



CONTRACT REPORT FOR FY 2019 & FY 2020 NATIONAL GEOLOGICAL & GEOPHYSICAL DATA PRESERVATION PROJECT

NGGDPP G19AS00009 & G20AS00008

Abstract

Identification of archived, unpublished and published resources on 35 critical minerals (defined by Fortier et al. , 2018) that have geologic and economic potential in the State of Texas, and statewide depth to Precambrian basement map, rasterized from geological and geophysical sources and contoured at 500m intervals.

Elliott, B.A., DeJarnett, B.B., Kyle, J.R., Andrews, J.R., Averett, A.R.
and Childress, T.M.

Delivered August 31, 2023

The Bureau of Economic Geology has a rich history of mineral exploration and mining that predates the Bureau's role as the Geological Survey of Texas established in 1858. Most of the United States Geological Survey, United States Bureau of Mines and Bureau of Economic Geology publications that address mineral resources were published prior to the digital-age and development of the internet. Most of this information is still preserved and archived as annual mineral reports, reports of investigations, mineral circulars and products published between 1858 and 1990. As part of the National Geological and Geophysical Data Preservation Project funded through the United States Geological Survey, two project goals were developed to assist in identification of critical minerals in Texas.

Project Goal 1 for 2019 and 2020 was to acquire and review all publications, materials and data that reference and describe mineral information, mineral deposits and occurrences that host critical minerals, and transcribe these data into the provided spreadsheet and information template, that includes name, location, geology, resource information on contained commodities, production information, resource or reserve estimations, ore grade, deposit type, mining history, reference citations, and other relevant information.

Critical mineral information was reviewed and acquired from all available historical published sources at the Bureau of Economic Geology, many carried over from the Bureau of Mines and Geological Survey, published in the late half of the 19th century and early half of the 20th century. A comprehensive literature search of scientific publications was conducted that included references to critical mineral resources and related deposits or prospects in the state of Texas.

Each of the 35 critical minerals were investigated and a geospatial point data file was generated using the provided NGGDPP template. Data is made public through the contracted reports site at the Bureau of Economic Geology publication bookstore (<http://www.beg.utexas.edu/publications/contracted-reports>) and at the Texas Mineral Resource interactive online GIS Map, currently in draft form at (<https://coastal.beg.utexas.edu/txmineralresources/#/>). Metadata will conform to NGGDPP metadata schema and the interactive data maps will provide the same data table information for each critical mineral location.

Project Goal 2 was to develop a statewide depth to Precambrian basement map in common geospatial digital data format employing the national Geologic Map Schema (GeMS) using available seismic and drill core data. The state of Texas has abundant well log data, and the Bureau of Economic Geology, functioning as the state geological survey, has numerous seismic and geophysical surveys, thousands of cross sections and drill core data. Although Precambrian basement has been mapped and interpolated in oil and gas basins and identified as surface (and near surface) exposure in central and western Texas, there had not been an effort to compile all of these data into a complete and distributable geospatial dataset and published basement map.

Data was acquired and reviewed from known and previously mapped Precambrian exposures at the surface. The project reviewed and identified well logs and depth to basement data recorded in the Texas Railroad Commission (TRRC) wellbore database, the IHS well log service subscription (accessible at the Bureau of Economic Geology), the Bureau of Economic Geology physical well log database and related digital content. We also reviewed water well data from the Texas Water Development Board (TWDB) to

include near surface intersections of wells with Precambrian basement. Seismic data, geophysical datasets and interpolated cross sections were integrated into a comprehensive subsurface elevation map. There were numerous disconnected geophysical survey sources that were compiled by the Bureau of Economic Geology geophysics and seismic groups, as well as the Institute of Geophysics at the Jackson School of Geosciences at the University of Texas at Austin. Historical and current geophysical databases, at various resolutions, were compared and integrated to interpolate Precambrian surfaces across the State.

Well log source, location, depth and other salient details were investigated and recorded to develop in interpolated basement surface, and re-interpolated into a statewide 1 km² resolution point shapefile. The basement surface was rasterized and contoured at 500m isoline elevations. Digital map (geospatial dataset download) and a published paper map products will be made available to the public through the Bureau of Economic Geology's Publications Store (<https://store.beg.utexas.edu/>). Contract reports including the data used to derive the statewide basement map, as well as a PDF copy of the basement map, will be made available to the public through the Bureau of Economic Geology's Contracted Reports public distribution website (<http://www.beg.utexas.edu/publications/contracted-reports>).

Project Goal 1: Identify archived, unpublished and published mineral resource information on the 35 critical minerals outlined in Fortier and others (2018) that may have geologic and economic potential in the state of Texas

1. Critical Mineral Information Source Review

Aluminum

Barron, T., 1981, The Aluminum Industry of Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular No. 67, 16 p.

Fisher, W.L., with contributions by Chelf, C.R., Shelby, C.A., Garner, L.E., Owen, D.E. and Schofield, D.A., 1965, Rock and Mineral Resources of East Texas: The University of Texas at Austin, Bureau of Economic Geology Report of Investigations No. 54, 439 p.

Redfield, R. C., 1942, Bauxite and Aluminum: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular No. 18, 10 p.

Antimony

None

Arsenic

Price, J. G., Henry, C. D., Standen, A. R., and Posey, J. S., 1985, Origin of Silver-Copper-Lead Deposits in Red-Bed Sequences of Trans-Pecos Texas: Tertiary Mineralization in Precambrian, Permian, and Cretaceous Sandstones: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 145, 65 p.

Tewalt, S. J., 1986, Chemical Characterization of Texas Lignite: The University of Texas at Austin, Bureau of Economic Geology, Geological Circular 86-1, 54 p. doi.org/10.23867/gc8601D.

Barite

Baker, C. L., 1932, Barite in Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular No. 4, 3 p.

Barnes, V. E., 1939, Additional Notes on Barite: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular No. 11, 3 p.

Bureau of Economic Geology, 1943, Publication 4301: Texas Mineral Resources. Bureau of Economic Geology, The University of Texas at Austin, pp. 105-111

Evans, G.L., 1946, Barite deposits in Texas, in Bureau of Economic Geology, The University of Texas at Austin, [1946], Texas Mineral Resources 1943, 390 p. (p. 105–111.

Flawn, P.T., 1956, Report of Investigation 16: The Hazel, Copper-Silver Mine, Culberson County, Texas., University of Texas, Austin, Bureau of Economic Geology, 23 p.

King, P. B., and Flawn, P. T., 1953, Publication 5301: Geology and Mineral Deposits of Pre-Cambrian Rocks of the Van Horn Area, Texas. University of Texas, Austin, Bureau of Economic Geology, Publication No. 5301, 218 p.

Kyle, J. R., 1994, The Barite Industry and Resources of Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular No. 85, 85 p.

Maxwell, R. A., 1962, Mineral Resources of South Texas: Region Served through the Port of Corpus Christi: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 43, 140 p.

Price, J. G., Henry, C. D., and Standen, A. R., 1983, Annotated Bibliography of Mineral Deposits in Trans-Pecos Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular No. 73, 108 p.

Schoch, E. P., 1918, Bulletin 1814: Chemical Analyses of Texas Rocks and Minerals: University of Texas, Austin, Bureau of Economic Geology and Technology, Bulletin 1814, 256 p.

Sellards, E.H., Baker, C.L. and others, 1934, Bulletin 3401: The Geology of Texas, Volume II, Structural and Economic Geology [exclusive of petroleum]. Bureau of Economic Geology, University of Texas at Austin pp. 403-409

Weissenborn, A. E., and Stenzel, H. B., 1948, Publication 4824: Geological Resources of the Trinity River Tributary Area in Oklahoma and Texas: University of Texas, Austin, Publication 4824, 252 p.

Zapp, A., 1941, Barite in Northern Llano County [Texas]: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Survey Circular MS0035, 4 p.

Beryllium

Crocker, L., et al., 1963, Recovery of Beryllium from Spor Mountain, Utah, Ore by Solvent Extraction and Caustic Stripping, Bureau of Mines Report of Investigation 6173, 27 p.

Henry, C. D., Price, J. G., and Miser, D. E., 1989, Geology and Tertiary Igneous Activity of the Hen Egg Mountain and Christmas Mountains Quadrangles, Big Bend Region, Trans-Pecos Texas: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 183, 105 p.

Holser, W.T., 1959, Trans-Pecos region, Texas and New Mexico - Cave Peak area, in Warner, L.A., et al., eds., Occurrence of nonpegmatite beryllium in the United States. US Geological Survey, Professional Paper 318, p. 140-143.

Paige, S., 1912, Geologic Atlas of the United States, Llano-Burnet Folio, Texas, USGS Folio 183, 16 p.

Price, J. G., Henry, C. D., and Standen, A. R., 1983, Annotated Bibliography of Mineral Deposits in Trans-Pecos Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular No. 73, 108 p.

Bismuth

Stenzel, H.B. and Barnes, V.E., 1939, Bismuth-Molybdenum Prospect (Kiam Prospect) of Llano County, Texas. In University of Texas, Austin, Bureau of Economic Geology, Contributions to Geology, 1939, 1125 p.

Cesium

None

Chromium

Tewalt, S. J., 1986, Chemical Characterization of Texas Lignite: The University of Texas at Austin, Bureau of Economic Geology, Geological Circular 86-1, 54 p. doi.org/10.23867/gc8601D.

Cobalt

None

Fluorspar

Barnes, V.E., 1943, Preliminary Reconnaissance Report on Fluorite in the Spring Creek Area of Burnet County, Texas. University of Texas, Bureau of Economic Geology, Mineral Resource Circular No. 27, 4 p.

Bulletin 3401: The Geology of Texas, Volume II, Structural and Economic Geology [exclusive of petroleum], by E.H. Sellards, C.L. Baker and others, originally printed in 1934, Bureau of Economic Geology, University of Texas at Austin 884 p.

Bureau of Economic Geology, The University of Texas at Austin, [1946], Texas Mineral Resources 1943, 390 p.

Daugherty, F.W., 1982, Fluorspar Deposits of the Christmas Mountains District, Brewster County, TEXAS (Proceedings of the 17th Annual Forum on the Geology of Industrial Minerals, May 13-15, 1981, Albuquerque, NM

Dennis, W.E., 1946, Exploration of Eagle Mountain Fluorspar Deposits, Hudspeth County, Texas, U.S. Bureau of Mines Report of Investigation 3878, 11 p.

Evans, G.L., 1943, Fluorspar Deposits in the Eagle Mountains of Hudspeth County, Texas. The University of Texas at Austin, Bureau of Economic Geology, Mineral Circular 26, 10 p.

Henry, C. D., and Muehlberger, W. R., editors, 1996, Geology of the Solitario Dome, Trans-Pecos Texas: Paleozoic, Mesozoic, and Cenozoic Sedimentation, Tectonism, and Magmatism: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 240, 182 p.

Henry, C. D., Price, J. G., and Miser, D. E., 1989, Geology and Tertiary Igneous Activity of the Hen Egg Mountain and Christmas Mountains Quadrangles, Big Bend Region, Trans-Pecos Texas: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 183, 105 p.

Maxwell, R. A., 1962, Mineral Resources of South Texas: Region Served through the Port of Corpus Christi: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 43, 140 p.

McAnulty, W. N., 1967, Fluorspar in Brewster County, Texas: The University of Texas at Austin, Bureau of Economic Geology, Geological Circular 67-2, 16 p. doi.org/10.23867/gc6702D.

McAnulty, W. N., 1972, Mineral Deposits in the West Chinati Stock, Chinati Mountains, Presidio County, Texas. The University of Texas at Austin, Bureau of Economic Geology, Geological Circular 72-1, 13 p.

McAnulty, W. N., Sr., 1974, Fluorspar in Texas: The University of Texas at Austin, Bureau of Economic Geology, Handbook 3, 31 p.

Paige, S., 1912, Geologic Atlas of the United States, Llano-Burnet Folio, Texas. USGS Folio 183, 16 p.

Price, J. G., Henry, C. D., and Standen, A. R., 1983, Annotated Bibliography of Mineral Deposits in Trans-Pecos Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular No. 73, 108 p.

Publication 4301: Texas Mineral Resources, 1943, Bureau of Economic Geology, The University of Texas at Austin, pp. 227-238

Sedlmayer, J. J., 1939, Report on the Mineral Resources of Fayette County, Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Survey Circular MS0027, 2 p.

Gallium

None

Germanium

None

Graphite

Baker, C. L., 1931, Graphite in Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular No. 1, 31 p.

Baker, C.L., 1935, Geology of Texas, v. 2, Part 3: University of Texas Bulletin 3401, pp. 260-261.

Barnes, V. E., 1940, Additional Notes on Graphite in Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular No. 15, 8 p.

Barnes, V. E., 1958, Field Excursion, Eastern Llano Region: The University of Texas at Austin, Bureau of Economic Geology, Guidebook No. 1, 36 p.

Barnes, V. E., Dawson, R. F., and Parkinson, G. A., 1942, Building Stones of Central Texas: University of Texas, Austin, Bureau of Economic Geology and Technology, Publication 4246, 198 p.

Bulletin 3401: The Geology of Texas, Volume II, Structural and Economic Geology [exclusive of petroleum], by E.H. Sellards, C.L. Baker and others, originally printed in 1934, Bureau of Economic Geology, University of Texas at Austin, pp. 258-262

Bureau of Economic Geology, The University of Texas at Austin, 1936, Mineral Resource Survey of Texas Circular MS0001, 1 p.

Chelf, C. R., 1943, Graphite in Llano County, Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Survey Circular MS0057, 10 p.

Dietrich, J. W., and Lonsdale, J. T., 1957, Mineral Resources of the Colorado River Industrial Development Association Area: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 37, 84 p.

McGehee, R. V., 1979, Precambrian Rocks of the Southeastern Llano Region, Texas: The University of Texas at Austin, Bureau of Economic Geology, Geological Circular 79-3, 36 p.

Plummer, F. B., 1950, The Carboniferous Rocks of the Llano Region of Central Texas: The University of Texas at Austin, Bureau of Economic Geology, Publication 4329, 170 p.

Ramsey, G. D., 1936, Report on Clay Deposits in Grimes County: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Survey Circular MS0015, 3 p.

Schoch, E. P., 1918, Chemical Analyses of Texas Rocks and Minerals: University of Texas, Austin, Bureau of Economic Geology and Technology, Bulletin 1814, 256 p.

Sellards, E. H., Adkins, W. S., and Plummer, F. B., 1932, The Geology of Texas, v. 1, Stratigraphy: University of Texas, Austin, 1007 p.

Udden, J. A., Baker, C. L., and Böse, Emil, 1916, Review of the Geology of Texas: University of Texas, Austin, Bureau of Economic Geology and Technology, Bulletin 44, 167 p.

Hafnium

None

Helium

Fisher, W. L., 1965, Texas Minerals: Trends in Production: The University of Texas at Austin, Bureau of Economic Geology, Geological Circular 65-4, 28 p.

Indium

None

Lithium

None

Magnesium

Bein, Amos, and Land, L. S., 1982, San Andres Carbonates in the Texas Panhandle: Sedimentation and Diagenesis Associated with Magnesium-Calcium-Chloride Brines: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 121, 48 p.

Chelf, C. R., 1941, Magnesite Mining in Llano County, Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Survey Circular MS0040, 4 p.

McCammon, J. H., 1941, Report on Tin and Magnesite Deposits in Mason County, Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Survey Circular MS0032, 5 p.

Palmer, D. P., 1987, A Saponite and Chlorite-Rich Clay Assemblage in Permian Evaporite and Red-Bed Strata, Palo Duro Basin, Texas Panhandle: The University of Texas at Austin, Bureau of Economic Geology, Geological Circular 87-3, 21 p.

Rodda, P. U., Fisher, W. L., Payne, W. R., and Schofield, D. A., 1966, Limestone and Dolomite Resources, Lower Cretaceous Rocks, Texas: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 56, 286 p.

