

GEOLOGIC REPORT

LAYNE CHRISTENSEN CANADA, LTD.

Romans 10-10

¼SE ¼NW, ¼NW, ¼SE, 2195' FSL, 2051' FEL

Section 10-T32S-R16E

MONTGOMERY COUNTY, KANSAS

Drilled: May 23-25, 2003

Logged: May 25, 2003

A.P.I.# 125-30309-00-00

Ground Elevation: 899'

Kelly Bushing Elevation: 902'

Derrick Floor: 902'

Depth Driller: 1272'

Depth Logger: 1271.9'

Drilled with Air: TD

Drilled with Water, N.A.

Surface Casing: 8.65" @ 42'

Production Casing: 5.5" @ 1272'

Cemented by Blue Star

Open Hole Logs (Layne Wireline) : High Resolution Compensated Density
Neutron; Dual Induction SFL/GR.

FORMATION

Kansas City Group

Base of KC Group

Lenapah Lime

Altamont Lime

Mulberry

Pawnee Lime

Anna Shale

Lexington Coal

First Oswego

Summit Coal/Little Osage

Excello Shale

Mulky Coal

Iron Post

V-Shale

Croweburg Coal

Fleming

Mineral Coal

Tebo Coal

Weir-Pitt

TOPS (in feet below ground surface)

Surface (Cottage Grove Sand Stone)

355

402

442

Absent

610

636

640

700

734

764

769

793

819

821.5

833

859

Absent

940

RECEIVED
KANSAS CORPORATION COMMISSION

SEP 24 2003

CONSERVATION DIVISION
WICHITA, KS

Blue Jacket	990
Rowe Coal	1102
Riverton Coal	1155
Mississippian	1169

RECEIVED
KANSAS CORPORATION COMMISSION

SEP 24 2003

CONSERVATION DIVISION
WICHITA, KS