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COLO. OIL & GAS CONS. COMM.

MACEY & MERSHON OIL INC.

LINNEBUR #1

SW SE SEC. 6, T3S, R60W

ADAMS COUNTY, COLORADO

WELL DATA

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GAS/SAMPLE LOG

T. M. McCoy
Consulting Geologist

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WELL DATA

OPERATOR: Macey & Merhson Oil Inc.

WELL NAME: Linnebur #1

LOCATION: 660' fsl, 1980' fel
SW SE Sec. 6, T3S, R60W
Adams County, Colorado

FIELD: Wildcat

ROAD DIRECTIONS: From the intersection of Interstate 70 and
U.S. Highway 36 at Byers: N and E 2.5 miles
on U.S. Highway 36; N 5.0 miles on Adams
County Road 46N (road to Hoyt); E 2.7 miles
on Adams County Road 64; N 0.1 mile to location.

CONTRACTOR: Exeter Drilling Northern
Rig 2
Toolpusher: Bill Haverluk

SPUD: 19 July 1980, 3:00 pm

CASING: 8 5/8" 24# set at 405' KB with 400 sx regular
cement, 3% CaCl₂.

WELLSITE GEOLOGIST: Tim McCoy

DRILL STEM TESTS: None

CORES: None

LOGS: Schlumberger
Induction-SFL: 405' - 6643'
Formation Density Log: 3550' - 4050'
5550' - 6645'
Engineer: Dennis Bicknell

DRILLING COMPLETED: 25 July 1980, 6:30 am

TOTAL DEPTH: 6650' Driller, 6649' Schlumberger

WELL STATUS: Plugged and abandoned: 20 sx cement at base
of surface casing, 1/2 below and 1/2 above shoe;
10 sx cement at top of surface casing; surface
casing to be cut off 3' below ground with a
cap welded on.

OPERATOR REPRESENTATIVE: Ken Ibsen

DVR	
FJP	
HHM	
JAM	
JJD	
RLS	
CGM	

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DAILY REPORTS

Daily reports were prepared from tour sheets. Depths are at start of morning tour.

Day	Date		
1	7-19	0'	Rig up. Drill 12 1/4" surface hole to 405'. Run 9 joints 8 5/8" 24# casing set at 405' KB and cemented with 400 sx regular, 3% CaCl ₂ , with good returns. Wait on cement.
2	7-20	405'	Wait on cement (total 7 hours) and nipple up, drill mousehole. Drill. Pull 5 stands for hole in pipe. Drill.
3	7-21	3240'	Drill. Trip for bit #2. Survey 1 degree. Wash 90' to bottom. Drill.
4	7-22	5089'	Drill. Trip for bit #3. Wash 25th and 26th stands in. Wash and ream 200' to bottom. Drill.
5	7-23	6010'	Drill. Circulate samples 1 hour. Change hydromatic 1/2 hour. Trip for bit #4. Strap out: 6427' became 6443' (16' correction). Drill.
6	7-24	6458'	Drill. Circulate samples 3/4 hour. Drill. Trip for bit #5. Drill.
7	7-25	6650'	Drill. Circulate 1/2 hour. Short trip 1/2 hour. Circulate 1 1/4 hours. Trip out for logs. Schlumberger logging 3 hours. Lay down drill collars. Trip in. Lay down drill pipe.
8	7-26	6650'	Lay down drill pipe. Plug well: 20 sx at base of surface casing; 10 sx at top. Rig released 2:30 am.

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MUD RECORD

Drilled with water/native mud to 6109'; then ran fresh gel mud.

Day	Date	Depth	Weight	Viscosity	pH	Filtrate	Daily Cost	Cumulative
5	7-23	6344'	9.3	40	9.0	4.8	----	----
6	7-24	6511'	9.4	70	9.0	4.4	----	----
7	7-25	6650'	9.6	135	9.0	4.4	----	----

Note: Weight (lb./gal.)
Viscosity (sec./qt.)
Filtrate (cc in 30 min.)

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BIT RECORD

Bit No.	Size	Make	Type	Depth Out	Footage	Hours	Remarks
1	7 7/8	HTC	OSC-3J	3552'	3142'	19 1/4	
2	7 7/8	Sec	S33	5608'	2056'	26 3/4	See Note
3	7 7/8	HTC	J-2	6443'	835'	25 1/4	"
4	7 7/8	Reed	FP62	6511'	68'	10	
5	7 7/8	HTC	J-44	6650'	139'	19 1/2	

Bit No.	Wt. (1000 lbs.)	RPM	Pump Pressure (lbs.)
1	35	180	1250
2	38	120	1300
3	38	90/50	1275
4	35	60	1250
5	35	50/60	1350

Note: A strap correction was made at trip for bit #4 (6427' became 6443')...
This correction was also carried back to bit #2 (5592' became 5608')..

