0	0	0	0	0	0 210	237 7.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556807.9	3512984.1
07-03317-7	PSL 115-7			1	ARCO 1					4040	700	600	0	0	0	0	0	0 295	300 5.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555133.8	3512968.2
07-03317-7	PSL 115-7			2	ARCO 2					4080	635	0	0	0	0	0	0	0 60	410 30.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555133.8	3512968.2
07-03317-7	PSL 115-7			3	ARCO 3					4070	400	0	0	0	0	0	0	0 175	180 5.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555133.8	3512968.2
07-03317-7	PSL 115-7			4	ARCO 4					4020	705	0	0	0	0	0	0	0 310	320 10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555133.8	3512968.2
07-03317-7	PSL 115-7			5	ARCO 5					4060	705	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555133.8	3512968.2
07-03317-7	PSL 115-7			6	ARCO 6					4040	705	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555133.8	3512968.2
07-03318-6	PSL 115-8			1	ARCO 1					4030	700	565	0	0	0	0	0	0 165	330 72.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555182.8	3511379.0
07-03318-6	PSL 115-8			2	ARCO 2					4080	600	0	0	0	0	0	0	0 96	590 209.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555182.8	3511379.0
07-03318-6	PSL 115-8			3	ARCO 3					4100	625	0	0	0	0	0	0	0 80	435 41.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555182.8	3511379.0
07-03318-6	PSL 115-8			4	ARCO 4					4010	1000	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555182.8	3511379.0
07-03318-6	PSL 115-8			5	ARCO 5					4060	705	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555182.8	3511379.0
07-03318-6	PSL 115-8			6	ARCO 6					4060	705	0	0	0	0	0	0	0 40	390 190.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555182.8	3511379.0
07-03319-5	PSL 115-9			1	ARCO 1					4080	700	0	0	0	0	0	0	0 30	510 30.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556789.2	3511394.3

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1	TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3	TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL	RUS / BOT8	SR	YAT / X	TOP S / EAST	BASE / Y	S THICK / NORTH	S
07-03319-5	PSL 115-9			2	ARCO 2					4040	660	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556789.2		3511394.3		
07-03319-5	PSL 115-9			3	ARCO 3					4100	400	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556789.2		3511394.3		
07-03319-5	PSL 1159			4	ARCO 4					4100	785	0	0	0	0	0	0	0	500	600	100.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556789.2		3511394.3		
07-03319-5	PSL 115-9			5	ARCO 5					3990	705	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556789.2		3511394.3		
07-03319-5	PSL 115-9			6	ARCO 6					4080	730	0	0	0	0	0	0	0	90	100	10.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556789.2		3511394.3		
07-03320-2	PSL 115-10			1	ARCO 1					4080	700	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558429.2		3511426.8		
07-03320-2	PSL 115-10			2	ARCO 4					3990	855	0	0	0	0	0	0	0	390	430	40.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558429.2		3511426.8		
07-03320-2	PSL 115-10			3	ARCO 5					4055	830	0	0	0	0	0	0	0	518	790	67.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558429.2		3511426.8		
07-03320-2	PSL 115-10			4	ARCO 6					4050	790	0	0	0	0	0	0	0	390	650	60.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558429.2		3511426.8		
07-03321-1	PSL 115-11			1	ARCO 1					4020	700	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			559985.4		3511390.8		
07-03321-1	PSL 115-11			2	ARCO 2					3930	850	0	0	0	0	0	0	0	50	182	70.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			559985.4		3511390.8		
07-03321-1	PSL 115-11			3	ARCO 4					3920	920	0	0	0	0	0	0	0	70	600	80.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			559985.4		3511390.8		
07-03321-1	PSL 115-11			4	ARCO 5					3960	918	900	0	0	0	0	0	0	900	905	5.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			559985.4		3511390.8		
07-03321-1	PSL 115-11			5	ARCO 6					3940	705	0	0	0	0	0	0	0	250	260	10.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			559985.4		3511390.8		
07-03324-8	PSL 115-14			1	TX GULF SULF	1-G				3780	1185	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			564821.4		3511453.7		
07-03324-8	PSL 115-14			2	TX GULF SULF	2-G				3770	1235	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			564821.4		3511453.7		
07-03324-8	PSL 115-14			3	TX GULF SULF	3-G				3780	1201	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			564821.4		3511453.7		
07-03325-7	PSL 115-15			1	TX GULF SULF	2-D				3820	1145	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			564836.4		3509881.1		
07-03325-7	PSL 115-15			2	TX GULF SULF	3-C				3820	1110	0	0	0	0	0	0	0	0	0	0.0	

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1	TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3	TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT TOP S / X EAST	BASE S THICK S / Y NORTH
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		564836.4	3509881.1
Ø7-Ø3325-7	PSL 115-15			3	TX GULF SULF		6-D			3820	1155	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		564836.4	3509881.1
Ø7-Ø3326-6	PSL 115-16			1	TX GULF SULF		1-C			3880	1120	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		563179.4	3509848.4
Ø7-Ø3326-6	PSL 115-16			2	TX GULF SULF		2-C			3880	1103	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		563179.4	3509848.4
Ø7-Ø3326-6	PSL 115-16			3	TX GULF SULF		4-C			3860	1110	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		563179.4	3509848.4
Ø7-Ø3326-6	PSL 115-16			4	TX GULF SULF		5-C			3890	1090	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		563179.4	3509848.4
Ø7-Ø3326-6	PSL 115-16			5	TX GULF SULF		6-C			3840	1120	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		563179.4	3509848.4
Ø7-Ø3326-6	PSL 115-16			6	TX GULF SULF		11-C			3880	1100	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		563179.4	3509848.4
Ø7-Ø3326-6	PSL 115-16			7	TX GULF SULF		13-C			3860	1102	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		563179.4	3509848.4
Ø7-Ø3326-6	PSL 115-16			8	TX GULF SULF		19-C			3870	1089	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		563179.4	3509848.4
Ø7-Ø3326-6	PSL 115-16			9	TX GULF SULF		22-C			3850	1110	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		563179.4	3509848.4
Ø7-Ø3326-6	PSL 115-16			10	TX GULF SULF		24-C			3840	1115	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		563179.4	3509848.4
Ø7-Ø3326-6	PSL 115-16			11	TX GULF SULF		25-C			3840	1120	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		563179.4	3509848.4
Ø7-Ø3327-5	PSL 115-17			1	TX GULF SULF		1-E			3870	1005	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		561623.4	3509867.5
Ø7-Ø3327-5	PSL 115-17			2	TX GULF SULF		2-E			3920	1070	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		561623.4	3509867.5
Ø7-Ø3327-5	PSL 115-17			3	TX GULF SULF		3-E			3920	960	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		561623.4	3509867.5
Ø7-Ø3328-4	PSL 115-18			1	ARCO 1					3985	700	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.1
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		560084.4	3509869.8
Ø7-Ø3328-4	PSL 115-18			2	ARCO 2					3980	900	825	Ø	Ø	Ø	Ø	Ø	Ø 80	360 34.0
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		560084.4	3509869.8
Ø7-Ø3328-4	PSL 115-18			3	ARCO 3					3970	871	Ø	Ø	Ø	Ø	Ø	Ø	Ø 40	190 20.0
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		560084.4	3509869.8

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO	LOCATION			HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT	TOP S	BASE S	THICK S
TOP1	BOT1	TOP2	BOT2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X	EAST	Y	NORTH
07-03328-4	PSL 115-18			4	ARCO 4					3960	840	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			560084.4		3509869.8	
07-03328-4	PSL 115-18			5	ARCO 5					3990	705	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			560084.4		3509869.8	
07-03329-3	PSL 115-19			1	ARCO 1					4005	700	0	0	0	0	0	0	0	90	95	5.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558528.6		3509871.9	
07-03329-3	PSL 115-9			2	ARCO 3					4000	900	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558528.6		3509871.9	
07-03329-3	PSL 115-19			3	ARCO 7					4050	865	0	0	0	0	0	0	0	200	860	115.0
360	365	390	480	520	565	670	675	820	825	0	0	0	0	0	0			558528.6		3509871.9	
07-03329-3	PSL 115-19			4	ARCO 8					4020	845	0	0	0	0	0	0	0	584	606	18.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558528.6		3509871.9	
07-03329-3	PSL 115-19			5	ARCO 9					4060	800	0	0	0	0	0	0	0	150	645	255.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558528.6		3509871.9	
07-03330-0	PSL 115-20			1	ARCO 1					4120	700	0	0	0	0	0	0	0	100	455	30.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556838.3		3509788.2	
07-03330-0	PSL 115-20			2	ARCO 2					4080	765	0	0	0	0	0	0	0	140	508	45.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556838.3		3509788.2	
07-03330-0	PSL 115-20			5	ARCO 5					4080	705	670	0	0	0	0	0	0	50	465	50.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556838.3		3509788.2	
07-03330-0	PSL 115-20			3	ARCO 3					4095	705	0	0	0	0	0	0	0	110	160	30.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556838.3		3509788.2	
07-03330-0	PSL 115-20			4	ARCO 4					4070	770	0	0	0	0	0	0	0	60	750	220.0
375	490	560	565	0	0	0	0	0	0	0	0	0	0	0	0			556838.3		3509788.2	
07-03331-9	PSL 115-21			1	ARCO 1					4180	700	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555147.6		3509738.3	
07-03331-9	PSL 115-21			3	ARCO 3					4200	400	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555147.6		3509738.3	
07-03331-9	PSL 115-21			4	ARCO 4					4130	705	0	0	0	0	0	0	0	380	620	70.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555147.6		3509738.3	
07-03331-9	PSL 115-21			5	ARCO 5					4075	705	0	0	0	0	0	0	0	220	230	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555147.6		3509738.3	
07-03331-9	PSL 115-21			6	ARCO 6					4100	705	0	0	0	0	0	0	0	350	640	95.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555147.6		3509738.3	
07-03331-9	PSL 115-21			2	ARCO 2					4155	655	0	0	0	0	0	0	0	85	426	23.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555147.6		3509738.3	
07-03332-8	PSL 115-22			1	ARCO 1					4120	700	595	0	0	0	0	0	0	260	600	35.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			555162.7		3508148.8	

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1 / TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3 / TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE / Y	S THICK / NORTH
07-03332-8	PSL 115-22		2	ARCO 2				4100	595	0	0	0	0	0	0	0	85	315	15.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			555162.7		3508148.8
07-03332-8	PSL 115-22		3	ARCO 3				4140	400	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			555162.7		3508148.8
07-03332-8	PSL 115-22		5	ARCO 5				4110	580	0	0	0	0	0	0	0	300	306	6.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			555162.7		3508148.8
07-03332-8	PSL 115-22		6	ARCO 6				4120	705	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			555162.7		3508148.8
07-03332-8	PSL 115-22		7	ARCO 7				4140	705	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			555162.7		3508148.8
07-03332-8	PSL 115-22		4	ARCO 4				4120	610	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			555162.7		3508148.8
07-03333-7	PSL 115-23		1	ARCO 1				4070	700	635	0	0	0	0	0	0	260	265	5.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			556836.1		3508232.3
07-03333-7	PSL 115-23		2	ARCO 2				4020	660	0	0	0	0	0	0	0	54	450	46.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			556836.1		3508232.3
07-03333-7	PSL 115-23		3	ARCO 3				4090	400	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			556836.1		3508232.3
07-03333-7	PSL 115-23		4	ARCO 4				4060	705	0	0	0	0	0	0	0	280	340	35.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			556836.1		3508232.3
07-03333-7	PSL 115-23		5	ARCO 5				4030	705	0	0	0	0	0	0	0	70	80	10.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			556836.1		3508232.3
07-03333-7	PSL 115-23		6	ARCO 6				4070	705	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			556836.1		3508232.3
07-03334-6	PSL 115-24		1	ARCO 1				4000	800	710	0	0	0	0	0	0	110	750	85.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			558459.3		3508264.7
07-03334-6	PSL 115-24		2	ARCO 2				3970	750	0	0	0	0	0	0	0	95	551	28.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			558459.3		3508264.7
07-03334-6	PSL 115-24		3	ARCO 3				4000	725	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			558459.3		3508264.7
07-03334-6	PSL 115-24		4	ARCO 4				4005	840	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			558459.3		3508264.7
07-03334-6	PSL 115-24		5	ARCO 5				4000	725	0	0	0	0	0	0	0	545	722	9.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0			558459.3		3508264.7
07-03334-6	PSL 115-24		6	ARCO 6				4000	760	0	0	0	0	0	0	0	550	741	171.0
557	563 638	680	696	737	0	0	0	0	0	0	0	0	0	0			558459.3		3508264.7
07-03334-6	PSL 115-24		7	ARCO 7				3990	720	0	0	0	0	0	0	0	630	708	78.0

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO	LOCATION			HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT TOP S	BASE S THICK S
TOP1	BOT1	TOP2	BOT2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X EAST	Y NORTH
658	708	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558459.3	3508264.7
07-03334-6	PSL 115-24			8	ARCO 8					3990	725	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558459.3	3508264.7
07-03334-6	PSL 115-24			9	ARCO 9					3985	725	0	0	0	0	0	0	0 420	480 15.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558459.3	3508264.7
07-03334-6	PSL 115-24			10	ARCO 10					3985	752	0	0	0	0	0	0	0 204	752 111.0
664	666	686	702	710	748	0	0	0	0	0	0	0	0	0	0			558459.3	3508264.7
07-03334-6	PSL 115-24			12	ARCO 12					3980	725	0	0	0	0	0	0	0 318	326 8.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558459.3	3508264.7
07-03334-6	PSL 115-24			13	ARCO 13					3980	725	0	0	0	0	0	0	0 175	410 11.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558459.3	3508264.7
07-03334-6	PSL 115-24			14	ARCO 14					3980	725	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558459.3	3508264.7
07-03334-6	PSL 115-24			16	ARCO 15					4010	549	0	0	0	0	0	0	0 549	549 1.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558459.3	3508264.7
07-03334-6	PSL 115-24			17	ARCO 16					4050	765	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558459.3	3508264.7
07-03334-6	PSL 115-24			18	ARCO 17					3995	745	0	0	0	0	0	0	0 290	420 30.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558459.3	3508264.7
07-03334-6	PSL 115-24			19	ARCO 18					3970	770	0	0	0	0	0	0	0 100	765 80.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558459.3	3508264.7
07-03334-6	PSL 115-24			15	ARCO 15A					4010	700	0	0	0	0	0	0	0 542	667 125.0
566	610	631	633	639	651	0	0	0	0	0	0	0	0	0	0			558459.3	3508264.7
07-03334-6	PSL 115-24			11	ARCO 11					3990	725	0	0	0	0	0	0	0 324	325 1.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558459.3	3508264.7
07-03335-5	PSL 115-25			1	ARCO 1					3965	700	0	0	0	0	0	0	0 220	665 160.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			560133.3	3508280.6
07-03335-5	PSL 115-25			2	ARCO 2					3970	850	810	0	0	0	0	0	0 80	807 157.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			560133.3	3508280.6
07-03335-5	PSL 115-25			3	ARCO 3					3930	832	0	0	0	0	0	0	0 116	510 12.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			560133.3	3508280.6
07-03335-5	PSL 115-25			4	ARCO 4					3940	885	865	0	0	0	0	0	0 80	865 257.0
426	538	0	0	0	0	0	0	0	0	0	0	0	0	0	0			560133.3	3508280.6
07-03335-5	PSL 115-25			5	ARCO 5					3940	870	0	0	0	0	0	0	0 70	870 162.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			560133.3	3508280.6
07-03336-4	PSL 115-26			1	TX GULF SULF		2-F			3900	1005	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			561723.0	3508278.8

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO	LOCATION			HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT	TOP	S	BASE	S	THICK	S
TOP1	BOT1	TOP2	BOT2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X	EAST		Y	NORTH		
07-03419-4	T & P 60-1-30			1	BEAR CREEK 11-1					3550	720	0	0	0	0	0	0	0	0		0		0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			565057.1			3532933.1			
07-03419-4	T & P 60-1-30			1	DALCO 31-1					3470	710	0	0	0	0	0	0	0	0		0		0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			565057.1			3532933.1			
07-03419-4	T & P 60-1-30			2	DALCO 5-1					3565	710	0	0	0	0	0	0	0	0		0		0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			565057.1			3532933.1			
07-03419-4	T & P 60-1-30			3	DALCO 27-1					3510	1470	0	0	0	0	0	0	0	0		0		0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			565057.1			3532933.1			
07-03419-4	TP 60-1-30			1	GUY POKORNY 11-2					3560	715	0	0	0	0	0	0	0	0		0		0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			565057.1			3532933.1			
07-03419-4	T&P 60-1-30			1	PHILLIPS 36-1					3510	1412	1405	0	0	0	0	0	0	720		1385		251	.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			565057.1			3532933.1			
07-03419-4	T&P 60-1-30			2	PHILLIPS 18-2					3500	1350	0	0	0	0	0	0	0	0		0		0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			565057.1			3532933.1			
07-03419-4	T&P 60-1-30			3	PHILLIPS 6-2					3580	715	0	0	0	0	0	0	0	30		50		1	.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			565057.1			3532933.1			
07-03422-9	T&P 60-1-34			1	FREEPORT 24					3348	1655	0	0	0	0	0	0	0	0		0		0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			569959.4			3531356.2			
07-03424-7	T&P 60-1-40			1	TX GULF SULF 1-A					3440	1630	0	0	0	0	0	0	0	0		0		0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568335.0			3529666.6			
07-03436-3	T&P 61-1-16			1	PHILLIPS 16-1					3840	1465	1435	0	290	0	0	0	0	0		0		0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558329.7			3536150.0			
07-03443-4	T&P 61-1-26			1	PHILLIPS 26-1					3540	1320	1315	0	0	0	0	0	0	0		0		0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			561708.5			3532952.0			
07-03446-1	T&P 61-1-28			1	PHILLIPS 28-3					3700	1220	1190	0	0	0	0	0	0	0		0		0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			558326.4			3532936.8			
07-03447-0	T&P 61-1-30			1	PHILLIPS 30-2					3660	925	900	0	0	0	0	0	0	0		0		0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			554928.3			3532820.0			
07-03449-8	T&P 61-1-32			1	PHILLIPS 32-1					3540	841	0	0	0	0	0	0	0	88		331		2	.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556668.9			3531179.2			
07-03449-8	T&P 61-1-32			2	PHILLIPS 32-2					3600	975	950	0	0	0	0	0	0	0		0		0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556668.9			3531179.2			
07-03449-8	T&P 61-1-32			3	PHILLIPS 32-3					3580	845	820	0	0	0	0	0	0	225		790		0	.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556668.9			3531179.2			
07-03449-8	T&P 61-1-32			4	PHILLIPS 32-4					3570	780	755	0	0	0	0	0	0	305		310		5	.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556668.9			3531179.2			
07-03449-8	T&P 61-1-32			5	PHILLIPS 32-6					3540	820	0	0	0	0	0	0	0	490		520		0	.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			556668.9			3531179.2			

