

COPY

DRILLERS' LOG

RELEASED
NOV 13 1991

CONFIDENTIAL

OPERATOR: NORTHERN LIGHTS OIL CO., L.P. FROM CONFIDENTIAL
WELL: THOMPSON "B" #3
P.O. BOX 164
ANDOVER, KS 67002

API#: 15-135-23,495

COMMENCED: OCTOBER 23, 1990

LOCATION: N/2 SW NW

COMPLETED: OCTOBER 30, 1990

3630 Ft. FSL, 4620 Ft. FEL

TOTAL DEPTH: 4380 Ft.

SEC. 31 TWP. 16 S RGE. 21 W

ELEVATION: 2344 Ft. G.L.

COUNTY: NESS

2352 Ft. K.B.

STATUS: D & A Mississippi Formation

REMARKS:

Cut 12 1/4" hole to 265' and ran 6 joints 8-5/8" x 20# x 250.55' surface casing.
Set at 260.15' and cemented with 170 sacks 60/40 Pozmix, 2% gel, 3% cc. Cement
did circulate. P.D. at 5:30 a.m. 12-24-90.

Ran 1 DST.

Drilled 7-7/8" hole to 4380', ran electric log, and plugged with 205 sacks
60/40 Pozmix, 6% gel, 1/4# Floseal as follows:

- 50 sx @ 1640'
- 80 sx @ 870'
- 40 sx @ 290'
- 10 sx @ 40' to surface
- 15 sx R.H., 10 sx M.H.
- P.D. @ 10:00 p.m. 10-30-90.

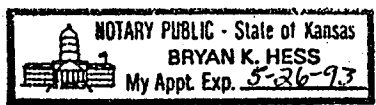
STATE OF KANSAS)
COUNTY OF MCPHERSON) SS:

NOV 20 1990

I, Dick Hess of MALLARD JV, INC. hereby certify that this is a true
and correct copy of the log of the Thompson "B" #3 well as reflected by
the files of Mallard JV, Inc.

Dick Hess

Subscribed and sworn to before me this 9th day of November, 19 90.



Bryan K. Hess
NOTARY PUBLIC