

11-26-4e

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Geological Report

SEP 28 1993

Computer Inventoried

OXY USA, INC.
Green Trapshooter "A" No. 1
2140' FNL, 500' FWL
Sec. 11-T26S-R4E
Butler Co., Kansas
El Dorado Field

Contractor: Allen Drilling Co., Rig #2.
Commenced: 7:45 PM June 29, 1993. Reached R.T.D. of 2385'
12:21 PM July 4, 1993.
Completed:
Casing: Surface-8 5/8" at 242' with 200 sacks cement.
Production- 5 1/2" at 2387' (relative to L.T.D.) with 335
sacks cement.
Total Depth: R.T.D. 2385', L.T.D. 2388'.
Elevations: K.B. 1366', Gr. 1361'.
Logging Program: Atlas Wireline Services- Dual Induction with
Gamma Ray and SP; Compensated Neutron-Density
with Gamma Ray and Caliper; Minilog with Gamma
Ray and Caliper.
Samples: 10' dry from 1100' to 1600'; 10' wet and dry from
1600' to 2300'; 5' wet and dry from 2300' to 2385'.
Drilling Time: 1' from 1100' to 2385'.
Geologist: Herbert R. Johnson

Log Tops

Lecompton	1284 + 82
Oread	1374 - 8
Heebner	1412 - 46
Toronto	1422 - 56
Douglas Shale	1440 - 74
Douglas Sand	1466 - 100
Iatan	1599 - 233
Lansing	1703 - 337
Base Lansing	1856 - 490
Kansas City	1966 - 600
Base Kansas City	2124 - 758
Checkerboard	2196 - 830
Altamont	2232 - 866
Pawnee	2276 - 910
Cherokee	2315 - 949
Arbuckle	2361 - 995
L.T.D.	2388 -1022
R.T.D.	2385 -1019

Sample Description

1102-1263 Interbedded limestone and shale, NS.

Lecompton 1263 +103

1263-1275 Limestone, off white to light gray, fine crystalline,
dense, NS.

1275-1278 Shale, black, carbonaceous.

1278-1284 Limestone, white to gray, fine crystalline, dense, NS

1284-1289 Shale, dark gray to black.

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1289-1330 Limestone, off white to gray, fine crystalline, dense.
1330-1343 Shale, gray.
1343-1349 Limestone, white, fine crystalline, dense.
1349-1368 Shale, gray.

Oread 1368 -2

1368-1407 Limestone, off white to cream, fine crystalline,
chalky, poor to good intercrystalline porosity, NS.

Heebner 1407 -41

1407-1410 Shale, black, carbonaceous.
1410-1413 Limestone, dense.
1413-1418 Shale, gray, grayish green.

Toronto 1418 -52

1418-1435 Limestone, white, fine crystalline, chalky, fossilif-
erous, poor to fair porosity, 10% fluorescence, no
visible stain.

Douglas 1435 -69

1435-1454 Shale, gray.
1454-1457 Limestone, white, brownish gray, dense.
1457-1467 Shale, gray.

Douglas Sand 1467 -101

1467-1486 Sandstone, gray to white, very fine grained, friable,
micaceous, fair to good porosity, NS.
1486-1528 Interbedded gray shale and sandstone, AA.
1528-1592 Shale, gray with interbedded siltstone and sandstone.

Iatan 1592 -226

1592-1601 Limestone, white to brown, fine to medium crystalline,
dense, NS.
1601-1620 Shale, gray with interbedded gray siltstone.
1620-1641 Siltstone, gray and sandstone, gray, very fine grained,
silty, NS.
1641-1659 Limestone, tan to brown, fine crystalline, dense.
1659-1697 Shale, gray, pyritic.

Lansing 1697 -331

1697-1746 Limestone, off white to light gray, fine crystalline,
dense, NS.
1746-1756 Limestone, cream, fine crystalline, poor porosity, NS.
1756-1776 Limestone, light tan, cream, fine crystalline, chalky,
fossiliferous, poor porosity, NS.
1776-1781 Limestone, cream to tan, fine crystalline, dense, NS.
20% Chert, grayish brown.
1781-1787 Limestone, cream to grayish brown, mottled, poor
porosity, NS.
1787-1795 Limestone, off white to tan, fine crystalline, chalky,
dense, NS.
1795-1805 Limestone, tan, fine crystalline, chalky, poor por-
osity, NS.
1805-1815 Limestone, cream to gray, fine crystalline, fossilif-
erous, dense, NS.

1815-1850 Limestone, tan to brownish gray, gray, fine crystalline, dense, NS.

Base Lansing 1850 -484

1850-1960 Shale, gray.

Kansas City 1960 -594

1960-1966 Limestone, brownish gray, fine crystalline, dense.

1966-1970 Shale, gray

1974-1980 Limestone, white, fine crystalline, chalky, poor porosity, trace light stain, 10% spotted fluorescence, no free oil.

1980-1989 Limestone, white, fine crystalline, fossiliferous, dense; trace white chert.

1989-1995 Limestone, white, fine crystalline, chalky, poor to fair porosity, light stain, 5% spotted fluorescence, very faint odor, trace free oil.

1995-1998 Limestone, white, dense; trace chert, white.

1998-2004 Limestone, white, fine crystalline, chalky, poor to fair porosity, trace stain and fluorescence.

