

GEOLOGIC REPORT

LAYNE CHRISTENSEN CANADA, LTD.
Hinthorn 6-14
¼NW, ¼SE, ¼NW, 1650' FNL, 1650' FEL
Section 14-T32S-R16E
MONTGOMERY COUNTY, KANSAS

Drilled: April 10 – 11, 2003
Logged: April 11, 2003
A.P.I.# 125-30243-00-00
Ground Elevation: 840'
Depth Driller: 1165'
Depth Logger: 1165'
Drilled with Air, surface to 1165'
Drilled with Water, N.A.
Surface Casing: 8.65" @ 42'
Production Casing: 5.5" @ 1164.2
Cemented by Blue Star
Open Hole Logs (Osage Wireline) : High Resolution Compensated Density
Neutron; Dual Induction SFL/GR to 1157'

RECEIVED
KANSAS CORPORATION COMMISSION

AUG 11 2003

CONSERVATION DIVISION
WICHITA, KS

FORMATION.....TOPS (in feet below ground surface)

Kansas City Group	Surface (Drum Limestone Formation)
Base of KC Group	254
Lenapah Lime	304
Altamont Lime	345
Pawnee Lime	502
Anna Shale	522
Peru Sandstone	530
First Oswego	591
Summit Coal/Little Osage	623
Excello Shale	653
Mulky Coal	658.6
Iron Post	682
V-Shale	703.2
Fleming	715.1
Mineral Coal	741.6
Riverton Coal	1076.8
Mississippian	1088