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DEVIATIONS

Depth	Degree
3552'	1 ---
5592'	Misrun
6427'	3/4
6650'	-----

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DRILLING CURVE

Depth

0'

1000'

2000'

3000'

4000'

5000'

6000'

7000'

1

2

3

4

5

6

7

Days

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FORMATION TOPS

Formation	Sample Top	Log Top	Datum (MSL)
Pierre Shale	-----	476'	+4500'
Niobrara Fm.	5600' approx.	5593'	-617'
Fort Hays (Timpas) Ls.	6006' approx.	6000'	-1024'
Carlile Shale	6036'	6038'	-1062'
Greenhorn Fm.	-----	6104'	-1128'
X Bentonite (Graneros Fm.)	-----	6339'	-1362'
D Sandstone	6439'	6439'	-1463'
Huntsman Shale	6460'	6458'	-1482'
J "Silt"	-----	6486'	-1510'
J Sandstone	6490'	6492'	-1516'
Skull Creek Shale	6532'	6534'	-1558'

Remarks regarding sample tops: Niobrara and Fort Hays picks were based solely on lithology; no drill breaks were observed. Carlile and Huntsman picks were based mainly on a detailed plot of drill rate, as was the Skull Creek. The D and J were evident both in samples and in their drill rate.

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SUMMARY OF SHOWS

NONE. No oil stain, cut or fluorescence was observed, nor was it felt that any significant gas shows were recorded on the hot-wire unit. See attached gas/sample log for hot-wire results and sample descriptions.

REMARKS

Samples were delivered to American Stratigraphic Co., Denver, Colorado, with the provision that Sohio as well as Macey & Mershon Oil Inc. have free access thereto.

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WELLSITE NOTES

Samples are lagged. These sample descriptions are summarized on the gas/sample log.

- 5435 - 5466 100% Shale, dark gray; soft; silty to sandy in part; earthy texture; non- to slightly calcareous.
Tr Inoceramid prisms.
Tr Micrite, brown.
Tr Sandstone, very fine grained; light to medium gray; dirty; some slightly glauconitic.
- 5466 - 5482 As above.
- 5482 - 5510 As above.
Tr Bentonite, white, some gold flecked; spongy.
- 5510 - 5608 As above.
Tr Shale, dark gray with tan specks; highly calcareous: Niobrara.
- 5608 - 5615 40% Shale, medium to dark gray; slightly brownish in part; with light tan specks very common; firm to medium hard; highly calcareous: Niobrara (Kn).
60% Shale, as above: Pierre (Kp).
- 5615 - 5636 60% Shale, still highly calcareous with brown filmy residue in acid: Kn.
40% Shale, Kp.
Tr Pyrite.
- 5636 - 5666 70% Kn.
30% Kp.
- 5666 - 5700 As above. Kn varies from calcareous, dark gray shale, slightly speckled to light tan mottled chalk with minute irregular dark gray laminae.
- 5700 - 5730 As above.
- 5730 - 5764 As above.
- 5764 - 5780 70% Shale, dark gray mainly, speckled light and medium tan; highly calcareous.
29% Shale, Kp.
1% Bentonite.
- 5780 - 5796 60% Shale, Kn.
39% Shale, Kp and Kn, not speckled.
1% Bentonite.

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5796 - 5824 40% Shale, speckled.
60% Shale, non-speckled, dark gray.
Tr Calcite.
Tr Bentonite.

5824 - 5840 60% Shale, dark gray, speckled.
40% Shale, dark gray, non-speckled.
Tr Pyrite.

5840 - 5860 As above. Sample as whole is still highly calcareous.

5860 - 5896 As above.

5896 - 5922 As above, with an increase in medium to light tan chalk,
shaly.

5922 - 5946 40% Shale, speckled, less chalky.
60% Shale, non-speckled.

5946 - 5960 20% Shale, speckled.
80% Shale, non-speckled.

5960 - 5982 100% Shale, dark gray; smooth; less calcareous.
Tr Sandstone, dirty.

5982 - 6000 100% Shale, dark gray mostly; virtually no speckled shale;
only moderately calcareous.
Tr Sandstone, very fine grained; medium gray; very dirty;
laminated with shale.

6000 - 6014 As above, with
Tr Limestone, white, as below.

6014 - 6028 10% Limestone, white; sublithographic; micro fossils, spherical,
gives faintly dotted appearance in part; moderately hard,
dense. NO SHOW. Fort Hays Limestone (Timpas).
90% Shale, as above.

6028 - 6048 90% Shale, dark gray, as above, but only slightly calcareous.
10% Shale, medium gray; very sandy grading to:
Sandstone, very fine to fine grained; medium gray;
extremely shaly; very soft. NO SHOW. Carlile.

6048 - 6066 As above, less sandstone.

6066 - 6096 100% Shale, medium to dark gray; moderately calcareous as whole;
much is silty to sandy.

6096 - 6132 As above. Somewhat more gritty texture to shale.

6132 - 6146 As above.

6146 - 6166 As above.

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6166 - 6180 As above.

