



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Herman L Loeb LLC
 PO Box 838
 Lawrenceville, IL 62439
 ATTN: Jon Christensen

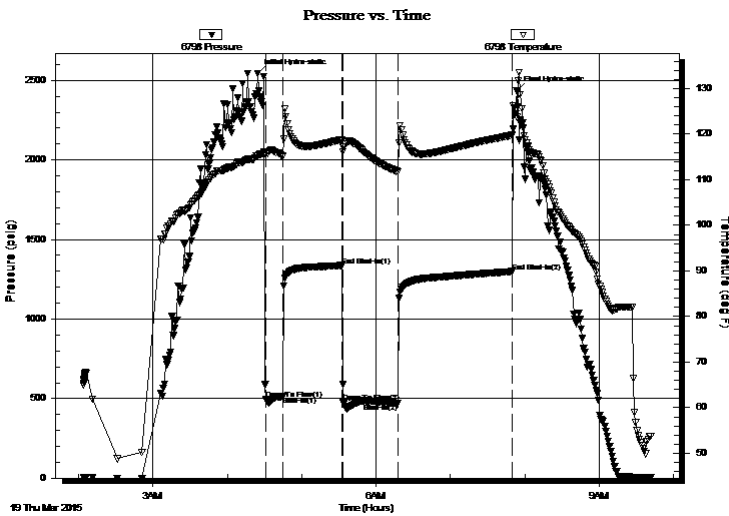
28-27S-18W Kiowa
Yost 3-28
 Job Ticket: 59754 **DST#: 1**
 Test Start: 2015.03.19 @ 02:04:11

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:31:26
 Time Test Ended: 09:42:11
 Interval: **4763.00 ft (KB) To 4809.00 ft (KB) (TVD)**
 Total Depth: 4809.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 2223.00 ft (KB)
 2210.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 6798 Inside
 Press@RunDepth: 469.99 psig @ 4764.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.03.19 End Date: 2015.03.19 Last Calib.: 2015.03.19
 Start Time: 02:04:12 End Time: 09:42:11 Time On Btm: 2015.03.19 @ 04:24:26
 Time Off Btm: 2015.03.19 @ 07:53:26

TEST COMMENT: IF: Strong Blow , BOB in 20 seconds, GTS in 5 minutes, Gauged & Caught Sample
 IS: Weak Surface Blow Back
 FF: Strong Blow , BOB & GTS Immediate, Gauged & Caught Sample
 FS: Weak Surface Blow Back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2543.57 | 115.25 | Initial Hydro-static |
| 7 | 493.74 | 115.71 | Open To Flow (1) |
| 21 | 514.98 | 115.00 | Shut-In(1) |
| 69 | 1336.45 | 118.81 | End Shut-In(1) |
| 69 | 476.23 | 117.13 | Open To Flow (2) |
| 114 | 469.99 | 111.76 | Shut-In(2) |
| 206 | 1298.71 | 119.76 | End Shut-In(2) |
| 209 | 2433.60 | 123.75 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------------------|--------------|
| 0.00 | 4686 GIP | 0.00 |
| 0.50 | Approximately 6 inches GOCM in Head | 0.00 |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.50 | 250.00 | 1783.56 |
| Last Gas Rate | 0.50 | 280.00 | 1985.93 |
| Max. Gas Rate | 0.50 | 290.00 | 2053.39 |



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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: | ppm |
| Viscosity: 62.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 8.79 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 5000.00 ppm | | | |
| Filter Cake: 0.02 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------------------------|---------------|
| 0.00 | 4686 GIP | 0.000 |
| 0.50 | Approximately 6 inches GOCM in Head | 0.002 |

Total Length: 0.50 ft Total Volume: 0.002 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



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GAS RATES

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Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|-------------|--------------|----------------|-----------------|------------------|
| 1 | 10 | 0.50 | 250.00 | 1783.56 |
| 1 | 15 | 0.50 | 250.00 | 1783.56 |
| 2 | 10 | 0.50 | 250.00 | 1783.56 |
| 2 | 20 | 0.50 | 290.00 | 2053.39 |
| 2 | 30 | 0.50 | 290.00 | 2053.39 |
| 2 | 40 | 0.50 | 280.00 | 1985.93 |
| 2 | 45 | 0.50 | 280.00 | 1985.93 |

Pressure vs. Time