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1 / TOP2 / BOT2	HOLE / TOP3	OPERATOR NO / BOT3 / TOP4 / BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE / Y	S THICK / NORTH	S
07-03450-4	T & P 61-1-34	1	DALCO 33-1			3500	1050	0	0	0	0	0	0	0	90	400	100.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			560050.0		3531295.9		
07-03450-4	T & P 61-1-34	2	DALCO 34-2			3500	1057	0	0	0	0	0	0	0	120	700	430.0	
397	397 0 0	0	0 0 0	0	0	0	0	0	0	0	0			560050.0		3531295.9		
07-03450-4	T & P 61-1-34	3	DALCO 19-1			3570	1155	0	0	0	0	0	0	0	600	650	20.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			560050.0		3531295.9		
07-03450-4	T & P 61-1-34	4	DALCO 31-1			3510	1068	0	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			560050.0		3531295.9		
07-03450-4	T&P 61-1-34	5	PHILLIPS 36-1			3527	1000	975	0	0	0	0	0	0	660	707	47.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			560050.0		3531295.9		
07-03450-4	T&P 61-1-34	6	PHILLIPS 26-2			3550	895	0	0	0	0	0	0	0	495	545	50.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			560050.0		3531295.9		
07-03450-4	T&P 61-1-34	7	PHILLIPS 14-2			3640	850	0	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			560050.0		3531295.9		
07-03450-4	T&P 61-1-34	8	PHILLIPS 28-2			3550	1025	0	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			560050.0		3531295.9		
07-03450-4	T&P 61-1-34	9	GUY POKORNY 1			3550	1010	0	0	0	0	0	0	0	105	960	173.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			560050.0		3531295.9		
07-03450-4	T&P 61-1-34	10	PHILLIPS 36-1			3520	707	0	0	0	0	0	0	0	660	707	47.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			560050.0		3531295.9		
07-03450-4	T & P 61-1-34	1	BEAR CREEK 27-1			3540	1092	0	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			560050.0		3531295.9		
07-03451-3	T&P 61-1-36	1	PHILLIPS 36-1			3460	1210	1180	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			563381.4		3531310.6		
07-03451-3	T&P 61-1-36	2	PHILLIPS 36-2			3480	1220	1210	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			563381.4		3531310.6		
07-03451-3	T&P 61-1-36	3	PHILLIPS 36-3			3500	1335	325	1305	300	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			563381.4		3531310.6		
07-03452-2	T&P 61-1-38	1	PHILLIPS 38-1			3484	1080	1060	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			561740.4		3529587.0		
07-03452-2	T&P 61-1-38	2	PHILLIPS 38-2			3460	1100	1060	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			561740.4		3529587.0		
07-03452-2	T&P 61-1-38	3	PHILLIPS 38-4			3470	1100	1085	0	0	0	0	0	0	450	455	5.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			561740.4		3529587.0		
07-03453-1	T & P 61-1-40	1	BEAR CREEK 1-1			3520	993	0	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			558443.1		3529555.7		
07-03453-1	T & P 61-1-40	1	DALCO 9-1			3510	895	0	0	0	0	0	0	0	565	619	54.0	

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / LOCATION	HOLE / OPERATOR NO									ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT TOP S	BASE S THICK S
TOP1 / BOT1 / TOP2 / BOT2	TOP3 / BOT3 / TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8		X EAST	Y NORTH
574 578 580 606	608 619 0	0	0	0	0	0	0	0	0	0		558443.1	3529555.7
07-03453-1 T & P 61-1-40	2 DALCO 7-1				3530	920	0	0	0	0	0	0	0 190	900 90.0
875 893 0 0	0 0 0	0	0	0	0	0	0	0	0	0		558443.1	3529555.7
07-03453-1 T & P 61-1-40	3 DALCO 7-2				3520	935	0	0	0	0	0	0	0 280	645 62.0
585 608 610 632	0 0 0	0	0	0	0	0	0	0	0	0		558443.1	3529555.7
07-03453-1 T&P 61-1-40	1 PHILLIPS 2-1				3540	701	0	0	0	0	0	0	0 90	570 145.0
490 494 550 570	0 0 0	0	0	0	0	0	0	0	0	0		558443.1	3529555.7
07-03453-1 T&P 61-1-40	2 PHILLIPS 2-3				3540	500	0	0	0	0	0	0	0 305	500 53.0
475 480 482 485	487 490 491	491	492	494	499	500	0	0	0	0		558443.1	3529555.7
07-03453-1 T&P 61-1-40	3 PHILLIPS 8-2				3520	715	0	0	0	0	0	0	0 275	534 6.0
0 0 0 0	0 0 0	0	0	0	0	0	0	0	0	0		558443.1	3529555.7
07-03453-1 T&P 61-1-40	4 PHILLIPS 10-3				3520	710	0	0	0	0	0	0	0 240	244 4.0
0 0 0 0	0 0 0	0	0	0	0	0	0	0	0	0		558443.1	3529555.7
07-03453-1 T&P 61-1-40	5 PHILLIPS 10-2				3520	750	0	0	0	0	0	0	0 285	647 27.0
0 0 0 0	0 0 0	0	0	0	0	0	0	0	0	0		558443.1	3529555.7
07-03453-1 T&P 61-1-40	6 PHILLIPS 22-2				3500	795	0	0	0	0	0	0	0 0	0 0.0
0 0 0 0	0 0 0	0	0	0	0	0	0	0	0	0		558443.1	3529555.7
07-03453-1 T&P 61-1-40	7 PHILLIPS 16-2				3500	896	0	0	0	0	0	0	0 100	610 232.0
0 0 0 0	0 0 0	0	0	0	0	0	0	0	0	0		558443.1	3529555.7
07-03453-1 T&P 61-1-40	8 PHILLIPS 2-4				3540	956	0	0	0	0	0	0	0 345	670 132.0
576 591 0 0	0 0 0	0	0	0	0	0	0	0	0	0		558443.1	3529555.7
07-03453-1 T&P 61-1-40	9 PHILLIPS 2-6				3540	630	0	0	0	0	0	0	0 120	125 5.0
0 0 0 0	0 0 0	0	0	0	0	0	0	0	0	0		558443.1	3529555.7
07-03453-1 T&P 61-1-40	10 PHILLIPS 2-10				3540	611	0	0	0	0	0	0	0 270	611 132.0
461 462 468 485	0 0 0	0	0	0	0	0	0	0	0	0		558443.1	3529555.7
07-03453-1 T&P 61-1-40	11 PHILLIPS 2-5				3540	965	935	0	0	0	0	0	0 525	645 76.0
525 537 542 543	560 581 0	0	0	0	0	0	0	0	0	0		558443.1	3529555.7
07-03453-1 T&P 61-1-40	12 PHILLIPS 2-9				3540	609	0	0	0	0	0	0	0 150	609 345.0
475 476 479 501	505 517 569	589	0	0	0	0	0	0	0	0		558443.1	3529555.7
07-03453-1 T&P 61-1-40	13 PHILLIPS 2-7				3530	965	0	0	0	0	0	0	0 0	0 0.0
0 0 0 0	0 0 0	0	0	0	0	0	0	0	0	0		558443.1	3529555.7
07-03453-1 T&P 61-1-40	14 PHILLIPS 2-12				3540	600	0	0	0	0	0	0	0 140	445 25.0
0 0 0 0	0 0 0	0	0	0	0	0	0	0	0	0		558443.1	3529555.7
07-03453-1 T&P 61-1-40	15 PHILLIPS 2-11				3540	928	0	0	0	0	0	0	0 465	926 186.0
515 523 533 579	585 586 589	590	599	601	607	607	613	623	0	0		558443.1	3529555.7
07-03453-1 T&P 61-1-40	16 PHILLIPS 2-13				3540	925	0	0	0	0	0	0	0 295	445 2.0
0 0 0 0	0 0 0	0	0	0	0	0	0	0	0	0		558443.1	3529555.7

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1 / TOP2 / BOT2	HOLE / TOP3	OPERATOR NO / BOT3 / TOP4 / BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE / Y	S THICK / NORTH	S
07-03453-1	T&P 61-1-40	17	PHILLIPS 4-2			3530	820	0	0	0	0	0	0	0	105	640	52.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			558443.1		3529555.7		
07-03453-1	T&P 61-1-40	18	PHILLIPS 6-2			3540	890	0	0	0	0	0	0	0	225	240	15.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			558443.1		3529555.7		
07-03453-1	T&P 61-1-40	19	PHILLIPS 2-2			3540	140	0	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			558443.1		3529555.7		
07-03453-1	T&P 61-1-40	1	GUY POKORNY 2			3540	761	0	0	0	0	0	0	0	135	706	433.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			558443.1		3529555.7		
07-03453-1	T&P 61-1-40	2	GUY POKORNY 3			3520	734	0	0	0	0	0	0	0	545	545	1.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			558443.1		3529555.7		
07-03454-0	T & P 61-1-42	1	BEAR CREEK 35-1			3650	472	0	0	0	0	0	0	0	57	75	2.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			554976.6		3529522.8		
07-03454-0	T & P 61-1-42	2	BEAR CREEK 15-1			3600	605	0	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			554976.6		3529522.8		
07-03454-0	T &P 61-1-42	1	DALCO 13-1			3620	705	0	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			554976.6		3529522.8		
07-03454-0	T&P 61-1-42	1	PHILLIPS 4-1			3620	705	0	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			554976.6		3529522.8		
07-03454-0	T&P 61-1-42	1	PHILLIPS 8-2			3540	590	0	0	0	0	0	0	0	380	390	10.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			554976.6		3529522.8		
07-03454-0	T&P 61-1-42	2	PHILLIPS 4-2			3620	555	0	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			554976.6		3529522.8		
07-03455-9	T & P 61-1-44	1	BEAR CREEK 17-1			3550	710	0	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			556700.4		3527864.9		
07-03455-9	T & P 61-1-44	1	DALCO 23-1			3550	710	0	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			556700.4		3527864.9		
07-03455-9	T & P 61-1-44	2	DALCO 13-1			3600	710	0	0	0	0	0	0	0	360	370	10.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			556700.4		3527864.9		
07-03455-9	T & P 61-1-44	3	DALCO 19-1			3570	720	0	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			556700.4		3527864.9		
07-03455-9	T&P 61-1-44	1	PHILLIPS 32-2			3530	705	610	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			556700.4		3527864.9		
07-03457-7	T & P 61-1-48	1	BEAR CREEK 15-1			3420	712	0	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			563430.4		3527928.9		
07-03457-7	T & P 61-1-48	2	BEAR CREEK 17-1			3480	1212	0	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			563430.4		3527928.9		
07-03457-7	T & P 61-1-48	1	DALCO 23-1			3490	1175	0	0	0	0	0	0	0	560	575	15.0	
0	0 0 0	0	0 0 0	0	0	0	0	0	0	0	0			563430.4		3527928.9		

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / LOCATION	HOLE / OPERATOR NO	ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT TOP S / BASE S THICK S
TOP1 BOT1 TOP2 BOT2	TOP3 BOT3 TOP4 BOT4 TOP5 BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X EAST / Y NORTH
07-03457-7 T & P 61-1-48	2 DALCO 25-1	3500	1190	0	0	0	0	0	0	0 100 / 610 60.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			563430.4 / 3527928.9
07-03457-7 T & P 61-1-48	3 DALCO 27-1	3515	1150	0	0	0	0	0	0	0 90 / 380 30.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			563430.4 / 3527928.9
07-03457-7 T&P 61-1-48	1 PHILLIPS 32-1	3480	702	0	0	0	0	0	0	0 277 / 555 278.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			563430.4 / 3527928.9
07-03457-7 T&P 61-1-48	1 PHILLIPS 22-2	3480	1175	1135	0	0	0	0	0	0 80 / 320 0.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			563430.4 / 3527928.9
07-03538-0 TP 59-2-46	1 HARRIS & WALTON CT-1	3380	715	0	0	0	0	0	0	0 90 / 100 10.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			580127.0 / 3514913.7
07-03538-0 TP 59-2-46	2 HARRIS & WALTON CT-3	3340	715	0	0	0	0	0	0	0 0 / 0 0.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			580127.0 / 3514913.7
07-03538-0 TP 59-2-46	1 HARRIS & WALTON CT-4	3380	705	0	0	0	0	0	0	0 0 / 0 0.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			580127.0 / 3514913.7
07-03540-6 T&P 60-2-6	1 TX GULF SULF 1-C	3540	1313	0	0	0	0	0	0	0 0 / 0 0.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			565120.5 / 3526253.8
07-03540-6 T&P 60-2-6	1 FREEPORT 12	3585	1310	1270	0	0	0	0	0	0 0 / 0 0.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			565120.5 / 3526253.8
07-03546-0 TP 60-2-22	1 HARRIS & WALTON CT-1	3680	715	0	0	0	0	0	0	0 0 / 0 0.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			570088.8 / 3521295.3
07-03546-0 TP 60-2-22	2 HARRIS & WALTON CT-2	3625	715	0	0	0	0	0	0	0 0 / 0 0.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			570088.8 / 3521295.3
07-03546-0 TP 60-2-22	3 HARRIS & WALTON CT-3	3700	705	0	0	0	0	0	0	0 0 / 0 0.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			570088.8 / 3521295.3
07-03546-0 T&P 60-2-22	1 FREEPORT 77	3642	650	0	0	0	0	0	0	0 0 / 0 0.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			570088.8 / 3521295.3
07-03547-9 TP 60-2-24	1 HARRIS & WALTON CT-1	3620	715	0	0	0	0	0	0	0 130 / 590 21.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			573368.9 / 3521360.3
07-03547-9 TP 60-2-24	2 HARRIS & WALTON CT-2	3600	715	0	0	0	0	0	0	0 0 / 0 0.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			573368.9 / 3521360.3
07-03547-9 TP 60-2-24	3 HARRIS & WALTON CT-3	3580	710	0	0	0	0	0	0	0 0 / 0 0.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			573368.9 / 3521360.3
07-03548-8 TP 60-1-26	1 HARRIS & WALTON CT-1	3640	715	0	0	0	0	0	0	0 0 / 0 0.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			571710.1 / 3519738.0
07-03548-8 TP 60-1-26	2 HARRIS & WALTON CT-2	3660	715	0	0	0	0	0	0	0 0 / 0 0.0
0 0 0 0	0 0 0 0 0 0	0	0	0	0	0	0			571710.1 / 3519738.0
07-03548-8 TP 60-1-26	3 HARRIS & WALTON CT-3	3610	705	0	0	0	0	0	0	0 0 / 0 0.0

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO	LOCATION			HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT	TOP S	BASE S	THICK S
TOP1	BOT1	TOP2	BOT2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X	EAST	Y	NORTH
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571710.1		3519738.0	
07-03548-8	T&P 60-2-26			1	FREEPORT 80					3652	728	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571710.1		3519738.0	
07-03550-3	T & P 60-2-28			1	BEAR CREEK 27-2					3730	732	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568497.8		3519656.7	
07-03550-3	T & P 60-2-28			2	BEAR CREEK 36-3					3720	700	0	0	0	0	0	0	0	370	370	1.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568497.8		3519656.7	
07-03550-3	T & P 60-2-28			3	BEAR CREEK 26-4					3720	516	0	0 .	0	0	0	0	0	30	516	330.0
30	50	280	290	300	320	330	340	370	390	0	0	0	0	0	0			568497.8		3519656.7	
07-03550-3	T & P 60-2-28			4	BEAR CREEK 26-5					3720	712	0	0	0	0	0	0	0	320	580	70.0
320	330	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568497.8		3519656.7	
07-03550-3	T & P 60-2-28			5	BEAR CREEK 26-6					3720	398	0	0	0	0	0	0	0	300	395	86.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568497.8		3519656.7	
07-03550-3	T & P 60-2-28			6	BEAR CREEK 26-7					3720	454	0	0	0	0	0	0	0	70	339	12.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568497.8		3519656.7	
07-03550-3	T & P 60-2-28			8	BEAR CREEK 26-9					3720	1592	1550	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568497.8		3519656.7	
07-03550-3	T & P 60-2-28			10	BEAR CREEK 25-2					3720	711	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568497.8		3519656.7	
07-03550-3	TP 60-2-28			1	GULF OIL 19-1					3765	985	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568497.8		3519656.7	
07-03550-3	TP 60-2-28			2	TX GULF SULF 23-1					3695	990	0	0	0	0	0	0	0	500	501	1.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568497.8		3519656.7	
07-03550-3	TP 60-2-28			3	TX GULF SULF 26-10					3720	990	0	0	0	0	0	0	0	1	430	71.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568497.8		3519656.7	
07-03550-3	TP 60-2-28			4	TX GULF SULF 38-1					3740	990	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568497.8		3519656.7	
07-03550-3	T&P 60-2-28			1	FREEPORT 32					3710	1596	1560	0	560	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568497.8		3519656.7	
07-03550-3	T&P 60-2-28			2	FREEPORT 33					3722	1580	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568497.8		3519656.7	
07-03550-3	T & P 60-2-28			7	BEAR CREEK 26-8					3720	742	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568497.8		3519656.7	
07-03550-3	T & P 60-2-28			9	BEAR CREEK 24-3					3710	600	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			568497.8		3519656.7	
07-03551-2	TP 60-1-30			1	HARRIS & WALTON CT-1					3800	715	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			565217.6		3519591.7	

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1	TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3	TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT TOP S / X EAST	BASE S THICK S / Y NORTH
07-03551-2	TP 60-1-30			2	HARRIS & WALTON CT-2					3780	710	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			565217.6	3519591.7
07-03551-2	TP 60-1-30			3	HARRIS & WALTON CT-3					3820	715	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			565217.6	3519591.7
07-03552-1	T & P 60-2-32			1	BEAR CREEK 23-2					3795	705	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			566772.0	3517966.1
07-03552-1	TP 60-2-32			1	TX GULF SULF 25-1					3760	990	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			566772.0	3517966.1
07-03552-1	TP 60-2-32			2	TX GULF SULF 19-1					3750	990	0	0	0	0	0	0	0 890	891 1.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			566772.0	3517966.1
07-03552-1	TP 60-2-32			3	TX GULF SULF 27-1					3740	985	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			566772.0	3517966.1
07-03552-1	TP 60-2-32			4	TX GULF SULF 6-1					3790	985	0	0	0	0	0	0	0 0	0 0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			566772.0	3517966.1
07-03553-0	TP 60-2-34			1	HARRIS & WALTON CT-1					3690	715	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			570136.9	3518015.0
07-03553-0	TP 60-2-34			2	HARRIS & WALTON CT-2					3630	715	0	0	0	0	0	0	0 700	710 10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			570136.9	3518015.0
07-03553-0	TP 60-2-34			3	HARRIS & WALTON CT-3					3700	710	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			570136.9	3518015.0
07-03553-0	T&P 60-2-34			1	FREEPORT 82					3689	1634	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			570136.9	3518015.0
07-03553-0	T&P 60-2-34			2	FREEPORT 83					3608	640	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			570136.9	3518015.0
07-03553-0	T&P 60-2-34			3	FREEPORT 84					3617	735	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			570136.9	3518015.0
07-03553-0	T&P 60-2-34			4	FREEPORT 81					3674	755	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			570136.9	3518015.0
07-03553-0	T&P 60-2-34			5	FREEPORT 68					3661	750	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			570136.9	3518015.0
07-03553-0	T&P 60-2-34			6	FREEPORT 78					3687	650	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			570136.9	3518015.0
07-03554-9	TP 60-2-36			1	HARRIS & WALTON CT-1					3630	715	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			573383.2	3518079.6
07-03554-9	TP 60-2-36			2	HARRIS & WALTON CT-3					3580	712	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			573383.2	3518079.6
07-03555-8	TP 60-2-38			1	HARRIS & WALTON CT-1					3580	715	0	0	0	0	0	0	0 0	0 0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			571725.0	3516389.7

