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ORIGINAL

GEOLOGIC REPORT

LAYNE CHRISTENSEN CANADA, LTD.
B. CHISM 3-31
NE NW 681' FNL', 2,020' FWL
Section 31-31S-15E
MONTGOMERY COUNTY, KANSAS

KCC
OCT 17 2002
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Drilled: August 17 – August 18, 2002
Logged: August 18, 2002
A.P.I.# 125-30137-00.00
Ground Elevation: 924'
Kelly Bushing Elevation: 927'
Derrick Floor: 927'
Depth Driller: 1459'
Depth Logger: 1459'
Drilled from surface to TD with air, Hammer Bit
Surface Casing: 8.65 to 21'
Production Casing: 5.5" to 1459'
Cemented by Blue Star
Bottom Hole Temperature: 88 Degrees
Open Hole Logs (Osage Wireline) : High Resolution Compensated Density
Neutron; Dual Induction SFL/GR

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FORMATION

TOPS (in feet below kelly bushing)

Layton Sand	332
Kansas City Group	384
Lenapah Lime	684
Altamont Lime	730
Wiser Sand	790
Mulberry Coal	865
Pawnee Lime	870
Peru Sand	920
First Oswego	963
Summit Coal	990
Excello Shale	1017
Mulky Coal	1032
Bevier Coal	1045
V-Shale	1066
Mineral Coal	1108
Scammon Coal	1125
Tebo Coal	1157
Cattleman Sand	1134

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Weir Pitt Coal	1178
Blue Jacket	1214
Dry Wood	1240
Rowe Coal	1321
Riverton Coal	1367
Mississippian	1377

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