

GEOLOGIC REPORT

LAYNE CHRISTENSEN CANADA, LTD.

Bruington 8-15

¼SE, ¼NE, 1980' FNL, 660' FEL

Section 15-T32S-R16E

MONTGOMERY COUNTY, KANSAS

1512530242-0000

Drilled: April 12 – 13, 2003

Logged: April 13, 2003

A.P.I.# 125-30242-00-00

Ground Elevation: 810'

Depth Driller: 1193'

Depth Logger: 1190'

Drilled with Air, surface to 1193'

Drilled with Water, N.A.

Surface Casing: 8.65" @ 42'

Production Casing: 5.5 @ 1185.6

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 level)

Kansas City Group.....	Surface (Drum Limestone Formation)
Base of KC Group.....	265
Lenapah Lime.....	313
Altamont Lime.....	357
Pawnee Lime.....	520
Anna Shale.....	536
First Oswego.....	608
Summit Coal/Little Osage.....	642
Excello Shale.....	672
Mulky Coal.....	677.2
Iron Post.....	699.6
V-Shale.....	725
Fleming Coal.....	735.7
Mineral Coal.....	762.76
Tebo Coal.....	823.16
Weir Pitt Coal.....	846.75
Riverton Coal.....	1082.8
Mississippian.....	1094