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(275 - 2589)

SAMPLE DESCRIPTIONS

For sample descriptions and drilling time see attached logs.

CORING TIME

Interval 4521-51'; Interval corrected to fit Schlumberger measurements.
Coring time in minutes/feet:

4521-31	3, 11, 8, 3, 6, 9, 10, 13, 17, 14
4531-41	13, 10, 13, 13, 17, 20, 23, 29, 21, 18
4541-51	19, 22, 21, 13, 28, 23, 24, 33, 23, 22

CORES AND DRILL STEM TESTS

(All intervals corrected to fit Schlumberger measurements.)

Core #1 - 4521-4551' - Cut 30' - Recovered 30'

- 14' siltstone, reworked and thinly interbedded with black, carbonaceous shale, contains many fossils and carbonaceous inclusions.
- 3' shale, black, carbonaceous, poker chipped with scattered thin shale streaks.
- 3 1/2' sandstone, gray white, fine grained, friable, appears porous, wet, no shows. Top 6" very fossiliferous, vertical fractures.
- 7 1/2' shale, black, poker chipped, silty.

There were no drill stem tests run on the subject test.

BIT RECORD

1)	7 7/8	H.T.C.	OSC-3	160-2640	2480'
2)	7 7/8	Smith	DT	2640-3972	1332'
3)	7 7/8	C.P.	ESIC	3972-4518	346'
4)	7 7/8	H.T.C.	OW	4518-4700	182'
1)	6 1/8	Chris.	Circle	4518-4548	30'

REMARKS

The subject test was drilled as a direct west 40 acre offset to the Glen Perkins Oil, Inc. #1 Smart, a "D" sand gas producer, with "J" sand gas behind the pipe. The top of the "D" sand was encountered at a structural position very close to that anticipated.



00605501

GEOLOGIC REPORT

Glen Perkins Oil, Inc.
91A State

C NE NW Sec. 21-6N-53W
Him Grove Pool
Logan County, Colorado

MISCELLANEOUS DATA

Elevation: 4040 Gr., 4048 K.B.
Contractor: Lewis Bros., Inc., Denver, Colorado
Spud Date: October 1, 1959
Casing: Set 8 5/8" @ 170 K. B. w/125 sz. 2% Ca.Cl.
Completed: BMA October 6, 1959

FORMATION TOPS (Electric Log)

Niobrara	3712
Ft. Hays	4026
Carlile	4067
Greenhorn	4248
Dakota "B" sand	4367 (-459)
Dakota "J" sand	4398 (-530)
Total Depth - Driller	4700
Total Depth - Schlumberger	4703

The upper portion of the "D" sand section was purposely drilled and a core taken from approximately 14' in. This core found mostly reworked sand and shale, with one porous water-bearing sand section in the lower portion. This sand is apparently not correlative with the producing sands to the east and north.

The "F" sand section was drilled in the subject test and samples from this section examined under the microscope. Some scattered shales were noted between the interval 4653 and 4670'. This interval would probably lag back to the top of the massive zone indicated on the electric log. These shales were in only scattered clusters of sand and probably from a thin zone.

After the induction log was run, this zone was considered carefully and because of the low resistivity, it was interpreted as water-bearing.

Since the log indicated that there were no questionable zones, it was recommended that the test be abandoned.

Respectfully submitted,

Lee A. Lair

Lee A. Lair, Geologist

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