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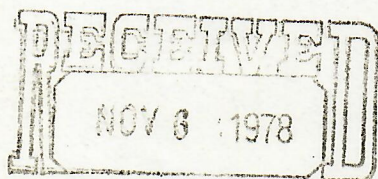
COLO. OIL & GAS CONS. COMM.

GEOLOGICAL REPORT

LeClair-Westwood
#1 State-Laurance
C SE NE Section 1-T8N-R51W
Logan County, Colorado

DVR	
FJP	
HHM	✓
JAM	✓
JJD	✓
RWS	
CGM	

By: Robert Dahlgren
Consulting Geologist



LeClair-Westwood, Inc.



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WELL DATA SUMMARY

Operator: LeClair-Westwood

Well: #1 State-Laurance

Location: C SE NE Section 1-T8N-R51W
Logan County, Colorado

Elevation: 4118 GL, 4125 KB

Spudded: 10-25-78

Completed: 10-29-78

Total Depth: 4520' Driller, 4522' Logger

Casing: 1. Ran 3 jts 24# 8-5/8", 118', set at 125' KB
with 100 sacks class G reg. cement containing
3% calcium chloride.

Cores: None

Dst's: None

Hole Size: 7-7/8"

Rig Type: U-34, double derrick

Contractor: Megargel Drilling Co.

Pusher: Gerry Pelley

Mud: Gel & chemicals

Status: D & A, 20 sacks of cement in bottom of surface pipe,
10 sacks in the top. Hole full of heavy mud as per
instructions from Mr. Frank Piro of the Colorado
Oil and Gas Conservation Commission.

CHRONOLOGICAL SUMMARY

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10-24-78 Move in.
10-25-78 Rig up, spud, set surface and cemented, plug down 8:30 PM.
10-26-78 Drilling at 850' 7:00 AM, W.O.C. until 2:30 AM, drilled out.
10-27-78 Drilling 3565', 7:00 AM, mud up, trip for bit #2, strap pipe, made 5' down hole correction.
10-28-78 Drilling 4183' at 7:00 AM, lost circ., regained.
10-29-78 Drilling 4487' at 7:00 AM, 4454' at 11:00 PM, circ. for samples until 12:00 PM, trip for bit #3, on bottom drilling 4:30 AM, reached TD 4520' at 12:00 AM, circ. for logs until 1:00 AM, trip out for logs, on bank at 3:00 PM, log wouldn't go below 500', went in with bit on approx. 15 stands and worked pipe and circulated, log went to bottom on second attempt, finished logging 7:00 PM, obtained plugging orders and laid down drill pipe.

BIT RECORD

<u>BIT NO.</u>	<u>MAKE</u>	<u>SIZE</u>	<u>TYPE</u>	<u>DEPTH OUT</u>	<u>FTGE.</u>	<u>HOURS</u>
1	Reed	7-7/8"	Y11J	4035'	3897'	34
2	Smith	7-7/8"	DT	4454'	419'	20 $\frac{1}{4}$
3	Security	7-7/8"	SLT	4520'	66'	8 $\frac{1}{4}$

DEVIATION

<u>DEPTH</u>	<u>DRIFT</u>
138'	0°
4035'	3/4°
4454'	1 $\frac{1}{4}$ °

DRESSER ATLAS FORMATION TOPS

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>
Niobrara	3511'	+614'
Fort Hays	3850'	+275'
Codell	3890'	+235'
Carlile	3897'	+228'
Greenhorn	4133'	-008'
"X" Bentonite	4250'	-125'
"D" Sand	4340'	-215'
"J" Sand	4443'	-318'
Total Depth	4522'	



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SAMPLE DESCRIPTIONS

COLO. OIL & GAS CONS. COMMISSION

Ditch samples were collected and examined, under the ultra-violet light and a binocular microscope, for reservoir quality, identification, and indications of oil and gas. Thirty foot samples were collected from 3350' to 4340', and five foot samples from 4340' to 4520' Total Depth. Sample depths are adjusted to correspond with electrical log measurements.

3350 - 3510'	Shale, dark gray.
3510 - 3850'	Shale, lt. gray, speckled, calc., no shows.
3850 - 3890'	LS., wht., dns., no shows.
3890 - 3895'	Sdst., gray, vfg, speckled, glauc., cf., shly., no shows.
3895 - 4130'	Shale, dark gray.
4130 - 4140'	LS., brn., m.xln., no vis. poro., no shows.
4140 - 4340'	Shale, dark gray, siltst., dark gray, few thin bent. beds.
4340 - 4345'	Sdst., tan-gray, mg., sr., cln., vis. poro., appears stnd., bright yellow fl., good cut after crushing.
4345 - 4365'	Sdst., gray, fg., shly., cf., no vis. poro., no shows.
4365 - 4375'	Sdst., tan-wht., mg., fg., sr., cln., vis. poro., appears stnd., one frag w/bright yellow fl., sli cut.
4375 - 4390'	Sdst., gray, fg., shly., cf., no vis. poro., no shows.
4390 - 4440'	Shale, dk. gray.
4440 - 4460'	Sdst., wht-brn., fg., mg., cf., shly., no vis. poro., no shows.
4460 - 4475'	Sdst., wht., mg., sr., cln., low to fair vis. poro., no shows.
4475 - 4490'	Sdst., wht., fg., cf., no vis. poro., no shows.
4490 - 4520'	Sh., dk. gr., siltst., dk. gr..

REMARKS

Because of low structural position and inadequate sample or electric log shows, the LeClair-Westwood #1 State-Laurance was plugged and abandoned in accordance with regulations of the Colorado Oil and Gas Conservation Commission.

Robert M. Dahlgren
Robert M. Dahlgren (by pkm)