



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Russell Oil
PO Box 8050
Edmond, Ok 73083
ATTN: Kitt Noah

Steinle #2-32
32-15-14 Russell, Ks
Job Ticket: 45159 **DST#: 1**
Test Start: 2011.10.09 @ 01:15:18

GENERAL INFORMATION:

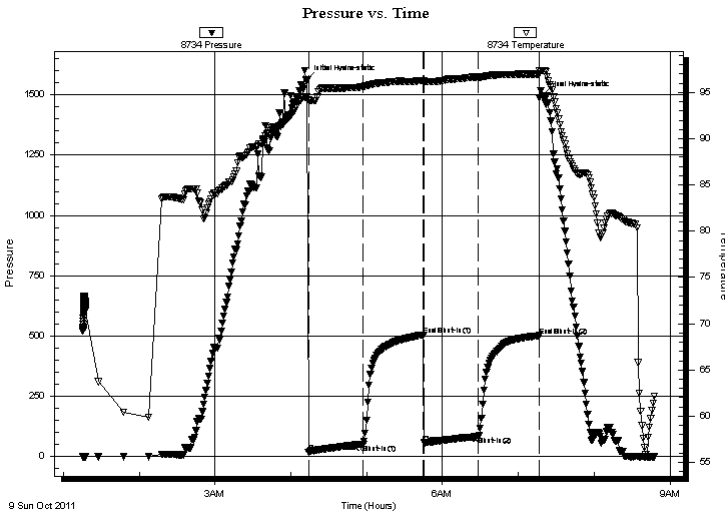
Formation: **LKC "A-D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:13:48
Time Test Ended: 08:47:48
Interval: **3144.00 ft (KB) To 3188.00 ft (KB) (TVD)**
Total Depth: 3188.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Brian Fairbank
Unit No: 41
Reference Elevations: 1931.00 ft (KB)
1924.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8734 Outside

Press @ Run Depth: 83.37 psig @ 3148.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.10.09 End Date: 2011.10.09 Last Calib.: 2011.10.09
Start Time: 01:15:19 End Time: 08:47:48 Time On Btm: 2011.10.09 @ 04:12:18
Time Off Btm: 2011.10.09 @ 07:18:48

TEST COMMENT: IFP - BOB 14 min
ISI - 1 1/4" blow back- died 27 min
FFP - BOB 21 min
FSI - 2" blow back

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1563.35 | 94.51 | Initial Hydro-static |
| 2 | 18.30 | 94.18 | Open To Flow (1) |
| 45 | 51.70 | 95.64 | Shut-In(1) |
| 93 | 504.83 | 96.32 | End Shut-In(1) |
| 93 | 57.10 | 96.17 | Open To Flow (2) |
| 136 | 83.37 | 96.66 | Shut-In(2) |
| 184 | 501.16 | 97.01 | End Shut-In(2) |
| 187 | 1497.60 | 97.39 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------------------|--------------|
| 110.00 | MW 80%W, 20%M | 1.54 |
| 60.00 | GW & OCM 10%G, 30%O, 10%W, 50%M | 0.84 |
| 0.00 | 295' GIP | 0.00 |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |



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FLUID SUMMARY

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Mud and Cushion Information

| | | | |
|----------------------------------|----------------------------|-----------------|-----------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | 60000 ppm |
| Viscosity: 47.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 5.19 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 4800.00 ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------------------------|---------------|
| 110.00 | MW 80%W, 20%M | 1.543 |
| 60.00 | GW & OCM 10%G, 30%O, 10%W, 50%M | 0.842 |
| 0.00 | 295' GIP | 0.000 |

Total Length: 170.00 ft Total Volume: 2.385 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