Schoch, E. P., Barnes, V. E., and Parkinson, G. A., 1938, High Magnesia Marble from Sharp Mountain Area of Llano County, Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular No. 10, 3 p.

Manganese

Bureau of Economic Geology, The University of Texas at Austin, [1946], Texas Mineral Resources 1943, 390 p.

Bein, Amos, and Land, L. S., 1982, San Andres Carbonates in the Texas Panhandle: Sedimentation and Diagenesis Associated with Magnesium-Calcium-Chloride Brines: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 121, 48 p.

Dietrich, J.W., 1965, Geology of the Presidio Area, Presidio County, Texas. University of Texas, Ph.D dissertation thesis, 313 p.

Henry, C. D., and Muehlberger, W. R., editors, 1996, Geology of the Solitario Dome, Trans-Pecos Texas: Paleozoic, Mesozoic, and Cenozoic Sedimentation, Tectonism, and Magmatism: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 240, 182 p.

Henry, C. D., and Price, J. G., 1986, The Van Horn Mountains Caldera, Trans-Pecos Texas: Geology and Development of a Small (10-km²) Ash-Flow Caldera: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 151, 46 p.

Maxwell, R. A., 1962, Mineral Resources of South Texas: Region Served through the Port of Corpus Christi: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 43, 140 p.

Paige, S., 1912, Geologic Atlas of the United States, Llano-Burnet Folio, Texas. USGS Folio 183, 16 p.

Price, J. G., Henry, C. D., and Standen, A. R., 1983, Annotated Bibliography of Mineral Deposits in Trans-Pecos Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular No. 73, 108 p.

Price, J. G., Henry, C. D., Standen, A. R., and Posey, J. S., 1985, Origin of Silver-Copper-Lead Deposits in Red-Bed Sequences of Trans-Pecos Texas: Tertiary Mineralization in Precambrian, Permian, and Cretaceous Sandstones: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 145, 65 p.

Warren, L. E., 1942, The Occurrence of Manganese on the Ingram-Howe Ranch, with Notes on Other Areas along Pecos River, Val Verde County, Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Survey Circular MS0052, 4 p.

Niobium

Chauvenet, R., 1010, Franklin Mountains Tin Prospect. Mines and Minerals, volume 30, p. 529-531.

Price, J. G., Henry, C. D., and Standen, A. R., 1983, Annotated Bibliography of Mineral Deposits in Trans-Pecos Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular No. 73, 108 p.

Sharp, J.E., 1979, Cave Peak, a molybdenum-mineralized breccia pipe complex in Culberson County, Texas. Economic Geology, 74, p. 517-534.

Platinum Group Metals

None

Potash

Bureau of Economic Geology, 1928, Contributions to Geology, 1928: University of Texas, Austin, Bulletin 2801, 202 p.

Clabaugh, S. E., and Barnes, V. E., 1959, Vermiculite in Central Texas: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 40, 32 p.

Flawn, P. T., 1951, Pegmatites of the Van Horn Mountains, Texas: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 9, 30 p.

Meigs, C. C., Bassett, H. P. , and Slaughter, G. B., 1922, Report on Texas Alkali Lakes: University of Texas. Austin, Bureau of Economic Geology and Technology, Bulletin 2234, 59 p.

Udden, J. A., 1915, Potash in the Texas Permian: University of Texas, Austin, Bureau of Economic Geology and Technology, Bulletin 17, 59 p.

Rare Earth Elements

Barnes, V. E., Bell, W. C., Clabaugh, S. E., Cloud, P. E. Jr., McGehee, R. V., and Young, K. P., 1963, Field Excursion: Geology of Llano Region and Austin Area: The University of Texas at Austin, Bureau of Economic Geology, Guidebook No. 5, 77 p.

Barnes, V. E., Bell, W. C., Clabaugh, E. E., Cloud, P. E., Jr., McGehee, R. V., Rodda, P. U., and Young, K. P., 1973, Geology of the Llano Region and Austin Area: The University of Texas at Austin, Bureau of Economic Geology, Guidebook 13, 77 p.

Kyle, J. Richard, editor, 2000, Geology and Historical Mining, Llano Uplift Region, Central Texas: Austin Geological Society Guidebook 20, 111 p.

McGehee, R. V., 1979, Precambrian Rocks of the Southeastern Llano Region, Texas: The University of Texas at Austin, Bureau of Economic Geology, Geological Circular 79-3, 36 p.

Nash, J. P., 1917, Texas Granites: University of Texas, Austin, Bureau of Economic Geology and Technology, Bulletin 1725, 8 p.

Paige, S., 1912, Geologic Atlas of the United States, Llano-Burnet Folio, Texas. USGS Folio 183, 16 p.

Price, J. G., Henry, C. D., and Standen, A. R., 1983, Annotated Bibliography of Mineral Deposits in Trans-Pecos Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular No. 73, 108 p.

Rhenium

None

Rubidium

None

Scandium

None

Strontium

Bein, Amos, and Land, L. S., 1982, San Andres Carbonates in the Texas Panhandle: Sedimentation and Diagenesis Associated with Magnesium-Calcium-Chloride Brines: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 121, 48 p.

Evans, G. L., 1942, Strontium Minerals in Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Survey Circular MS0046, 20 p.

Fisher, R. S., and Posey, H. H., 1990, Deposition and Diagenesis in a Marine-to-Evaporite Sequence: Permian Upper Wolfcamp Formation and Lower Wichita Group, Palo Duro Basin, Texas Panhandle: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 195, 34 p.

Maxwell, R. A., 1962, Mineral Resources of South Texas: Region Served through the Port of Corpus Christi: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 43, 140 p.

Publication 4301: Texas Mineral Resources, 1943, Bureau of Economic Geology, The University of Texas at Austin, pp. 113-131

Tantalum

Chauvenet, R., 1910, Franklin Mountains Tin Prospect. Mines and Minerals, volume 30, p. 529-531.

Price, J. G., Henry, C. D., and Standen, A. R., 1983, Annotated Bibliography of Mineral Deposits in Trans-Pecos Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular No. 73, 108 p.

Tellurium

None

Tin

Chauvenet, R., 1010, Franklin Mountains Tin Prospect. Mines and Minerals, volume 30, p. 529-531.

McCammon, J. H., 1941, Report on Tin and Magnesite Deposits in Mason County, Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Survey Circular MS0032, 5 p.

Meyer, H.C., 1913, Topaz and Stream Tin in Mason County, Texas. Economic Mineral Journal, Volume 95 No. 10, p. 511-512.

Price, J. G., Henry, C. D., and Standen, A. R., 1983, Annotated Bibliography of Mineral Deposits in Trans-Pecos Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular No. 73, 108 p.

Titanium

Fisher, W.L., with contributions by Chelf, C.R., Shelby, C.A., Garner, L.E., Owen, D.E. and Schofield, D.A., 1965, Rock and Mineral Resources of East Texas: The University of Texas at Austin, Bureau of Economic Geology Report of Investigations No. 54, 439 p.

Paige, S., 1912, Geologic Atlas of the United States, Llano-Burnet Folio, Texas. USGS Folio 183, 16 p.

Price, J. G., Henry, C. D., and Standen, A. R., 1983, Annotated Bibliography of Mineral Deposits in Trans-Pecos Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular No. 73, 108 p.

Shelby, C. A., 1965, Heavy Minerals in the Wellborn Formation, Lee and Burleson Counties, Texas: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 55, 54 p.

Tungsten

Barnes, V. E., Parkinson, G. A., and Warren, L. E., 1942, Scheelite in Llano County, Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular No. 20, 1 p.
Chauvenet, R., 1010, Franklin Mountains Tin Prospect. Mines and Minerals, volume 30, p. 529-531.

Dietrich, J. W., and Lonsdale, J. T., 1957, Mineral Resources of the Colorado River Industrial Development Association Area: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 37, 84 p.

Mathis, R. W., 1942, Scheelite in Gillespie County, Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Survey Circular MS0056, 3 p.

Price, J. G., Henry, C. D., and Standen, A. R., 1983, Annotated Bibliography of Mineral Deposits in Trans-Pecos Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular No. 73, 108 p.

Sellards, E. H., and Udden, J. A., 1941, Tungsten and Tungsten Minerals: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular No. 17, 2 p.

Uranium

Bebout, D. G., Weise, B. R., Gregory, A. R., and Edwards, M. B., 1982, Wilcox Sandstone Reservoirs in the Deep Subsurface along the Texas Gulf Coast: Their Potential for Production of Geopressed Geothermal Energy: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 117, 125 p.

Cepeda, J. C., and Henry, C. D., 1983, Oligocene Volcanism and Multiple Caldera Formation in the Chinati Mountains, Presidio County, Texas: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 135, 32 p.

Cowdrey, J.L., 1968, Field Trip: South Texas Uranium. Published by the Corpus Christi Geological Society, 62 p.

Eargle, D. H., 1956, Some Uranium Occurrences in West Texas: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 27, 23 p.

Eargle, D. H., Hinds, G. W., and Weeks, A.M.D., 1971, Uranium Geology and Mines, South Texas: The University of Texas at Austin, Bureau of Economic Geology, Guidebook 12, 59 p.

Eargle, D., Pinkley, G. and deVergie, P., 1958, Eocene-Miocene Oil-Uranium of Falls City-Tordilla Hill and Fashing Areas. Published by the South Texas Geological Society, 71 p.

Eargle, D. H., and Snider, J. L., 1957, A Preliminary Report on the Stratigraphy of the Uranium-Bearing Rocks of the Karnes County Area, South-Central Texas: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 30, 30 p.

Faga, G. (Editor), 1975, Triple Energy Field Trip: Uranium, Coal, Gas – Duval, Webb & Zapata Counties, Texas. Published by the Corpus Christi Geological Society, 24 p.

Fisher, W. L., 1978, Texas Energy Reserves and Resources: The University of Texas at Austin, Bureau of Economic Geology, Geological Circular 78-5, 30 p..

Fisher, R. S., 1995, Naturally Occurring Radioactive Materials (NORM) in Produced Water and Scale from Texas Oil, Gas, and Geothermal Wells: The University of Texas at Austin, Bureau of Economic Geology, Geological Circular 95-3, 43 p.

Fisher, W. L., Proctor, C. V., Galloway, W. E., and Nagle, J. S., 1970, Depositional Systems in the Jackson Group of Texas: Their Relationship to Oil, Gas, and Uranium: The University of Texas at Austin, Bureau of Economic Geology, Geological Circular 70-4, 28 p.

Flawn, P. T., 1967, Uranium in Texas: 1967: The University of Texas at Austin, Bureau of Economic Geology, Geological Circular 67-1, 16 p.

Flawn, P.T. and Anderson, G.H, 1955, Prospecting for Uranium in Texas. Issued in cooperation with the General Land Office, 24 p.

Folk, R. L., Hayes, M. O., Brown, T. E., Eargle, D. H., Weeks, A. D., Barnes, V. E., and Clabaugh, S. E., 1961, Field Excursion, Central Texas: Bentonites, Uranium-Bearing Rocks, Vermiculites: The University of Texas at Austin, Bureau of Economic Geology, Guidebook No. 3, 53 p.

Galloway, W. E., 1977, Catahoula Formation of the Texas Coastal Plain: Depositional Systems, Composition, Structural Development, Ground-Water Flow History, and Uranium Distribution: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 87, 59 p.

Galloway, W. E., 1982, Epigenetic Zonation and Fluid Flow History of Uranium-Bearing Fluvial Aquifer Systems, South Texas Uranium Province: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 119, 31 p.

Galloway, W. E., Finley, R. J., and Henry, C. D., 1979, South Texas Uranium Province, Geologic Perspective: The University of Texas at Austin, Bureau of Economic Geology, Guidebook 18, 81 p.

Galloway, W. E., and Kaiser, W. R., 1980, Catahoula Formation of the Texas Coastal Plain: Origin, Geochemical Evolution, and Characteristics of Uranium Deposit: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 100, 81 p.

Galloway, W. E., Kreitler, C. W., and McGowen, J. H., 1979, Depositional and Ground-Water Flow Systems in the Exploration for Uranium: The University of Texas at Austin, Bureau of Economic Geology, EM0003, 267 p.

Galloway, W. E., Henry, C. D., and Smith, G. E., 1982, Depositional Framework, Hydrostratigraphy, and Uranium Mineralization of the Oakville Sandstone (Miocene), Texas Coastal Plain: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 113, 51 p.

Hamlin, H. S., 1988, Depositional and Ground-Water Flow Systems of the Carrizo-Upper Wilcox, South Texas: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 175, 61 p.

Henry, C., Galloway, W. E., and Smith, G. E., 1982, Considerations in the Extraction of Uranium from a Fresh-Water Aquifer: Miocene Oakville Sandstone, South Texas: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 126, 36 p.

Henry, C. D., Galloway, W. E., Smith, G. E., Ho, C. L., Morton, J. P., and Gluck, J. K., 1982, Geochemistry of Ground Water in the Miocene Oakville Sandstone--A Major Aquifer and Uranium Host of the Texas Coastal Plain: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 118, 63 p.

Henry, C. D., and Kapadia, R. R., 1980, Trace Elements in Soils of the South Texas Uranium District: Concentrations, Origin, and Environmental Significance: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 101, 52 p.

Henry, C. D., and Muehlberger, W. R., editors, 1996, Geology of the Solitario Dome, Trans-Pecos Texas: Paleozoic, Mesozoic, and Cenozoic Sedimentation, Tectonism, and Magmatism: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 240, 182 p.

Henry, C. D., Price, J. G., Duex, T. W., and James, E. W., 1992, Geology of the Infiernito Caldera and Magmatic Evolution of the Chinati Mountains, Trans-Pecos Texas: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 206, 56 p.

Maxwell, R. A., 1962, Mineral Resources of South Texas: Region Served through the Port of Corpus Christi: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 43, 140 p.

McGowen, J. H., Granata, G. E., and Seni, S. J., 1979, Depositional Framework of the Lower Dockum Group (Triassic), Texas Panhandle: The University of Texas at Austin, Bureau of Economic Geology, report of Investigations No. 97, 60 p.

Price, J. G., Henry, C. D., and Standen, A. R., 1983, Annotated Bibliography of Mineral Deposits in Trans-Pecos Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular No. 73, 108 p.

Smith, G. E., Galloway, W. E., and Henry, C. D., 1982, Regional Hydrodynamics and Hydrochemistry of the Uranium-Bearing Oakville Aquifer (Miocene) of South Texas: The University of Texas at Austin, Bureau of Economic Geology Report of Investigations No. 124, 31 p.

Tewalt, S. J., 1986, Chemical Characterization of Texas Lignite: The University of Texas at Austin, Bureau of Economic Geology, Geological Circular 86-1, 54 p.

Weinzapfel, A., 1981, Guidebook: Texas Uranium Belt. Published by the South Texas Geological Society, 16 p.

White, W. A., and Galloway, W. E., 1977, Guide to Modern Barrier Environments of Mustang and North Padre Islands and Jackson (Eocene) Barrier/Lagoon Facies of the South Texas Uranium District: The University of Texas at Austin, Bureau of Economic Geology, Research Note 7, 51 p.

Vanadium

Tewalt, S. J., 1986, Chemical Characterization of Texas Lignite: The University of Texas at Austin, Bureau of Economic Geology, Geological Circular 86-1, 54 p.

Zirconium

Paige, S., 1912, Geologic Atlas of the United States, Llano-Burnet Folio, Texas. USGS Folio 183, 16 p.

Shelby, C. A., 1965, Heavy Minerals in the Wellborn Formation, Lee and Burleson Counties, Texas: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 55, 54 p.

