

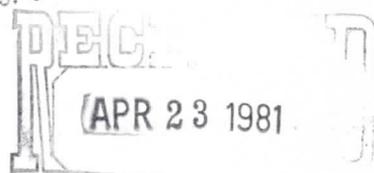


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COLO. OIL & GAS CONS. COMM.



WELL DATA

LeClair-Westwood, Inc.

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. csq. 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
						<u>79 3/4</u>

15-9N-550<sup>3</sup>

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 @ 60° (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 138°

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.

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Michael S. Webster