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1 / TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3 / TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE / Y	S THICK / NORTH	S
07-03555-8	TP 60-2-38		2	HARRIS & WALTON CT-2				3530	710	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			571725.0		3516389.7		
07-03555-8	TP 60-2-38		3	HARRIS & WALTON CT-3				3520	710	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			571725.0		3516389.7		
07-03557-6	TP 60-2-42		1	HARRIS & WALTON CT-1				3750	715	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			565198.9		3516226.2		
07-03557-6	TP 60-2-42		2	HARRIS & WALTON CT-2				3770	705	0	0	0	0	0	0	0	220	580	100.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			565198.9		3516226.2		
07-03557-6	TP 60-2-42		3	HARRIS & WALTON CT-3				3785	710	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			565198.9		3516226.2		
07-03558-5	TP 60-2-44		1	ARCO 1				3680	1200	0	0	0	0	0	0	0	420	990	20.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			566904.3		3514720.4		
07-03558-5	TP 60-2-44		2	ARCO 2				3700	1270	0	0	0	0	0	0	0	255	1010	199.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			566904.3		3514720.4		
07-03558-5	TP 60-2-44		3	ARCO 3				3670	1000	0	0	0	0	0	0	0	690	710	20.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			566904.3		3514720.4		
07-03558-5	TP 60-2-44		4	ARCO 4				3725	1327	0	0	0	0	0	0	0	320	1140	110.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			566904.3		3514720.4		
07-03558-5	TP 60-2-44		5	ARCO 5				3680	705	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			566904.3		3514720.4		
07-03559-4	TP 60-2-46		1	HARRIS & WALTON CT-1				3580	700	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			570134.0		3514751.1		
07-03559-4	TP 60-2-46		2	HARRIS & WALTON CT-2				3590	715	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			570134.0		3514751.1		
07-03559-4	TP 60-2-46		3	HARRIS & WALTON CT-3				3590	710	0	0	0	0	0	0	0	585	670	2.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			570134.0		3514751.1		
07-03560-1	TP 60-2-48		1	HARRIS & WALTON CT-1				3500	705	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			573465.1		3514799.6		
07-03560-1	TP 60-2-48		2	HARRIS & WALTON CT-2				3480	715	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			573465.1		3514799.6		
07-03560-1	TP 60-2-48		3	HARRIS & WALTON CT-3				3485	710	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			573465.1		3514799.6		
07-03561-0	T & P 61-2-4		1	BEAR CREEK 31-1				3620	710	0	0	0	0	0	0	0	180	190	10.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			558406.7		3526257.7		
07-03561-0	T & P 61-2-4		2	DALCO 11-2				3520	710	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0			558406.7		3526257.7		
07-03561-0	T & P 61-2-4		3	DALCO 11-1				3520	700	0	0	0	0	0	0	0	0	0	0.0	

ASSESSMENT OF NATIVE SULFUR POTENTIAL
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(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1 / TOP2 / BOT2	HOLE / TOP3	OPERATOR NO / BOT3 / TOP4 / BOT4 / TOP5 / BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT TOP S / X / EAST	BASE S THICK S / Y / NORTH
Ø	Ø Ø Ø	Ø	Ø Ø Ø Ø Ø Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		558406.7	3526257.7
07-03561-Ø	T & P 61-2-4	4	DALCO 29-1	3640	850	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.1
Ø	Ø Ø Ø	Ø	Ø Ø Ø Ø Ø Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		558406.7	3526257.7
07-03561-Ø	T&P 61-2-4	1	PHILLIPS 10-1	3510	595	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø Ø Ø	Ø	Ø Ø Ø Ø Ø Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		558406.7	3526257.7
07-03561-Ø	T&P 61-2-4	2	PHILLIPS 4-1	3530	705	645	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø Ø Ø	Ø	Ø Ø Ø Ø Ø Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		558406.7	3526257.7
07-03561-Ø	T&P 61-2-4	1	PHILLIPS 32-1	3620	705	Ø	Ø	Ø	Ø	Ø	Ø	Ø 260	265 5.Ø
Ø	Ø Ø Ø	Ø	Ø Ø Ø Ø Ø Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		558406.7	3526257.7
07-03562-9	T&P 61-2-6	1	PHILLIPS 24-1	3560	703	Ø	Ø	Ø	Ø	Ø	Ø	Ø 305	310 5.Ø
Ø	Ø Ø Ø	Ø	Ø Ø Ø Ø Ø Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		554974.7	3526157.4
07-03562-9	T&P 61-2-6	1	PHILLIPS 16-2	3560	710	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø Ø Ø	Ø	Ø Ø Ø Ø Ø Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		554974.7	3526157.4
07-03562-9	T&P 61-2-6	2	PHILLIPS 17-1	3560	330	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø Ø Ø	Ø	Ø Ø Ø Ø Ø Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		554974.7	3526157.4
07-03562-9	T&P 61-2-6	1	GUY POKORNY 25-3	3580	365	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø Ø Ø	Ø	Ø Ø Ø Ø Ø Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		554974.7	3526157.4
07-03562-9	T&P 61-2-6	2	POKORNY 1-2	3560	435	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø Ø Ø	Ø	Ø Ø Ø Ø Ø Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		554974.7	3526157.4
07-03563-8	T & P 61-2-8	1	BEAR CREEK 9-1	3650	710	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø Ø Ø	Ø	Ø Ø Ø Ø Ø Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		556647.4	3524532.9
07-03563-8	T & P 61-2-8	1	DALCO 27-1	3680	705	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø Ø Ø	Ø	Ø Ø Ø Ø Ø Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		556647.4	3524532.9
07-03563-8	T & P 61-2-8	2	DALCO 19-1	3640	710	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø Ø Ø	Ø	Ø Ø Ø Ø Ø Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		556647.4	3524532.9
07-03563-8	T & P 61-2-8	3	DALCO 29-1	3690	710	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø Ø Ø	Ø	Ø Ø Ø Ø Ø Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		556647.4	3524532.9
07-03563-8	T&P 61-2-8	1	PHILLIPS 8-1	3650	705	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø Ø Ø	Ø	Ø Ø Ø Ø Ø Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		556647.4	3524532.9
07-03563-8	T&P 61-2-8	2	PHILLIPS 24-2	3700	700	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø Ø Ø	Ø	Ø Ø Ø Ø Ø Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		556647.4	3524532.9
07-03687-9	T&P 60-5-8	1	PHILLIPS 3-1	3760	1326	Ø	Ø	Ø	Ø	Ø	Ø	Ø Ø	Ø Ø.Ø
Ø	Ø Ø Ø	Ø	Ø Ø Ø Ø Ø Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		567875.8	3483663.8
07-03688-8	TP 60-5-24	1	ARCO 1	3625	700	Ø	Ø	Ø	Ø	Ø	Ø	Ø 490	680 3.Ø
Ø	Ø Ø Ø	Ø	Ø Ø Ø Ø Ø Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		574671.3	3480396.8
07-03688-8	TP 60-5-24	2	ARCO 2	3635	720	Ø	Ø	Ø	Ø	Ø	Ø	Ø 374	381 3.Ø
Ø	Ø Ø Ø	Ø	Ø Ø Ø Ø Ø Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø		574671.3	3480396.8

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1 / TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3 / TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE / Y	S THICK / NORTH	S
07-03688-8	TP 60-5-24		3	ARCO 4				3630	710	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0	0	0	0	0	0	0	0	0	0			574671.3		3480396.8		
07-03688-8	TP 60-5-24		4	ARCO 5				3605	710	0	0	470	0	0	0	0	0	0	0.0	
0	0 0	0	0	0	0	0	0	0	0	0	0	0	0			574671.3		3480396.8		
07-03688-8	TP 60-5-24		5	ARCO 6				3640	705	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0	0	0	0	0	0	0	0	0	0			574671.3		3480396.8		
07-03689-7	TP 60-5-26		1	ARCO 1				3730	700	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0	0	0	0	0	0	0	0	0	0			573131.8		3478674.2		
07-03689-7	TP 60-5-26		2	ARCO 2				3760	732	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0	0	0	0	0	0	0	0	0	0			573131.8		3478674.2		
07-03689-7	TP 60-5-26		3	ARCO 3				3750	750	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0	0	0	0	0	0	0	0	0	0			573131.8		3478674.2		
07-03689-7	TP 60-5-26		4	ARCO 4				3740	710	0	0	225	0	0	0	0	0	0	0.0	
0	0 0	0	0	0	0	0	0	0	0	0	0	0	0			573131.8		3478674.2		
07-03689-7	TP 60-5-26		5	ARCO 5				3740	1250	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0	0	0	0	0	0	0	0	0	0			573131.8		3478674.2		
07-03692-2	TP 60-5-36		1	ARCO 1				3760	700	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0	0	0	0	0	0	0	0	0	0			574788.3		3476981.9		
07-03692-2	TP 60-5-36		2	ARCO 2				3730	740	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0	0	0	0	0	0	0	0	0	0			574788.3		3476981.9		
07-03692-2	TP 60-5-36		3	ARCO 3				3695	750	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0	0	0	0	0	0	0	0	0	0			574788.3		3476981.9		
07-03692-2	TP 60-5-36		4	ARCO 4				3695	710	0	0	275	0	0	0	0	0	0	0.1	
0	0 0	0	0	0	0	0	0	0	0	0	0	0	0			574788.3		3476981.9		
07-03692-2	TP 60-5-36		5	ARCO 5				3695	705	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0	0	0	0	0	0	0	0	0	0			574788.3		3476981.9		
07-03731-5	TP 59-6-44		1	FREEPORT 1				3505	790	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0	0	0	0	0	0	0	0	0	0			578571.9		3459650.0		
07-03764-5	TP 60-7-2		1	ARCO 1				3700	1900	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0	0	0	0	0	0	0	0	0	0			574040.1		3457831.3		
07-03765-4	TP 60-7-12		1	ARCO 1				3570	1900	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0	0	0	0	0	0	0	0	0	0			575493.8		3456120.2		
07-05411-7	PSL 88-13		1	HUMBLE 1				4360	1056	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0	0	0	0	0	0	0	0	0	0			555855.9		3461886.4		
07-07329-4	BURDETTE 202-1		1	ARCO 1				2570	1000	0	0	0	605	435	0	0	776	910	86.0	
0	0 0	0	0	0	0	0	0	0	0	0	0	0	0			708120.2		3443941.8		
07-07329-4	BURDETTE 202-1		2	ARCO 2				2575	1000	0	0	0	565	475	0	0	775	885	35.0	
0	0 0	0	0	0	0	0	0	0	0	0	0	0	0			708120.2		3443941.8		

ASSESSMENT OF NATIVE SULFUR POTENTIAL
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(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1 / TOP2 / BOT2	HOLE / TOP3	OPERATOR NO / BOT3 / TOP4 / BOT4 / TOP5 / BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE / Y	S THICK / NORTH	S
07-07329-4	BURDETTE 202-1	3	ARCO 3A	2570	1000	0	925	0	485	340	0	0	690	795	49.0	
0	0 0 0	0	0 0 0 0 0 0	0	0	0	0	0	0				708120.2	3443941.8		
07-07329-4	BURDETTE 202-1	4	ARCO 4	2560	1000	0	0	0	555	430	0	0	805	922	74.0	
0	0 0 0	0	0 0 0 0 0 0	0	0	0	0	0	0				708120.2	3443941.8		
07-07329-4	BURDETTE 202-1	5	ARCO 5	2554	1000	0	755	0	315	195	0	815	0	0	0.1	
0	0 0 0	0	0 0 0 0 0 0	0	0	0	0	0	0				708120.2	3443941.8		
07-07329-4	BURDETTE 202-1	6	ARCO 6	2570	1024	0	895	0	435	295	0	935	485	925	20.0	
0	0 0 0	0	0 0 0 0 0 0	0	0	0	0	0	0				708120.2	3443941.8		
07-07329-4	BURDETTE 202-1	1	ARCO 9	2570	1010	0	0	0	0	0	0	0	965	990	25.0	
0	0 0 0	0	0 0 0 0 0 0	0	0	0	0	0	0				708120.2	3443941.8		
07-07330-1	BURDETTE 202-1	1	ARCO 7	2570	1020	0	0	0	0	0	0	0	850	1005	55.0	
0	0 0 0	0	0 0 0 0 0 0	0	0	0	0	0	0				708120.2	3443941.8		
07-07396-2	P.H.FALL 602	1	DUVAL P34	2581	800	0	0	0	0	0	0	0	0	0	0.1	
0	0 0 0	0	0 0 0 0 0 0	0	0	0	0	0	0				712792.4	3439902.5		
07-07396-2	P.H.FALL 602	2	DUVAL P35	2535	800	0	0	0	0	0	0	0	0	0	0.1	
0	0 0 0	0	0 0 0 0 0 0	0	0	0	0	0	0				712792.4	3439902.5		
07-07396-2	P.H.FALL 602	3	DUVAL P16	2575	1000	0	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0 0 0 0	0	0	0	0	0	0				712792.4	3439902.5		
07-07396-2	P.H.FALL 602	4	DUVAL P17	2550	952	0	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0 0 0 0	0	0	0	0	0	0				712792.4	3439902.5		
07-07396-2	P.H.FALL 602	5	DUVAL P25	2570	1050	0	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0 0 0 0	0	0	0	0	0	0				712792.4	3439902.5		
07-07396-2	P.H.FALL 602	6	DUVAL P44	2546	725	0	0	0	0	0	0	0	0	0	0.1	
0	0 0 0	0	0 0 0 0 0 0	0	0	0	0	0	0				712792.4	3439902.5		
07-07396-2	P.H.FALL 602	7	DUVAL P45	2562	725	0	0	0	0	0	0	0	0	0	0.1	
0	0 0 0	0	0 0 0 0 0 0	0	0	0	0	0	0				712792.4	3439902.5		
07-07396-2	P.H.FALL 602	8	DUVAL P55	2560	725	0	0	0	0	0	0	0	0	0	0.1	
0	0 0 0	0	0 0 0 0 0 0	0	0	0	0	0	0				712792.4	3439902.5		
07-07396-2	P.H.FALL 602	9	DUVAL P54	2530	725	0	0	0	0	0	0	0	0	0	0.1	
0	0 0 0	0	0 0 0 0 0 0	0	0	0	0	0	0				712792.4	3439902.5		
07-07396-2	P.H.FALL 602	10	DUVAL 1	2565	919	0	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0 0 0 0	0	0	0	0	0	0				712792.4	3439902.5		
07-07396-2	P.H.FALL 602	11	DUVAL 6	2540	1100	0	0	0	0	0	0	0	0	0	0.0	
0	0 0 0	0	0 0 0 0 0 0	0	0	0	0	0	0				712792.4	3439902.5		
07-07400-6	GC&SF 202-590	1	ARCO 2	2535	1200	0	0	0	0	0	0	0	0	0	0.1	
0	0 0 0	0	0 0 0 0 0 0	0	0	0	0	0	0				711198.1	3443791.9		
07-07400-6	GC&SF 202-590	2	ARCO 3	2535	1200	0	0	0	0	0	0	0	0	0	0.1	

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LEASE NO / TOP1	LOCATION / BOT1	TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3	TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE S / Y	THICK S / NORTH
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø			711198.1		3443791.9	
07-07400-6	GC&SF	202-590		3	ARCO 4					2535	1200	Ø	Ø	Ø	Ø	Ø	Ø	Ø	972	80	8.0
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø			711198.1		3443791.9	
07-07400-6	GC&SF	202-590		1	CONOCO 1					2535	1030	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø			711198.1		3443791.9	
07-07401-5	GC&SF	202-590		1	DUVAL 20					2545	980	Ø	Ø	Ø	Ø	Ø	Ø	Ø	355	803	63.0
768	770	795	797	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø			711198.1		3443791.9	
07-07401-5	GC&SF	202-590		2	DUVAL D1					2540	950	Ø	Ø	Ø	Ø	Ø	Ø	Ø	803	924	20.0
869	872	919	924	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø			711198.1		3443791.9	
07-07401-5	GC&SF	202-590		3	DUVAL P29					2545	850	Ø	Ø	Ø	Ø	Ø	Ø	Ø	455	765	31.0
485	493	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø			711198.1		3443791.9	
07-07401-5	GC&SF	202-590		4	DUVAL P30					2545	800	Ø	Ø	Ø	Ø	Ø	Ø	Ø	610	720	30.0
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø			711198.1		3443791.9	
07-07401-5	GC&SF	202-590		5	DUVAL P43					2549	745	Ø	Ø	Ø	Ø	Ø	Ø	Ø	565	733	58.0
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø			711198.1		3443791.9	
07-07401-5	GC&SF	202-590		6	DUVAL P53					2543	725	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	0.1
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø			711198.1		3443791.9	
07-07401-5	GC&SF	202-590		1	DRIL-CORE 1					2550	995	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø			711198.1		3443791.9	
07-07402-4	GC&SF	202-592		1	DUVAL 21					2536	1150	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	0.1
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø			709509.4		3445402.5	
07-07402-4	GC&SF	202-592		2	DUVAL P31					2531	800	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	0.1
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø			709509.4		3445402.5	
07-07402-4	GC&SF	202-592		3	DUVAL D1					2545	1150	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø			709509.4		3445402.5	
07-07402-4	GC&SF	202-592		4	DUVAL P52					2525	725	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	0.1
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø			709509.4		3445402.5	
07-07402-4	GC&SF	202-592		5	DUVAL P42					2535	725	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	0.1
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø			709509.4		3445402.5	
07-07403-3	GC&SF	202-594		1	PIPER 1					2521	1037	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø			710420.9		3446315.7	
07-07403-3	GC&SF	202-594		2	PIPER 2					2520	30	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø			710420.9		3446315.7	
07-07403-3	GC&SF	202-594		3	PIPER 3					2520	30	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø			710420.9		3446315.7	
07-07403-3	GC&SF	202-594		4	PIPER 4					2520	30	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø.Ø
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø			710420.9		3446315.7	

