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COLO. OIL & GAS CONS. COMM.



APR 23 1981

LeClair-Westwood, Inc.

WELL DATA

OPERATOR: Terra Marine Energy Company
1400 Security Life Building
Denver, Colorado 80202

WELL: #1 Cole

LOCATION: SW 1/4 SE 1/4 Section 15
T9N R55W
Logan County, Colorado

ELEVATION: 4415' Ground
4424' KB

CONTRACTOR: Toltek Drilling Company
Rig #4
John Hanneman, Toolpusher

MUD: Western Mud Company
Dana Thomas, Engineer

LOGS: Schlumberger I-SFL & FDC-CNL-GR
Gary Slizeski, Engineer

DRILLSTEM TEST: Liberty Testers
Tom Michel, Technician

STATUS: Dry and Abandoned
March 11, 1981

MICHAEL S. WEBSTER
P. O. BOX 1381
EVERGREEN, COLO. 80439

WELL HISTORY

| <u>Date</u> | <u>Depth</u> | <u>Activity</u> | <u>Footage Made</u> | <u>Remarks</u> |
|-------------|--------------|-----------------|---------------------|---|
| 3-4-81 | -- | MIRU | -- | Ran 2 jts. (87') 8 5/8" 24# surf. csg. set @ 98' KB w/135 sx. Plug down @ 4:30 P.M. |
| 3-5-81 | 1107' | Drilling | 1107' | Drilled out @ 11:15 P.M. |
| 3-6-81 | 3169' | Trip | 2062' | |
| 3-7-81 | 3745' | Drilling | 576' | SLM @ 9940', 1.75' correction. |
| 3-8-81 | 5300' | Drilling | 555' | |
| 3-9-81 | 5495' | Drilling | 195' | |
| 3-10-81 | 5600' | Circ. for logs | 105' | TD @ 4:00 A.M., log @ 10:30 A.M. Finish logs @ 2:00 P.M. On bottom w/DST @ 10:00 P.M. |
| 3-11-81 | 5600' | Prep to P & A | -- | |

BIT RECORD

| <u>Run</u> | <u>Size</u> | <u>Make</u> | <u>Type</u> | <u>Depth Out</u> | <u>Footage Made</u> | <u>Hours</u> |
|------------|-------------|-------------|-------------|------------------|---------------------|--------------|
| 1 | 7 7/8 | Reed | OSCIG | 3169' | 3069' | 22 1/2 |
| 2 | 7 7/8 | Smith | DTJ | 4940' | 1771' | 24 3/4 |
| 3 | 7 7/8 | Hughes | F-2 | 5530' | 590' | 28 |
| 4 | 7 7/8 | Smith | J-2 | 5600' | 70' | 4 1/2 |
| | | | | | | 79 3/4 |

15-9N-550³

FORMATION TOPS

| <u>Formation</u> | <u>Log Top</u> | <u>Datum</u> |
|------------------|----------------|--------------|
| Niobrara | 4583' | - 159' |
| Carlile | 4961' | - 482' |
| Greenhorn | 5147' | - 723' |
| Bentonite | 5309' | - 885' |
| D Sand | 5406' | - 982' |
| J Sand | 5521' | -1097' |
| Total Depth | 5607' | |

DRILLSTEM TEST

DST #1 5406-5412 D-1 Sand Straddle Test

Open 15", Shut in 30", Open 90", Shut in 60"

Recovered: 1200 water--Rw = 1.10 @ 600 (6500 PPM)

Sampler: 2000 cc water--Rw as above

H.P. 2539#--2504#
1st F.P. 71 -- 213
2nd F.P. 285 -- 569
SIP 1311 --1311
BHT 1380

PLUGGING PROGRAM

Verbal plugging orders received from Mr. Doug Rogers, Director, Colorado Oil and Gas Conservation Commission, at 7:45 A. M., March 11, 1981. Hole was plugged as follows:

10 sacks @ surface
15 sacks base of surface casing, 1/2 in--1/2 out

SAMPLE DESCRIPTION

Adjusted to log depths; quality: fair to good

Niobrara

- 4583-4750 Limestone, mottled tan gray, blocky, medium hard, extremely argillaceous, no visible porosity, no show.
- 4750-4904 Shale, mottled gray to tan, very calcareous, blocky, no porosity, no show.

Fort Hayes

- 4904-4954 Limestone, light gray to cream, sub-lithographic, dense, no visible porosity, no show.

Greenhorn

- 5147-5156 Limestone, brown, fossiliferous (INOCERAMUS) argillaceous, no porosity, no show.

D Sand

- 5406-5415 Sand, medium to light gray, medium fine grained, subangular, medium friable, non-calcareous, fair to well sorted, fair porosity, no show.
- 5415-5432 Sand, medium gray, medium fine grained, fair sorted, part with moderate clay fill, fair porosity, trace with pale spotty fluorescence, very weak milky cut, rest with no show.
- 5432-5448 Sand, gray, very fine grained, clay filled, poor sorted, no porosity, no show.

J Sand

- 5521-5541 Sand, gray, very fine grained, very dirty, poor sorted, clay filled, subangular, no visible porosity, no shows.
- 5541-5565 Sand, medium to light gray, medium fine grained, fair to well sorted, clean, fair porosity, trace with pale spotty fluorescence, very weak cut, rest with no show.
- 5565-5580 Sand, gray, medium grained, part coarse grained, subround, partially clay filled, good porosity, no show.

GEOLOGICAL DISCUSSION

The #1 Cole was drilled to evaluate the D and J Sands. Structurally, the test ran somewhat lower than expected. Slight sample shows were observed in the D-2 and J-3 Sands.

The D-1 Sand, based on log analysis, was tested and gave up 1200 water. Based on the negative evidence, it was elected to plug the test.

Michael S. Webster