2. Database Development

Aluminum

Commodity	Site Name	Latitude	Longitude	Citation
Kaolin	White Mountain Prospect	30.01327	-104.163	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Kaolin	Burkett Pit	32.22461	-94.7022	TEXAS BUREAU OF ECONOMIC GEOLOGY, 1991, NONPETROLEUM MINERAL PRODUCERS IN TEXAS.
Kaolin	Kosse Bulk & Bag Plant	31.30659	-96.6225	TEXAS BUREAU OF ECONOMIC GEOLOGY, 1991, NONPETROLEUM MINERAL PRODUCERS IN TEXAS.
Kaolin	Henderson Clay Products Anderson	32.21047	-94.846	FISHER, W.L., WITH CONTRIBUTIONS BY CHELF, C.R., SHELBY, C.A., GARNER, L.E., OWEN, D.E. AND SCHOFIELD, D.A., 1965, ROCK AND MINERAL RESOURCES OF EAST TEXAS: THE UNIVERSITY OF TEXAS AT AUSTIN, BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATIONS NO. 54, 439 P.
Kaolin	Henderson Clay Products Burkett Pit	32.22457	-94.7021	FISHER, W.L., WITH CONTRIBUTIONS BY CHELF, C.R., SHELBY, C.A., GARNER, L.E., OWEN, D.E. AND SCHOFIELD, D.A., 1965, ROCK AND MINERAL RESOURCES OF EAST TEXAS: THE UNIVERSITY OF TEXAS AT AUSTIN, BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATIONS NO. 54, 439 P.
Kaolin	Henderson Clay Products Pit	32.18957	-94.7927	FISHER, W.L., WITH CONTRIBUTIONS BY CHELF, C.R., SHELBY, C.A., GARNER, L.E., OWEN, D.E. AND SCHOFIELD, D.A., 1965, ROCK AND MINERAL RESOURCES OF EAST TEXAS: THE UNIVERSITY OF TEXAS AT AUSTIN, BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATIONS NO. 54, 439 P.
Kaolin	Teague Pit	31.52849	-96.3506	FISHER, W.L., WITH CONTRIBUTIONS BY CHELF, C.R., SHELBY, C.A., GARNER, L.E., OWEN, D.E. AND SCHOFIELD, D.A., 1965, ROCK AND MINERAL RESOURCES OF EAST TEXAS: THE UNIVERSITY OF TEXAS AT AUSTIN, BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATIONS NO. 54, 439 P.
Kaolin	Henderson Clay Products Plant	32.18077	-94.8055	FISHER, W.L., WITH CONTRIBUTIONS BY CHELF, C.R., SHELBY, C.A., GARNER, L.E., OWEN, D.E. AND SCHOFIELD, D.A., 1965, ROCK AND MINERAL RESOURCES OF EAST TEXAS: THE UNIVERSITY OF TEXAS AT AUSTIN, BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATIONS NO. 54, 439 P.
Kaolin	Henderson Clay Products Plastic Pit	32.20657	-94.7802	FISHER, W.L., WITH CONTRIBUTIONS BY CHELF, C.R., SHELBY, C.A., GARNER, L.E., OWEN, D.E. AND SCHOFIELD, D.A., 1965, ROCK AND MINERAL RESOURCES OF EAST TEXAS: THE UNIVERSITY OF TEXAS AT AUSTIN, BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATIONS NO. 54, 439 P.
Kaolin	Henderson Clay Products Wylie Pit	32.13908	-94.7733	FISHER, W.L., WITH CONTRIBUTIONS BY CHELF, C.R., SHELBY, C.A., GARNER, L.E., OWEN, D.E. AND SCHOFIELD, D.A., 1965, ROCK AND MINERAL RESOURCES OF EAST TEXAS: THE UNIVERSITY OF TEXAS

				AT AUSTIN, BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATIONS NO. 54, 439 P.
Kaolin	Plastic Pits	32.20656	-94.7802	TEXAS BUREAU OF ECONOMIC GEOLOGY, 1991, NONPETROLEUM MINERAL PRODUCERS IN TEXAS.
Kaolin	Universal Atlas Pit	31.2919	-96.5142	FISHER, W.L., WITH CONTRIBUTIONS BY CHELF, C.R., SHELBY, C.A., GARNER, L.E., OWEN, D.E. AND SCHOFIELD, D.A., 1965, ROCK AND MINERAL RESOURCES OF EAST TEXAS: THE UNIVERSITY OF TEXAS AT AUSTIN, BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATIONS NO. 54, 439 P.
Kaolin	Henderson Clay Products Lewis Pit	32.21517	-94.7046	FISHER, W.L., WITH CONTRIBUTIONS BY CHELF, C.R., SHELBY, C.A., GARNER, L.E., OWEN, D.E. AND SCHOFIELD, D.A., 1965, ROCK AND MINERAL RESOURCES OF EAST TEXAS: THE UNIVERSITY OF TEXAS AT AUSTIN, BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATIONS NO. 54, 439 P.
Kaolin	General Portland Clay Pit	31.2919	-96.5142	FISHER, W.L., WITH CONTRIBUTIONS BY CHELF, C.R., SHELBY, C.A., GARNER, L.E., OWEN, D.E. AND SCHOFIELD, D.A., 1965, ROCK AND MINERAL RESOURCES OF EAST TEXAS: THE UNIVERSITY OF TEXAS AT AUSTIN, BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATIONS NO. 54, 439 P.
Kaolin	Unnamed Pit	32.18961	-94.7927	TEXAS BUREAU OF ECONOMIC GEOLOGY, 1991, NONPETROLEUM MINERAL PRODUCERS IN TEXAS.
Kaolin	Troup Pit	32.10157	-95.0611	TEXAS BUREAU OF ECONOMIC GEOLOGY, 1991, NONPETROLEUM MINERAL PRODUCERS IN TEXAS.
Kaolin	Unnamed Pit	31.31241	-96.5064	TEXAS BUREAU OF ECONOMIC GEOLOGY, 1991, NONPETROLEUM MINERAL PRODUCERS IN TEXAS.
Kaolin	Waters Pits	32.39266	-98.9517	TEXAS BUREAU OF ECONOMIC GEOLOGY, 1991, NONPETROLEUM MINERAL PRODUCERS IN TEXAS.
Kaolin	Unnamed Pit	32.18073	-94.8055	TEXAS BUREAU OF ECONOMIC GEOLOGY, 1991, NONPETROLEUM MINERAL PRODUCERS IN TEXAS.
Kaolin	Lewis Pit	32.21517	-94.703	TEXAS BUREAU OF ECONOMIC GEOLOGY, 1991, NONPETROLEUM MINERAL PRODUCERS IN TEXAS.
Kaolin	Anderson Pit	32.21045	-94.8461	TEXAS BUREAU OF ECONOMIC GEOLOGY, 1991, NONPETROLEUM MINERAL PRODUCERS IN TEXAS.
Kaolin	Wylie Pit	32.13907	-94.7733	TEXAS BUREAU OF ECONOMIC GEOLOGY, 1991, NONPETROLEUM MINERAL PRODUCERS IN TEXAS.
Kaolin	Unnamed Pit	31.29187	-96.5142	TEXAS BUREAU OF ECONOMIC GEOLOGY, 1991, NONPETROLEUM MINERAL PRODUCERS IN TEXAS.
Kaolin	Medley (White Mtn) Mine	30.5577	-104.163	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Kaolin	Mueller Mine	30.5132	-104.165	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Aluminum	Round Top Prospect	31.276	-105.474	HULSE, D.E., MALHOTRA, D., MATTHEWS, T. AND EMANUEL, C., 2019, NI 43-101 PRELIMINARY ECONOMIC ASSESSMENT ROUND TOP PROJECT, SIERRA BLANCA, TEXAS. REPORT PREPARED FOR USA RARE EARTH LLC AND TEXAS MINERAL RESOURCE CORP, 230 P.

Antimony

Commodity	Site Name	Latitude	Longitude	Citation
Antimony	Hazel Mine	31.170775	-104.900354	REPORT OF INVESTIGATION 16: THE HAZEL, COPPER-SILVER MINE, CULBERSON COUNTY, TEXAS, 1956, BY PETER T. FLAWN, 23 P.

Arsenic

Commodity	Site Name	Latitude	Longitude	Citation
Arsenic	Hazel Mine	31.170775	-104.900354	REPORT OF INVESTIGATION 16: THE HAZEL, COPPER-SILVER MINE, CULBERSON COUNTY, TEXAS, 1956, BY PETER T. FLAWN, 23 P.

Barite

Commodity	Site Name	Latitude	Longitude	Citation
Barite	Chromalloy American Corp	29.79464	-95.4296	UNKNOWN
Barite	Brownsville Mill	25.95616	-97.405	UNKNOWN
Barite	Howard Draw Barite Prospect	30.16691	-101.374	UNKNOWN
Barite	Corpus Christi Mill	27.8189	-97.42	N L INDUSTRIES INC., 1973.
Barite	Houston Barite Plant	29.77744	-95.2799	UNKNOWN
Barite	Mills Ranch Barite Prospect	29.79134	-95.293	UNKNOWN
Barite	Houston Barite Plant	30.21965	-95.1392	UNKNOWN
Barite	Hackberry Creek Prospect	29.30026	-94.8002	MAXWELL, R.A., 1962, MINERAL RESOURCES OF SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATION 43, P. 12-13.
Barite	Galveston Plant	25.95096	-97.4506	UNKNOWN
Barite	Brownsville Minerals Plant	29.75634	-95.3994	UNKNOWN
Barite	Plant No. 2	29.82664	-95.1183	UNKNOWN
Barite	Wallisville Road Barite Plant	29.30106	-94.8019	IMCO SERVICES, 1973.
Barite	Milchem Grinding Plant	28.05585	-99.6704	MILCHEM INC.
Barite	Galvan Ranch Barite	29.73244	-95.2502	INDUSTRIAL MINERALS, 1991, WORLD OF MINERALS: NO. 280, P. 10.
Barite	Galena Park Mill	30.12521	-95.2407	UNKNOWN
Barite	Lockhausen Prospect	30.72297	-103.109	BARTLESVILLE CARD FILES
Barite	Mayfield Prospect	30.16461	-101.553	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Barite	Howard Draw Mine	30.44743	-98.612	MAXWELL, R.A., 1962, MINERAL RESOURCES OF SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATION 43, P. 12-13.
Barite	Davis Ranch Prospect	30.16152	-101.571	BARNES, V.E., 1939, ADDITIONAL NOTES ON BARITE: TX BEG MRC-11, 4 P.
Barite	Mills Ranch Mine	31.25517	-104.488	MAXWELL, R.A., 1962, MINERAL RESOURCES OF SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATION 43, P. 12-13.
Barite	Seven Heart Gap Mine	31.25517	-104.488	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Barite	Hazel Mine	31.17078	-104.9	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Barite	Pena Blanca Springs	30.125	-103.118	KYLE, J. R., 1994, BARITE INDUSTRY AND RESOURCES OF TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 85, 86 P.
Barite	Hockley salt dome	29.937	-95.835	KYLE, J. R., 1994, BARITE INDUSTRY AND RESOURCES OF TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 85, 86 P.

Additional Sources being evaluated:

Bulletin 3401: The Geology of Texas, Volume II, Structural and Economic Geology [exclusive of petroleum], by E.H. Sellards, C.L. Baker and others, originally printed in 1934, Bureau of Economic Geology, University of Texas at Austin pp. 403-409

Publication 4301: Texas Mineral Resources, 1943, Bureau of Economic Geology, The University of Texas at Austin, pp. 105-111

Mineral Resource Circular 11: Barnes, V. E., 1936, Report on Asphalt Deposits in Burnet County: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Survey Circular MS0011, 3 p.

Mineral Resource Circular 35: Zapp, A., 1941, Barite in Northern Llano County: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Survey Circular MS0035, 4 p.

Bulletin 1814: Schoch, E. P., 1918, Chemical Analyses of Texas Rocks and Minerals: University of Texas, Austin, Bureau of Economic Geology and Technology, Bulletin 1814, 256 p.

Publication 4824: Weissenborn, A. E., and Stenzel, H. B., 1948, Geological Resources of the Trinity River Tributary Area in Oklahoma and Texas: University of Texas, Austin, Publication 4824, 252 p.

Publication 5301: King, P. B., and Flawn, P. T., 1953, Geology and Mineral Deposits of Pre-Cambrian Rocks of the Van Horn Area, Texas: University of Texas, Austin, Bureau of Economic Geology, Publication No. 5301, 218 p.

Report of Investigation 16: The Hazel, Copper-Silver Mine, Culberson County, Texas, 1956, by Peter T. Flawn, 23 p.

Beryllium

Commodity	Site Name	Latitude	Longitude	Citation
Beryllium	Unnamed Occurrence	31.99682	-105.509	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Beryllium	Sierra Blanca Prospect	31.28327	-105.433	CROCKER, LAIRD ET AL., 1963, RECOVERY OF BERYLLIUM FROM SPOR MOUNTAIN, UTAH, ORE BY SOLVENT EXTRACTION AND CAUSTIC STRIPPING. BUREAU OF MINES REPORT OF INVESTIGATION 6173, 27 P.
Beryllium	North Sierra Blanca Prospect	31.25961	-105.441	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Beryllium	Baringer Hill Mine	30.77799	-98.4331	PAIGE, S., 1912, GEOLOGIC ATLAS OF THE UNITED STATES, LLANO-BURNES FOLIO, TEXAS: USGS FOLIO 183, 16 P.
Beryllium	Round Top Prospects	31.28267	-105.475	HULSE, D.E., MALHOTRA, D., MATTHEWS, T. AND EMANUEL, C., 2019, NI 43-101 PRELIMINARY ECONOMIC ASSESSMENT ROUND TOP PROJECT, SIERRA BLANCA, TEXAS. REPORT PREPARED FOR USA RARE EARTH LLC AND TEXAS MINERAL RESOURCE CORP, 230 P.
Beryllium	Tremble Hill Prospect	31.17073	-105.469	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Beryllium	Little Round Top Prospects	31.28489	-105.46	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Beryllium	Little Blanca Mountain Prospects	31.28767	-105.452	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Beryllium	Granite Hill Prospect	31.11128	-105.446	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Beryllium	South Sierra Blanca Prospect	31.236	-105.43	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.

Bismuth

Commodity	Site Name	Latitude	Longitude	Citation
-----------	-----------	----------	-----------	----------

Bismuth	Kiam Prospect	30.6351	-98.5353	STENZEL, H. B., 1939, A BISMUTH-MOLYBDENUM PROSPECT (KIAM PROSPECT) OF LLANO COUNTY, TEXAS: CONTRIBUTIONS TO GEOLOGY, THE UNIVERSITY OF TEXAS PUBLICATION NO. 3945
---------	---------------	---------	----------	--

Cesium

Commodity	Site Name	Latitude	Longitude	Citation
Cesium	Round Top Prospect	31.276	-105.474	O'NEILL, L.C., ELLIOTT, B.A., AND KYLE, J.R., 2017, MINERALOGY AND CRYSTALLIZATION HISTORY OF HIGHLY DIFFERENTIATED REE-ENRICHED HYAPBYSSAL RHYOLITE: ROUND TOP LACCOLITH, TRANS-PECOS, TEXAS. MINERALOGY AND PETROLOGY, V.111, NO.4, P.569-592, HTTP://DOI.ORG/10.1007/S00710-017-0511-5 .
Cesium	Little Round Top Prospect	31.285	-105.463	O'NEILL, L.C., ELLIOTT, B.A., AND KYLE, J.R., 2017, MINERALOGY AND CRYSTALLIZATION HISTORY OF HIGHLY DIFFERENTIATED REE-ENRICHED HYAPBYSSAL RHYOLITE: ROUND TOP LACCOLITH, TRANS-PECOS, TEXAS. MINERALOGY AND PETROLOGY, V.111, NO.4, P.569-592, HTTP://DOI.ORG/10.1007/S00710-017-0511-5 .