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LEASE NO / TOP1	LOCATION / BOT1	TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3	TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE / Y	S THICK / NORTH	S
07-07492-5	GC&SF 105-10			1	ARCO 1					2600	1125	0	1050	0	380	275	0	1095	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				711401.7	3437285.1		
07-07493-4	GC&SF			2	DUVAL P33					2557	800	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				711327.5	3440494.7		
07-07493-4	GC&SF 105-14			3	DUVAL P18					2554	966	0	0	0	0	0	0	0	515	941	52.0	
918	932	934	936	0	0	0	0	0	0	0	0	0	0	0	0				711327.5	3440494.7		
07-07493-4	GC&SF 105-14			4	DUVAL P41					2568	725	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				711327.5	3440494.7		
07-07493-4	GC&SF 105-14			5	DUVAL 2					2560	935	0	0	0	0	0	0	0	372	908	6.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				711327.5	3440494.7		
07-07493-4	GC&SF 105-14			6	DUVAL P51					2575	725	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				711327.5	3440494.7		
07-07496-1	GC&SF 105-16			1	DUVAL P32					2561	800	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				709611.5	3442142.7		
07-07498-9	GC&SF 105-16			1	DUVAL P19					2565	900	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				709611.5	3442142.7		
07-07499-8	GC&SF 105-16			1	DUVAL 3					2560	735	0	0	0	0	0	0	0	651	654	4.0	
651	654	0	0	0	0	0	0	0	0	0	0	0	0	0	0				709611.5	3442142.7		
07-07499-8	GC&SF 105-16			2	DUVAL P40					2554	725	0	0	0	0	0	0	0	555	661	66.0	
619	661	0	0	0	0	0	0	0	0	0	0	0	0	0	0				709611.5	3442142.7		
07-07500-5	GC&SF 105-16			1	DUVAL P50					2573	725	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				709611.5	3442142.7		
07-07710-1	GESCHEIDLE 598			1	ARCO 1					2650	700	0	0	0	650	520	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				712201.4	3433644.2		
07-07712-9	GESCHEIDLE 598			1	ARCO 2					2685	700	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				712201.4	3433644.2		
07-07752-0	H&GN 8-88			1	ARCO 2					2475	2000	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				697717.7	3459865.2		
07-07759-3	H&GN 8-106			1	ARCO 1					2470	1300	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				702326.5	3458187.8		
07-07759-3	H&GN 8-106			2	ARCO 4					2455	1575	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				702326.5	3458187.8		
07-07760-0	H&GN 8-106			1	ARCO 2					2470	830	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				702326.5	3458187.8		
07-07760-0	H&GN 8-106			2	ARCO 3					2470	1500	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				702326.5	3458187.8		
07-07762-8	H&GN 8-108			1	ARCO 3					2475	1600	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				700506.9	3456875.6		

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(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1 / TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3 / TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE / Y	S THICK / NORTH	S
07-07762-8	H&GN 8-108		2	ARCO 4				2480	1600	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		700506.9		3456875.6		
07-07762-8	H&GN 8-108		3	ARCO 5				2480	1600	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		700506.9		3456875.6		
07-07762-8	H&GN 8-108		4	ARCO 6				2485	1650	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		700506.9		3456875.6		
07-07762-8	H&GN 8-108		1	CONOCO 1				2475	1397	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		700506.9		3456875.6		
07-07762-8	H&GN 8-108		2	CONOCO 2				2490	1805	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		700506.9		3456875.6		
07-07763-7	H&GN 8-110		1	ARCO 2				2475	1600	0	0	0	0	0	0	0	1450	1550	40.0	
1477	1489 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		701818.0		3455081.6		
07-07763-7	H&GN 8-110		2	ARCO 3				2475	1600	0	0	0	0	0	0	0	1334	1445	78.0	
1334	1340 1358	1415	1420	1430 1440	1445	0	0	0	0	0	0	0	0	0		701818.0		3455081.6		
07-07763-7	H&GN 8-110		3	ARCO 4				2480	1600	0	0	0	0	0	0	0	1383	1450	67.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		701818.0		3455081.6		
07-07763-7	H&GN 8-110		5	ARCO 6				2480	1600	0	0	0	0	0	0	0	1380	1490	110.0	
1380	1415 1425	1460	1465	1470 1475	1480	0	0	0	0	0	0	0	0	0		701818.0		3455081.6		
07-07763-7	H&GN 8-110		6	ARCO 7				2480	1500	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		701818.0		3455081.6		
07-07763-7	H&GN 8-110		7	ARCO 8				2475	1525	0	0	0	0	0	0	0	1370	1475	100.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		701818.0		3455081.6		
07-07763-7	H&GN 8-110		1	CONOCO 1				2485	1607	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		701818.0		3455081.6		
07-07850-1	H&GN 10-4		1	ARCO 1				2455	1339	0	0	0	0	0	0	0	0	0	0.0	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		705356.7		3455568.5		
07-07851-0	H&GN 10-6		1	ARCO 1				2470	700	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		705675.0		3453256.1		
07-07851-0	H&GN 10-6		2	ARCO 2				2470	995	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		705675.0		3453256.1		
07-07852-9	H&GN 10-8		1	ARCO 1				2475	700	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		703362.1		3452950.7		
07-07852-9	H&GN 10-8		2	ARCO 2				2480	1400	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		703362.1		3452950.7		
07-07852-9	H&GN 10-8		3	ARCO 3				2480	1500	0	0	0	0	0	0	0	0	0	0.1	
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		703362.1		3452950.7		
07-07852-9	H&GN 10-8		4	ARCO 4				2475	1500	0	0	0	0	0	0	0	0	0	0.0	

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OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1	TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3	TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE / Y	S THICK / NORTH	S
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			703362.1		3452950.7		
07-07853-8	H&GN	10-10		1	TEXAS AMER. 1					2495	705	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			703641.3		3450649.6		
07-07853-8	H&GN	10-10		2	TEXAS AMER. 2					2505	705	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			703641.3		3450649.6		
07-07861-8	H&GN	10-12		1	ARCO 1					2555	700	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			703918.3		3448399.7		
07-07862-7	H&GN	10-18		1	ARCO 1					2490	700	0	0	0	665	550	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			708283.2		3451184.0		
07-07863-6	H&GN	10-20		1	ARCO 1					2465	700	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			707951.6		3453508.6		
07-07864-5	H&GN	10-24		1	ARCO 1					2485	700	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			710533.6		3451448.2		
07-07864-5	H&GN	10-24		2	ARCO 2					2475	700	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			710533.6		3451448.2		
07-07865-4	H&GN	10-26		1	ARCO 1					2520	700	0	0	0	610	460	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			708561.9		3448895.7		
07-07865-4	H&GN	10-26		2	ARCO 2					2500	1200	0	1010	0	585	470	0	1100	815	825	10.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			708561.9		3448895.7		
07-07865-4	H&GN	10-26		3	ARCO 3					2515	1300	0	0	0	0	0	0	0	822	835	13.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			708561.9		3448895.7		
07-07865-4	H&GN	10-26		4	ARCO 4					2505	1500	0	0	0	0	0	0	0	840	840	1.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			708561.9		3448895.7		
07-07866-3	H&GN	10-28		1	ARCO A-1					2560	1000	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			706485.8		3446377.2		
07-07866-3	H&GN	10-28		1	PIPER 1					2544	1215	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			706485.8		3446377.2		
07-07866-3	H&GN	10-28		2	PIPER 2					2560	1152	0	930	0	575	445	0	1000	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			706485.8		3446377.2		
07-07866-3	H&GN	10-28		3	PIPER 3					2543	945	0	0	0	0	0	0	0	805	810	5.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			706485.8		3446377.2		
07-07866-3	H&GN	10-28		4	PIPER 4					2568	950	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			706485.8		3446377.2		
07-07867-2	H&GN	10-30		1	ARCO 1					2505	700	0	0	0	635	500	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			710861.4		3449213.4		
07-07868-1	H&GN	10-32		1	KASPAR 1					2465	760	0	0	0	0	0	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			712821.4		3451739.6		

ASSESSMENT OF NATIVE SULFUR POTENTIAL
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(Appendix 1 - Borehole Data)

LEASE NO	LOCATION			HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT	TOP S	BASE S	THICK S
TOP1	BOT1	TOP2	BOT2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X	EAST	Y	NORTH
07-07868-1	H&GN	10-32		1	KASPAR 2					2465	702	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				712821.4		3451739.6
07-07878-9	H&GN	10-50		1	ARCO 1					2475	1224	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				713112.9		3449451.9
07-07884-1	H&GN	10-52		1	TEXAS AMER. 1					2495	720	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				713368.6		3447098.3
07-07884-1	H&GN	10-52		2	TEXAS AMER. 2					2480	705	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				713368.6		3447098.3
07-07884-1	H&GN	10-52		3	TEXAS AMER. 3					2495	715	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				713368.6		3447098.3
07-07886-9	H&GN	10-54		1	ARCO 1					2515	1275	0	970	0	465	465	0	1030	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				711127.2		3446924.5
07-07886-9	H&GN	10-54		2	ARCO 2					2520	700	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				711127.2		3446924.5
07-07888-7	H&GN	10-56		1	TEXAS AMER. 1					2505	704	0	0	0	0	0	0	0	570	605	35.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				713709.2		3444864.0
07-07888-7	H&GN	10-56		2	TEXAS AMER. 2					2505	705	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				713709.2		3444864.0
07-07888-7	H&GN	10-56		3	TEXAS AMER. 3					2505	715	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				713709.2		3444864.0
07-07889-6	H&GN	10-58		1	TEXAS AMER. 1					2505	705	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				716249.4		3442878.9
07-07889-6	H&GN	10-58		2	TEXAS AMER. 2					2500	705	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				716249.4		3442878.9
07-07889-6	H&GN	10-58		3	TEXAS AMER. 3					2505	705	0	0	0	425	335	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				716249.4		3442878.9
07-07890-3	H&GN	10-60		1	TEXAS AMER. 1					2485	705	0	0	0	425	335	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				718497.1		3443207.2
07-07890-3	H&GN	10-60		2	TEXAS AMER. 2					2475	703	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				718497.1		3443207.2
07-07890-3	H&GN	10-60		3	TEXAS AMER. 3					2475	705	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				718497.1		3443207.2
07-07891-2	H&GN	10-62		1	DUVAL 8					2465	1115	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				715959.6		3445128.2
07-07894-9	H&GN	10-66		1	DUVAL 9					2465	1130	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				718169.3		3445442.0
07-07920-7	H&GN	10-100		1	ARCO 1					2435	700	0	0	0	470	410	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				722879.6		3446163.5

ASSESSMENT OF NATIVE SULFUR POTENTIAL
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(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION BOT1	TOP2	BOT2	HOLE TOP3	OPERATOR NO BOT3	TOP4	BOT4	TOP5	BOT5	ELEV TOP6	TD BOT6	BC TOP7	TAN BOT7	CAS TOP8	SAL	RUS BOT8	SR	YAT X	TOP S EAST	BASE Y	S THICK S NORTH
07-07921-6	H&GN 10-102			1	ARCO 1					2450	700	0	0	0	460	390	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		721811.9		3444712.5	
07-07922-5	H&GN 10-104			1	ARCO 1					2420	700	0	0	0	460	380	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		725145.1		3446473.2	
07-07922-5	H&GN 10-104			2	ARCO 2					2415	700	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		725145.1		3446473.2	
07-07959-1	H&GN 11-26			1	SMITH 28-1					2550	887	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		752757.4		3430781.4	
07-07960-8	H&GN 11-28			1	SMITH 9-1					2560	414	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		752138.1		3427737.1	
07-07960-8	H&GN 11-28			2	SMITH 12-1					2560	300	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		752138.1		3427737.1	
07-07988-6	H&GN 11-124			1	SMITH 19-1					2560	572	0	0	0	0	0	0	0	730	1250	30.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		748814.7		3426044.6	
07-07988-6	H&GN 11-124			2	SMITH 26-1					2570	157	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		748814.7		3426044.6	
07-07992-0	H&GN 12-46			1	SMITH 29-1					2460	872	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		754044.8		3429396.0	
07-08057-0	H&TC 3-28			1	ARCO 1					2435	700	0	0	0	660	550	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		711274.9		3455117.0	
07-08057-0	H&TC 3-28			2	ARCO 2					2440	700	0	0	0	665	545	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		711274.9		3455117.0	
07-08479-0	T&SL 140-6			1	PIPER 1					2642	1037	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		714411.9		3433045.6	
07-08480-7	T&SL 140-6			1	PIPER 2					2658	1175	0	0	0	620	515	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		714411.9		3433045.6	
07-08481-6	T&SL 140-8			1	ARCO 1					2610	660	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		715975.1		3434642.4	
07-08481-6	T&SL 140-8			2	ARCO 2					2605	760	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		715975.1		3434642.4	
07-08481-6	T&SL 140-8			3	ARCO 6					2605	1000	0	0	0	260	170	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		715975.1		3434642.4	
07-08481-6	T&SL 140-8			4	ARCO 7					2605	310	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		715975.1		3434642.4	
07-08481-6	T&SL 140-8			5	ARCO 8					2605	1000	0	0	0	330	235	0	0	980	985	5.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		715975.1		3434642.4	
07-08481-6	T&SL 140-8			6	ARCO 9					2605	1000	0	0	0	0	0	0	0	0	0	0.1

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(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1	TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3	TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE S / Y	THICK S / NORTH
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			715975.1		3434642.4	
07-08481-6	T&SL	140-8		7	ARCO 10					2610	1000	0	0	0	490	295	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			715975.1		3434642.4	
07-08481-6	T&SL	140-8		8	ARCO 3					2594	1046	0	0	0	350	260	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			715975.1		3434642.4	
07-08481-6	T&SL	140-8		9	ARCO 4					2595	1010	0	0	0	290	208	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			715975.1		3434642.4	
07-08481-6	T&SL	140-8		10	ARCO 5					2603	1187	0	0	0	835	715	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			715975.1		3434642.4	
07-08482-5	T&SL	140-30		1	ARCO 2					2560	800	0	0	0	434	323	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			714235.0		3439527.8	
07-08483-4	T&SL	140-14		1	PIPER 1					2563	1097	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			720855.6		3436497.9	
07-08483-4	T&SL	140-14		2	PIPER 2					2566	1105	0	910	0	300	220	0	975	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			720855.6		3436497.9	
07-08483-4	T&SL	140-14		3	PIPER 3					2565	950	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			720855.6		3436497.9	
07-08484-3	T&SL	140-16		1	ARCO A-1					2565	750	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			717482.0		3436352.3	
07-08484-3	T&SL	140-16		4	PIPER 1					2606	1037	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			717482.0		3436352.3	
07-08484-3	T&SL	140-16		5	PIPER 2					2617	1171	0	910	0	335	210	0	970	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			717482.0		3436352.3	
07-08484-3	T&SL	140-16		6	PIPER 3					2616	779	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			717482.0		3436352.3	
07-08484-3	T&SL	140-16		7	PIPER 4					2603	850	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			717482.0		3436352.3	
07-08485-2	T&SL	140-18		1	DUVAL P36					2589	900	0	0	0	0	0	0	0	830	831	1.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			714260.7		3436251.9	
07-08485-2	T&SL	140-18		2	DUVAL P56					2584	725	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			714260.7		3436251.9	
07-08486-1	T&SL	140-18		3	DUVAL 7					2595	725	0	0	0	0	0	0	0	305	982	25.0
305	310	965	967	972	982	0	0	0	0	0	0	0	0	0	0			714260.7		3436251.9	
07-08486-1	T&SL	140-18		1	DUVAL P24					2594	1000	0	0	0	0	0	0	0	287	297	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			714260.7		3436251.9	
07-08486-1	T&SL	140-18		2	DUVAL P15					2600	1050	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			714260.7		3436251.9	

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LEASE NO / TOP1	LOCATION / BOT1	TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3	TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE / Y	S THICK S / NORTH
07-08486-1	T&SL	140-18		4	DUVAL P46					2606	725	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				714260.7		3436251.9
07-08487-0	T&SL	140-20		1	ARCO 1					2560	850	0	0	0	425	315	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				715845.1		3437952.4
07-08487-0	T&SL	140-20		2	ARCO 2					2550	775	0	0	0	440	328	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				715845.1		3437952.4
07-08487-0	T&SL	140-20		3	ARCO 3					2555	715	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				715845.1		3437952.4
07-08487-0	T&SL	140-20		4	ARCO 4					2555	705	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				715845.1		3437952.4
07-08489-8	T&SL	140-22		1	DRIL-CORE 2					2525	945	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				719130.6		3438055.6
07-08490-5	T&SL	140-24		1	PIPER 1					2520	1276	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				722364.7		3438156.6
07-08490-5	T&SL	140-24		2	PIPER 2					2548	1154	0	950	0	325	235	0	1035	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				722364.7		3438156.6
07-08491-4	T&SL	140-26		1	TEXAS AMER. 1					2525	710	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				720754.0		3439744.9
07-08491-4	T&SL	140-26		2	TEXAS AMER. 2					2500	705	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				720754.0		3439744.9
07-08491-4	T&SL	140-26		3	TEXAS AMER. 3					2505	705	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				720754.0		3439744.9
07-08492-3	T&SL	140-28		1	ARCO 3					2530	725	0	0	0	475	350	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				717455.8		3439641.1
07-08492-3	T&SL	140-28		2	ARCO 5					2515	725	0	0	0	0	0	0	0	680	690	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				717455.8		3439641.1
07-08493-2	T&SL	140-28		1	ARCO 1					2525	700	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				717455.8		3439641.1
07-08493-2	T&SL	140-28		2	ARCO 2					2540	700	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				717455.8		3439641.1
07-08493-2	T&SL	140-28		1	ARCO 4					2540	725	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				717455.8		3439641.1
07-08493-2	T&SL	140-28		2	ARCO 6					2530	705	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				717455.8		3439641.1
07-08495-0	T&SL	140-30		1	ARCO 1					2555	725	0	0	0	455	355	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				714235.0		3439527.8
07-08495-0	T&SL	140-30		1	ARCO 4					2550	705	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				714235.0		3439527.8

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LEASE NO / TOP1	LOCATION / BOT1	TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3	TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL	RUS / BOT8	SR	YAT / X	TOP S / EAST	BASE S / Y	THICK S / NORTH
07-08497-8	T&SL	140-30		1	ARCO 3					2570	725	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			714235.0		3439527.8	
07-08498-7	T&SL	140-32		1	ARCO 2					2520	725	0	0	0	0	0	0	0	710	716	6.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			715808.8		3441176.4	
07-08498-7	T&SL	140-32		2	ARCO 3					2525	755	0	0	0	0	0	0	0	715	725	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			715808.8		3441176.4	
07-08501-2	T&SL	140-32		1	ARCO 1					2530	725	0	0	0	500	364	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			715808.8		3441176.4	
07-08501-2	T&SL	140-32		1	ARCO 4					2540	885	0	0	0	0	0	0	0	754	759	5.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			715808.8		3441176.4	
07-08503-0	T&SL	140-36		1	TEXAS AMER. 1					2460	705	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			722262.0		3441429.2	
07-08503-0	T&SL	140-36		2	TEXAS AMER. 2					2470	705	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			722262.0		3441429.2	
07-08503-0	T&SL	140-36		3	TEXAS AMER. 3					2470	705	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			722262.0		3441429.2	
07-08504-9	T&SL	141-2		1	PIPER 1					2481	977	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			723934.3		3440196.9	
07-08504-9	T&SL	141-2		2	PIPER 2					2504	1220	0	1010	0	345	330	0	1065	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			723934.3		3440196.9	
07-08505-8	T&SL	141-4		1	PIPER 1					2539	1127	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			723969.6		3436986.8	
07-08505-8	T&SL	141-4		2	PIPER 2					2530	1200	0	0	0	320	250	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			723969.6		3436986.8	
07-08505-8	T&SL	141-4		3	PIPER 3					2524	950	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			723969.6		3436986.8	
07-08508-5	T&SL	141-6		1	DUVAL P37					2561	1300	0	0	0	0	0	0	0	1123	1163	18.0
1129	1135	0	0	0	0	0	0	0	0	0	0	0	0	0	0			724030.2		3433764.5	
07-08508-5	T&SL	141-6		2	DUVAL P13					2565	1200	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			724030.2		3433764.5	
07-08508-5	T&SL	141-6		3	DUVAL P27					2568	1200	0	0	0	0	0	0	0	1129	1131	2.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			724030.2		3433764.5	
07-08508-5	T&SL	141-6		4	DUVAL 10					2565	780	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			724030.2		3433764.5	
07-08508-5	T&SL	141-6		5	DUVAL P47					2565	725	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			724030.2		3433764.5	
07-08509-4	T&SL	141-8		1	DUVAL P48					2544	725	0	0	0	0	0	0	0	0	0	0.1

