

EXHIBIT No. 5  
Case No. 12193

This is the U.S.G.S La Plata Quadrangle of New Mexico and a very small portion of Colorado.

It shows portions of Townships 31 and 32 North, Ranges 12, 13, and a narrow strip of 14 West.

The sections are about two inches square and are shown in red with the section number near the center of each section.

I have plotted all of the Fruitland Coal gas wells drilled in this area using black symbols. They are not plotted by footage, but are located in the unit letter as shown in the Division records in Aztec.

Highlighted in pink along the western edge of the quadrangle are ridge lines which I think are the results of the drainage pattern along fracture lines created by the bending of the formations by the subsidence of the San Juan Basin to the east.

Near the center of the left side of the map there is a drainage from northwest to southeast named Coalbank Canyon. There is a low-quality, two to four foot thick outcrop of sub-bituminous coal near the center of section 5 in the north-to-south tributary in the west half. This is believed to be Fruitland Coal.

The Standard Oil Company of Texas drilled the Federal 12-5 well No. 1 with a surface location of 566 feet from the South line and 1604 feet from the West line of section 5, Township 31 North, Range 13 West. The deviation survey indicated a crooked hole. The detailed survey shows the bottom of the hole to be at 874 feet from the South line and 828 feet from the West line. The well was completed as a Gallup oil well with the surface location in Unit Letter N and the bottom-hole location in Unit Letter M. It is thought that the steeply dipping formations contributed to, this crooked hole problem.

The La Plata Mine is a strip-mine operation to supply coal for a power plant at Kirtland, New Mexico, about 10 miles west of Farmington. Their main operation in this area is in the south-central portion of Township 32 North, Range 13 West east of the La Plata River. Their haul road crosses the La Plata River and New Mexico 170 near the center of section 27 then proceeds through the southeast quarter of section 28, section 33, then into Township 31 North Range 13 West across the northwest quarter of section 4, the east half of section 5, northwest quarter of section 8, and the northeast quarter and west half of section 7.