Chromium

None

Cobalt

None

Fluorspar

Commodity	Site Name	Latitude	Longitude	Citation
Fluorspar	Unnamed Occurrence	29.39079	-103.682	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Unnamed Prospect	29.51162	-103.501	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Unnamed Occurrences	29.3419	-103.682	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Unnamed Occurrence	29.45495	-103.459	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Rocky Ridge Prospects	30.90518	-105.106	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Unnamed Occurrence	29.37384	-103.682	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Spar Valley Prospect	30.93824	-105.048	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Unnamed Prospect	29.49273	-103.459	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Gibbs Prospect	30.77491	-98.2984	BUREAU OF MINES-WMM-GIBBS FLOURITE DEPOSIT, BY A.B.NEEDHAM, APRIL, 1943. SUMMARY REPORT OF WAR

				MINERAL EXAMINATION-GIBBS FLOURSPAR, BY W.D. MCMILLAN, MAR. 1976, UNIVERSITY OF TEXAS M.R.C. NO. 27.
Fluorspar	Brownsville Mill	25.89757	-97.5028	UNKNOWN
Fluorspar	Eagle Pass Fluorspar Mill	28.66916	-100.503	UNKNOWN
Fluorspar	Marathon Plant	30.20411	-103.241	UNKNOWN
Fluorspar	Bailey Prospect	30.891	-98.3997	UNKNOWN
Fluorspar	Unnamed Occurrences	29.21413	-97.5031	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	North Sierra Blanca Prospect	31.25961	-105.441	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Lucky Strike Mine	30.95158	-105.053	UNKNOWN
Fluorspar	Eagle Mountains Fluorspar District	30.93351	-105.098	DENNIS, W.E., 1946, EXPLORATION OF EAGLE MOUNTAIN FLUORSPAR DEPOSITS, HUDSPETH COUNTY, TEXAS: U.S. BU MINES REP. INV. 3878, 11 P.
Fluorspar	Fox 9, 10, and 12 Prospects	30.90157	-105.103	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Baringer Hill Mine	30.77799	-98.4331	PAIGE, S., 1912, GEOLOGIC ATLAS OF THE UNITED STATES, LLANO-BURNES FOLIO, TEXAS: USGS FOLIO 183, 16 P.
Fluorspar	Corazones Peaks District	29.46667	-103.419	MCANULTY, W. N., SR., 1967, FLUORSPAR IN BREWSTER COUNTY, TEXAS: UNIV. TEXAS BUR. ECON. GEOL. GEOL. CIRC. 67-2, P. 16.
Fluorspar	Paisano Mine	29.46693	-103.459	DAUGHERTY, FRANK W., 1982, FLUORSPAR DEPOSITS OF CHRISTMAS MOUNTAINS DISTRICT, BREWSTER COUNTY, TEXAS (PROCEEDINGS OF THE 17TH ANNUAL FORUM ON THE GEOLOGY OF INDUSTRIAL MINERALS, MAY 13-15, 1981, ALBUQUERQUE, NM
Fluorspar	Rock House Area Prospects	29.90854	-104.513	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Rocky Ridge Prospect	30.90518	-105.106	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Fluorite Prospect	30.77438	-98.3031	PAIGE, S., 1912, GEOLOGIC ATLAS OF THE UNITED STATES, LLANO-BURNET FOLIO, TEXAS: USGS FOLIO 183, 12P.
Fluorspar	Paisano Mine	29.46079	-103.459	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Piedra Azul Prospect	29.44717	-103.435	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Unnamed Occurrence	31.98376	-105.509	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Round Top Prospects	31.28267	-105.474	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Cowan Ranch Prospect	31.12045	-105.494	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN

				TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Spring Creek Prospect	30.77799	-98.292	PAIGE, S., 1912, GEOLOGIC ATLAS OF THE UNITED STATES, LLANO-BURNET FOLIO, TEXAS: USGS FOLIO 183, 12P.
Fluorspar	White Eagle Prospect	30.76743	-98.2998	PAIGE, S., 1912, GEOLOGIC ATLAS OF THE UNITED STATES, LLANO-BURNET FOLIO, TEXAS: USGS FOLIO 183, 12P.
Fluorspar	Little Round Top Prospects	31.28489	-105.46	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Unnamed Prospects	29.4944	-103.459	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Section 27 Prospect	30.95324	-105.064	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Tank Canyon Prospects	30.92824	-105.054	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Fluorspar Prospect	29.90771	-104.505	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Burney Mine	29.90104	-104.512	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Spar Valley Area Prospect	30.93828	-105.048	UNKNOWN
Fluorspar	Unnamed Occurrences	29.30884	-103.682	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Unnamed Occurrences	29.34384	-103.682	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Fox 1, Fox 3, and Cooper 2 Prospects	30.90435	-105.068	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Section 45 Prospect	30.90046	-105.096	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Unnamed Prospect	29.47912	-103.459	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Little Blanca Mountain Prospects	31.28767	-105.452	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Unnamed Occurrence	29.43412	-103.459	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Fox 4 and Oak Prospects	30.91074	-105.039	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.

Fluorspar	Divide Prospect	30.90407	-105.083	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Spar Valley Rhyolite Vein Mine	30.94157	-105.047	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Fluorite Prospect	30.7716	-98.3003	MAXWELL, R.A., 1962, MINERAL RESOURCES OF SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATION 43.
Fluorspar	Syphon Canyon Prospects	30.92351	-105.047	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Hillside Prospect	29.90577	-104.503	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Unnamed Occurrences	29.00469	-97.9081	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Spar Valley Shaft No. 4 Mine	30.93379	-105.051	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	South Sierra Blanca Prospect	31.236	-105.43	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Oglebay Norton Fluorspar Plant	25.93037	-97.455	UNKNOWN
Fluorspar	Ingram Prospect	30.89712	-105.053	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Unnamed Occurrence	29.42134	-103.459	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Unnamed Prospect	29.69633	-102.961	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Unnamed Prospects	29.49106	-103.459	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Lucky Strike Prospect	30.94657	-105.053	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Burney Mine	29.90083	-104.512	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Paisano Mine	29.46079	-103.461	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Spar Valley Mine North and South Orebodies	30.93824	-105.048	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.

Fluorspar	Eagle Spring Mine	30.99601	-105.098	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Fluorspar	Rock Ridge Prospects	30.905	-105.106	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.

Additional Sources being evaluated:

Bulletin 3401: The Geology of Texas, Volume II, Structural and Economic Geology [exclusive of petroleum], by E.H. Sellards, C.L. Baker and others, originally printed in 1934, Bureau of Economic Geology, University of Texas at Austin 884 p.

Mineral Resource Circular 27: Sedlmayer, J. J., 1939, Report on the Mineral Resources of Fayette County, Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Survey Circular MS0027, 2 p.

Publication 4301: Texas Mineral Resources, 1943, Bureau of Economic Geology, The University of Texas at Austin, pp. 227-238

Gallium

Commodity	Site Name	Latitude	Longitude	Citation
Gallium	Round Top Prospects	31.28267	-105.474	HULSE, D.E., MALHOTRA, D., MATTHEWS, T. AND EMANUEL, C., 2019, NI 43-101 PRELIMINARY ECONOMIC ASSESSMENT ROUND TOP PROJECT, SIERRA BLANCA, TEXAS. REPORT PREPARED FOR USA RARE EARTH LLC AND TEXAS MINERAL RESOURCE CORP, 230 P.
Gallium	Little Round Top Prospect	31.285	-105.463	O'NEILL, L.C., ELLIOTT, B.A., AND KYLE, J.R., 2017, MINERALOGY AND CRYSTALLIZATION HISTORY OF HIGHLY DIFFERENTIATED REE-ENRICHED HYABYSSAL RHYOLITE: ROUND TOP LACCOLITH, TRANS-PECOS, TEXAS. MINERALOGY AND PETROLOGY, V.111, NO.4, P.569-592, HTTP://DOI.ORG/10.1007/S00710-017-0511-5 .

Germanium

None

Graphite

Commodity	Site Name	Latitude	Longitude	Citation
Graphite	Watson Prospect	30.8574	-98.2636	BARTLESVILLE CARD FILES
Graphite	Southwestern Graphite Mine	30.78551	-98.3561	U.S. BUREAU OF MINES, AUGUST 1976, PRELIMINARY FEASIBILITY ESTIMATES OF PROPOSED ALABAMA AND CANADIAN CRYSTALLINE GRAPHITE PROJECTS RELATED TO THE U.S. MARKET
Graphite	Graphite Mine	30.78409	-98.5737	CHELF, C., 1943, GRAPHITE IN LLANO COUNTY, TEXAS: TX BEG MRC-57, 10 P.
Graphite	Graphilter Corp Pit and Plant	30.72241	-98.6806	GRAPHITIC SCHIST OF PRECAMBRIAN PACKSADDLE SCHIST
Graphite	Garret Prospect	30.7935	-98.3295	UNIVERSITY OF TEXAS, BUREAU OF ECON. GEOLOGY-M.R.C. NO. 15, ADDITIONAL NOTES ON GRAPHITE IN TEXAS, V.E. BARNES, JULY1940
Graphite	Burnet-Llano District	30.78491	-98.3578	CAMERON, E.N. AND WEIS, P.L., 1960: STRATEGIC GRAPHITE - A SURVEY: U.S. GEOLOGICAL SURVEY BULL. 1082-E, P.201-321.
Graphite	Debo Prospect	30.7952	-98.3009	BUREAU OF MINES REPORT-DEBO GRAPHITE DEPOSITS, BURNETT CO., TX., BY A.B. NEEDHAM, APRIL 1943
Graphite	Texas Graphite Mine	30.72299	-98.6795	CHELF, C., 1943, GRAPHITE IN LLANO COUNTY, TEXAS: TX BEG MRC-57, 10 P.
Graphite	Graphite Prospect	30.79937	-98.3273	MAXWELL, R.A., 1962, MINERAL RESOURCES OF SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY REPT. INVEST. 43, P.

Graphite	Southwestern Graphite Mine	30.78382	-98.3576	UNIVERSITY OF TEXAS PUBLICATION 3401, V. 2, P. 260-261.
Graphite	Dixie Graphite Mine	30.79048	-98.6109	CHELF, C., 1943, GRAPHITE IN LLANO COUNTY, TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY PUBLICATION MRSC-57, 19P.
Graphite	Packsaddle Mountain Prospect	30.62521	-98.5081	DIETRICH, J.W. AND LONSDALE, J.T., 1958, MINERAL RESOURCES OF THE COLORADO RIVER INDUSTRIAL DEVELOPMENT ASSOCIATION AREA, BUREAU OF ECONOMIC GEOLOGY, UNIVERSITY OF TEXAS AT AUSTIN, REPOST OF INVESTIGATION NO. 37, 83 P.
Graphite	Llano Graphite District	30.78382	-98.35755	ANONYMOUS PRODUCTION AMOUNT IN BEG FILES ****

Additional Sources being evaluated:

Bulletin 44: Udden, J. A., Baker, C. L., and Böse, Emil, 1916, Review of the Geology of Texas: University of Texas, Austin, Bureau of Economic Geology and Technology, Bulletin 44, 167 p.

Bulletin 1814: Schoch, E. P., 1918, Chemical Analyses of Texas Rocks and Minerals: University of Texas, Austin, Bureau of Economic Geology and Technology, Bulletin 1814, 256 p.

Bulletin 3232: The Geology of Texas, Volume I, Stratigraphy, by E.H. Sellards, W.S., Adkins, and E.B., Plummer, originally printed in 1933 with second printing in 1947, seventh printing in 1978, Bureau of Economic Geology, University of Texas at Austin

Bulletin 3401: The Geology of Texas, Volume II, Structural and Economic Geology [exclusive of petroleum], by E.H. Sellards, C.L. Baker and others, originally printed in 1934, Bureau of Economic Geology, University of Texas at Austin, pp. 258-262

Mineral Resource Circular 1: Bureau of Economic Geology, The University of Texas at Austin, 1936, Mineral Resource Survey of Texas Circular MS0001, 1 p.

Mineral Resource Circular 15: Ramsey, G. D., 1936, Report on Clay Deposits in Grimes County: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Survey Circular MS0015, 3 p.

Mineral Resource Circular 57: Chelf, C. R., 1943, Graphite in Llano County, Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Survey Circular MS0057, 10 p.

Publication 3401: Baker, C.L., 1935, Geology of Texas, v. 2, Part 3: University of Texas Bulletin 3401, pp. 260-261.

Publication 4246: Barnes, V. E., Dawson, R. F., and Parkinson, G. A., 1942, Building Stones of Central Texas: University of Texas, Austin, Bureau of Economic Geology and Technology, Publication 4246, 198 p.

Publication 4329: Plummer, F. B., 1950, The Carboniferous Rocks of the Llano Region of Central Texas: The University of Texas at Austin, Bureau of Economic Geology, Publication 4329, 170 p.

Hafnium

Commodity	Site Name	Latitude	Longitude	Citation
Hafnium	Round Top Prospect	31.276	-105.474	HULSE, D.E., MALHOTRA, D., MATTHEWS, T. AND EMANUEL, C., 2019, NI 43-101 PRELIMINARY ECONOMIC ASSESSMENT ROUND TOP PROJECT, SIERRA BLANCA, TEXAS. REPORT PREPARED FOR USA RARE EARTH LLC AND TEXAS MINERAL RESOURCE CORP, 230 P.
Hafnium	Little Round Top Prospect	31.285	-105.463	O'NEILL, L.C., ELLIOTT, B.A., AND KYLE, J.R., 2017, MINERALOGY AND CRYSTALLIZATION HISTORY OF HIGHLY DIFFERENTIATED REE-ENRICHED HYALOPHYSSAL RHYOLITE: ROUND TOP LACCOLITH, TRANSPecos, TEXAS. MINERALOGY AND PETROLOGY, V.111, NO.4, P.569-592, HTTP://DOI.ORG/10.1007/S00710-017-0511-5 .

Helium

Commodity	Site Name	Latitude	Longitude	Citation
Helium	Hugoton	36.44871	-101.4218	UNKNOWN
Helium	Cliffside	35.3525	-101.9919	UNKNOWN
Helium	Panhandle	35.95318	-101.9077	UNKNOWN
Helium	Petrolia	34.0181515	98.204766	UNKNOWN

Indium

None

Lithium

Commodity	Site Name	Latitude	Longitude	Citation
Lithium	Smackover Formation	32.826466	-95.109178	U.S. GEOLOGICAL SURVEY NATIONAL PRODUCED WATERS GEOCHEMICAL DATABASE
Lithium	Austin Chalk Formation	28.971552	-97.791175	U.S. GEOLOGICAL SURVEY NATIONAL PRODUCED WATERS GEOCHEMICAL DATABASE
Lithium	Eagle Ford Formation	28.971552	-97.791175	U.S. GEOLOGICAL SURVEY NATIONAL PRODUCED WATERS GEOCHEMICAL DATABASE
Lithium	Granite Wash Formation	35.853605	-100.623074	U.S. GEOLOGICAL SURVEY NATIONAL PRODUCED WATERS GEOCHEMICAL DATABASE
Lithium	Round Top Prospect	31.276	-105.474	HULSE, D.E., MALHOTRA, D., MATTHEWS, T. AND EMANUEL, C., 2019, NI 43-101 PRELIMINARY ECONOMIC ASSESSMENT ROUND TOP PROJECT, SIERRA BLANCA, TEXAS. REPORT PREPARED FOR USA RARE EARTH LLC AND TEXAS MINERAL RESOURCE CORP, 230 P.
Lithium	Little Round Top Prospect	31.285	-105.463	O'NEILL, L.C., ELLIOTT, B.A., AND KYLE, J.R., 2017, MINERALOGY AND CRYSTALLIZATION HISTORY OF HIGHLY DIFFERENTIATED REE-ENRICHED HYAPBYSSAL RHYOLITE: ROUND TOP LACCOLITH, TRANS-PECOS, TEXAS. MINERALOGY AND PETROLOGY, V.111, NO.4, P.569-592, HTTP://DOI.ORG/10.1007/S00710-017-0511-5 .

