

OROCO OIL AND GAS COMPANY

McEride No. 1

Sec. 19, T. 16 S., R. 46 E.

Malheur County, Oregon

Descriptions of Well Samples*

- 0 - 500 Sandstone: Whitish, very fine silty, calcareous, friable, partly tuffaceous and medium-gray, firm siltstone interbedded.
- 500 - 1845 Shale and siltstone: Light gray, firm, calcareous layers, occasional laminae of black carbonaceous material, some gypsum, some finely micaceous siltstone, some fine tuffaceous siltstone. Gas shows 1260 to 1510. Lost circulation at 1022 and 1260 feet.
- 1845 - 1965 Tuff (?): Medium greenish gray, hard, cut by many small veins of white fibrous zeolite. Some interbedded, firm siltstone containing pyrite, some pyrite in the welded tuff. Some chlorite. Gas shows 1845 to 1860 feet. Lost circulation at 1810 feet.
- 1965 - 2115 Siltstone and silty tuff: Firm to hard, some pyrite.
- 2115 - 2280 Basalt: Dark pinkish gray and greenish, altered, with considerable amount of zeolite, some pyrite, firm to hard. Occasional bed of brick-red claystone. Portions contain a great deal of chlorite. Interbedded light-gray, firm shale and siltstone. Gas shows 2220 to 2330 feet.
- 2280 - 2342 Basalt: Black, hard, unaltered basalt.
- 2342 - 2410 Siltstone: Light gray, firm, some fine scattered mica flakes, few scattered medium grains of quartz. Lost circulation at 2381 feet.
- 2410 - 2960 Basalt: Medium gray to dark grayish-black, partly altered basalt, some zeolite and pyrite, a small amount of calcite. Interbedded light-gray, firm shale and siltstone. Gas shows 2585 to 2760 feet. Lost circulation 2380, 2700 to 2760.
- 2960 - 3000 Shale: Light gray, silty, fine.

 *By V.C. Newton, Jr., Petroleum Engineer, State of Oregon Department of Geology and Mineral Industries.

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- 3000 - 3548 Basalt: Medium gray to grayish dull black, with zeolite, partly altered, firm to hard, with numerous interbeds of light- to medium-gray shale and siltstone. Lost circulation 3380, 3520.
- 3548 - 4065 Basalt: Grayish black, hard, dense, microcrystalline; some zeolite and quartz veining. Some interbeds of gray shale and red claystone.
- 4065 - 4293 Basalt: Dull black, partly altered, zeolite, firm to hard. Some interbeds of siltstone.
- 4293 - 4376 Shale and siltstone: Light to medium gray, firm to hard with some intercalated weathered grayish-black zeolitized basalt.
- 4376 - 4392 Cored - Basalt: Medium to dark gray, altered, firm to soft basalt cut by many criss-crossing veinlets of zeolite; some calcite.
- 4392 - 4506 Basalt: As above.

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