Attachment to ACO-1 North Glenn #1-30 60' North of N/2 NE/4 Sec. 30-14-30W Gove Co.

Computer Inventoried

DAILY DRILLING REPORT

ORIGINAL

OPERATOR: L. D. DRILLING, INC.

GEOLOGIST: Kim Shoemaker
CONTRACTOR: L. D. DRILLING
SPUD: 2-19-96 10:30 A.M.

CONFIDENTIAL

LEASE: NORTH GLENN #1-30
620' FNL 1250' FEL
SEC. 30-14S-30W
GOVE COUNTY, KANSAS

SURFACE PIPE: Ran 7 Jts. used 8 5/8" 281'
Set @ 288' W/175 sx. 60/40 Poz. 2% Gel,3%CC
Plug Down 4:45 P.M. Did Circ. Allied

ELEVATION: 2758 GR 2763 KB

PTD: 4450'

15-063-21491

TIGHT HOLE

RELEASED

JUL 31 1997

FROM CONFIDENTIAL

2-17 Dig pits - move rig in & rig up
2-18 Day off
2-19 Spud & run surface csg.
2-20 855' Drilling ahead
2-21 2475' Drilling
2-22 3150' Drilling
2-23 3630' Drilling-Geologist on way to rig.
2-24 3967' - DST #1
2-25 4030' - DST #3
2-26 4120' - DST #5 in progress
2-27 4324' Drilling
2-28 4440' DST #7 in progress
2-29 4500' RTD - Finished logging and preparing to run 4 1/2" production casing.

Ran 120 Jts. 4½-10.5# Drifted & tested csg.
Set @ 4499' W/150 sx. EA-2 5# gil. last 50 sx.
.75 of 1% Halad 322. DV Tool @ 2222'
Stage 2 -350 sx. Mid-Con 3/8# floseal, 2% cc
Circulated to top. PD 6:00 P.M. 2-29-96

SAMPLE TOPS:

Anhy.	(top)	2223 (+540
	(base)	2246 (+517)
Heebner		3810 (-1047)
Lansing		3847 (-1084)
Muncie Creek		4005 (-1242)
Stark		4094 (-1331)
Base K/C		4175 (-1412)
Marm.		4198 (-1435)
Ft. Scott		4346 (-1583)
Cherokee		4372 (-1609)
Miss.		4452 (-1689)

LOG TOPS:

Anhy.	(top)	2221 (+542)
	(base)	2245 (+518)
Heebner		3810 (-1047)
Lansing		3850 (-1087)
Muncie Creek		4009 (-1246)
Stark		4097 (-1334)
Base K/C		4180 (-1417)
Marm.		4204 (-1439)
Ft. Scott		4352 (-1589)
Cherokee		4377 (-1614)
Miss.		4458 (-1695)
Log T.D.		4507 (-1744)

DST #1 3925-3967 Lansing F Zone
Times: 30-30-30-30
Blow: 1st open - weak blow through out
2nd open - weak blow died in 20 min.
Recovery: 2' free oil, 45' WCM 70% water
IFP: 44-46 FFP: 55-58
ISIP: 1057 FSIP: 1008

DST #2 3868-3892 Lansing B Zone (straddle tst)
Times: 30-30-30-30
Blow: weak blow through out
Weak blow died 10 min.
Recovery: 30' HOCM 30% oil
IFP: 12-14 FFP: 20-20
ISIP: 900 FSIP: 708

KCC

AUG 22 1997

DST #3 3996-4030 H Zone
Times: 30-30
Blow: 1st open: blow died in 15 min.
Recovery: 10' Mud
IFP: 32-34
ISIP: 1030

DST #4 4060-4084 Lansing I & J Zones
Times: 30-45-45-60
Blow: 1st open- BB in 20 min.
2nd open- blt to 10"
RECOVERY: 70' gas in pipe, 230' OCWM
5% gas, 5% oil, 20% water
120' VSOCWM, 2% oil, 73% water
120' Muddy water W/scum of oil

DST #5 4090-4120 K Zone
Times: 30-30-30-30
Blow: 1st open: 1/2"
2nd open: 1/2"
Recovery: 5' gip, 60' gcm W/few oil specks
IFP: 33-36 FFP: 46-46
ISIP: 1080 FSIP: 1063

DST #6 4310-4360 Myrick Station - Ft. Scott
Times: 30-45-45-60
Blow: 1st open: bb in 10 Min.
2nd open: bb in 12 Min.
Recovery: 1630' GIP, 50' CGO, 180' SMCO
IFP: 44-67 FFP: 84-102
ISIP: 1112 FSIP: 1079

DST #7 4370-4440 Cherokee & Johnson Zones
Times: 30-45-45-60
Blow: 1st open: bb in 15 min.
2nd open: bb in 25 min.
Recovery: 90' gip, 210' gmo 10%gas, 45% Mud
45% oil
60' SG&WC Mud 5% gas, 8% water, 35% Md
120' gw W/skum oil
IFP: 78-93 FFP:140-80
ISIP: 1107 FSIP: 1094