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LEASE NO / TOP1	LOCATION / BOT1	TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3	TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT / X	TOP S / EAST	BASE S / Y	THICK S / NORTH
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			725649.4		3435356.3	
07-08509-4	T&SL 141-8			2	DUVAL P39					2541	1249	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			725649.4		3435356.3	
07-08509-4	T&SL 141-8			3	DUVAL P22					2531	875	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			725649.4		3435356.3	
07-08509-4	T&SL 141-8			4	DUVAL 1					2525	1185	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			725649.4		3435356.3	
07-08600-2	TC 5-20			1	ARCO 1					2680	725	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			716659.8		3430688.1	
07-08623-5	TC 112-6			1	TEXAS AMER. 1					2595	705	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			705047.0		3443089.5	
07-08623-5	TC 112-6			2	TEXAS AMER. 2					2625	705	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			705047.0		3443089.5	
07-08625-3	TC 112-10			1	TEXAS AMER. 1					2630	710	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			703346.6		3444673.9	
07-08625-3	TC 112-10			2	TEXAS AMER. 2					2625	705	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			703346.6		3444673.9	
07-08626-2	TC 112-12			1	PIPER 2					2557	1141	0	890	0	500	340	1080	935	790	950	6.0
946	948	0	0	0	0	0	0	0	0	0	0	0	0	0	0			706626.4		3444609.8	
07-08626-2	TC 112-12			1	PIPER 3					2554	1000	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			706626.4		3444609.8	
07-08628-0	TC 112-12			1	ARCO 2-A					2560	1000	0	0	0	0	0	0	0	870	885	15.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			706626.4		3444609.8	
07-08629-9	TC 112-12			1	PIPER 4					2581	950	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			706626.4		3444609.8	
07-08640-4	TC 112-14			1	TEXAS AMER. 1					2600	705	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			704719.5		3445915.5	
07-08640-4	TC 112-14			2	TEXAS AMER. 2					2575	705	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			704719.5		3445915.5	
07-10324-3	PSL 45-2			1	HUMBLE 1					3030	1966	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			592196.5		3511134.3	
07-10325-2	PSL 45-3			1	ARCO 1					3060	1200	0	0	1070	550	145	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			590719.7		3511143.5	
07-10325-2	PSL 45-3			2	ARCO 3					3070	1700	0	0	0	0	0	0	0	1250	1480	100.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			590719.7		3511143.5	
07-10325-2	PSL 45-3			3	ARCO 4					3090	710	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			590719.7		3511143.5	

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07-10325-2	PSL 45-3		4	ARCO 2				3070	1700	0	0	0	0	0	0	0	1260	1500	10.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0				590719.7		3511143.5
07-10328-9	PSL 45-47		1	CITIES CT-1				3210	1650	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0				592296.2		3499930.2
07-10335-0	PSL 53-13		1	HUMBLE 1				3305	2130	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0				593963.8		3495149.8
07-10339-6	PSL 53-27		1	ARCO 2				3250	800	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0				590718.6		3491944.9
07-10339-6	PSL 53-27		2	ARCO 3				3280	710	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0				590718.6		3491944.9
07-10339-6	PSL 53-27		3	ARCO 4				3295	710	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0				590718.6		3491944.9
07-10341-2	PSL 53-34		1	ARCO 2				3250	1900	0	0	0	0	0	0	0	1870	1875	5.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0				590827.2		3490314.6
07-10341-2	PSL 53-34		2	ARCO 3				3280	710	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0				590827.2		3490314.6
07-10341-2	PSL 53-34		3	ARCO 4				3280	710	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0				590827.2		3490314.6
07-10341-2	PSL 53-34		1	CONOCO 1				3250	1905	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0				590827.2		3490314.6
07-10342-1	PSL 53-35		1	ARCO 2				3260	800	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0				592405.9		3490321.7
07-10342-1	PSL 53-35		2	ARCO 3				3270	1000	0	0	0	0	0	0	0	0	0	0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0				592405.9		3490321.7
07-10342-1	PSL 53-35		3	ARCO 4				3260	710	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0				592405.9		3490321.7
07-10342-1	PSL 53-35		2	CONOCO 1				3270	725	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0				592405.9		3490321.7
07-10369-9	PSL 55-25		1	HUMBLE 1				3160	2030	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0				594168.6		3479022.4
07-10518-9	PSL 58-39		1	BEAR CREEK 2-1				3000	710	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0				610157.4		3476053.7
07-10519-8	PSL 58-39		1	BEAR CREEK 9-1				2975	714	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0				610157.4		3476053.7
07-10519-8	PSL 58-39		1	KENNECOTT 10-1				2970	725	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0				610157.4		3476053.7
07-10520-5	PSL 58-40		1	BEAR CREEK 19-1				3015	715	0	0	0	0	0	0	0	0	0	0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0				608561.3		3475978.8

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1	TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3	TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL	RUS / BOT8	SR	YAT / X	TOP S / EAST	BASE / Y	S THICK / NORTH	S
07-10520-5	PSL 58-40			2	BEAR CREEK 21-1					3005	741	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0			608561.3		3475978.8		
07-10520-5	PSL 58-40			1	KENNECOTT 23-1					2995	720	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0			608561.3		3475978.8		
07-10520-5	PSL 58-40			2	KENNECOTT 40-1					3003	1785	0	0	1665	1415	1010	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0			608561.3		3475978.8		
07-10522-3	PSL 58-40			1	BEAR CREEK 11-3					3005	3500	3410	0	2240	1780	920	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0			608561.3		3475978.8		
07-10522-3	PSL 58-40			2	BEAR CREEK 11-2					3005	1897	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0			608561.3		3475978.8		
07-10522-3	PSL 58-40			3	BEAR CREEK 11-1					3000	715	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0			608561.3		3475978.8		
07-10522-3	PSL 58-40			1	KENNECOTT 2-1					3000	1815	0	0	1630	1420	1085	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0			608561.3		3475978.8		
07-10522-3	PSL 58-40			2	KENNECOTT 13-1					2995	1775	0	0	1535	1350	945	0	0	0	0	0.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0			608561.3		3475978.8		
07-10530-3	PSL 58-45			1	HUMBLE 30-1					2970	2423	0	0	1900	1510	1150	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0			608602.5		3474416.8		
07-10531-2	PSL 58-45			1	BEAR CREEK 2-1					2980	712	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0			608602.5		3474416.8		
07-10531-2	PSL 58-45			2	BEAR CREEK 20-1					2975	760	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0			608602.5		3474416.8		
07-10532-1	PSL 58-46			1	BEAR CREEK 3-1					2950	730	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0			610214.9		3474389.8		
07-10532-1	PSL 58-46			1	HUMBLE 5-1					2965	3600	3480	0	2500	2035	1785	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0			610214.9		3474389.8		
07-10532-1	PSL 58-46			2	KENNECOTT 1-1					2975	1383	0	0	0	0	1330	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0			610214.9		3474389.8		
07-10566-0	PSL 59-16			1	GULF OIL 16-4					3140	700	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0			598908.3		3482336.8		
07-10566-0	PSL 59-16			2	GULF OIL 16-12					3109	542	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0			598908.3		3482336.8		
07-10566-0	PSL 59-16			3	GULF OIL 16-12A					3110	455	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0			598908.3		3482336.8		
07-10566-0	PSL 59-16			4	GULF OIL 16-13					3130	700	0	0	0	0	0	0	0	0	0	0.0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0		0			598908.3		3482336.8		
07-10566-0	PSL 59-16			5	GULF OIL 16-17					3129	700	0	0	0	0	0	0	0	0	0	0.0	

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO	LOCATION		HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT	TOP S	BASE S	THICK S
TOP1	BOT1	TOP2	BOT2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8		X	EAST	Y	NORTH
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		598908.3		3482336.8	
07-10566-0	PSL 59-16			6	GULF OIL 16-28					3150	700	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		598908.3		3482336.8	
07-10567-9	PSL 59-17			1	GULF OIL 17-3					3127	700	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		597295.7		3482329.9	
07-10567-9	PSL 59-17			2	GULF OIL 17-8					3120	700	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		597295.7		3482329.9	
07-10567-9	PSL 59-17			3	GULF OIL 17-18					3125	700	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		597295.7		3482329.9	
07-10567-9	PSL 59-17			4	GULF OIL 17-9					3127	700	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		597295.7		3482329.9	
07-10567-9	PSL 59-17			5	GULF OIL 17-20					3125	700	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		597295.7		3482329.9	
07-10593-7	PSL 59-33			1	HUMBLE 1					3085	2066	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		598979.3		3477396.7	
07-10607-1	PSL 59-43			1	HUMBLE 2					3155	2407	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		595904.2		3474258.5	
07-10611-5	PSL 59-46			1	HUMBLE 1					3095	2317	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		600657.8		3474347.7	
07-10637-5	PSL 70-28			1	HUMBLE 1					2975	3714	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		609278.2		3468454.4	
07-10639-3	PSL 70-32			1	ARCO 1					3132	800	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		596631.2		3468346.7	
07-10644-6	PSL 71-3			1	CITIES CT-1					2980	715	0	0	0	0	0	0	530	540	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		610979.5		3463639.9	
07-10656-1	PSL 71-24			1	CITIES CT-1					3075	715	0	0	0	0	0	0	480	700	60.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		606063.9		3462058.0	
07-10658-9	PSL 71-25			1	CITIES CT-1					3030	715	0	0	0	0	0	0	380	390	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		607710.7		3462098.6	
07-10664-1	PSL 71-34			1	CITIES CT-1					3037	715	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		607802.5		3460485.4	
07-10665-0	PSL 71-35			1	CITIES CT-1					3080	715	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		606274.4		3460427.1	
07-10670-3	PSL 71-47			1	CITIES CT-1					3040	715	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		606134.1		3465147.0	
07-13025-9	T&SL 140-2			1	ARCO A-1					2610	1000	0	0	0	0	0	0	595	920	55.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		720923.1		3433146.7	

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO	LOCATION			HOLE	OPERATOR NO					ELEV	TD	BC	TAN	CAS	SAL	RUS	SR	YAT	TOP S	BASE S	THICK S
TOP1	BOT1	TOP2	BOT2	TOP3	BOT3	TOP4	BOT4	TOP5	BOT5	TOP6	BOT6	TOP7	BOT7	TOP8	BOT8			X	EAST	Y	NORTH
07-13025-9	T&SL	140-2		1	PIPER 1					2622	1007	0	0	0	0	0	0	0	795	959	160.0
795	804	814	820	840	842	944	945	949	951	0	0	0	0	0	0			720923.1		3433146.7	
07-13025-9	T&SL	140-2		2	PIPER 2					2624	1242	0	780	0	215	140	1020	840	834	1111	23.0
834	840	954	956	0	0	0	0	0	0	0	0	0	0	0	0			720923.1		3433146.7	
07-13025-9	T&SL	140-2		5	PIPER 3					2623	1215	0	765	0	215	135	1010	820	789	1085	25.0
811	813	0	0	0	0	0	0	0	0	0	0	0	0	0	0			720923.1		3433146.7	
07-13025-9	T&SL	140-2		4	PIPER 6					2621	1239	0	770	0	200	110	1020	835	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			720923.1		3433146.7	
07-13025-9	T&SL	140-2		5	PIPER 7					2622	1000	0	0	0	0	0	0	0	875	894	10.0
875	879	0	0	0	0	0	0	0	0	0	0	0	0	0	0			720923.1		3433146.7	
07-13025-9	T&SL	140-2		6	PIPER 8					2618	1000	0	0	0	0	0	0	0	565	920	70.0
565	610	835	840	0	0	0	0	0	0	0	0	0	0	0	0			720923.1		3433146.7	
07-13033-9	T&SL	140-4		1	ARCO A-1					2615	1000	0	0	0	0	0	0	0	950	55	5.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			717674.5		3433083.6	
07-13033-9	T&SL	140-4		1	PIPER 1					2623	1004	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			717674.5		3433083.6	
07-13033-9	T&SL	140-4		2	PIPER 2					2635	1427	0	1000	0	545	450	1360	1066	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			717674.5		3433083.6	
07-13033-9	T&SL	140-4		3	PIPER 3					2624	1021	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			717674.5		3433083.6	
07-13034-8	T&SL	140-12		1	DUVAL 12					2550	1150	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			722442.3		3434870.0	
07-13034-8	T&SL	140-12		2	DUVAL P38					2556	1250	0	0	0	0	0	0	0	945	950	5.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			722442.3		3434870.0	
07-13034-8	T&SL	140-12		3	DUVAL P23					2556	875	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			722442.3		3434870.0	
07-13034-8	T&SL	140-12		4	DUVAL P49					2558	725	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			722442.3		3434870.0	
07-13034-8	T&SL	140-12		1	PIPER 1					2576	1011	0	0	0	0	0	0	0	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			722442.3		3434870.0	
07-13034-8	T&SL	140-12		2	PIPER 2					2569	1182	0	930	0	275	195	0	985	0	0	0.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			722442.3		3434870.0	
07-13035-7	T&SL	140-10		1	ARCO 1					2605	800	0	0	0	470	400	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			719245.5		3434796.3	
07-13035-7	T&SL	140-10		2	ARCO 2					2595	1000	0	875	0	290	205	0	925	940	950	10.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			719245.5		3434796.3	
07-13035-7	T&SL	140-10		3	ARCO 3					2595	800	0	0	0	0	0	0	0	0	0	0.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			719245.5		3434796.3	

ASSESSMENT OF NATIVE SULFUR POTENTIAL
OF STATE-OWNED LANDS, TRANS-PECOS TEXAS

(Appendix 1 - Borehole Data)

LEASE NO / TOP1	LOCATION / BOT1 / TOP2	BOT2	HOLE / TOP3	OPERATOR NO / BOT3 / TOP4	BOT4	TOP5	BOT5	ELEV / TOP6	TD / BOT6	BC / TOP7	TAN / BOT7	CAS / TOP8	SAL / BOT8	RUS	SR	YAT TOP S / X / EAST	BASE S THICK S / Y / NORTH
07-13035-7	T&SL 140-10		4	ARCO 4				2595	1000	0	0	0	470	270	0	0 0	0 0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		719245.5	3434796.3
07-13061-4	PSL 59-9		1	GULF OIL 9-6				3144	700	0	0	0	0	0	0	0 0	0 0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		598816.7	3483967.0
07-13061-4	PSL 59-9		2	GULF OIL 9-8				3145	700	0	0	0	0	0	0	0 0	0 0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		598816.7	3483967.0
07-13061-4	PSL 59-9		3	GULF OIL 9-12				3144	700	0	0	0	0	0	0	0 0	0 0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		598816.7	3483967.0
07-13061-4	PSL 59-9		4	GULF OIL 9-35				3145	700	0	0	0	0	0	0	0 0	0 0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		598816.7	3483967.0
07-13061-4	PSL 59-9		5	GULF OIL 9-36				3145	700	0	0	0	0	0	0	0 0	0 0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		598816.7	3483967.0
07-13084-7	PSL 45-6		1	ARCO 2				3160	1600	0	0	0	0	0	0	0 1218	1587 16.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		585894.7	3511248.0
07-13084-7	PSL-45-6		2	ARCO 3				3200	1600	0	0	0	0	0	0	0 955	960 5.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		585894.7	3511248.0
07-13084-7	PSL 45-6		3	ARCO 4				3210	710	0	0	0	520	90	0	0 90	110 20.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		585894.7	3511248.0
07-13084-7	PSL 45-6		4	ARCO 5				3210	1400	0	0	0	0	0	0	0 1305	1310 5.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		585894.7	3511248.0
07-13084-7	PSL 45-6		1	CONOCO 1				3180	1606	0	0	0	0	0	0	0 0	0 0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		585894.7	3511248.0
07-13217-7	TC 112-12		1	ARCO 1-A				2555	648	0	0	0	0	0	0	0 0	0 0.1
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		706626.4	3444609.8
07-13217-7	TC 112-12		1	PIPER 1				2562	1127	0	0	0	0	0	0	0 0	0 0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		706626.4	3444609.8
15-00572-6	TP 59-6-40		1	FREEPORT 1				3480	1810	0	0	0	0	0	0	0 0	0 0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		580297.1	3461408.3
28-01733-3	PSL 115-10		1	ARCO 2				4020	895	0	0	0	0	0	0	0 95	100 5.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		558429.2	3511426.8
99-00000-1	T&P 59-2-18		1	FREEPORT 22				3480	1821	1525	0	405	0	0	0	0 0	0 0.0
0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0		575094.6	3523067.8

APPENDIX 2:

VERBSTEMS OF CPS1 COMPUTER-GENERATED CONTOUR MAPS

Fig.7

```
 $VC JOB=1 $END
NUMBER OF HOLES PER SECTION    12-30-86 VERSION
 $VC AOI=1,XMIN=554000.,XMAX=615000.,XINC=1000.,YMIN=3455000.,
  YMAX=3541000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(F8.1,7X,F9.1,F12.0)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=3377.8,YSCL=3367.2,PWID=-22. $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=2,SIZE=.1,HSHR=0,LABR=2,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=4,CLMN=14.,DEL=-4.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.8

```
 $VC JOB=1 $END
NUMBER OF HOLES PER SECTION    1-1-87 VERSION
 $VC AOI=1,XMIN=690000.,XMAX=755000.,XINC=1000.,YMIN=3425000.,
  YMAX=3461000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(F8.1,7X,F9.1,F12.0)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=2480.8,YSCL=2639.3 $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=2,SIZE=.1,HSHR=0,LABR=2,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=10,CLMN=10.,DEL=-1.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.9

```
 $VC JOB=1 $END
TOTAL DEPTH    12-29-86 VERSION
 $VC AOI=1,XMIN=554000.,XMAX=615000.,XINC=1000.,YMIN=3454000.,
  YMAX=3541000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(F8.1,7X.F9.1,5X,F5.0)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $CD EM01=220.,EX01=3700. $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=3377.8,YSCL=3367.2,PWID=-22. $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=5,SIZE=.1,HSHR=0,LABR=5,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=20,CLMN=2000.,DEL=-100.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.10