Additional Sources being evaluated:

Recent analyses have been conducted from oil and gas basins across the state. This data will be added when permission for release of information is granted identified where elevated lithium concentrations are appropriate.

Magnesium

Commodity	Site Name	Latitude	Longitude	Citation
Magnesium	Marble Canyon Mine	31.43194	-104.8939	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Magnesium	Gulf Coast	28.986379	-95.354351	DOW CORPORATE, DRIVING DOW'S GROWTH IN TEXAS: THE MAKING OF DOW'S LARGEST SITE (HTTPS://CORPORATE.DOW.COM/EN-US/ABOUT/COMPANY/HISTORY/TEXAS-FACILITY.HTML ; ACCESSED NOV. 20, 2020)
Magnesium	Round Top Prospect	31.276	-105.474	HULSE, D.E., MALHOTRA, D., MATTHEWS, T. AND EMANUEL, C., 2019, NI 43-101 PRELIMINARY ECONOMIC ASSESSMENT ROUND TOP PROJECT, SIERRA BLANCA, TEXAS. REPORT PREPARED FOR USA RARE EARTH LLC AND TEXAS MINERAL RESOURCE CORP, 230 P.
Magnesium	Little Round Top Prospect	31.285	-105.463	O'NEILL, L.C., ELLIOTT, B.A., AND KYLE, J.R., 2017, MINERALOGY AND CRYSTALLIZATION HISTORY OF HIGHLY DIFFERENTIATED REE-ENRICHED HYAPBYSSAL RHYOLITE: ROUND TOP LACCOLITH, TRANS-PECOS, TEXAS. MINERALOGY AND PETROLOGY, V.111, NO.4, P.569-592, HTTP://DOI.ORG/10.1007/S00710-017-0511-5 .

Additional Sources being evaluated:

Mineral Resource Circular 10: Barnes, V. E., 1936, Report on the Building Stone Deposits in Burnet County, Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Survey Circular MS0010, 3 p.

Mineral Resource Circular 32: McCammon, J. H., 1941, Report on Tin and Magnesite Deposits in Mason County, Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Survey Circular MS0032, 5 p.

Mineral Resource Circular 45: Chelf, C. R., 1941, Magnesite Mining in Llano County, Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Survey Circular MS0040, 4 p.

Publication 4246: Barnes, V. E., Dawson, R. F., and Parkinson, G. A., 1942, Building Stones of Central Texas: University of Texas, Austin, Bureau of Economic Geology and Technology, Publication 4246, pp. 105-107

Manganese

Commodity	Site Name	Latitude	Longitude	Citation
Manganese	Unnamed Prospect	30.07993	-101.495	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Manganese	Unnamed Occurrence	30.02854	-104.161	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Manganese	Ranch Trail Mn Occurrence	29.64022	-104.387	DIETRICH J W GEOLOGY OF PRESIDIO AREA PRESIDIO CO, TEXAS, UNIVERSITY OF TEXAS AUSTIN PHD DISS 1965
Manganese	Unnamed Prospect	29.72828	-95.2502	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Manganese	Unnamed Occurrence	30.0666	-103.547	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Manganese	Burdett Prospect	29.98993	-102.967	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Manganese	Unnamed Prospect	29.4444	-103.459	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Manganese	Lavine Prospect	33.44074	-94.3955	STROUD, RAYMOND, 1977, ASPECTS OF MANGANESE PRODUCTION IN WEST-CENTRAL ARKANSAS: ARKANSAS GEOLOGICAL COMMISSION SYMPOSIUM ON THE GEOLOGY OF THE OUACHITA MOUNTAINS, VOL. II.
Manganese	Griffy Mn Prospect	30.8352	-98.6759	PAIGE, S., 1912, GEOLOGIC ATLAS OF THE UNITED STATES LLANO-BURNET FOLIO, TEXAS: USGS FOLIO 183, 16 P.
Manganese	Santa Fe Cuts Mn Occurrence	29.64022	-104.356	DIETRICH J W GEOLOGY OF PRESIDIO AREA PRESIDIO CO, TEXAS, UNIVERSITY OF TEXAS AUSTIN PHD DISS 1965
Manganese	Babb Manganese Prospect	30.11272	-101.627	UNKNOWN
Manganese	Black Diamond Mine	30.76798	-105.001	MINERALIZED FRACTURES IN YUCCA FORMATION CONGLOMERATE
Manganese	Brownsville Plant	25.90647	-97.4828	UNKNOWN
Manganese	Girvin Tank Nm Occurrence	29.64022	-104.206	DIETRICH J W GEOLOGY OF PRESIDIO AREA PRESIDIO CO, TEXAS, UNIVERSITY OF TEXAS AUSTIN PHD DISS 1965
Manganese	Stephenson Prospect	30.10691	-102.9	BARTLESVILLE CARD FILES
Manganese	Olive Mine Prospect	30.8008	-98.5736	BANDED MAGNETITE IN PRECAMBRIAN PACKSADDLE SCHIST

Manganese	Feely Mn Prospect	29.56913	-101.133	UNKNOWN
Manganese	Oppenheimer Draw Mn Prospect	30.08912	-101.495	UNKNOWN
Manganese	Garrett Property Prospect	30.60411	-98.6709	ORE IS RESIDUAL WEATHERING PRODUCT OF SIDERITIC LAYERS IN MARBLE OF PACKSADDLE SCHIST, GOETHITE, FAINT MANGANIFEROUS TRACES, LIMONITE
Manganese	Chispa Mine	30.72269	-104.697	UNKNOWN
Manganese	Horse Mountain Prospect	30.8335	-98.6772	UNKNOWN
Manganese	Shumla Mn Prospects	29.77853	-101.417	UNKNOWN
Manganese	Spiller Mine	30.9052	-99.0935	UNKNOWN
Manganese	Kothmann Tract Prospect	30.8783	-99.0203	UNKNOWN
Manganese	Iron Mountain Prospect	30.8602	-98.8311	RESISTANT KNOLL OF MAGNETITE BEARING PRECAMBRIAN VALLEY SPRING GNEISS
Manganese	Willow Creek Area	30.7927	-98.867	FOUR PITS IN PRECAMBRIAN VALLEY SPRING GNEISS
Manganese	Horse Mountain Prospect	30.8388	-98.6825	VALLEY SPRING GNEISS, MANGANESE-OXIDE AND SILICATE, SPESSARTITE, PIEDMONTITE
Manganese	Bader Prospect	30.73381	-98.8139	FOUR PITS IN PRECAMBRIAN VALLEY SPRING GNEISS
Manganese	Mayfield Mine	30.71939	-104.775	ECONOMIC GEOLOGY V 55 NO 1 P 1-55.
Manganese	Clark Prospect	30.15827	-103.237	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Manganese	Mills Ranch Mn Prospect	30.18631	-101.594	UNKNOWN
Manganese	Shumla District Prospects	29.78213	-101.399	MAXWELL, R.A., 1962, MINERAL RESOURCES OF SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY REPT. INVEST. 43, P. 105-106.
Manganese	Babb Deposits	30.11216	-101.513	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 249-254.
Manganese	Mayfield Prospect	30.72297	-104.775	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Manganese	Ingram-Howe Deposit	29.84784	-101.43	MAXWELL, R.A., 1962, MINERAL RESOURCES OF SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY REPT. INVEST. 43.
Manganese	Mills Ranch Mine	30.18387	-101.589	MAXWELL, R.A., 1962, MINERAL RESOURCES OF SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY REPT. INVEST. 43.
Manganese	Oppenheimer Canyon Occurrence	30.08772	-101.495	MAXWELL, R.A., 1962, MINERAL RESOURCES OF SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY REPT. INVEST. 43.
Manganese	Unnamed Prospects	29.61411	-104.207	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Manganese	Unnamed Prospect	30.27937	-104.672	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Manganese	Feely Prospect	29.56829	-101.119	MAXWELL, R.A., 1962, MINERAL RESOURCES OF SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY REPT. INVEST. 43.
Manganese	Round Top Prospect	31.276	-105.474	HULSE, D.E., MALHOTRA, D., MATTHEWS, T. AND EMANUEL, C., 2019, NI 43-101 PRELIMINARY

				ECONOMIC ASSESSMENT ROUND TOP PROJECT, SIERRA BLANCA, TEXAS. REPORT PREPARED FOR USA RARE EARTH LLC AND TEXAS MINERAL RESOURCE CORP, 230 P.
Manganese	Little Round Top Prospect	31.285	-105.463	O'NEILL, L.C., ELLIOTT, B.A., AND KYLE, J.R., 2017, MINERALOGY AND CRYSTALLIZATION HISTORY OF HIGHLY DIFFERENTIATED REE-ENRICHED HYABYSSAL RHYOLITE: ROUND TOP LACCOLITH, TRANS-PECOS, TEXAS. MINERALOGY AND PETROLOGY, V.111, NO.4, P.569-592, HTTP://DOI.ORG/10.1007/S00710-017-0511-5 .

Additional Sources being evaluated:

Bulletin 3401: The Geology of Texas, Volume II, Structural and Economic Geology [exclusive of petroleum], by E.H. Sellards, C.L. Baker and others, originally printed in 1934, Bureau of Economic Geology, University of Texas at Austin, pp. 505-511

Mineral Resource circular 52: Warren, L. E., 1942, The Occurrence of Manganese on the Ingram-Howe Ranch, with Notes on Other Areas along Pecos River, Val Verde County, Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Survey Circular MS0052, 4 p.

Publication 4301: Texas Mineral Resources, 1943, Bureau of Economic Geology, The University of Texas at Austin, pp. 249-256

Niobium

Commodity	Site Name	Latitude	Longitude	Citation
Niobium	Love Tank Mine	31.18267	-105.513	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Niobium	Cave Peak Deposit	31.4435	-104.879	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Niobium	El Paso Mine	31.93597	-106.487	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Niobium	Franklin Mt Tin Deposits	31.93574	-106.487	CHAUVENET, REGIS, 1910, FRANKLIN MT TIN PROSPECT. MINES AND MINERALS, V 30, P 529-531.
Niobium	Granite Hill Prospect	31.11128	-105.446	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Niobium	Little Blanca Mountain Prospect	31.284	-105.439	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Niobium	Round Top Prospect	31.276	-105.474	O'NEILL, L.C., ELLIOTT, B.A., AND KYLE, J.R., 2017, MINERALOGY AND CRYSTALLIZATION HISTORY OF HIGHLY DIFFERENTIATED REE-ENRICHED HYABYSSAL RHYOLITE: ROUND TOP LACCOLITH, TRANS-PECOS, TEXAS. MINERALOGY AND PETROLOGY, V.111, NO.4, P.569-592, HTTP://DOI.ORG/10.1007/S00710-017-0511-5 .
Niobium	Little Round Top Prospect	31.285	-105.463	O'NEILL, L.C., ELLIOTT, B.A., AND KYLE, J.R., 2017, MINERALOGY AND CRYSTALLIZATION HISTORY OF HIGHLY DIFFERENTIATED REE-ENRICHED HYABYSSAL

				RHYOLITE: ROUND TOP LACCOLITH, TRANS-PECOS, TEXAS. MINERALOGY AND PETROLOGY, V.111, NO.4, P.569-592, HTTP://DOI.ORG/10.1007/S00710-017-0511-5.
Niobium	Triple Hill Prospect	31.271	-105.384	O'NEILL, L.C., ELLIOTT, B.A., AND KYLE, J.R., 2017, MINERALOGY AND CRYSTALLIZATION HISTORY OF HIGHLY DIFFERENTIATED REE-ENRICHED HYALOPHYRIC RHYOLITE: ROUND TOP LACCOLITH, TRANS-PECOS, TEXAS. MINERALOGY AND PETROLOGY, V.111, NO.4, P.569-592, HTTP://DOI.ORG/10.1007/S00710-017-0511-5.
Niobium	Marble Canyon Prospect	31.44407	-104.895	EXPLORATORY DRILLING OF CONTACT METAMORPHIC ZONE IN CRETACEOUS LIMESTONE INTRUDED BY TERTIARY RHYOLITE PLUGS

Platinum Group Metals

None

Potash

Commodity	Site Name	Latitude	Longitude	Citation
Potash	Capote Creek Mine	30.20361	-104.575	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Potash	Greensands	30.8752	-98.39393	unknown
Potash	Permian Basin	31.88239	-103.3383	SMITH, H. I., 1938, POTASH IN THE PERMIAN SALT BASIN: INDUSTRIAL & ENGINEERING CHEMISTRY 30, NO. 8, P. 854-860
Potash	Palangana Dome (Duval County)	27.60484	-98.44726	unknown
Potash	Spur Well	33.47438	-100.8647	KATZ, F. J., 1923, MINERAL RESOURCES OF THE UNITED STATES: PART II - NONMETALS: US BUREAU OF MINES
Potash	Boden Well	35.39928	-102.0643	KATZ, F. J., 1923, MINERAL RESOURCES OF THE UNITED STATES: PART II - NONMETALS: US BUREAU OF MINES
Potash	Miller Well	35.0235	-102.0667	KATZ, F. J., 1923, MINERAL RESOURCES OF THE UNITED STATES: PART II - NONMETALS: US BUREAU OF MINES
Potash	Bryant Well	31.92553	-102.0867	KATZ, F. J., 1923, MINERAL RESOURCES OF THE UNITED STATES: PART II - NONMETALS: US BUREAU OF MINES
Potash	Burns Well	32.70751	-101.6987	KATZ, F. J., 1923, MINERAL RESOURCES OF THE UNITED STATES: PART II - NONMETALS: US BUREAU OF MINES
Potash	River Well	31.458843	-103.343858	KATZ, F. J., 1923, MINERAL RESOURCES OF THE UNITED STATES: PART II - NONMETALS: US BUREAU OF MINES
Potash	Means Well	31.855227	-103.467082	KATZ, F. J., 1923, MINERAL RESOURCES OF THE UNITED STATES: PART II - NONMETALS: US BUREAU OF MINES
Potash	McDowell No.4 Well	32.073997	-101.54403	KATZ, F. J., 1923, MINERAL RESOURCES OF THE UNITED STATES: PART II - NONMETALS: US BUREAU OF MINES
Potash	G. A. Jones Well	32.626334	-101.188012	KATZ, F. J., 1923, MINERAL RESOURCES OF THE UNITED STATES: PART II - NONMETALS: US BUREAU OF MINES

Potash	Cliffside Well	35.267493	-101.912439	KATZ, F. J., 1923, MINERAL RESOURCES OF THE UNITED STATES: PART II - NONMETALS: US BUREAU OF MINES
Potash	St. Rita Group Wells	31.214815	-101.673081	KATZ, F. J., 1923, MINERAL RESOURCES OF THE UNITED STATES: PART II - NONMETALS: US BUREAU OF MINES
Potash	Newnham Wells	31.841368	-102.355957	KATZ, F. J., 1923, MINERAL RESOURCES OF THE UNITED STATES: PART II - NONMETALS: US BUREAU OF MINES
Potash	Markham Salt Dome	29.063521	-96.042882	KATZ, F. J., 1923, MINERAL RESOURCES OF THE UNITED STATES: PART II - NONMETALS: US BUREAU OF MINES
Potash	Unnamed occurrence	31.69019	-102.689133	MANSFIELD, G. R., LANG, W. G., 1934, THE TEXAS-NEW MEXICO POTASH DEPOSITS: UNIVERSITY OF TEXAS BULLETIN NO. 3401, P. 642-831
Potash	Unnamed occurrence	31.013735	-101.919171	MANSFIELD, G. R., LANG, W. G., 1934, THE TEXAS-NEW MEXICO POTASH DEPOSITS: UNIVERSITY OF TEXAS BULLETIN NO. 3401, P. 642-832
Potash	Unnamed occurrence	31.154246	-102.224706	MANSFIELD, G. R., LANG, W. G., 1934, THE TEXAS-NEW MEXICO POTASH DEPOSITS: UNIVERSITY OF TEXAS BULLETIN NO. 3401, P. 642-833
Potash	Unnamed occurrence	31.211229	-102.289071	MANSFIELD, G. R., LANG, W. G., 1934, THE TEXAS-NEW MEXICO POTASH DEPOSITS: UNIVERSITY OF TEXAS BULLETIN NO. 3401, P. 642-834
Potash	Unnamed occurrence	31.049532	-102.053916	MANSFIELD, G. R., LANG, W. G., 1934, THE TEXAS-NEW MEXICO POTASH DEPOSITS: UNIVERSITY OF TEXAS BULLETIN NO. 3401, P. 642-835
Potash	Unnamed occurrence	32.02457	-101.704838	MANSFIELD, G. R., LANG, W. G., 1934, THE TEXAS-NEW MEXICO POTASH DEPOSITS: UNIVERSITY OF TEXAS BULLETIN NO. 3401, P. 642-836
Potash	Unnamed occurrence	31.563175	-102.453312	MANSFIELD, G. R., LANG, W. G., 1934, THE TEXAS-NEW MEXICO POTASH DEPOSITS: UNIVERSITY OF TEXAS BULLETIN NO. 3401, P. 642-837
Potash	Unnamed occurrence	31.882386	-103.318188	MANSFIELD, G. R., LANG, W. G., 1934, THE TEXAS-NEW MEXICO POTASH DEPOSITS: UNIVERSITY OF TEXAS BULLETIN NO. 3401, P. 642-838
Potash	Unnamed occurrence	31.84397	-103.371924	MANSFIELD, G. R., LANG, W. G., 1934, THE TEXAS-NEW MEXICO POTASH DEPOSITS: UNIVERSITY OF TEXAS BULLETIN NO. 3401, P. 642-839

Additional Sources being evaluated:

Bureau of Economic Geology, 1928, Contributions to Geology, 1928: University of Texas, Austin, Bulletin 2801, 202 p.

