

File

EUREKA ENERGY COMPANY

A SUBSIDIARY OF PACIFIC GAS AND ELECTRIC COMPANY

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December 18, 1979

Mr. Tom Suchoski
Hydrologist
Division of Oil Gas and Mining
1588 West North Temple
Salt Lake City, Ut 84116

DIVISION OF
OIL GAS & MINING

DEC 19 1979

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Dear Tom:

The perforating in the five test wells that was planned to be done this fall has been completed and the monitoring of water levels have been started. Some of the wells were not perforated at the exact zones listed in the November 6, 1979 memorandum for various reasons cited below. The perforations are, however, in the geologic formation selected to be tested at the given well.

The perforated zones, in depth below the land surface, are as follows:

Well 5-1. Perforated four holes per foot at the Sunnyside coal, depth 1556-1567 feet and at the Rock Canyon coal, depth 1701-1712 feet, for total of 88 holes. The Gilson coal, depth 1754-1761 feet was not perforated because the well is plugged below 1,748 feet. All zones are in the Blackhawk Formation.

Well 10-2. Perforated as planned at 1400-1650 feet, one hole per foot, for a total of 250 holes in the middle part of the Castlegate Sandstone Member of the Price River Formation.

Well 11-2. Perforated as planned at 1200-1375 feet, one hole per foot, for a total of 175 holes in the upper one-third of the Price River Formation.

Well 19-1. Perforated two holes per foot at 400-410 feet and at 680-690 feet, for a total of 40 holes at the North Horn Formation. The well was not perforated at 210-230 feet because the well bore was poorly cemented above 400 feet, the purpose of the upper holes was to monitor perched ground water, but any perched water would flow down the open bore rather than enter the casing. Therefore, the upper set of holes were placed

a short distance above the uppermost completely cemented zone.

Well 24-1. Perforated one hole per foot at 1105-1205 feet for a total of 100 holes at the lower half of the Castlegate Sandstone. The perforated zone was moved down five feet from the planned zone because of poor bore hole cementation at 1100 feet.

Water levels have been measured on two dates at each well, the first date was one day after the last well was perforated and the second date was 15 days later. All wells had water in them at the time that they were perforated. This fluid began draining out of the wells when the perforations were made and apparently was still draining when the last measurements were made. For this reason, the static levels were still uncertain on December 12, 1979. It is planned that the water levels in the wells will be measured at approximate monthly intervals.

All available water level data are listed in the following table:

Water Levels Below Land Surface, feet

Method or source of measurement: A, reported by Oil Well Perforators, Inc., B, measured with an electric tape, C, measured with a steel tape.

Well	Elevation of land surface	Fluid level Prior to Perforating	Date Well was Perforated	Depth to Water Level	
				Nov.27, 1979	Dec.12, 1979
5-1	7186	120 A	11/26/79	139.90 B	159.84 C
10-2	7727	0 A	11/23/79	348.44 B	640.62 C
11-2	8204	310 A	11/24/79	---	1121.65 B
19-1	8254	200 A	11/16/79	304.78 B	311.85 C
24-1	8416	565 A	11/16/79	759.75 B	895.72 B

Sincerely yours,

Reed W Mower

Reed W. Mower
Hydrologist

cc John C. Osmond, PGandE
Kidd Waddell, U.S.G.S.

RWM:de