```
 $VC JOB=1 $END
TOTAL DEPTH    12-31-86 VERSION
 $VC AOI=1,XMIN=690000.,XMAX=755000.,XINC=1000.,YMIN=3425000.,
  YMAX=3461000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(F8.1,7X,F9.1,5X,F5.0)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $CD EM01=220.,EX01=3700. $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=2480.8,YSCL=2639.3 $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=5,SIZE=.1,HSHR=0,LABR=5,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=11,CLMN=1500.,DEL=-100.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.41

```
 $VC JOB=1 $END
DEPTH TO TOP SULFUR 12-23-86 VERSION
 $VC AOI=1,XMIN=554000.,XMAX=615000.,XINC=1000.,YMIN=3461000.,
  YMAX=3541000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(F8.1,7X,F9.1,F10.0)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=3377.8,YSCL=3367.2,PWID=-22. $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=5,SIZE=.1,HSHR=0,LABR=5,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=19,CLMN=1900.,DEL=-100.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.42

```
 $VC JOB=1 $END
STRUCTURE MAP OF DEEPEST SULFUR OCCURENCE 12-31-86 VERSION
 $VC AOI=1,XMIN=554000.,XMAX=615000.,XINC=1000.,YMIN=3455000.,
  YMAX=3541000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(F8.1,7X,F9.1,F13.0)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=3377.8,YSCL=3367.2,PWID=-22. $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=5,SIZE=.1,HSHR=0,LABR=5,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=26,CLMN=4000.,DEL=-100.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.43

```
 $VC JOB=1 $END
NET THICKNESS OF THE SULFUR (MAXIMUM) 12-29-86 VERSION
 $VC AOI=1,XMIN=554000.,XMAX=615000.,XINC=1000.,YMIN=3455000.,
  YMAX=3541000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(F8.1,7X,F9.1,F12.1)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=3377.8,YSCL=3367.2,PWID=-22. $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=3,SIZE=.1,HSHR=0,LABR=3,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=10,CLMN=500.,DEL=-50.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.44

```
 $VC JOB=1 $END
NET THICKNESS OF THE SULFUR (AVERAGE) 12-29-86 VERSION
 $VC AOI=1,XMIN=554000.,XMAX=615000.,XINC=1000.,YMIN=3455000.,
  YMAX=3541000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(F8.1,7X,F9.1,F12.1)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=3377.8,YSCL=3367.2,PWID=-22. $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=5,SIZE=.1,HSHR=0,LABR=5,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=8,CLMN=150.,DEL=-20.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.45

```
 $VC JOB=1 $END
GROSS ISOPACH OF SULFUR INTERVAL (MAX)   12-29-86 VERSION
 $VC AOI=1,XMIN=554000.,XMAX=615000.,XINC=1000.,YMIN=3455000.,
  YMAX=3541000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(F8.1,7X,F9.1,F13.0)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=3377.8,YSCL=3367.2,PWID=-22. $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=5,SIZE=.1,HSHR=0,LABR=5,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=14,CLMN=1400.,DEL=-100.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.46

```
 $VC JOB=1 $END
GROSS ISOPACH OF SULFUR INTERVAL (AVERAGE)   12-29-86 VERSION
 $VC AOI=1,XMIN=554000.,XMAX=615000.,XINC=1000.,YMIN=3455000.,
  YMAX=3541000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(F8.1,7X,F9.1,F13.0)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=3377.8,YSCL=3367.2,PWID=-22. $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=3,SIZE=.1,HSHR=0,LABR=3,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=7,CLMN=700.,DEL=-100.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.47

```
 $VC JOB=1 $END
NET THICKNESS OF SULFUR > 5% (MAXIMUM)    12-29-86 VERSION
 $VC AOI=1,XMIN=554000.,XMAX=615000.,XINC=1000.,YMIN=3455000.,
  YMAX=3541000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(F8.1,7X,F9.1,15X,F5.0)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=3377.8,YSCL=3367.2,PWID=-22. $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=3,SIZE=.1,HSHR=0,LABR=3,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=4,CLMN=200.,DEL=-50.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.48

```
 $VC JOB=1 $END
NET THICKNESS OF SULFUR > 5% (AVERAGE)    12-30-86 VERSION
 $VC AOI=1,XMIN=554000.,XMAX=615000.,XINC=1000.,YMIN=3455000.,
  YMAX=3541000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(F8.1,7X,F9.1,15X,F5.0)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=3377.8,YSCL=3367.2,PWID=-22. $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=3,SIZE=.1,HSHR=0,LABR=3,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=4,CLMN=100.,DEL=-25.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.49

```
 $VC JOB=1 $END
GROSS ISOPACH OF SULFUR > 5% (MAXIMUM)    12-30-86 VERSION
 $VC AOI=1,XMIN=554000.,XMAX=615000.,XINC=1000.,YMIN=3455000.,
  YMAX=3541000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(3F10.1)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=3377.8,YSCL=3367.2,PWID=-22. $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=3,SIZE=.1,HSHR=0,LABR=3,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=7,CLMN=700.,DEL=-100.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.50

```
 $VC JOB=1 $END
GROSS ISOPACH OF SULFUR > 5% (AVERAGE)    12-30-86 VERSION
 $VC AOI=1,XMIN=554000.,XMAX=615000.,XINC=1000.,YMIN=3455000.,
  YMAX=3541000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(3F10.1)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=3377.8,YSCL=3367.2,PWID=-22. $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=3,SIZE=.1,HSHR=0,LABR=3,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=6,CLMN=300.,DEL=-50.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.51

```
 $VC JOB=1 $END
DEPTH TO TOP SULFUR 12-31-86 VERSION
 $VC AOI=1,XMIN=690000.,XMAX=755000.,XINC=1000.,YMIN=3425000.,
  YMAX=3461000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=19950.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(F8.1,7X,F9.1,F10.0)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=2480.8,YSCL=2639.3 $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=3,SIZE=.1,HSHR=0,LABR=3,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=7,CLMN=900.,DEL=-100.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.52

```
 $VC JOB=1 $END
STRUCTURE MAP OF DEEPEST SULFUR OCCURENCE 1-5-87 VERSION
 $VC AOI=1,XMIN=690000.,XMAX=755000.,XINC=1000.,YMIN=3425000.,
  YMAX=3461000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(F8.1,7X,F9.1,F13.0)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=2480.8,YSCL=2639.3 $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=2,SIZE=.1,HSHR=0,LABR=2,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=5,CLMN=1700.,DEL=-100.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.53

```
 $VC JOB=1 $END
NET THICKNESS OF THE SULFUR (MAXIMUM) 1-1-87 VERSION
 $VC AOI=1,XMIN=690000.,XMAX=755000.,XINC=1000.,YMIN=3425000.,
  YMAX=3461000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(F8.1,7X,F9.1,F12.1)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=2480.8,YSCL=2639.3 $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=2,SIZE=.1,HSHR=0,LABR=2,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=5,CLMN=50.,DEL=-10.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.54

```
 $VC JOB=1 $END
NET THICKNESS OF THE SULFUR (AVERAGE) 1-1-87 VERSION
 $VC AOI=1,XMIN=690000.,XMAX=755000.,XINC=1000.,YMIN=3425000.,
  YMAX=3461000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(F8.1,7X,F9.1,F12.1)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=2480.8,YSCL=2639.3 $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=2,SIZE=.1,HSHR=0,LABR=2,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=5,CLMN=50.,DEL=-10.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.55

```
 $VC JOB=1 $END
GROSS ISOPACH OF SULFUR INTERVAL (MAX)   1-1-87 VERSION
 $VC AOI=1,XMIN=690000.,XMAX=755000.,XINC=1000.,YMIN=3425000.,
  YMAX=3461000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(F8.1,7X,F9.1,F13.0)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=2480.8,YSCL=2639.3 $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=2,SIZE=.1,HSHR=0,LABR=2,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=4,CLMN=400.,DEL=-100.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.56

```
 $VC JOB=1 $END
GROSS ISOPACH OF SULFUR INTERVAL (AVERAGE)   1-1-87 VERSION
 $VC AOI=1,XMIN=690000.,XMAX=755000.,XINC=1000.,YMIN=3425000.,
  YMAX=3461000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(F8.1,7X,F9.1,F13.0)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=2480.8,YSCL=2639.3 $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=2,SIZE=.1,HSHR=0,LABR=2,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=4,CLMN=200.,DEL=-50.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.57

```
 $VC JOB=1 $END
NET THICKNESS OF SULFUR > 5% (MAXIMUM)   1-1-87 VERSION
 $VC AOI=1,XMIN=690000.,XMAX=755000.,XINC=1000.,YMIN=3425000.,
  YMAX=3461000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(F8.1,7X,F9.1,15X,F5.0)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=2480.8,YSCL=2639.3 $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=2,SIZE=.1,HSHR=0,LABR=2,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=4,CLMN=40.,DEL=-10.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.58

```
 $VC JOB=1 $END
NET THICKNESS OF SULFUR > 5% (AVERAGE)   1-1-87 VERSION
 $VC AOI=1,XMIN=690000.,XMAX=755000.,XINC=1000.,YMIN=3425000.,
  YMAX=3461000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(F8.1,7X,F9.1,15X,F5.0)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=2480.8,YSCL=2639.3 $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=2,SIZE=.1,HSHR=0,LABR=2,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=6,CLMN=30.,DEL=-5.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.59

```
 $VC JOB=1 $END
GROSS ISOPACH OF SULFUR > 5% (MAXIMUM)    1-1-8 VERSION
 $VC AOI=1,XMIN=690000.,XMAX=755000.,XINC=1000.,YMIN=3425000.,
  YMAX=3461000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(3F10.1)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=2480.8,YSCL=2639.3 $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=2,SIZE=.1,HSHR=0,LABR=2,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=4,CLMN=200.,DEL=-50.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

Fig.60