Clabaugh, S. E., and Barnes, V. E., 1959, Vermiculite in Central Texas: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 40, 32 p.

Flawn, P. T., 1951, Pegmatites of the Van Horn Mountains, Texas: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 9, 30 p.

Meigs, C. C., Bassett, H. P., and Slaughter, G. B., 1922, Report on Texas Alkali Lakes: University of Texas. Austin, Bureau of Economic Geology and Technology, Bulletin 2234, 59 p.

Udden, J. A., 1915, Potash in the Texas Permian: University of Texas, Austin, Bureau of Economic Geology and Technology, Bulletin 17, 59 p.

Rare Earth Elements

Commodity	Site Name	Latitude	Longitude	Citation
REE	Baringer Hill Mine	30.77799	-98.4331	PAIGE, S., 1912, GEOLOGIC ATLAS OF THE UNITED STATES, LLANO-BURNES FOLIO, TEXAS: USGS FOLIO 183, 16 P.
REE	Cave Peak Deposit	31.4435	-104.879	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN

				TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
REE	Little Blanca Mountain Prospect	31.284	-105.439	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
REE	Round Top Prospect	31.276	-105.474	O'NEILL, L.C., ELLIOTT, B.A., AND KYLE, J.R., 2017, MINERALOGY AND CRYSTALLIZATION HISTORY OF HIGHLY DIFFERENTIATED REE-ENRICHED HYABBYSSAL RHYOLITE: ROUND TOP LACCOLITH, TRANS-PECOS, TEXAS. MINERALOGY AND PETROLOGY, V.111, NO.4, P.569-592, HTTP://DOI.ORG/10.1007/S00710-017-0511-5 .
REE	Little Round Top Prospect	31.285	-105.463	O'NEILL, L.C., ELLIOTT, B.A., AND KYLE, J.R., 2017, MINERALOGY AND CRYSTALLIZATION HISTORY OF HIGHLY DIFFERENTIATED REE-ENRICHED HYABBYSSAL RHYOLITE: ROUND TOP LACCOLITH, TRANS-PECOS, TEXAS. MINERALOGY AND PETROLOGY, V.111, NO.4, P.569-592, HTTP://DOI.ORG/10.1007/S00710-017-0511-5 .
REE	Triple Hill Prospect	31.271	-105.384	O'NEILL, L.C., ELLIOTT, B.A., AND KYLE, J.R., 2017, MINERALOGY AND CRYSTALLIZATION HISTORY OF HIGHLY DIFFERENTIATED REE-ENRICHED HYABBYSSAL RHYOLITE: ROUND TOP LACCOLITH, TRANS-PECOS, TEXAS. MINERALOGY AND PETROLOGY, V.111, NO.4, P.569-592, HTTP://DOI.ORG/10.1007/S00710-017-0511-5 .
REE	Marble Canyon Prospect	31.44407	-104.895	EXPLORATORY DRILLING OF CONTACT METAMORPHIC ZONE IN CRETACEOUS LIMESTONE INTRUDED BY TERTIARY RHYOLITE PLUGS

Rhenium

None

Rubidium

Commodity	Site Name	Latitude	Longitude	Citation
Rubidium	Round Top Prospect	31.276	-105.474	O'NEILL, L.C., ELLIOTT, B.A., AND KYLE, J.R., 2017, MINERALOGY AND CRYSTALLIZATION HISTORY OF HIGHLY DIFFERENTIATED REE-ENRICHED HYABBYSSAL RHYOLITE: ROUND TOP LACCOLITH, TRANS-PECOS, TEXAS. MINERALOGY AND PETROLOGY, V.111, NO.4, P.569-592, HTTP://DOI.ORG/10.1007/S00710-017-0511-5 .
Rubidium	Little Round Top Prospect	31.285	-105.463	O'NEILL, L.C., ELLIOTT, B.A., AND KYLE, J.R., 2017, MINERALOGY AND CRYSTALLIZATION HISTORY OF HIGHLY DIFFERENTIATED REE-ENRICHED HYABBYSSAL RHYOLITE: ROUND TOP LACCOLITH, TRANS-PECOS, TEXAS. MINERALOGY AND PETROLOGY, V.111, NO.4, P.569-592, HTTP://DOI.ORG/10.1007/S00710-017-0511-5 .

Scandium

Commodity	Site Name	Latitude	Longitude	Citation
Scandium	Round Top Prospect	31.276	-105.474	O'NEILL, L.C., ELLIOTT, B.A., AND KYLE, J.R., 2017, MINERALOGY AND CRYSTALLIZATION HISTORY OF HIGHLY DIFFERENTIATED REE-ENRICHED HYABBYSSAL RHYOLITE: ROUND TOP LACCOLITH, TRANS-PECOS, TEXAS. MINERALOGY AND PETROLOGY, V.111, NO.4, P.569-592, HTTP://DOI.ORG/10.1007/S00710-017-0511-5 .

Strontium

Commodity	Site Name	Latitude	Longitude	Citation
Strontium	George Burns Prospect	31.87207	-98.8795	BARTLESVILLE CARD FILES

Strontium	Hightower Prospect	31.82017	-98.8575	BARTLESVILLE CARD FILES
Strontium	Davis Estate Prospect	31.81548	-98.8761	BARTLESVILLE CARD FILES
Strontium	Houston Barite,Plant	29.77744	-95.2799	UNKNOWN
Strontium	Burns-Fairchild Prospect	31.87657	-98.9035	BARTLESVILLE CARD FILES
Strontium	Hackberry Creek Prospect	30.21965	-99.6996	MAXWELL, R.A., 1962, MINERAL RESOURCES OF SOUTH TEXAS: TX BEG RI 43, P. 12-13.
Strontium	Unnamed Prospect	30.50662	-95.3852	UNKNOWN
Strontium	W. L. Thomas Prospect	31.76738	-98.8267	BARTLESVILLE CARD FILES
Strontium	Miller-Baker Prospect	31.86577	-98.8795	BARTLESVILLE CARD FILES
Strontium	Elizabeth Faulkner Prospect	31.84657	-98.8575	BARTLESVILLE CARD FILES
Strontium	Baker-Maner-Faulkner Prospect	31.85237	-98.8575	BARTLESVILLE CARD FILES
Strontium	Evans Prospect	32.37905	-100.433	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Whitesides Jr. Occurrence	32.08738	-100.42	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Mary Chambers Prospect	31.86157	-98.8609	BARTLESVILLE CARD FILES
Strontium	Miller Ranch Mine	29.99522	-99.9929	MAXWELL, R.A., 1962, MINERAL RESOURCES OF SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY REPT. INVEST. 43, P. 37.
Strontium	Miller Mine	31.86267	-98.8731	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Hightower-Routh Occurrence	31.81518	-98.862	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Bird Occurrence	31.77629	-98.8373	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Hopkins Prospect	32.40348	-100.447	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Mcfarlane and Moore Prospect	32.0946	-100.401	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Davis Prospect	31.81573	-98.8826	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Scott and Roy Occurrence	32.39959	-100.44	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Martin Mine	32.78458	-100.557	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Routh Prospect	31.84128	-98.864	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Reagan Occurrence	31.78407	-98.8573	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Whitesides Occurrence	32.0821	-100.42	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Oden Occurrence	32.85597	-100.399	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Evans Occurrence	31.80185	-98.8681	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Teague Hollow Occurrence	31.84211	-98.8545	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Whitesides Sr. Occurrence	32.07738	-100.42	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Thomas Occurrence	31.76268	-98.8237	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Boothe Mine	32.38322	-100.432	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Dunsworth-Dunn-Hughes Occurrence	31.80907	-98.8812	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Stewart Occurrence	31.82156	-98.8628	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Baker Mine	31.86156	-98.869	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Caffey and Lacey Occurrence	31.91684	-98.792	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Boyd Mine	31.86211	-98.8537	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Alpha Baker Mine	31.85156	-98.8595	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Maner Occurrence	31.85156	-98.8595	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Hughes Occurrence	31.73407	-98.7937	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Gynum Occurrence	31.00021	-98.0003	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131

Strontium	Rodgers Occurrence	31.8124	-98.8701	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Somnerville Occurrence	32.40682	-100.441	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Jordan Occurrence	32.1421	-100.411	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Burns and Fairchild Occurrence	31.87656	-98.8956	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Burns Occurrence	31.87184	-98.8703	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Dikes and Chambers Deposit	31.85739	-98.8698	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Douglas Occurrence	31.74407	-98.7676	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Bettis Occurrence	31.77546	-98.7853	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Faulkner Mine	31.84906	-98.8595	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131
Strontium	Rountree Occurrence	31.78879	-98.7842	UNIVERSITY OF TEXAS PUBLICATION 4301, P. 113-131

Additional Sources being evaluated:

Bulletin 1814: Schoch, E. P., 1918, Chemical Analyses of Texas Rocks and Minerals: University of Texas, Austin, Bureau of Economic Geology and Technology, Bulletin 1814, 256 p.

Bulletin 1931: Winton, W. M., and Adkins, W. S., 1919, The Geology of Tarrant County: University of Texas, Austin, Bureau of Economic Geology and Technology, Bulletin 1931, 122 p.

Bulletin 3232: The Geology of Texas, Volume I, Stratigraphy, by E.H. Sellards, W.S., Adkins, and E.B., Plummer, originally printed in 1933 with second printing in 1947, seventh printing in 1978, Bureau of Economic Geology, University of Texas at Austin

Publication 4301: Texas Mineral Resources, 1943, Bureau of Economic Geology, The University of Texas at Austin, pp. 113-131

Publication 4824: Weissenborn, A. E., and Stenzel, H. B., 1948, Geological Resources of the Trinity River Tributary Area in Oklahoma and Texas: University of Texas, Austin, Publication 4824, pp. 72-74

Tantalum

Commodity	Site Name	Latitude	Longitude	Citation
Tantalum	Love Tank Mine	31.18267	-105.513	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Tantalum	Cave Peak Deposit	31.4435	-104.879	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Tantalum	El Paso Mine	31.93597	-106.487	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Tantalum	Franklin Mt Tin Deposits	31.93574	-106.487	CHAUVENET, REGIS, 1910, FRANKLIN MT TIN PROSPECT. MINES AND MINERALS, V 30, P 529-531.
Tantalum	Granite Hill Prospect	31.11128	-105.446	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Tantalum	Little Blanca Mountain Prospect	31.284	-105.439	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Tantalum	Round Top Prospect	31.276	-105.474	O'NEILL, L.C., ELLIOTT, B.A., AND KYLE, J.R., 2017, MINERALOGY AND CRYSTALLIZATION HISTORY OF HIGHLY DIFFERENTIATED REE-ENRICHED HYABYSSAL RHYOLITE: ROUND TOP LACCOLITH, TRANS-PECOS, TEXAS. MINERALOGY AND PETROLOGY, V.111, NO.4, P.569-592, HTTP://DOI.ORG/10.1007/S00710-017-0511-5 .

Tantalum	Little Round Top Prospect	31.285	-105.463	O'NEILL, L.C., ELLIOTT, B.A., AND KYLE, J.R., 2017, MINERALOGY AND CRYSTALLIZATION HISTORY OF HIGHLY DIFFERENTIATED REE-ENRICHED HYABYSSAL RHYOLITE: ROUND TOP LACCOLITH, TRANS-PECOS, TEXAS. MINERALOGY AND PETROLOGY, V.111, NO.4, P.569-592, HTTP://DOI.ORG/10.1007/S00710-017-0511-5 .
Tantalum	Triple Hill Prospect	31.271	-105.384	O'NEILL, L.C., ELLIOTT, B.A., AND KYLE, J.R., 2017, MINERALOGY AND CRYSTALLIZATION HISTORY OF HIGHLY DIFFERENTIATED REE-ENRICHED HYABYSSAL RHYOLITE: ROUND TOP LACCOLITH, TRANS-PECOS, TEXAS. MINERALOGY AND PETROLOGY, V.111, NO.4, P.569-592, HTTP://DOI.ORG/10.1007/S00710-017-0511-5 .
Tantalum	Marble Canyon Prospect	31.44407	-104.895	EXPLORATORY DRILLING OF CONTACT METAMORPHIC ZONE IN CRETACEOUS LIMESTONE INTRUDED BY TERTIARY RHYOLITE PLUGS

Tellurium

None

Tin

Commodity	Site Name	Latitude	Longitude	Citation
Tin	El Paso Mine	31.93597	-106.487	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Tin	Streeter Stream Tin Deposit	30.7594	-99.3618	MEYER, H C, 1913, TOPAZ AND STREAM TIN IN MASON CO, TEXAS. E MIN J. V 95, N 10, P 511-512.
Tin	Grit Stream Tin Deposits	30.783	-99.3412	MEYER, H C, 1913, TOPAZ AND STREAM TIN IN MASON CO, TEXAS. E MIN J. V 95, N 10, P 511-512.
Tin	Franklin Mt Tin Deposits	31.93574	-106.487	CHAUVENET, REGIS, 1910, FRANKLIN MT TIN PROSPECT. MINES AND MINERALS, V 30, P 529-531.
Tin	Tin Prospect	30.7744	-99.3454	CASSITERITE IN VEINS IN BIOTITE GRANITE
Tin	Tremble Hill Prospect	31.17073	-105.469	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Tin	Little Blanca Mountain Prospects	31.28767	-105.452	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Tin	Granite Hill Prospect	31.11128	-105.446	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Tin	Cave Peak Deposit	31.4435	-104.879	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Tin	Round Top Prospects	31.28267	-105.474	HULSE, D.E., MALHOTRA, D., MATTHEWS, T. AND EMANUEL, C., 2019, NI 43-101 PRELIMINARY ECONOMIC ASSESSMENT ROUND TOP PROJECT, SIERRA BLANCA, TEXAS. REPORT PREPARED FOR USA RARE EARTH LLC AND TEXAS MINERAL RESOURCE CORP, 230 P.

