

WILLIAM D. KENDALL

1136 Republic Bldg.
1612 Tremont Place



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PETROLEUM GEOLOGIST

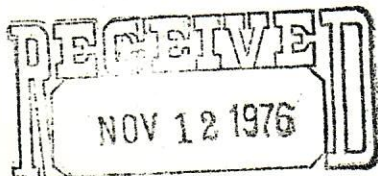
Denver, Colorado 80202

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Phone Area Code 303
Office 303-572-3654
Residence 303-986-2845

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LeClair-Westwood, Inc./

GEOLOGIC REPORT

SCANNED

TOLTEK DRILLING & LeCLAIR-WESTWOOD
#1 Ambrose-Cunningham
Morgan Co., Colorado

LOCATION: SW NW Section 6, T 2 N, R 58 W

ELEVATION: 4485 GL 4495 KB

CONTRACTOR: Toltek Drilling Co. - Rig #3
Toolpusher - Herb Simonds

SPUD: October 21, 1976.

SURFACE CASING: 118' of 8 5/8" set @ 129' KB and cemented with
100 sacks cement, 2.4% calcium chloride. Light returns.

COMPLETED DRILLING: October 25, 1976.

TOTAL DEPTH: 6035 Driller 6017 Dresser Atlas

WELL HISTORY: (As of 8:00 AM MDT)
10-21 Prep to spud.
10-22 Drilling 706'.
10-23 Drilling 3463'.
10-24 Drilling 5132'.
10-25 Tripping 5933'.
10-26 Prep to run DST #1.
10-27 Running DST #2.
10-28 Plugged and abandoned.

PLUGGING REPORT: Verbal permission to plug obtained by Herb Simonds
from the Colorado Oil and Gas Commission.

15 sacks cement in bottom of surface pipe.
10 sacks cement in top of surface pipe.

BIT RECORD: #1 Reed 4-11 129-3178 3049' 18½ hours
#2 Smith DTJ 3178-5132 1954' 20½ hours
#3 Smith DTJ 5132-5933 801' 19 hours
#4 Hughes OSC1GJ 5933-6035 102' 7½ hours

CORES: None

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DRILL STEM TESTS: DST #1 5882-5895 (Straddle)

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Open 10 min, shutin 60 min, open 120 min, shutin 60 min.
Weak blow throughout.

Rec.: 120' Oil gas and mud cut water
309' drilling mud (Prob. from leaking tool joint)

IHP	3025	FHP	2990
1st IFP	56	1st FFP	56
2nd IFP	113	2nd FFP	215
ISIP	1134	FSIP	1020

Sampler Pressure 110#

Sampler Recovery .2 cu ft gas
1400 cc sli oil and gas cut muddy
water

DST #2 5949-5956 (Straddle)

Open 25 min, shutin 60 min, open 120 min, shutin 60 min.
Weak blow increasing slightly throughout test.

Rec.: 360' slightly water cut mud.
120' muddy water.

IHP	3074	FHP	2961
1st IFP	80	1st FFP	144
2nd IFP	112	2nd FFP	144
ISIP	1439	FSIP	1152

Sampler Pressure 40#

Sampler Recovery 700 cc mud cut water

LOG TOPS:

Niobrara	5131	- 636
Fort Hays	5432	- 937
Carlile	5473	- 978
Greenhorn	5691	-1196
Bentonite	5773	-1278
"D" Sand	5870	-1375
"J" Sand	5948	-1453

SAMPLE DESCRIPTION: Adjusted to electric log control

- 5131-5432 Niobrara. Lite gray to grayish brown, "speckled", very shaly lime. Specks are fine to medium lime nodules. Some beds bentonite and gray bentonitic shale.
- 5432-5473 Fort Hays. White to gray, very shaly, amorphous marlstone.
- 5473-5691 Carlile. Gray shale with some gray sandy and limy shale.
- 5691-5725 Greenhorn. Lite gray to brown, shaly, silty, fine xln to amorphous limestone.

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- 5725-5870 Gray splintery shale with beds of bentonite.
- 5870-5898 "D" Sand. None seen in samples. Samples were bagged; however, I believe they were caught from the shale zone above and not caught through the "D" Sand.
- 5898-5942 Gray shale with beds of hard, gray, pyritic siltstone at bottom.
- 5942-6035 "J" Sand. Top 8' is a gray, fine, hard, glauconitic sand with a trace (one cluster) of stain and fluorescence and a trace of porosity. Rest of sand is white, fine to very fine, clayfilled sand.

DISCUSSION:

Log interpretation and the drill stem tests indicate both the "D" and "J" sands are too tight to produce. Structurally, the well did run about as expected. It is higher than the wells that previously produced.

Respectfully submitted,



William D. Kendall