6180 - 6204 5% Limestone, medium tan to light gray; dense, earthy texture.
95% Shale, dark gray, as above.

6204 - 6220 100% Shale, dark gray.
Tr Sandstone, medium gray; fine grained; very dirty.

6220 - 6242 As above. Sample as whole slightly more calcareous.

6242 - 6264 As above.
Tr Micrite, tan; earthy; dense.

6264 - 6288 100% Shale, very dark gray, with brownish cast and black splotches; quite calcareous.
Tr Limestone, white, tan; some is shaly, sandy (especially tan).

6288 - 6300 97% Shale, dark gray; some with brownish cast; some gritty (more calcareous); some smooth to silty/sandy (less calcareous).
3% Limestone, earthy to fine crystalline; shaly to silty to sandy (very fine grained); light tan; relatively soft; laminated with dark gray shale; some laminated with inoceramid prisms.

6300 - 6322 95% Shale, as above.
5% Limestone, as above.

6322 - 6342 98% Shale, as above.
2% Limestone, as above.

6342 - 6358 100% Shale.

6358 - 6380 100% Shale.

6380 - 6388 60% Shale, medium gray; soft to firm (probably water sensitive); very silty to sandy (very fine grained); non-calcareous.
40% Shale, dark gray, generally as above.
Tr Sandstone, very fine grained; medium gray to some off white; tight; laminated.

6388 - 6398 As above.

6398 - 6440 As above, but
Tr Sandstone, as below; D Sandstone.

6440 - 6444 5% Sandstone, fine grained (lower); subangular; white; clean but tight (silica cement probably, non-calcareous); some with white clay fill; medium hard to very hard; well sorted; poor porosity; not peppered; not glauconitic; trace is

- interbedded with paper thin dark shale. NO SHOW. D Sandstone.
95% Shale, as above.
- 6444 - 6446 1% Sandstone, white, as above.
1% Sandstone, very fine grained; light gray to tan; silty;
quite calcareous; hard.
98% Shale, medium to dark gray; smooth to very sandy.
- 6446 - 6452 As above. Much shale is medium gray; very sandy; soft.
Tr Bentonite, blue green, gold flecked.
- 6452 - 6456 3% Sandstone, fine grained; white; tight; some is interbedded
with dark gray shale.
2% Sandstone, fine grained; medium dark gray; silty, shaly;
hard; non-calcareous.
95% Shale, medium to dark gray.
- 6456 - 6458 97% Shale, as above.
3% Sandstone, very fine to fine grained; tight; some is
clay filled.
Tr Sandstone, very fine grained; light gray; silty.
- 6458 - 6464 As above.
Tr Shale, medium dark brown; very hard; non-calcareous.
- 6464 - 6470 3% Sandstone, very fine to fine grained; very poor to some
fair porosity.
97% Shale, dark gray; non- to slightly calcareous; firm;
most is smooth.
Tr Pyrite.
Tr Claystone, light green; pyritic; bentonitic.
- 6470 - 6478 2% Sandstone, as above.
98% Shale, as above.
- 6478 - 6488 1% Sandstones, as above.
99% Shales.
- 6488 - 6490 As above.
- 6490 - 6506 2% Sandstones, as above.
5% Sandstone, white, light to medium gray; very fine grained;
trace is fine grained; medium hard; non- to moderately
calcareous; much dark gray as well as white clay fill;
medium well sorted; slight to poor porosity; grades to
sandy, silty shale. NO SHOW. J Sandstone.
25% Shale, medium to dark gray; very silty to sandy; moderately
calcareous.
68% Shales, as above.
- 6506 - 6512 15% Sandstone, as above. NO SHOW.
20% Shale, sandy.
65% Shale, varied medium and dark grays.

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6512 - 6516 10% Sandstone, very fine to fine grained; clean to very
 dirty; medium hard; slightly to moderately calcareous;
 peppered; glauconitic in part; slight to some fair
 porosity. NO SHOW.
 90% Shale, much is silty to sandy.
 Tr Shale, dark gray, extremely glauconitic.

6516 - 6524 As above.

6524 - 6538 5% Sandstone, generally very fine to lower fine grained;
 white; non- to slightly calcareous; considerable white
 clay fill; well sorted; poor to little fair porosity;
 slightly peppered, slightly glauconitic. NO SHOW.
 95% Shale, as above.

6538 - 6548 10% Sandstone, very fine to fine grained; medium hard; off
 white (slight brown cast) to light gray; non-calcareous;
 well sorted; poor por due to clay fill and silica cement;
 some is minutely black flecked (finely carbonaceous?). NO SHOW.
 90% Shale, dark gray mostly.

6548 - 6560 As above.

6560 - 6572 5% Sandstone, as above.
 95% Shale.

6572 - 6582 2% Sandstone, as above.
 98% Shale, as above.

6582 - 6592 2% Sandstone, much is tight; very dirty; peppered finely.
 98% Shale, as above.

6592 - 6610 As above.

6610 - 6650 Samples not examined.