Additional Sources being evaluated:

Bulletin 3401: The Geology of Texas, Volume II, Structural and Economic Geology [exclusive of petroleum], by E.H. Sellards, C.L. Baker and others, originally printed in 1934, Bureau of Economic Geology, University of Texas at Austin pp. 633-634

Mineral Resource Circular 32: McCammon, J. H., 1941, Report on Tin and Magnesite Deposits in Mason County, Texas: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Survey Circular MS0032, 5 p.

Publication 4301: Texas Mineral Resources, 1943, Bureau of Economic Geology, The University of Texas at Austin, pp. 378

Titanium

Commodity	Site Name	Latitude	Longitude	Citation
Titanium	Weiler-Whitener Prospect	30.33355	-96.63499	SHELBY, C.A., 1965, HEAVY MINERALS IN THE WELLBORN FORMATION, LEE AND BURLESON COUNTIES, TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATION 55, 54P.
Titanium	Colvin Sandstone Deposit	30.50022	-96.95858	BARTLESVILLE CARD FILES
Titanium	Baringer Hill Mine	30.77799	-98.43311	PAIGE, S., 1912, GEOLOGIC ATLAS OF THE UNITED STATES, LLANO-BURNES FOLIO, TEXAS: USGS FOLIO 183, 16 P.
Titanium	Carter-Branch Prospect	30.29216	-96.67334	SHELBY, C.A., 1965, HEAVY MINERALS IN THE WELLBORN FORMATION, LEE AND BURLESON COUNTIES, TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATION 55, 54P.
Titanium	Colvin Prospect	30.28855	-96.67667	SHELBY, C.A., 1965, HEAVY MINERALS IN THE WELLBORN FORMATION, LEE AND BURLESON COUNTIES, TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATION 55, 54P.
Titanium	Yegua Creek Placer District	30.3155	-96.63499	SHELBY, C.A., 1965, HEAVY MINERALS IN THE WELLBORN FORMATION, LEE AND BURLESON COUNTIES, TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATION 55, 54P.
Titanium	Falkenburg-Blackburn Prospect	30.3155	-96.64917	SHELBY, C.A., 1965, HEAVY MINERALS IN THE WELLBORN FORMATION, LEE AND BURLESON COUNTIES, TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATION 55, 54P.
Titanium	White Mountain Prospect	30.01327	-100	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Titanium	Padre Island Prospect	26.11286	-97.17308	BARTLESVILLE CARD FILES
Titanium	Brazos Island Prospect	26.02926	-97.16858	BARTLESVILLE CARD FILES
Titanium	Wilcox Ball Clay Prospect	31.62379	-96.32357	FISHER, 1965, BUREAU OF ECONOMIC GEOLOGY, UNIVERSITY OF TEXAS, REPORT OF INVESTIGATION 45.
Titanium	Fronton-Guerra Prospect	26.51259	-99.032033	HAHN, A.D., MILLER, W.C., FINE, M.M., 1961, TITANIUM-BEARING DEPOSITS IN SOUTH TEXAS: U.S. DEPT. OF THE INTERIOR, BUREAU OF MINES REPORT OF INVESTIGATIONS 5712

Tungsten

Commodity	Site Name	Latitude	Longitude	Citation
Tungsten	Love Tank Mine	31.18267	-105.513	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Tungsten	Cave Peak Deposit	31.4435	-104.879	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Tungsten	El Paso Mine	31.93597	-106.487	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.

Tungsten	Franklin Mt Tin Deposits	31.93574	-106.487	CHAUVENET, REGIS, 1910, FRANKLIN MT TIN PROSPECT. MINES AND MINERALS, V 30, P 529-531.
Tungsten	Packsaddle Mountain Prospect	30.62521	-98.5081	DIETRICH, J.W. AND LONSDALE, J.T., 1958, MINERAL RESOURCES OF THE COLORADO RIVER INDUSTRIAL DEVELOPMENT ASSOCIATION AREA, BUREAU OF ECONOMIC GEOLOGY, UNIVERSITY OF TEXAS AT AUSTIN, REPOST OF INVESTIGATION NO. 37, 83 P.
Tungsten	Llano Region Prospects	30.70021	-98.717	LEMMON, D.M., UNPUBLISHED DATA.}{Deposit:: LEMMON, D.M., AND TWETO, O.L., 1962, TUNGSTEN IN THE U.S., USGS MAP, MR-25.
Tungsten	Unnamed Occurrence	31.13461	-105.529	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Tungsten	Granite Hill Prospect	31.11128	-105.446	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.

Additional Sources being evaluated:

Mineral Resource Circular 17: Johnson, J., 1937, Report on Fuller's Earth and Bentonite in Angelina and Cherokee Counties: The University of Texas at Austin, Bureau of Economic Geology, Mineral Resource Circular MS0017, 2 p.

Publication 4301: Texas Mineral Resources, 1943, Bureau of Economic Geology, The University of Texas at Austin, pp. 368-369

Uranium

Commodity	Site Name	Latitude	Longitude	Citation
Uranium	Stokes Mine	31.2085	-105.459	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Unnamed Prospect	29.51162	-103.501	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Fizzle Flat and Green Valley Prospects	29.50773	-103.501	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Finch-Hartman Pit	29.02586	-97.6553	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	R.O.H.K. Prospect	31.85182	-106.112	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Unnamed Prospect	29.49273	-103.459	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Kotzur Pit	29.00056	-97.9081	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Holiday Mine	27.40864	-98.742	UNIVERSITY OF TEXAS, BUREAU OF ECONOMIC GEOLOGY, REPORT OF INVESTIGATION 100
Uranium	Panna Maria West Mine	28.97109	-97.9406	GALLOWAY, W.E., ET AL, 1979, SOUTH TEXAS URANIUM PROVINCE, GEOLOGIC PERSPECTIVE: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 18, 81 P.
Uranium	Butler Pit	28.85082	-98.1173	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Rosenbrock Pit	28.83806	-98.0906	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Winerich Pit	28.97086	-97.8336	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP

Uranium	Labus-Moczygamba	28.96716	-97.8734	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Ray Point Plant	28.52467	-98.1009	PRODUCES YELLOW CAKE FROM NEARBY PITS
Uranium	Weddington North	28.85356	-98.1234	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Pawelek-Lyssa-Turner Pit	28.86496	-98.1134	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Conoco Conquista Griffin Pit	29.15386	-97.655	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Kopplin Pit	28.52198	-98.0617	EOCENE OAKVILLE FORMATION
Uranium	Steinmann Pit	29.12696	-97.7036	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Brysch Pit	28.98466	-97.9636	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Susquehana Mill	28.90216	-98.05	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Hobson In Situ Uranium Proj	28.94526	-97.9881	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	M. Labus Pit	28.94136	-98.0042	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Karnes County Pits	28.89136	-98.1317	UNKNOWN
Uranium	Luckett Pit	28.90746	-98.117	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Cochran Pit	29.11106	-97.7303	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Ft Worth Natl Pit	28.98056	-97.9459	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Clay West Uranium Plant	28.25608	-98.192	UNKNOWN
Uranium	Burns Field	28.29108	-98.1961	IN SITU LEACHING OF EOCENE OAKVILLE FORMATION
Uranium	Galen Pit	28.87276	-98.1114	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Zamzow Mine (Conoco)	28.89054	-98.1059	EARGLE, D.H., ET AL, 1971, URANIUM GEOLOGY AND MINES, SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 12, 59 P.
Uranium	Moser No 2 Field	28.25218	-98.2053	IN SITU LEACHING OF EOCENE OAKVILLE FORMATION
Uranium	Niechwietz Pits	28.90606	-98.0831	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Climax Pit	28.89606	-98.1292	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Muczygamba Pit	28.93336	-98.0389	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Chapman Pit	28.60137	-98.2309	EOCENE OAKVILLE FORMATION
Uranium	Kunschik Pit	29.07056	-97.7778	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Clay West Deep Field	28.24638	-98.2125	IN SITU LEACHING OF EOCENE OAKVILLE FORMATION
Uranium	Conoco Conquista Smith Pit	29.15996	-97.6422	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Dickson-Brown Pit	28.89856	-98.0581	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Bozo Pit	28.86386	-98.147	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Clay West Shallow Field	28.24108	-98.2231	IN SITU LEACHING OF EOCENE OAKVILLE FORMATION
Uranium	Sickenius Pit	28.88746	-98.0995	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Unnamed Pits	32.81598	-99.6093	TEXAS BUREAU OF ECONOMIC GEOLOGY, 1991, NONPETROLEUM MINERAL PRODUCERS IN TEXAS
Uranium	Falls City Plant	28.89836	-98.1295	UNKNOWN
Uranium	Unnamed Occurrence	30.04188	-103.547	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN

				TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Uranium Resources	27.38251	-98.7864	UNKNOWN
Uranium	Weddington Uranium Pit	28.79887	-98.0967	U.S. BUREAU OF MINES
Uranium	Intercontinental Energy Corp	28.65997	-97.9692	IN SITU LEACHING OF EOCENE OAKVILLE FORMATION
Uranium	El Mesquite Mine	27.40864	-98.717	MINING MAGAZINE, JANUARY 1989, P. 52.
Uranium	Trevino Mine	31.49731	-99.3578	MINING MAGAZINE, JANUARY 1989, P. 52
Uranium	Smith Uranium Pit	28.50198	-98.0389	EOCENE OAKVILLE FORMATION
Uranium	Essespoonmore Pit	28.73557	-98.0981	EOCENE OAKVILLE FORMATION
Uranium	Maybel New Pit	28.55747	-98.2859	EOCENE OAKVILLE FORMATION
Uranium	Moser No 1 Field	28.25608	-98.2109	IN SITU LEACHING OF EOCENE OAKVILLE FORMATION
Uranium	Vaughn Pit	28.60587	-98.2117	EOCENE OAKVILLE FORMATION
Uranium	Stueletje Uranium Pit	28.78967	-98.0914	CONTINENTAL OIL CO
Uranium	Garcia-Turner Pit	28.88056	-98.0775	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Bruni Plant	27.39611	-98.792	UNKNOWN
Uranium	Conoco Conquista Friar-Knandel Pit	29.12526	-97.6253	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Thomas Pit	29.12526	-97.6253	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Sulfer Creek Operation	28.49608	-98.0447	UNKNOWN
Uranium	Conoco Hurt Pit	28.76717	-98.1964	UNKNOWN
Uranium	Burns Uranium Plant	28.25308	-98.1939	IN-SITU LEACHING OF EOCENE OAKVILLE FORMATION
Uranium	Kotzur Mine	28.99887	-97.8773	GALLOWAY, W.E., ET AL, 1979, SOUTH TEXAS URANIUM PROVINCE, GEOLOGIC PERSPECTIVE: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 18, 81 P.
Uranium	Trial Pit	28.94716	-97.9825	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Korzekwa Pit	28.91276	-98.15	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Lauw Pit	28.87886	-98.1278	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Stoeltje-Bodden Pit	28.93666	-98.0145	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Unnamed Prospect	29.43662	-103.459	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Kellner Pit	28.83356	-98.1264	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Franklin Pit	28.90636	-98.0234	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Dobie Pits	28.61967	-98.2059	EOCENE OAKVILLE FORMATION
Uranium	Panna Maria Mine	28.97166	-97.9395	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Zamzow Mine (IEC)	28.4975	-98.0628	MINING MAGAZINE, JANUARY 1989, P. 52.
Uranium	Nuhn Mine	28.89887	-98.1295	BUNKER, C.M., AND MACKALLOR, J.A., 1973, USGS PP 765, 37 P.
Uranium	Superior Pit	28.87966	-98.1372	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Marrs-Mclean Pit No 2	28.48358	-98.0864	EOCENE OAKVILLE FORMATION
Uranium	Mobil El Mesquite Plant	27.35861	-98.6706	IN SITU LEACHING OF EOCENE URANIFEROUS SANDS
Uranium	House-Seale Mine	28.60194	-98.2128	UNIVERSITY OF TEXAS, BUREAU OF ECONOMIC GEOLOGY, REPORT OF INVESTIGATION 100

Uranium	Palangana Project	27.6847	-98.4059	IN SITU LEACHING OF EOCENE OAKVILLE FORMATION
Uranium	Thomas Uranium Pit	29.19745	-97.5031	UNKNOWN
Uranium	Mabel Mine	28.5586	-98.2884	EARGLE, D. AND SNYDER, J., 1957, A PRELIMINARY REPORT ON THE STRATIGRAPHY OF THE URANIUM-BEARING ROCKS OF THE KARNES CO. AREA, SOUTH CENTRAL TEXAS: TEXAS UNIVERSITY BUR. ECON. GEOL. REPORT INV. 30
Uranium	Boots Field	28.28558	-98.2156	IN SITU LEACHING OF EOCENE OAKVILLE FORMATION
Uranium	Mobil Brelum-Piedrelumbre Plant	27.95279	-98.667	IN SITU LEACHING OF URANIFEROUS EOCENE SANDS
Uranium	Thomas-Knandel-Dybowski Mine	29.1272	-97.6236	GALLOWAY, W.E., ET AL, 1979, SOUTH TEXAS URANIUM PROVINCE, GEOLOGIC PERSPECTIVE: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 18, 81 P.
Uranium	Fort Worth National Mine	28.93859	-97.9995	GALLOWAY, W.E., ET AL, 1979, SOUTH TEXAS URANIUM PROVINCE, GEOLOGIC PERSPECTIVE: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 18, 81 P.
Uranium	Las Palmas Mine	27.37531	-98.6253	MINING MAGAZINE, JANUARY 1989, P. 52.
Uranium	Clay West Mine	28.24639	-98.2125	MINING MAGAZINE, JANUARY 1989, P. 52.
Uranium	Ryan Pit	28.59837	-98.1686	EOCENE OAKVILLE FORMATION
Uranium	Panna Maria East Mine	28.98915	-97.917	MINING MAGAZINE, JANUARY 1989, P. 45.
Uranium	Brown Uranium Pit	28.92856	-98.0739	CONTINENTAL OIL CO
Uranium	Mcgrady-Wright Pit	28.82057	-98.037	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Searcy Pit	28.90556	-98.1103	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	E. Labus Mine	28.95526	-98.0203	UNKNOWN
Uranium	Nell Plant	28.66697	-98.0628	IN SITU LEACHING OF EOCENE URANIFEROUS SANDS
Uranium	Weddington South	28.83886	-98.1153	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	House Pit	28.63027	-98.1745	EOCENE OAKVILLE FORMATION
Uranium	Manka Pit	28.93246	-98.0281	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Marrs-Mclean Pit No 1	28.48968	-98.0836	EOCENE OAKVILLE FORMATION
Uranium	Mobil Oil Company U Leach Plant	27.39671	-98.8086	UNKNOWN
Uranium	Conquista Uranium Mill	28.90586	-98.105	VOLCANIC ASH BEARING SANDS AND SANDSTONES OF EOCENE JACKSON GROUP
Uranium	Felder Uranium Operation	28.49948	-98.08	EARGLE, D.H., HINDS, G.W., AND WEEKS, A.M.D., 1971, URANIUM GEOLOGY AND MINES, SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY, GUIDBOOK NO. 12, 61 P.
Uranium	O'Hern Mine	27.3967	-98.8087	MINING MAGAZINE, JANUARY 1989, P. 52.
Uranium	Mount Lucas Mine	28.18362	-97.9336	MINING MAGAZINE, JANUARY 1989, P. 52.
Uranium	Zamzow Leaching Plant (Facility)	28.49748	-98.0628	IN SITU LEACHING OF OAKVILLE FORMATION
Uranium	Benavides Mine	27.42531	-98.7837	MINING MAGAZINE, JANUARY 1989, P. 52.
Uranium	Franklin-Swierc Mine	28.89887	-98.0475	EARGLE, D.H., ET AL, 1971, URANIUM GEOLOGY AND MINES, SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 12, 59 P.
Uranium	Burns Mine	28.24195	-98.192	MINING MAGAZINE, JANUARY 1989, P. 52.
Uranium	West Cole Mine	27.50948	-98.8542	MINING MAGAZINE, JANUARY 1989, P. 52.
Uranium	Bruni Mine	27.45864	-98.842	MINING MAGAZINE, JANUARY 1989, P. 52.
Uranium	Saul Ranch - Rattlesnake Mine	34.36677	-101.15	UNKNOWN
Uranium	Mcbryde Mine	31.49731	-99.3578	MINING MAGAZINE, JANUARY 1989, P. 52
Uranium	Galen Mine	28.87109	-98.1114	UNIVERSITY OF TEXAS, BUREAU OF ECONOMIC GEOLOGY GUIDE BOOK 12

