**Discovery Drilling**

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

# DRILLER'S LOG

Operator: **Downing-Nelson Oil Co., Inc.**
PO Box 372
Hays, KS 67601

Contractor: **Discovery Drilling Co., Inc.**
PO Box 763
Hays, KS 67601

Lease: R.J. Shea #1-14

Location: 180' S of NW/NW/SW
Sec. 14/10S/31W
Thomas Co., KS

Loggers Total Depth: 4660'
Rotary Total Depth: 4660'
Commenced: 12/1/01
Casing: 8 5/8" @ 212' w/150sks
4 1/2" @ 4646' w/150sks
Port Collar @ 2512'

Elevation: 2979' Gr./2987' KB
Completed: 12/10/01
Status: Oil Well

## DEPTHS & FORMATIONS
**(All from KB)**

| | | | |
|---|---|---|---|
| Surface, Sand & Shale | 0' | Shale | 2584' |
| Dakota Sand | 1324' | Shale & Lime | 3013' |
| Shale | 1505' | Shale | 3398' |
| Cedar Hill Sand | 1664' | Shale & Lime | 3705' |
| Red Bed Shale | 1963' | Lime & Shale | 4049' |
| Anhydrite | 2553' | RTD | 4660' |
| Base Anhydrite | 2584' | | |

RECEIVED
APR 0 1 2002
KCC WICHITA

STATE OF KANSAS )
) ss
COUNTY OF ELLIS )

Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

Thomas H. Alm

Subscribed and sworn to before me on 12-11-01

My Commission expires: 8-9-03

(Place stamp or seal below)

Glenna S. Alm
Notary Public