



GEOLOGICAL REPORT

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OCT 3 1975

GOLD OIL & GAS CONS. COMM.

OPERATOR: Gower Oil Company

WELL: #1 Luft-Pauling

LOCATION: NE SE Sec. 31-9N-54W (600' FNL, 600' FEL of SE $\frac{1}{4}$ )  
Logan County, Colorado

ELEVATION: 4342' Ground, 4353' KB

CONTRACTOR: Exeter Drilling Northern

COMMENCED: September 24, 1975

COMPLETED: September 28, 1975. Plugged and abandoned.

TOTAL DEPTH: 5350' Driller, 5336' Schlumberger

CASING: Surface casing 8-5/8" set at 112' KB with 115 sacks cement.

HOLE SIZE: 7-7/8" from under surface casing to total depth.

CORES: None

DRILLSTEM TESTS: None

LOGGING SERVICES: Schlumberger Induction-Electric Log from base of surface casing to TD  
& Compensated Formation Density Log from 5080'-5333'.

PLUGGING PROCEDURE: Iron pipe marker  
Top surface casing 10 sacks  
Base surface casing 15 sacks

FORMATION TOPS: D sand 5188'  
J sand 5285'

SCHLUMBERGER LOG CALCULATIONS:

<u>DEPTH</u>	<u>RIL</u>	<u>Rw</u>	<u>% POR.</u>	<u>% WATER</u>
5292-96	9	0.2	6	100
5296	14	0.2	9	100
5300-03	31	0.2	5	100
5303-06	10	0.2	10	100
5306-10	4	0.2	7	100

LITHOLOGY:

DESCRIPTIONS ARE NOT ADJUSTED TO LOG.

5100-5180 Shale, medium gray with traces of bentonite, light gray, and pyrite.

5180-5210 Shale and bentonite as above with a trace of sandstone, light gray, very fine grained, soft, tight, clay-filled, no show or fluorescence, very slow pale yellow cut.

5210-5240 Abundant sandstone, white, fine-grained, 100% quartz, some pieces clay-filled, no show or fluorescence, very slow pale yellow cut.

5240-5300 Shale, medium gray with some loose sand grains and occasional pyrite.

5300-5320 Abundant sandstone, light gray, fine-grained, quartz with a few black accessory minerals, a few pieces appear slightly stained, light yellow fluorescence, pale yellow cut.

5320-5340 Shale, medium gray, with some sandstone, as above.

5340-5350 Sandstone, white, fine-to-medium-grained, 100% quartz, soft, good porosity and permeability, no stain, fluorescence or cut.