# KITT NOAH

PETROLEUM GEOLOGIST
Kansas License 229

# GEOLOGIST'S REPORT

Edwards Fee Unit #1
1460'FN & 2260'FW
Sec. 6 Twp. 16S Range 34W
Scott County, Kansas

Elevation: KB 3096
Spud: 6-12-09
Completed: 6-20-09
Total Depth: 4800'

Contractor: Emphasis Drilling #1
Engineer: Brandon Elliott, Will Hu, Al Scott
Spudded: 6:30 pm. 6-12-09
Surface Csg: 8 5/8" set @ 224' w/ 160 sks cmt. Circ. 5 bbls
Production Csg: 5½" set @ 4800' w/ 175 sks cmt. Circ. 20 bbls
Drill Time: Begin 3800' to RTD
Samples: 3800' to RTD
Mud Type: Chemical
Rotary Tools: Surface to RTD
Electric Log: Dual Induction, Compensated Density/Neutron
Formation Tops: Anhydrite (2422) (+674); B/Anhydrite (2440) (+656); Heebner (3930) (-834); Toronto (3946) (-850); Lansing (3977) (-881); Muncie Crk (4154) (-1058); Stark (4252) (-1156); B/Kc (4336) (-1240); Marmaton (4385) (-1289); Pawnee (4470) (-1374); Myrick Sta (4508) (-1412); Fort Scott (4522) (-1426); Cherokee (4550) (-1454); Johnson Zn (4605) (-1509); Morrow Sh (4670) (-1574); Mississippian (4739) (-1643)

LEGEND

Limestone | Dol Lime | Oolitic | Sandstone | Shale | Carb Shale | Chert | Anhydrite

| DEPTH | DRILLING TIME IN MINUTES PER FOOT (Rate of penetration increases) | SAMPLE DESCRIPTIONS | REMARKS |
|---|---|---|---|
| | | Anhydrite | EL 2422 (+674) |
| 2450 | | B/Anhydrite | EL 2440 (+656) |
| 3700 | | | |
| 3800 | | | |
| 3900 | | Heebner | EL 3930 (-834) |
| | | Toronto | EL 3946 (-850) |
| | | Lansing | EL 3977 (-881) |
| 4000 | | "C" | |
| | | "D" | |
| | | "E" | |
| | | "F" | |
| 4100 | | "G" | |
| | | Muncie Crk | EL 4154 (-1058) |
| | | "H" | |
| 4200 | | "I" | |
| | | "J" | |
| | | Stark | EL 4252 (-1156) |
| | | "K" | |
| 4300 | | "L" | |
| | | B/Kc | EL 4336 (-1240) |
| | | Marmaton | EL 4385 (-1289) |
| 4400 | | Alt "A" | |
| | | Alt "B" | |
| | | Alt "C" | |
| | | Pawnee | EL 4470 (-1374) |
| 4500 | | Myrick Sta | EL 4508 (-1412) |
| | | Fort Scott | EL 4522 (-1426) |
| | | Cherokee | EL 4550 (-1454) |
| 4600 | | Johnson Zn | EL 4605 (-1509) |
| | | Morrow Sh | EL 4670 (-1574) |
| 4700 | | Mississippian | EL 4739 (-1643) |
| 4800 | | | |

Drill Stem Test #1 (4400'-4420'): Rec 1' Mud. IFP 20# FFP 20# ISIP 1281# FSIP 1281#

Drill Stem Test #2 (4420'-4440'): Rec 1' Mud. IFP 20# FFP 20# ISIP 1281# FSIP 1281#

Pipe Strap at 4426' 1.33 Short Short

Drilled deeper than original target to test for additional pay. Well shut in for evaluation. Will be back to evaluate zone on electric log.

Well planned to drill down two more days but decided to shut in due to deteriorating weather conditions. Will be back to evaluate the Mississippian zone on electric log.

KITT NOAH PETROLEUM GEOLOGIST 229 Kansas Licensed Petroleum Geologist

ELEVATION: KB 3096

OPERATOR: Russell Oil, Inc.
LEASE: Edwards FG Unit WELL NO. #1
API: 15-171-21-001 FIELD: Wildcat
LOCATION: 1460'FN & 2260'FW
SEC: 6 TWP: 16S RNG: 34W
COUNTY: Scott STATE: Kansas