Uranium	Palangana Uranium Mine	27.68363	-98.3753	WEEKS AND EARGLE, 1960, URANIUM AT THE PALANGANA SALT DOME, DUVAL CO., TEXAS: USGS PROF. PAPER 400-B
Uranium	Stoeltje Mine	28.95304	-98.0095	EARGLE, D.H., ET AL, 1971, URANIUM GEOLOGY AND MINES, SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 12, 59 P.
Uranium	Black Mountain Prospect	29.8805	-103.447	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Weddington-Conoco Mine	28.83083	-98.1142	EARGLE, D.H., ET AL, 1971, URANIUM GEOLOGY AND MINES, SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 12, 59 P.
Uranium	Silver Lake Deposit	27.33364	-98.6337	TEXAS BUREAU OF ECONOMIC GEOLOGY, 1991, NONPETROLEUM MINERAL PRODUCERS IN TEXAS
Uranium	Mills Prospect	29.53412	-104.013	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Kellner Mine	28.83359	-98.1253	EARGLE, D.H., ET AL, 1971, URANIUM GEOLOGY AND MINES, SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 12, 59 P.
Uranium	Thane Prospect	28.8447	-98.1653	UNIVERSITY OF TEXAS, BUREAU OF ECONOMIC GEOLOGY, REPORT OF INVESTIGATION 30, P.23.
Uranium	Unnamed Prospect	31.83904	-105.423	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Shaefer Prospect	28.82527	-98.1642	UNIVERSITY OF TEXAS, BUREAU OF ECONOMIC GEOLOGY, REPORT OF INVESTIGATION 30, P.23.
Uranium	Hunter Mine	31.18934	-105.451	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Manka Mine	28.95526	-98.0278	EARGLE, D.H., ET AL, 1971, URANIUM GEOLOGY AND MINES, SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 12, 59 P.
Uranium	Kopplin Mine	28.51834	-98.0628	EARGLE, D.H., ET AL, 1971, URANIUM GEOLOGY AND MINES, SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 12, 59 P.
Uranium	Garcia Mine	28.87248	-98.0711	EARGLE, D.H., ET AL, 1971, URANIUM GEOLOGY AND MINES, SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 12, 59 P.
Uranium	Sulfur Creek Mine	28.49056	-98.0836	UNIVERSITY OF TEXAS, BUREAU OF ECONOMIC GEOLOGY GUIDE BOOK 12
Uranium	Korth-Hartman-Finch Mine	29.11193	-97.647	GALLOWAY, W.E., ET AL, 1979, SOUTH TEXAS URANIUM PROVINCE, GEOLOGIC PERSPECTIVE: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 18, 81 P.
Uranium	Unnamed Prospects	31.78932	-105.369	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Griffin Mine	29.13637	-97.6731	GALLOWAY, W.E., ET AL, 1979, SOUTH TEXAS URANIUM PROVINCE, GEOLOGIC PERSPECTIVE: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 18, 81 P.
Uranium	Lockett Mine	28.90998	-98.1142	USGS PROFESSIONAL PAPER 765.
Uranium	Banduch-Cochran Mine	29.0947	-97.7411	GALLOWAY, W.E., ET AL, 1979, SOUTH TEXAS URANIUM PROVINCE, GEOLOGIC PERSPECTIVE: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 18, 81 P.
Uranium	Cochran Mine	29.0922	-97.7447	GALLOWAY, W.E., ET AL, 1979, SOUTH TEXAS URANIUM PROVINCE, GEOLOGIC PERSPECTIVE: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 18, 81 P.
Uranium	Moczygemba Mine	28.92109	-98.0739	EARGLE, D.H., ET AL, 1971, URANIUM GEOLOGY AND MINES, SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 12, 59 P.

Uranium	Steinman Mine	29.12526	-97.6836	GALLOWAY, W.E., ET AL, 1979, SOUTH TEXAS URANIUM PROVINCE, GEOLOGIC PERSPECTIVE: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 18, 81 P.
Uranium	Hackney Mine	28.86637	-98.147	EARGLE, D.M., ET AL, 1975, SOUTH TEXAS URANIUM DEPOSITS: AAPG BULL. V. 59, P. 766-779.
Uranium	Bargmann-Hackney Mine	28.88304	-98.1409	EARGLE, D.M., ET AL, 1975, SOUTH TEXAS URANIUM DEPOSITS: AAPG BULL. V. 59, P. 766-779.
Uranium	Jaskinia Prospect	28.96693	-97.967	EARGLE, D.M., ET AL, 1975, SOUTH TEXAS URANIUM DEPOSITS: AAPG BULL. V. 59, P. 766-779.
Uranium	Kopecki Mine	28.98248	-97.9656	GALLOWAY, W.E., ET AL, 1979, SOUTH TEXAS URANIUM PROVINCE, GEOLOGIC PERSPECTIVE: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 18, 81 P.
Uranium	Sickenius Mine	28.88582	-98.097	EARGLE, D.M., ET AL, 1975, SOUTH TEXAS URANIUM DEPOSITS: AAPG BULL. V. 59, P. 766-779.
Uranium	Hoffman Prospect	28.88498	-97.9995	UNIVERSITY OF TEXAS, BUREAU OF ECONOMIC GEOLOGY, REPORT OF INVESTIGATION 30, P.24-25.
Uranium	Bennett Pit	32.71987	-98.0484	TEXAS BUREAU OF ECONOMIC GEOLOGY, 1991, NONPETROLEUM MINERAL PRODUCERS IN TEXAS
Uranium	Lauw Prospect	28.8822	-98.1239	EARGLE, D.H., ET AL, 1971, URANIUM GEOLOGY AND MINES, SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 12, 59 P.
Uranium	Weddington-Tenneco Mine	28.84609	-98.1198	EARGLE, D.H., ET AL, 1971, URANIUM GEOLOGY AND MINES, SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 12, 59 P.
Uranium	Pawnee Mine	28.65999	-97.9692	TEXAS BUREAU OF ECONOMIC GEOLOGY, 1991, NONPETROLEUM MINERAL PRODUCERS IN TEXAS
Uranium	Pfeil Mine	28.81555	-98.1225	EARGLE, D.H., ET AL, 1971, URANIUM GEOLOGY AND MINES, SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 12, 59 P.
Uranium	Labus-Hoffman Mine	28.93859	-98.0367	GALLOWAY, W.E., ET AL, 1979, SOUTH TEXAS URANIUM PROVINCE, GEOLOGIC PERSPECTIVE: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 18, 81 P.
Uranium	Brysch Prospect	28.98248	-97.9656	UNIVERSITY OF TEXAS, BUREAU OF ECONOMIC GEOLOGY, REPORT OF INVESTIGATION 30, P.24.
Uranium	Cooper Hill Prospect	31.11267	-104.979	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Unnamed Prospect	30.47102	-98.612	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Searcy-Niestroy Deposit	28.90304	-98.1295	MCCULLOH, R.P., AND ROBERTS, C., 1986, GEOLOGY OF THE NUHN URANIUM ORE BODY, JACKSON GROUP, SOUTH TEXAS URANIUM DISTRICT, IN STAPP, W.L., ED., CONTRIBUTIONS TO THE GEOLOGY OF SOUTH TEXAS: SAN ANTONIO, SOUTH TEXAS GEOLOGICAL SOCIETY, P. 109-12.
Uranium	Butler Mine	28.86137	-98.117	EARGLE, D.H., ET AL, 1971, URANIUM GEOLOGY AND MINES, SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 12, 59 P.
Uranium	Wright Mine	28.81971	-98.1189	EARGLE, D.H., ET AL, 1971, URANIUM GEOLOGY AND MINES, SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 12, 59 P.
Uranium	Pawelek Mine	28.86832	-98.1156	EARGLE, D.H., ET AL, 1971, URANIUM GEOLOGY AND MINES, SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 12, 59 P.
Uranium	Mccrady Mine	28.82527	-98.117	EARGLE, D.H., ET AL, 1971, URANIUM GEOLOGY AND MINES, SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 12, 59 P.
Uranium	Lamprecht Mine	28.50111	-98.0567	MINING MAGAZINE, JANUARY 1989, P. 52.
Uranium	Little Blanca Mountain Prospects	31.28767	-105.452	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.

Uranium	Duziuk Mine	28.82249	-98.1211	EARGLE, D.H., ET AL, 1971, URANIUM GEOLOGY AND MINES, SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 12, 59 P.
Uranium	Smith Mine	29.15387	-97.6556	GALLOWAY, W.E., ET AL, 1979, SOUTH TEXAS URANIUM PROVINCE, GEOLOGIC PERSPECTIVE: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 18, 81 P.
Uranium	Carriger Prospect	28.86276	-98.1531	EARGLE, D.H., AND SNIDER, J.L., 1957, A PRELIMINARY REPORT OF THE STRATIGRAPHY OF THE URANIUM-BEARING ROCKS OF THE KARNES COUNTY AREA, SOUTH-CENTRAL TEXAS: TX BEG RI 30, P. 19-20.
Uranium	Stillwell Mountain Prospect	29.65051	-102.961	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Longoria Mine	27.37753	-98.7881	UNIVERSITY OF TEXAS, BUREAU OF ECONOMIC GEOLOGY, REPORT OF INVESTIGATION 100
Uranium	Weddington-Susquehanna Mine	28.85582	-98.1184	EARGLE, D.H., ET AL, 1971, URANIUM GEOLOGY AND MINES, SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 12, 59 P.
Uranium	Quebec Siding Prospect	30.51102	-104.401	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Brysch Mine	28.90359	-98.0781	GALLOWAY, W.E., ET AL, 1979, SOUTH TEXAS URANIUM PROVINCE, GEOLOGIC PERSPECTIVE: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 18, 81 P.
Uranium	Wyoming Mineral Corp Uranium Mine	27.50951	-98.8542	UNKNOWN
Uranium	Nevill Ranch Occurrence	30.04688	-103.547	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Unnamed Prospects	31.02045	-105.439	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Unnamed Prospect	29.69633	-102.961	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Nieschwietz Prospect	28.90443	-98.0836	HENRY, C.D., AND KAPADIA, R.R., 1980, TRACE ELEMENTS IN SOILS OF THE SOUTH TEXAS URANIUM DISTRICT: TEXAS BUREAU OF ECONOMIC GEOLOGY, REPORT. INVEST. 101, 52 P.
Uranium	Shely Prospect	30.00438	-104.497	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Mammoth Prospect	30.44713	-104.804	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Mcspadden Prospect	30.41187	-104.761	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Anderson Ranch Prospect	30.10354	-103.524	PRICE, J. G., HENRY, C. D., AND STANDEN, A. R., 1983, ANNOTATED BIBLIOGRAPHY OF MINERAL DEPOSITS IN TRANS-PECOS TEXAS: BUREAU OF ECONOMIC GEOLOGY (TEXAS), MINERAL RESOURCE CIRCULAR NO. 73, 108 P.
Uranium	Duziuk-Lyssy Mine	28.82194	-98.1023	EARGLE, D.H., ET AL, 1971, URANIUM GEOLOGY AND MINES, SOUTH TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY GUIDEBOOK 12, 59 P.
Uranium	Round Top Prospect	31.276	-105.474	HULSE, D.E., MALHOTRA, D., MATTHEWS, T. AND EMANUEL, C., 2019, NI 43-101 PRELIMINARY ECONOMIC ASSESSMENT

				ROUND TOP PROJECT, SIERRA BLANCA, TEXAS. REPORT PREPARED FOR USA RARE EARTH LLC AND TEXAS MINERAL RESOURCE CORP, 230 P.
--	--	--	--	---

Vanadium

None

Zirconium

Commodity	Site Name	Latitude	Longitude	Citation
Zirconium	Weiler-Whitener Prospect	30.33355	-96.635	SHELBY, C.A., 1965, HEAVY MINERALS IN THE WELLBORN FORMATION, LEE AND BURLESON COUNTIES, TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATION 55, 54P.
Zirconium	Colvin Sandstone Deposit	30.50022	-96.9586	BARTLESVILLE CARD FILES
Zirconium	Baringer Hill Mine	30.77799	-98.4331	PAIGE, S., 1912, GEOLOGIC ATLAS OF THE UNITED STATES, LLANO-BURNES FOLIO, TEXAS: USGS FOLIO 183, 16 P.
Zirconium	Carter-Branch Prospect	30.29216	-96.6733	SHELBY, C.A., 1965, HEAVY MINERALS IN THE WELLBORN FORMATION, LEE AND BURLESON COUNTIES, TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATION 55, 54P.
Zirconium	Colvin Prospect	30.28855	-96.6767	SHELBY, C.A., 1965, HEAVY MINERALS IN THE WELLBORN FORMATION, LEE AND BURLESON COUNTIES, TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATION 55, 54P.
Zirconium	Yegua Creek Placer District	30.3155	-96.635	SHELBY, C.A., 1965, HEAVY MINERALS IN THE WELLBORN FORMATION, LEE AND BURLESON COUNTIES, TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATION 55, 54P.
Zirconium	Falkenburg-Blackburn Prospect	30.3155	-96.6492	SHELBY, C.A., 1965, HEAVY MINERALS IN THE WELLBORN FORMATION, LEE AND BURLESON COUNTIES, TEXAS: TEXAS BUREAU OF ECONOMIC GEOLOGY REPORT OF INVESTIGATION 55, 54P.
Zirconium	Round Top Prospect	31.276	-105.474	HULSE, D.E., MALHOTRA, D., MATTHEWS, T. AND EMANUEL, C., 2019, NI 43-101 PRELIMINARY ECONOMIC ASSESSMENT ROUND TOP PROJECT, SIERRA BLANCA, TEXAS. REPORT PREPARED FOR USA RARE EARTH LLC AND TEXAS MINERAL RESOURCE CORP, 230 P.
Zirconium	Little Round Top Prospect	31.285	-105.463	O'NEILL, L.C., ELLIOTT, B.A., AND KYLE, J.R., 2017, MINERALOGY AND CRYSTALLIZATION HISTORY OF HIGHLY DIFFERENTIATED REE-ENRICHED HYABYSSAL RHYOLITE: ROUND TOP LACCOLITH, TRANSPecos, TEXAS. MINERALOGY AND PETROLOGY, V.111, NO.4, P.569-592, HTTP://DOI.ORG/10.1007/S00710-017-0511-5 .

Project Goal 2: Develop a statewide depth to Precambrian basement map in common geospatial digital data format employing the national Geologic Map Schema (GeMS) using available seismic and drill core data

A digital map product was created and transformed/transcribed from original source data into the NGCMP Geologic Map Schema. Point files in common geospatial formats were generated as a map data product, as well as a contour and rasterized basement surface depth/elevation map for the State of Texas. Contours on the basement north and west of the Ouachita thrust front represent Mesoproterozoic igneous and metamorphic rocks and Neoproterozoic and Cambrian aulacogens, where basement contours south of the Ouachita front represent the top of the Ouachita thrust system transitioning to Gulf crust. Both, digital map (geospatial dataset download) and a published paper map product will be made available to the public through the Bureau of Economic Geology's Publications Store (<https://store.beg.utexas.edu/>). Metadata and a contract report including the data used to derive the statewide basement map, as well as a PDF copy of the basement map, will be made available to the public through the Bureau of Economic Geology's Contracted Reports public distribution website (<http://www.beg.utexas.edu/publications/contracted-reports>).