```
 $VC JOB=1 $END
GROSS ISOPACH OF SULFUR > 5% (AVERAGE)    1-1-87 VERSION
 $VC AOI=1,XMIN=690000.,XMAX=755000.,XINC=1000.,YMIN=3425000.,
  YMAX=3461000.,YINC=1000. $END
 $VC ZFIT=1,ITYP=8,SLM=15000.,LUN=1,IFMT=2,NZ=1,NCP=0,NPD=8 $END
(3F10.1)
 $VC RFIT=1,ZIDA=1,ZIDB=1,ITYP=3,NREF=2 $END
 $VC STAT=1 $END
 $VC PDEF=1,XSCL=2480.8,YSCL=2639.3 $END
 $VC LGPT=1,MODE=1,ISMB=16,SIZE=.03,NDEC=0,NZ=1 $END
 $CD FILD=1,SIZP=.07,IPSN=1 $END
 $VC CTYP=1,BOLD=3,SIZE=.1,HSHR=0,LABR=3,NDEC=0 $END
 $VC CLV4=1,ZIDA=1,NCV=5,CLMN=100.,DEL=-20.,ICRT=1 $END
 $VC LGPT=1,MODE=2,ISMB=-1,SIZE=.2,NZ=1,LUN=2,NCP=0,NDEC=0 $END
 $CD FILD=0 $END
(5X,F9.1,1X,F9.1,I2,2A1)
 $VC NWPG=1 $END
 $VC STOP=1 $END
```

APPENDIX 3
HARD MINERAL ASSESSMENTS OF STATE-OWNED TRACTS

Explanation

Appendix comprises tract-by-tract assessments of 43 hard mineral commodities listed in alphabetical order; the first 35 pages list assessments of the first 23 commodities (barite through mercury), and the second 35 pages list those of the second 20 commodities (mica through zinc) (see fig. 65)

Refer to table 7 for explanation of numerical assessment scale
Refer to table 9 for explanation of TYPE
Refer to text (Assessment of Sulfur Potential) for explanation of ID NUM

PIM NUM is the same as LEASE NO. in appendix 1

BAR = barite
BEN = bentonite
BERY = beryllium
BRI = brine
CLAY = clay
COAL = coal
COP = copper
DIM STO = dimension stone
FEL = feldspar
FLUO = fluorspar
GEM = gemstones
GRA = graphite
GYP = gypsum
HEL = helium
IND SAND = industrial sand
IRON = iron
KAO = kaolin
LEAD = lead
LIM = limestone
MAGS = magnesium + magnesite
MANG = manganese
MAR = marble
MER = mercury
MICA = mica
MOLY = molybdenum
PERL = perlite
POT = potash
RARE = rare earth elements
SALT = salt (halite)
SAND = sand + gravel
SIL = silver
SOD = sodium sulfate
STO = specialty stone
STR = strontium
SUL = sulfur
TALC = talc
THO = thorium
TIN = tin
TIT = titanium
TUN = tungsten
URA = uranium
ZEO = zeolite
ZINC = zinc

TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
04-00384-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00386-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00386-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00387-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00388-4	VH-CU-C22-3	P	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00389-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00390-0	VH-CU-C22-3	P	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00391-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00392-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00393-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00394-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00395-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00396-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00397-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00398-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00399-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00400-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00401-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00402-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00403-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00404-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00405-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00406-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00407-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00408-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00409-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00410-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00411-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00413-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00414-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00438-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00439-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00440-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00442-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00443-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00444-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00445-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00446-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00447-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00448-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00449-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00450-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00451-6	VH-CU-C21-1	F	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00452-5	VH-CU-C22-2	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00453-4	VH-CU-C21-1	F	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00454-3	VH-CU-C21-1	F	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00455-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00456-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00457-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00458-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00459-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00460-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00461-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00464-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00465-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00466-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00468-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00469-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
04-00470-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00471-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00472-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00473-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00474-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00475-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00476-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00477-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-00478-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
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TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
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04-02097-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
04-10897-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02131-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02132-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02133-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02135-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02137-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02141-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02147-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02148-4	VH-CU-D21-1	P	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02149-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02150-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02151-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02152-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02153-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02154-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02155-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02157-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02158-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02159-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02160-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COR	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
07-02161-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02162-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02163-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02164-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02165-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02166-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02167-0	VH-CU-D21-1	P	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02168-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02169-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02170-5	VH-CU-D21-1	P	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02171-4	VH-CU-D21-1	P	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02178-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02201-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02271-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02273-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02275-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02281-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
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07-02286-6	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02287-5	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02289-3	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02294-6	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02295-5	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02296-4	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02297-3	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02299-1	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02304-4	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02305-3	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02306-2	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02309-9	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02310-6	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02325-9	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02327-7	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02328-6	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02329-5	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02330-2	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02331-1	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02332-0	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COR	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
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07-02357-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02358-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02359-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02410-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02412-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COB	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
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07-02417-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02418-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02419-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02438-3	VH-CU-F19-2	A	5	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02439-2	VH-CU-F19-2	A	5	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02440-9	VH-CU-F19-2	A	5	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COR	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
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07-02873-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02874-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02875-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02876-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02878-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02879-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02881-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02882-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02889-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02893-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02894-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	7	1	1	1	1	1	3	1	1	1	1
07-02895-9	VH-CU-F19-1	M	3	1	1	3	1	1	1	1	1	1	1	1	9	1	1	1	1	1	3	1	1	1	1
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07-02899-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02915-5	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1
07-02916-4	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1
07-02917-3	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1
07-02918-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02919-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	7	1	1	1	1	1	3	1	1	1	1
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TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
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07-02931-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02932-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02933-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-02935-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02936-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-02937-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-03093-7	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COR	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
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07-03101-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03102-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-03122-2	VH-CU-C20-5	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03123-1	VH-CU-C20-4	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03124-0	VH-CU-C20-4	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03125-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03125-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03126-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03127-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03128-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03129-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03130-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03131-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03132-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03133-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03134-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03135-7	VH-CU-C20-5	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03136-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03137-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03138-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03139-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03140-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03141-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03142-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03143-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03144-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03145-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03146-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03147-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03148-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03149-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03150-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03151-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03152-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03153-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03154-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03155-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03156-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03157-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03158-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03159-8	VH-CU-C20-3	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03160-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03161-4	VH-CU-C20-2	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03162-3	VH-CU-C20-2	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03163-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COR	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
07-03164-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03165-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03166-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03167-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03168-7	VH-CU-C20-2	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03169-6	VH-CU-C20-2	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03170-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03171-2	VH-CU-C20-3	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03172-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03173-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03174-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03175-8	VH-CU-C20-2	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03176-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03177-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03178-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03179-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03180-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03181-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03182-9	VH-CU-C20-4	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03183-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03184-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03185-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03186-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03187-4	VH-CU-C21-4	P	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03188-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03189-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03190-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03191-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03192-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03193-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03194-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03195-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03196-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03197-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03198-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03199-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03200-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03201-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03203-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03204-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03205-2	VH-CU-C21-3	F	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03205-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03206-1	VH-CU-C21-3	F	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03207-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03208-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03209-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03210-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03211-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03212-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03213-2	VH-CU-C20-6	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03214-1	VH-CU-C21-3	F	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03215-0	VH-CU-C21-3	F	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03216-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03217-8	VH-CU-C21-3	P	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03218-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03219-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03220-3	VH-CU-C21-3	F	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03221-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
07-03222-1	VH-CU-C20-6	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03223-0	VH-CU-C20-6	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03224-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03225-8	VH-CU-C21-1	F	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03226-7	VH-CU-C21-1	F	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03227-6	VH-CU-C21-1	F	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03228-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03229-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03230-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03231-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03232-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03233-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03234-7	VH-CU-C21-1	F	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03235-6	VH-CU-C21-1	F	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03236-5	VH-CU-C21-1	F	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03237-4	VH-CU-C21-1	F	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03238-3	VH-CU-C21-1	F	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03239-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03240-9	VH-CU-C22-2	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03241-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03242-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03243-6	VH-CU-C21-1	F	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03244-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03245-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03246-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03247-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03248-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03249-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03250-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03251-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03252-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03253-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03254-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03255-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03256-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03257-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03258-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03259-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03260-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03261-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03262-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03263-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03264-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-03267-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03268-6	VH-CU-B21-1	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03269-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03270-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03271-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03272-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03273-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03274-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03275-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03276-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03277-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03277-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03278-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
07-03279-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03280-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03281-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03282-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03284-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03285-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03286-4	VH-CU-B21-1	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03287-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03288-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03289-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03290-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03291-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-03297-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03298-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03299-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-03302-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03303-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03304-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03305-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03306-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03307-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03308-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03309-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-03315-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-03322-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03323-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03324-8	VH-CU-C20-1	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03325-7	VH-CU-C20-1	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03326-6	VH-CU-C20-1	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03327-5	VH-CU-C20-1	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03328-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03329-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03330-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03331-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03332-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03333-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03334-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03335-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03336-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03337-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
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07-03411-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03412-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03413-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03414-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03415-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03415-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03416-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03417-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03418-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03419-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03420-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03421-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03422-9	VH-CU-A20-3	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03423-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03424-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03425-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03426-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-03428-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-03430-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-03433-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03434-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03435-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03436-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03437-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03437-2	VH-CU-B19-1	A	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-03439-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-03450-4	VH-CU-A20-1	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03451-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03452-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03453-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-03455-9	VH-CU-A19-1	P	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03456-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03457-7	VH-CU-A20-2	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03458-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03459-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03461-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03462-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03463-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-03465-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
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07-03469-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03470-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-03473-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-03480-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-03575-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-03583-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
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07-03586-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-03587-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-03728-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-04308-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COR	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
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TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COR	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
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TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COR	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
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07-07887-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1
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TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COR	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
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TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
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07-08062-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-08104-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-08355-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
07-08356-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-08357-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-08358-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-08360-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-08480-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1
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TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
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07-10315-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10316-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10317-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10324-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10325-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10326-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID	NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
07-10327-0	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10328-9	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10329-8	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10330-5	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10331-4	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10332-3	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10333-2	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10334-1	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10335-0	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10336-9	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10337-8	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10338-7	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10339-6	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10340-3	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10341-2	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10342-1	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10343-0	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10344-9	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10345-8	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10346-7	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10347-6	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10348-5	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10349-4	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10350-0	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10351-9	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10352-8	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10353-7	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10354-6	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10355-5	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10356-4	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10357-3	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10358-2	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10359-1	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10360-8	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10361-7	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10362-6	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10363-2	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10363-5	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10364-4	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10365-3	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10366-2	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10367-1	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10368-0	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10369-9	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10370-6	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10371-5	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10372-4	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10374-2	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10375-1	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10376-0	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10377-3	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10377-9	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10378-8	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10379-7	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10380-4	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10381-3	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10382-2	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10383-1	-	- -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
07-10384-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10385-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10386-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10387-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10388-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10389-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10390-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10391-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10392-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10393-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10394-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10395-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10396-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10397-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10398-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10399-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10400-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10401-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10402-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10403-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10404-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10405-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10406-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10407-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10408-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10409-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10410-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10411-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10412-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10413-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10414-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10415-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10416-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10417-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10418-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10419-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10420-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10421-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10422-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10423-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10424-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10425-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10426-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10427-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10428-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10429-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10430-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10431-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10432-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10434-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10435-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10436-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10437-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10438-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10439-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10440-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10441-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10442-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
07-10443-9	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10444-8	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10445-7	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10446-6	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10447-5	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10448-4	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10449-3	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10450-9	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10451-8	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10452-7	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10453-6	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10454-5	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-10456-3	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-10461-6	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10462-5	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-10464-3	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10465-2	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10466-1	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10467-0	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10468-9	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-10470-5	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10471-4	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10472-3	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10473-2	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10474-1	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10475-0	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-10479-6	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10480-3	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10481-2	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10482-1	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10483-0	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10484-9	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10485-8	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-10487-6	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10488-5	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10489-4	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10490-1	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10491-0	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10492-9	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10493-8	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10494-7	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-10496-5	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10497-4	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-10499-2	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10500-9	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10501-8	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10502-7	- - -	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
07-10503-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10504-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10505-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10506-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10507-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10508-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10509-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10510-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10511-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10512-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10513-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10514-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-10517-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10518-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10519-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10520-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10521-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10522-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-10524-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10525-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10526-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-10531-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-10533-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-10538-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-10548-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-10551-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10552-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10553-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10554-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10555-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10556-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10557-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10558-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10559-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10560-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1

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TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
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07-10562-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10563-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10564-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10565-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10566-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10567-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10568-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10569-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10570-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10571-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10572-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10573-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10574-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10575-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10576-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10577-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10578-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-10580-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-10584-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10585-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10586-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10587-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
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TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
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07-10884-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10885-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10886-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10887-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10888-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10889-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10890-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10891-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10892-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10893-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10894-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10895-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
07-10896-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10897-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10898-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10899-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10900-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10901-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10902-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10903-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10904-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10905-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10906-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10907-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10908-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-10910-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10911-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10912-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10913-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10914-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10915-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10916-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10917-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10918-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10919-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10920-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10921-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10922-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-10924-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10925-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10926-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10927-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10928-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10929-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10930-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10931-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10932-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10933-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-10935-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10936-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10937-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10938-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10939-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10940-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10941-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10942-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10943-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10944-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10945-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10946-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10947-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10948-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10949-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10950-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10967-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10968-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10969-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
07-10972-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10973-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10974-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10976-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10977-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10978-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10979-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10981-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10982-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10983-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-10984-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11000-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11001-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11002-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11005-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11006-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11006-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11007-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11008-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11009-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11013-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11014-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11015-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11016-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11017-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11018-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11024-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-11027-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11028-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-11030-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-11101-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11102-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11103-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11105-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11106-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11107-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11108-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11112-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11113-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11114-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-11116-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COP	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
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07-11118-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11119-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11120-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11121-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11122-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11123-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11124-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11125-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11126-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11127-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11128-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11129-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11130-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11131-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11132-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11133-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11134-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11135-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11207-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-11208-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13006-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13007-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13009-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13023-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1
07-13025-9	PE-PE-H33-2	F	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13028-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13029-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13032-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1
07-13033-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13034-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13035-7	PE-PE-H33-1	D	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-13045-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13046-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13052-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13060-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13061-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13062-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13084-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
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07-13123-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13172-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13176-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13190-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13191-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13193-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13203-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1
07-13211-3	VH-CU-G19-1	A	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1
07-13212-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13213-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13217-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13218-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13220-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13221-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13229-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
07-13230-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
08-00626-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Barite - Mercury)

PIM NUM	ID NUM	TYPE	BAR	BEN	BERY	BRI	CLAY	COAL	COR	DIM STO	FEL	FLUO	GEM	GRA	GYP	HEL	IND SAND	IRON	KAO	LEAD	LIM	MAGS	MANG	MAR	MER
15-00565-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
15-00566-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
15-00567-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
15-00568-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
15-00569-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
15-00570-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
15-00572-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
15-00573-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
15-00574-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
15-00581-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
15-00587-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
15-00588-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
15-00589-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
15-00591-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
15-00592-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
15-00593-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
15-00594-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
15-00678-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
15-04571-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-00383-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-00750-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-00789-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-00844-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-00845-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-00855-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-00856-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-01046-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-01441-6	VH-CU-C21-1	F	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-01442-5	VH-CU-C21-1	F	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-01733-3	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-01754-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-01787-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-01802-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-01878-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-01892-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-02076-6	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-02671-5	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-02676-0	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-02677-9	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-02678-8	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-02680-4	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-02682-2	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-02683-1	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-02687-7	- - -		3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1
28-02765-2	VH-CU-C21-2	A	3	1	1	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1

Total Number Of Records: 2017

PLEASE DO NOT REMOVE

(sheet separates two sections of the database)

TRANS-PECOS MINERAL COMMODITIES
(Mica - Zinc)

PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
04-00384-8	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00386-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00386-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00387-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00388-4	VH-CU-C22-3	P	1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
04-00389-3	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
04-00390-0	VH-CU-C22-3	P	1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
04-00391-9	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
04-00392-8	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
04-00393-7	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
04-00394-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00395-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00396-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00397-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00398-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00399-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00400-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00401-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00402-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00403-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00404-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00405-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00406-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00407-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00408-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00409-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00410-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00411-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00413-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00414-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00438-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00439-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00440-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00442-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00443-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00444-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00445-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00446-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00447-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00448-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00449-1	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
04-00450-7	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
04-00451-6	VH-CU-C21-1	F	1	1	1	1	1	1	1	1	1	1	3	9	1	1	1	1	1	1	1	1
04-00452-5	VH-CU-C22-2	D	1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
04-00453-4	VH-CU-C21-1	F	1	1	1	1	1	1	1	1	1	1	3	9	1	1	1	1	1	1	1	1
04-00454-3	VH-CU-C21-1	F	1	1	1	1	1	1	1	1	1	1	3	9	1	1	1	1	1	1	1	1
04-00455-2	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
04-00456-1	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00457-0	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
04-00458-9	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
04-00459-8	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
04-00460-5	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
04-00461-4	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
04-00464-1	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00465-0	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00466-9	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00468-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00469-6	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00470-3	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
04-00471-2	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00472-1	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00473-0	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00474-9	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00475-8	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00476-7	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00477-6	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00478-5	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-00479-4	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
04-01562-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01571-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01574-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01575-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01576-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01577-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01578-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01579-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01580-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01582-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01606-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01607-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01608-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01609-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01610-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01941-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01942-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01943-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01946-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01953-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01956-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01958-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01959-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01960-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01961-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01962-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01963-5	- - -		1	1	1	3	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01964-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01965-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01966-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01967-1	- - -		1	1	1	3	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01968-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01969-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01970-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01971-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01972-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01973-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01974-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01975-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01976-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01977-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01978-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01979-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01980-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01981-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01982-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01983-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01984-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01985-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01986-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
04-01987-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01988-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01989-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01990-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01991-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01992-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01993-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01994-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01995-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01996-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01997-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01998-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-01999-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02000-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02002-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02003-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02004-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02005-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02006-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02007-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02008-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02009-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02010-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02011-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02012-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02013-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02014-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02015-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02016-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02017-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02018-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02019-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02020-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02021-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02022-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02023-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02024-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02025-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02026-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02027-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02028-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02029-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02030-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02031-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02032-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02033-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02034-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02035-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02036-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02037-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02038-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02039-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02040-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02041-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02042-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02043-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02044-6	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02045-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02046-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
04-02047-3	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02048-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02049-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02051-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02058-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02060-5	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02061-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02064-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02065-0	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02067-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02068-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02069-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02070-3	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02071-2	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02072-1	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02073-0	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02074-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02075-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02076-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02077-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02078-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02088-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02090-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-02097-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
04-10897-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02131-3	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-02132-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02133-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
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07-02136-8	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
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07-02139-7	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-02140-2	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-02141-1	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-02142-0	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-02143-9	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-02144-8	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-02145-7	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-02146-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02147-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02148-4	VH-CU-D21-1	P	1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-02149-3	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-02150-9	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-02151-8	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-02152-7	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-02153-6	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-02154-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02155-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02156-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02157-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02158-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02159-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02160-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02161-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02162-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02163-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02164-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-02165-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02166-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02167-0	VH-CU-D21-1	P	1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02168-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02169-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02170-5	VH-CU-D21-1	P	1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02171-4	VH-CU-D21-1	P	1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02172-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02173-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02174-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02175-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02176-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02177-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02178-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02179-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02180-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02181-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02182-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02201-8	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-02202-7	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-02203-6	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-02204-5	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-02205-4	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-02206-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02254-4	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-02255-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02256-2	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-02257-1	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-02258-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02259-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02260-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02261-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02262-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02263-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02264-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02265-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02266-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02267-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02268-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02269-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02270-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02271-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02272-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02273-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02274-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02275-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02276-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02277-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02278-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02279-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02280-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02281-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02282-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02283-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02284-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02285-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02286-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02287-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02289-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1

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PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-02290-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02291-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02292-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02292-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02293-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02294-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02295-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02296-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02297-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02297-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02298-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02299-1	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02300-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02301-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02302-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02303-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02304-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02305-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02306-2	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02307-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02308-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02309-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02310-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02311-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02312-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02313-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02314-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02315-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02316-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02317-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02318-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02319-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02320-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02321-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02322-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02323-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02324-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02324-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02325-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02325-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02326-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02327-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02328-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02329-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02330-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02331-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02332-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02333-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02334-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02335-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02336-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02337-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02354-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02356-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02357-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02358-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02359-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02360-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02361-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-02362-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02363-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02364-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02365-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02366-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02367-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02368-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02369-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02370-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02372-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02372-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02373-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02374-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02375-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02376-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02377-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02378-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02379-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02380-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02381-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02381-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02382-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02383-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02384-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02385-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02386-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02387-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02388-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02389-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02390-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02391-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02392-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02393-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02394-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02395-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02396-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02397-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02398-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02399-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02400-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02401-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02402-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02403-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02404-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02405-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02406-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02407-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02408-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02409-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02410-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02411-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02412-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02414-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02416-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02417-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02418-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02419-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02420-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02432-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-02433-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02434-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02435-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02436-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02437-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02438-3	VH-CU-F19-2	A	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	3
07-02439-2	VH-CU-F19-2	A	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	3
07-02440-9	VH-CU-F19-2	A	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	3
07-02441-8	VH-CU-F19-2	A	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	3
07-02442-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02443-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02444-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02445-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02446-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02447-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02448-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02449-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02450-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02451-5	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-02452-4	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-02456-0	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
07-02458-8	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
07-02459-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02460-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02461-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02462-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02463-1	VH-CU-G19-2	P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
07-02464-0	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
07-02849-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02850-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02851-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02852-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02853-9	- - -		1	1	1	1	1	1	5	1	1	1	1	1	1	1	1	1	1	1	1	1
07-02854-8	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-02855-7	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-02856-6	- - -		1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1
07-02857-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02858-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02859-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02860-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02861-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02862-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02863-7	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-02864-1	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-02865-5	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-02866-4	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-02867-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02868-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02869-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02870-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02871-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02872-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02873-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02874-4	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02875-3	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02876-2	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02877-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02878-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02879-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1

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PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-02880-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02881-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02882-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02883-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02884-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02885-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02886-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02887-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02888-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02889-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02890-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02890-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02891-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02892-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02893-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02894-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02895-9	VH-CU-F19-1	M	1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
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07-02898-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02899-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02900-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02901-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02902-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02903-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02904-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02905-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02906-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02907-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02908-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02909-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02909-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02910-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02911-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02912-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02913-7	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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07-02916-4	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-02917-3	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-02918-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02919-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02920-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02921-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02922-6	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-02923-5	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-02924-4	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-02925-3	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-02926-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02927-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02928-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02929-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02930-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02931-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02932-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02933-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02934-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02935-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02936-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-02937-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02938-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02939-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02940-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02941-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02942-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02943-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02944-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02945-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02946-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-02947-7	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-02948-6	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-02949-5	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-02950-1	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-02951-0	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-03010-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03011-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03012-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03013-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03014-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03015-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03016-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03017-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03018-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03019-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03020-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03021-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03022-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03023-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03024-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03025-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03026-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03027-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03028-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03029-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03030-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03031-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03032-1	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-03035-8	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-03036-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03037-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03082-0	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-03083-9	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-03086-6	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-03087-5	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-03088-4	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-03089-3	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-03092-8	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-03093-7	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-03094-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03095-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03096-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03097-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03098-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03099-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03100-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03101-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03102-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03103-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1

