

MINERAL RESOURCE POTENTIAL  
OIL AND GAS

There is no potential for oil and gas in the Hillsboro-San Lorenzo quadrangles. Numerous blocks faulted in the relative this Paleozoic sedimentary section have probably tilted the escape of any gas or oil.

COAL

No coal deposits are known within the Hillsboro and San Lorenzo quadrangle.

GOVERNMENT ENERGY

Hot springs in the Warm Spring Canyon area east of Hillsboro are among the extension of the Herendeel fault (NE 1/4 sec. 7, T. 8, S. R. 7, W.) but the best potential in this area is low. Hot springs in the area of the Herendeel fault are near the Herendeel fault (sec. 13, T. 8, S. R. 10, W. Dyer quadrangle) and the best potential in this area is high (Eaton, 1937, p. 78, 77).

RADIOACTIVE MINERALS

An occurrence of autinite was reported from ruff beds along Hot Springs Canyon and the maximum anomaly was about 2.07 mg/g (Data Tables, field notes, 1973). The exact location of this anomaly was not found during subsequent field studies.

NETALS

Silver

The silver-bearing base metal deposits are of probable middle Tertiary age (about 35-40 m.y. ago) and are known from the hills in the Hillsboro-San Lorenzo quadrangle. Primary veins and bedding-replacement deposits are most common in the silurian Fusulana Dolomite. They are replaced in large part by the dolomite and chert along or near the contact with the overlying Permian Percha Shale. In some areas the mineralization is associated with a low-grade thermal metamorphism (dolomite zone) along major faults. Talc, sericite, and tremolite are locally present in the higher grade zones and in some areas extensive of the Pierce Canyon fault in the Tierra Blanca district.

Table with columns: Lode No., Name(s), Resource, Type of deposit, Development category, Brief description, References. Contains detailed information about silver and other mineral resources in the Hillsboro-San Lorenzo quadrangle.

Within the Tierra Blanca district the Log Cabin (No. 41), Jophok (No. 10-11), and Silvertal (No. 74) mines are located along or near the north-trending Percha Canyon fault and the two remaining mines are in the upper part of the Percha Shale. The Log Cabin mine is in the upper part of the Percha Shale near the contact with the Percha Shale. The Silvertal mine is in the upper part of the Percha Shale near the contact with the Percha Shale. The Jophok mine is in the upper part of the Percha Shale near the contact with the Percha Shale.

Copper

The Copper Flat porphyry copper deposit is a relatively unmineralized subvolcanic stock of quartz monzonite that has intruded andesite and dacite breccias of late Cretaceous age. The quartz monzonite is composed of quartz, feldspar, biotite, and hornblende. The andesite and dacite breccias are composed of andesite and dacite. The deposit is located in the Copper Flat area, which is a relatively unmineralized subvolcanic stock.

Gold

Radial vein and dike systems about the porphyry copper type stock of Copper Flat are mineralized and gold-bearing. The veins are composed of quartz, feldspar, and biotite. The dikes are composed of andesite and dacite. The veins and dikes are mineralized and gold-bearing. The veins are composed of quartz, feldspar, and biotite. The dikes are composed of andesite and dacite.

Manganese

The manganese deposits are in the Kingsford district, where manganese oxides occur in small and large concentrations. The manganese oxides are composed of manganese dioxide and manganese hydroxide. They are located in the Kingsford district, where manganese oxides occur in small and large concentrations.

Vanadium

Vanadium was produced from several small mines in fractured and silicified dolomite in the early 1900s, south of New Mexico Highway 180 in the Hillsboro district (Anderson, 1937; Lindgren, Grant and Gordon, 1910). The principal mine in the Hill mine (No. 45) which lies west of Percha Creek and east of Hillsboro. Silver-bearing conglomerate, vanadinite, cuprite, and vanadite are also present in the Hillsboro district.

Iron

The magnetite-bearing shale deposits in the Carpenter (Waters) district are too small and scattered to be of any commercial value. The magnetite is associated with the upper part of the Blis Sandstone and is extensive but are of very low grade and are generally less than 1 percent in the Blis Sandstone.

NON-METAL

Sand, gravel, perlite and limestone  
Sand and gravel within the alluvial deposits of Middle Percha Creek have been quarried just west of Hillsboro along New Mexico State Highway 90. Other less accessible deposits of sand and gravel are found along parts of Tierra Blanca Creek and Trail Hill Canyon and along terraces of the Middle River.

Fluorapatite

The fluorapatite is chiefly confined to this fracture-fillings within the Oligocene Kneeling Run Tuff along Berchies Creek near Larkin Spring. The fluorapatite is not present in economic quantity.

MINERAL DEPOSITS OF THE HILLSBORO-SAN LORENZO QUADRANGLES

(Numbers correspond with location of lode mineral deposits on map. Leaders (---) in reference column indicate deposits not described in the literature and are chiefly occurrences observed during reconnaissance mapping. P, prospect; F, mine workings; active; M, mineralized outcrop; or development.)

Table with columns: Lode No., Name(s), Resource, Type of deposit, Development category, Brief description, References. Contains detailed information about mineral deposits in the Hillsboro-San Lorenzo quadrangle.

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