2004-2016 Limestone, white, cream, fine crystalline, dense.

2016-2036 Limestone, cream to tan, fine crystalline, chalky, partly oolitic, poor to fair porosity, NS.

2036-2064 Limestone, cream, gray, buff, fine crystalline, partly chalky, dense, NS.

2064-2066 Shale, black, carbonaceous.

2066-2074 Limestone, gray, fine crystalline, dense.

2074-2088 Limestone, white, fine crystalline, chalky, poor porosity, NS.

2088-2090 Shale, black, carbonaceous.

2092-2096 Limestone, white to tan, fine crystalline, fossiliferous, poor porosity, trace stain and fluorescence.

2099-2105 Limestone, tan, buff, fine crystalline, dense, NS.

2105-2109 Siltstone, light gray, shaley, poor porosity, NS.

2109-2119 Limestone, tan to brown, fine crystalline, dense, partly oolitic, clastic.

Base Kansas City 2119 -753

2119-2192 Shale, gray, silty, pyritic.

Checkerboard 2192 -826

2192-2200 Limestone, tan, buff, fine crystalline, dense.

2200-2220 Shale, light green, silty.

2220-2228 Shale, light green, gray, reddish brown.

Altamont 2228 -862

2228-2238 Limestone, light tan, buff, fine crystalline, partly oolitic, dense, NS.

2238-2250 Shale, light green, gray, reddish brown.

2250-2264 Shale, dark gray.

2264-2267 Limestone, tan, fine crystalline, dense.

2267-2269 Shale, gray.

Pawnee 2269 -903

- 2269-2294 Limestone, off white, tan, brownish gray to buff, fine crystalline, dense.
 2294-2296 Shale, black, carbonaceous.
 2296-2311 Limestone, grayish brown, tan, buff, fine crystalline, dense, NS.

Cherokee 2311 -945

- 2311-2314 Shale, black, carbonaceous.
 2314-2321 Limestone, buff, brownish gray, fine crystalline, dense.
 2321-2323 Shale, black, carbonaceous.
 2323-2342 Shale, grayish green, reddish brown, gray, pyritic.
 2342-2346 Limestone, dark gray, fine crystalline, dense.
 2346-2356 Shale, dark gray, black, pyritic.

Arbuckle 2356 -990

- 2356-2359 Dolomite, white to brown, fine crystalline, sucrosic, dense, trace poor porosity, well stained, bright fluorescence, fair odor, trace free oil, 30% fluorescence. 5% Chert, white, gray, oolitic.
 2359-2361 Dolomite, white to tan, fine crystalline, sucrosic, dense, trace poor intercrystalline porosity, well stained, bleeding oil, bright fluorescence, fair odor, fair show free oil. 10% Chert, white to gray, oolitic.

Circulated for samples 45 minutes at 2361'.

Circulated for samples 45 minutes at 2366'.

- 2361-2364 Dolomite, tan to brown, fine crystalline, sucrosic, 20% poor to fair porosity, 3% good porosity, well stained, 70% fluorescence, faint odor, fair show free oil.
 2364-2366 Dolomite, tan, buff, fine crystalline, dense; 5% Chert, white, gray.

D.S.T. No. 1 2318-2366' 15-30-30-60

Initial Flow: Weak blow died in 8 minutes.

Final Flow: No blow.

Recovered 10' mud, 5' oil.

IHMP 1143 psi, IFP 29-29 psi, ICIP 769 psi, FFP 38-38 psi, FCIP 731 psi, FHMP 1124 psi.

BHT 109 degrees F.

Circulated 30 minutes before drilling ahead.

- 2366-2372 Dolomite, tan, brown, fine crystalline, sucrosic, dense, slightly pyritic; trace poor to fair porosity with stain and fluorescence, weak odor., fair show free oil.
 5% Dolomite, white, fine crystalline, slightly sandy, dense.
 2372-2375 Dolomite, white, tan, fine to medium crystalline, dense. Trace poor to fair porosity with stain, 80% fluorescence, trace free oil. Trace oolitic dolomite with good porosity and stain.

Circulated for samples 45 minutes at 2375'.

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- 2375-2380 Dolomite, white, tan, buff, fine crystalline, trace medium crystalline, dense; trace poor to fair porosity with stain and fluorescence, 40% fluorescence, trace free oil. Trace chert.
- 2380-2385 Dolomite, white to tan, fine to medium crystalline, dense; 20% poor porosity, 2% fair to good porosity with stain and fluorescence, weak odor, 40% fluorescence, trace free oil; trace Chert, white.

Circulated for samples 60 minutes at 2385'.

Reached R.T.D. 2385' at 12:21 PM July 4, 1993.

Pipe strapped at 2366':

Board	2377.50'
Strap	<u>2376.78</u>
Strap short to board	.72'

D.S.T. No. 2 2366-2385' 15-30-30-60

Initial Flow: Weak blow increased to 6 inches in 15 min.

Final Flow: Weak blow increased to 6 inches and remained there throughout balance of period.

Recovered 120' oil, 45' heavily oil cut mud.

IHMP 1143 psi, IFP 19-48 psi, ICIP 875psi, FFP 48-77 psi, FCIP 866 psi, FHMP 1143 psi.

BHT 106 degrees F.