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PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-03104-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03105-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03106-2	- - -		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07-03120-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03121-3	VH-CU-C20-5	D	1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03122-2	VH-CU-C20-5	D	1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03123-1	VH-CU-C20-4	D	1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03124-0	VH-CU-C20-4	D	1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03125-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03125-9	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03126-8	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03127-7	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03128-6	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03129-5	- - -		1	1	1	3	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03130-2	- - -		1	1	1	3	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03131-1	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03132-0	- - -		1	1	1	1	1	1	0	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03133-9	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03134-8	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03135-7	VH-CU-C20-5	D	1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03136-6	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03137-5	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03138-4	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03139-3	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03140-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03141-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03142-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03143-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03144-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03145-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03146-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03147-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03148-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03149-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03150-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03151-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03152-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03153-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03154-3	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03155-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03156-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03157-0	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03158-9	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03159-8	VH-CU-C20-3	D	1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03160-5	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03161-4	VH-CU-C20-2	D	1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03162-3	VH-CU-C20-2	D	1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03163-2	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03164-1	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03165-0	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03166-9	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03167-8	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03168-7	VH-CU-C20-2	D	1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03169-6	VH-CU-C20-2	D	1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03170-3	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03171-2	VH-CU-C20-3	D	1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03172-1	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03173-0	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03174-9	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-03175-8	VH-CU-C20-2	D	1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03176-7	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03177-6	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03178-5	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03179-4	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03180-1	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03181-0	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03182-9	VH-CU-C20-4	D	1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03183-8	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03184-7	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03185-6	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03186-5	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03187-4	VH-CU-C21-4	P	1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03188-3	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03189-2	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03190-9	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03191-8	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03192-7	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03193-6	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03194-5	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03195-4	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03196-3	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03197-2	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03198-1	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03199-0	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03200-7	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03201-6	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03203-4	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03204-3	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03205-2	VH-CU-C21-3	F	1	1	1	1	1	1	1	1	1	1	3	9	1	1	1	1	1	1	1	1
07-03205-5	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03206-1	VH-CU-C21-3	F	1	1	1	1	1	1	1	1	1	1	3	9	1	1	1	1	1	1	1	1
07-03207-0	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03208-9	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03209-8	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03210-5	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03211-4	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03212-3	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03213-2	VH-CU-C20-6	D	1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03214-1	VH-CU-C21-3	F	1	1	1	1	1	1	1	1	1	1	3	9	1	1	1	1	1	1	1	1
07-03215-0	VH-CU-C21-3	F	1	1	1	1	1	1	3	1	1	1	3	9	1	1	1	1	1	1	1	1
07-03216-9	- - -		1	1	1	1	1	1	1	1	1	1	8	7	1	1	1	1	1	1	1	1
07-03217-8	VH-CU-C21-3	P	1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03218-7	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03219-6	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03220-3	VH-CU-C21-3	F	1	1	1	1	1	1	1	1	1	1	3	9	1	1	1	1	1	1	1	1
07-03221-2	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03222-1	VH-CU-C20-6	D	1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03223-0	VH-CU-C20-6	D	1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03224-9	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03225-8	VH-CU-C21-1	F	1	1	1	1	1	1	1	1	1	1	3	9	1	1	1	1	1	1	1	1
07-03226-7	VH-CU-C21-1	F	1	1	1	1	1	1	1	1	1	1	3	9	1	1	1	1	1	1	1	1
07-03227-6	VH-CU-C21-1	F	1	1	1	1	1	1	1	1	1	1	3	9	1	1	1	1	1	1	1	1
07-03228-5	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03229-4	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03230-1	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03231-0	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03232-4	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03233-8	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-03234-7	VH-CU-C21-1	F	1	1	1	1	1	1	1	1	1	1	3	9	1	1	1	1	1	1	1	1
07-03235-6	VH-CU-C21-1	F	1	1	1	1	1	1	3	1	1	1	3	9	1	1	1	1	1	1	1	1
07-03236-5	VH-CU-C21-1	F	1	1	1	1	1	1	1	1	1	1	3	9	1	1	1	1	1	1	1	1
07-03237-4	VH-CU-C21-1	F	1	1	1	1	1	1	1	1	1	1	3	9	1	1	1	1	1	1	1	1
07-03238-3	VH-CU-C21-1	F	1	1	1	1	1	1	1	1	1	1	3	9	1	1	1	1	1	1	1	1
07-03239-2	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03240-9	VH-CU-C22-2	D	1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03241-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03242-7	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03243-6	VH-CU-C21-1	F	1	1	1	1	1	1	1	1	1	1	3	9	1	1	1	1	1	1	1	1
07-03244-5	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03245-4	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03246-3	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03247-2	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03248-1	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03249-0	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03250-6	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03251-5	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03252-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03253-3	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03254-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03255-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03256-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03257-9	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03258-8	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03259-7	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03260-4	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03261-3	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03262-2	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03263-1	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03264-0	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03265-9	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03266-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03267-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03268-6	VH-CU-B21-1	D	1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03269-5	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03270-2	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03271-1	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03272-0	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03273-9	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03274-8	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03275-7	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03276-6	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03277-5	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03277-5	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03278-4	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03279-3	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03280-0	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03281-9	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03282-8	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03284-6	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03285-5	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03286-4	VH-CU-B21-1	D	1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03287-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03288-2	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03289-1	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03290-8	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03291-7	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03292-6	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Mica - Zinc)

PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-03293-5	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03294-4	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03295-3	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03296-2	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03297-1	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03298-0	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03299-0	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03300-6	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03301-5	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03302-4	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03303-3	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03304-2	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03305-1	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03306-0	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03307-9	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03308-8	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03309-7	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03310-4	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03311-3	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03312-2	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03313-1	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03314-0	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03315-9	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03316-8	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03317-7	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03318-6	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03319-5	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03320-2	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03321-1	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03322-0	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03323-9	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03324-8	VH-CU-C20-1	D	1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03325-7	VH-CU-C20-1	D	1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03326-6	VH-CU-C20-1	D	1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03327-5	VH-CU-C20-1	D	1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03328-4	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03329-3	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03330-0	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03331-9	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03332-8	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03333-7	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03334-6	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03335-5	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03336-4	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03337-3	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03338-2	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03410-3	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03411-2	- - -		1	1	1	3	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03412-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03413-0	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03414-9	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03415-8	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03415-8	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03416-7	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03417-6	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03418-5	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03419-4	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03420-1	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03421-0	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Mica - Zinc)

PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-03422-9	VH-CU-A20-3	D	1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03423-8	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03424-7	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03425-6	- - -		1	1	1	3	1	3	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03426-5	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03427-4	VH-CU-A20-3	D	1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03428-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03429-2	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03430-9	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03431-8	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03432-7	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03433-6	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03434-5	- - -		1	1	1	3	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03435-4	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03436-3	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03437-2	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03437-2	VH-CU-B19-1	A	1	1	1	3	1	1	1	1	1	1	3	5	1	1	1	1	1	1	1	1
07-03438-1	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03439-0	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03440-7	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03441-6	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03442-5	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03442-5	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03443-4	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03444-3	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03446-1	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03447-0	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03448-9	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03449-8	- - -		1	1	1	3	1	3	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03450-4	VH-CU-A20-1	D	1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03451-3	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03452-2	- - -		1	1	1	3	1	3	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03453-1	- - -		1	1	1	3	1	3	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03454-0	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03455-9	VH-CU-A19-1	P	1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03456-8	- - -		1	1	1	3	1	3	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03457-7	VH-CU-A20-2	D	1	1	1	3	1	3	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03458-6	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03459-5	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03461-1	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03462-0	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03463-9	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03464-8	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03465-7	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03467-5	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03468-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03469-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03470-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03471-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03473-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03474-6	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03475-5	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03476-4	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03477-3	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03478-2	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03480-8	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03535-3	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03538-0	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03539-9	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-03540-6	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03541-5	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03542-4	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03543-3	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03544-2	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03545-1	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03546-0	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03547-9	- - -		1	1	1	3	1	3	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03548-8	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03550-3	VH-CU-B20-1	D	1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03551-2	VH-CU-B20-1	D	1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03552-1	VH-CU-B20-1	D	1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03553-0	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03554-9	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03555-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03556-7	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03557-6	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03558-5	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03559-4	- - -		1	1	1	3	1	3	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03560-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03561-0	- - -		1	1	1	3	1	3	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03562-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03563-8	- - -		1	1	1	3	1	3	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03564-7	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03565-6	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03566-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03567-4	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03568-3	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03569-2	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03571-8	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03572-7	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03573-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03573-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03574-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03575-4	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03576-3	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03577-2	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03578-1	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03579-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03580-7	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03581-6	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03582-5	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03583-4	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03584-3	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-03585-2	- - -		1	1	1	3	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03586-1	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03587-0	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03588-9	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03590-5	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03591-4	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03592-3	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03593-2	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03595-0	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03596-9	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03686-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03687-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03688-8	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03689-7	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03690-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-03691-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03692-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03694-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03726-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03727-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03728-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03729-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03730-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03731-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03750-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03751-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03752-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03753-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03754-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03755-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03756-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03757-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03758-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03759-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03760-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03761-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03764-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03765-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03766-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03767-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03768-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03769-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03770-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03771-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03772-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03773-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-03774-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-04304-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-04308-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-04310-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-04311-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-04313-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-04313-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-04314-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-04327-3	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-04328-2	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-04343-3	- - -		1	1	1	3	1	3	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-04346-0	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-04969-	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-05202-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-05410-8	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-05411-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-05412-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-05413-5	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07317-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07318-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07319-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07320-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07321-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07322-1	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07323-0	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07329-4	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07330-1	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07331-0	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-07332-9	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07367-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07373-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07374-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07376-6	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07378-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07396-2	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07398-0	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07399-9	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07400-6	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07401-5	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07402-4	PE-PE-H32-2	F	1	1	1	1	1	1	3	1	1	1	3	9	1	1	1	1	1	1	1	1
07-07403-3	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07492-5	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07493-4	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07494-3	- - -		1	1	1	1	1	1	5	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07496-1	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07497-0	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07498-9	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07499-8	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07500-5	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07501-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07504-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07505-0	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07506-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07507-8	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07508-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07572-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07573-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07574-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07710-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07711-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07712-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07717-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07718-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07719-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07724-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07725-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07726-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07728-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07730-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07731-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07732-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07733-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07734-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07735-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07736-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07737-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07738-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07739-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07740-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07741-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07742-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07743-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07744-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07745-0	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07746-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07747-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07748-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Mica - Zinc)

PIM NUM	ID	NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-07749-6	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07750-2	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07751-1	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07752-0	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07753-9	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07754-8	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07755-7	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07756-6	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07757-5	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07759-3	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07760-0	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07761-9	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07762-8	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07763-7	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07764-6	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07765-5	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07766-4	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07768-2	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07770-8	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07825-3	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07827-1	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07832-4	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07834-2	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07836-0	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07837-9	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07838-8	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07840-4	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07842-2	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07850-1	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07851-0	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07852-9	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07853-8	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07854-7	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07855-6	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07856-5	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07857-4	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07858-3	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07859-2	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07860-9	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07861-8	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07862-7	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07863-6	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07864-5	-	- -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07865-4	-	- -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07866-3	-	- -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07867-2	-	- -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07868-1	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07869-0	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07870-7	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07871-6	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07872-5	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07873-4	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07874-3	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07875-2	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07876-1	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07877-0	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07878-9	-	- -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07879-8	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07880-5	-	- -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Mica - Zinc)

PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-07881-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07882-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07883-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07884-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07885-0	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07886-9	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07887-8	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07888-7	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07889-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07890-3	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07891-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07892-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07893-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07894-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07895-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07896-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07897-6	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07898-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07899-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07900-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07901-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07902-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07903-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07904-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07905-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07906-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07907-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07908-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07909-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07910-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07911-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07912-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07913-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07914-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07915-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07916-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07917-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07918-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07919-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07920-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07921-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07922-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07923-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07924-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07925-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07926-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07927-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07928-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07929-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07930-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07931-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07932-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07933-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07934-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07935-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07936-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07937-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07938-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07939-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-07947-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07948-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07949-4	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07950-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07951-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07952-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07953-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07954-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07955-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07956-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07957-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07958-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07959-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07960-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07961-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07963-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07964-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07965-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07966-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07967-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07968-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07969-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07970-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07971-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07972-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07973-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07974-2	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07976-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07977-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07978-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07979-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07980-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07981-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07982-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07983-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07984-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07985-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07986-8	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07987-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-07988-6	- - -		1	1	1	1	1	1	5	1	1	1	3	7	1	1	1	1	1	1	1	1
07-07992-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08000-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08001-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08002-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08003-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08004-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08005-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08006-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08007-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08008-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08009-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08011-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08011-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08012-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08013-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08014-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08017-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08018-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08019-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-08020-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08022-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08023-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08024-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08025-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08026-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08027-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08028-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08029-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08030-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08031-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08032-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08033-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08037-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08038-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08039-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08040-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08041-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08042-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08043-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08044-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08050-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08055-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08057-0	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08057-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08058-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08059-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08061-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08062-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08073-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08074-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08075-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08092-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08093-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08101-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08104-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08355-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08356-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08357-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08358-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08360-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08479-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08480-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08481-6	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-08482-5	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-08482-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08483-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08484-3	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-08485-2	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-08486-1	- - -		1	1	1	1	1	1	5	1	1	1	3	7	1	1	1	1	1	1	1	1
07-08487-0	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-08488-9	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-08489-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08490-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08491-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08492-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08493-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08495-0	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-08497-8	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-08498-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08499-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08500-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08501-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08502-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08503-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08504-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08505-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08506-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08507-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08508-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08509-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08510-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08511-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08512-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08513-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08514-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08515-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08516-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08517-4	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08518-3	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08519-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08520-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08521-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08522-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08523-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08524-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08525-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08526-3	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08527-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08528-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08529-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08530-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08531-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08532-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08533-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08534-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08535-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08536-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08537-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08538-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08539-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08540-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08541-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08542-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08543-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08544-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08545-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08546-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08547-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08549-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08550-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08551-1	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-08598-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08599-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08600-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08621-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08622-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08623-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Mica - Zinc)

PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-08624-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08625-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08626-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08627-1	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-08628-0	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-08629-9	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-08630-6	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-08631-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08632-4	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-08633-3	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-08633-3	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-08634-2	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-08635-1	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-08636-0	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-08637-9	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-08638-8	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-08639-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08640-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08666-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08668-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08677-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08678-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-08691-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10141-4	- - -		1	1	1	3	1	3	7	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10142-3	- - -		1	1	1	3	1	3	7	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10143-2	- - -		1	1	1	3	1	3	7	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10144-1	- - -		1	1	1	3	1	3	7	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10145-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10287-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10315-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10316-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10317-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10324-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10325-2	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-10326-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10327-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10328-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10329-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10330-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10331-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10332-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10333-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10334-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10335-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10336-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10337-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10338-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10339-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10340-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10341-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10342-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10343-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10344-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10345-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10346-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10347-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10348-5	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10349-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10350-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Mica - Zinc)

PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-10351-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10352-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10353-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10354-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10355-5	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10356-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10357-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10358-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10359-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10360-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10361-7	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10362-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10363-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10363-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10364-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10365-3	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10366-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10367-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10368-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10369-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10370-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10371-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10372-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10374-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10375-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10376-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10377-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10377-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10378-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10379-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10380-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10381-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10382-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10383-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10384-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10385-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10386-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10387-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10388-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10389-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10390-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10391-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10392-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10393-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10394-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10395-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10396-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10397-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10398-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10399-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10400-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10401-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10402-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10403-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10404-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10405-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10406-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10407-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10408-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
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PIM NUM	ID	NUM		TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-10409-1	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10410-8	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10411-7	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10412-6	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10413-5	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10414-4	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10415-3	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10416-2	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10417-1	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10418-0	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10419-9	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10420-6	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10421-5	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10422-4	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10423-3	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10424-2	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10425-1	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10426-0	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10427-9	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10428-8	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10429-7	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10430-4	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10431-3	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10432-2	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10434-0	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10435-9	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10436-8	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10437-7	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10438-6	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10439-5	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10440-2	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10441-1	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10442-0	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10443-9	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10444-8	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10445-7	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10446-6	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10447-5	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10448-4	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10449-3	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10450-9	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10451-8	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10452-7	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10453-6	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10454-5	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10455-4	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10456-3	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10457-2	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10460-7	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10461-6	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10462-5	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10463-4	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10464-3	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10465-2	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10466-1	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10467-0	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10468-9	-	-	-		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10469-8	-	-	-		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10470-5	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Mica - Zinc)

PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-10471-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10472-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10473-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10474-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10475-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10476-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10477-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10478-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10479-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10480-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10481-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10482-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10483-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10484-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10485-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10486-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10487-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10488-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10489-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10490-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10491-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10492-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10493-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10494-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10495-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10496-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10497-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10498-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10499-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10500-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10501-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10502-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10503-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10504-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10505-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10506-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10507-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10508-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10509-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10510-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10511-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10512-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10513-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10514-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10515-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10515-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10516-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10517-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10518-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10519-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10520-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10521-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10522-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10523-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10524-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10525-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10526-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10527-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10529-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Mica - Zinc)

PIM NUM	ID	NUM		TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-10530-3	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10531-2	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10532-1	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10533-0	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10534-9	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10535-8	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10536-7	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10537-6	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10538-5	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10539-4	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10540-1	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10541-0	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10542-9	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10543-8	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10544-7	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10545-6	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10546-5	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10547-4	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10548-3	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10549-2	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10550-8	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10551-7	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10552-6	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10553-5	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10554-4	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10555-3	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10556-2	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10557-1	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10558-0	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10559-9	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10560-6	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10561-5	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10562-4	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10563-3	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10564-2	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10565-1	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10566-0	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10567-9	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10568-8	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10569-7	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10570-4	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10571-3	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10572-2	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
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07-10575-9	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10576-8	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10577-7	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10578-6	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10579-5	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10580-2	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10581-1	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10582-0	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10583-9	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10584-8	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10585-7	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10586-6	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10587-5	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10588-4	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Mica - Zinc)

PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-10589-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10590-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10591-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10592-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10593-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10594-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10595-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10596-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10597-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10598-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10599-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10600-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10601-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10602-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10603-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10604-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10605-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10606-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10607-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10608-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10609-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10610-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10611-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10612-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10613-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10614-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10615-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10616-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10617-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10618-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10619-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10620-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10621-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10622-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10623-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10624-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10625-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10626-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10627-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10628-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10629-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10630-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10631-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10632-0	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10633-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10634-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10635-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10636-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10637-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10638-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10639-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10640-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10641-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10642-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10643-7	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10644-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10645-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10646-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10647-3	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Mica - Zinc)

PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-10648-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10649-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10650-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10651-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10652-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10653-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10654-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10655-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10656-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10657-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10658-9	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10659-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10660-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10661-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10662-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10663-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10664-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10665-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10666-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10667-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10668-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10669-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10670-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10671-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10673-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10674-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10675-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10676-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10677-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10678-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10679-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10682-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10683-8	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10684-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10685-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10686-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10695-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10696-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10697-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10698-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10702-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10703-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10703-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10704-3	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10722-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10723-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10724-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10725-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10726-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10728-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10826-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10827-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10828-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10829-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10830-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10832-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10833-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10834-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10846-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Mica - Zinc)

PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-10847-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10852-3	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10853-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10858-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10859-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10862-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10863-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10871-0	- - -		1	1	1	3	1	3	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10873-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10876-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10878-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10879-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10880-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10881-8	- - -		1	1	1	3	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10882-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10883-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10884-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10885-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10886-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10887-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10888-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10889-0	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10890-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10891-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10892-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10893-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10894-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10895-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10896-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10897-0	- - -		1	1	1	3	1	3	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10898-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10899-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10900-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10901-4	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10902-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10903-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10904-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10905-0	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10906-9	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10907-8	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10908-7	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10909-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10910-3	- - -		1	1	1	3	1	3	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10911-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10912-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10913-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10914-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10915-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10916-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10917-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10918-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10919-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10920-1	- - -		1	1	1	3	1	3	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10921-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10922-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10923-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10924-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10925-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10926-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Mica - Zinc)

PIM NUM	ID	NUM		TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-10927-4	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10928-3	-	-	-		1	1	1	3	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10929-2	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10930-9	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10931-8	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10932-7	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10933-6	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10934-5	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10935-4	-	-	-		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10936-3	-	-	-		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10937-2	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10938-1	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10939-0	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10940-7	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10941-6	-	-	-		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10942-5	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10943-4	-	-	-		1	1	1	3	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10944-3	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10945-2	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10946-1	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10947-0	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10948-9	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10949-8	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10950-4	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10967-5	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10968-4	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10969-3	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10972-8	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10973-7	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10974-6	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10976-4	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10977-3	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10978-2	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10979-1	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10981-7	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10982-6	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10983-5	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-10984-4	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11000-2	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11001-1	-	-	-		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11002-0	-	-	-		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11005-7	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11006-6	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11006-6	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11007-5	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11008-4	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11009-3	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11013-7	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11014-6	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11015-5	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11016-4	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11017-3	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11018-2	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11024-4	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11025-3	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11026-2	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11027-1	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11028-0	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11029-9	-	-	-		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Mica - Zinc)

PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
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07-11033-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11034-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11035-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11036-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11037-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11038-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11039-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11040-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11041-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11042-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11044-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11051-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11099-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11101-0	- - -		1	1	1	1	1	1	5	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11102-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11103-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11105-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11106-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11107-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11108-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11112-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11113-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11114-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11115-4	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11116-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11117-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11118-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11119-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11120-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11121-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11122-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11123-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11124-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11125-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11126-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11127-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11128-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11129-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11130-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11131-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11132-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11133-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11134-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11135-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11207-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-11208-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13006-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13007-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13009-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13023-1	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13025-9	PE-PE-H33-2	F	1	1	1	1	1	1	3	1	1	1	3	9	1	1	1	1	1	1	1	1
07-13028-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13029-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13032-0	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13033-9	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-13034-8	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13035-7	PE-PE-H33-1	D	1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-13044-6	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Mica - Zinc)

PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
07-13045-5	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13046-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13052-5	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13060-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13061-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13062-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13084-7	- - -		1	1	1	1	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
07-13085-6	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13123-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13172-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13176-6	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13190-8	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13191-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13193-5	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13203-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13211-3	VH-CU-G19-1	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5
07-13212-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13213-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13217-7	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
07-13218-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13220-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13221-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13229-3	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
07-13230-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
08-00626-7	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
15-00565-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
15-00566-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
15-00567-3	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
15-00568-2	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
15-00569-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
15-00570-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
15-00572-6	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
15-00573-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
15-00574-4	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
15-00581-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
15-00587-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
15-00588-8	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
15-00589-7	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
15-00591-3	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
15-00592-2	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
15-00593-1	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
15-00594-0	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
15-00678-9	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
15-04571-9	- - -		1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1
28-00383-8	- - -		1	1	1	1	1	1	3	1	1	1	3	7	1	1	1	1	1	1	1	1
28-00750-3	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
28-00789-8	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
28-00844-1	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
28-00845-0	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
28-00855-7	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
28-00856-6	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
28-01046-5	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
28-01441-6	VH-CU-C21-1	F	1	1	1	1	1	1	1	1	1	1	3	9	1	1	1	1	1	1	1	1
28-01442-5	VH-CU-C21-1	F	1	1	1	1	1	1	1	1	1	1	3	9	1	1	1	1	1	1	1	1
28-01733-3	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
28-01754-7	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
28-01787-8	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
28-01802-9	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
28-01878-8	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1

TRANS-PECOS MINERAL COMMODITIES
(Mica - Zinc)

PIM NUM	ID NUM	TYPE	MICA	MOLY	PERL	POT	RARE	SALT	SAND	SIL	SOD	STO	STR	SUL	TALC	THO	TIN	TIT	TUN	URA	ZEO	ZINC
28-01892-0	- - -		1	1	1	3	1	1	1	1	1	1	3	7	1	1	1	1	1	1	1	1
28-02076-6	- - -		1	1	1	3	1	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1
28-02671-5	- - -		1	1	1	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1
28-02676-0	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
28-02677-9	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
28-02678-8	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
28-02680-4	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
28-02682-2	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
28-02683-1	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
28-02687-7	- - -		1	1	1	3	1	3	3	1	1	1	3	3	1	1	1	1	1	1	1	1
28-02765-2	VH-CU-C21-2	A	1	1	1	1	1	1	1	1	1	1	3	9	1	1	1	1	1	1	1	1

Total Number Of Records: 2017