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ORIGINAL

GEOLOGIC REPORT

LAYNE CHRISTENSEN CANADA, LTD.
C. SMITH 5-30
SW NW 1,802' FNL', 339' FWL
Section 30-31S-15E
MONTGOMERY COUNTY, KANSAS

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WICHITA KS

Drilled: August 19 – August 21, 2002

Logged: August 21, 2002

A.P.I.# 125-30136-00.00

Ground Elevation: 934'

Kelly Bushing Elevation: 937'

Derrick Floor: 937'

Depth Driller: 1499'

Depth Logger: 1498'

Drilled from surface to TD with air, Hammer Bit

Surface Casing: 8.65 to 21'

Production Casing: 5.5" to 1495'

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)

Kansas City Group	402
Lenapah Lime	712
Altamont Lime	758
Wiser Sand	774
Mulberry Coal	896
Pawnee Lime	901
First Oswego	988
Summit Coal	1016
Excello Shale	1037
Bevier Coal	1067
V-Shale	1088
Fleming	1099
Mineral Coal	1131
Scammon Coal	1146
Tebo Coal	1173
Weir Pitt Coal	1210
Blue Jacket	1241
Dry Wood	1279

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Rowe Coal
Riverton Coal
Mississippian

1349
1389
1399

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