



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Herman L. Loeb, LLC.
P.O. Box 838
Lawrenceville, IL 62439
ATTN: Jon Christensen

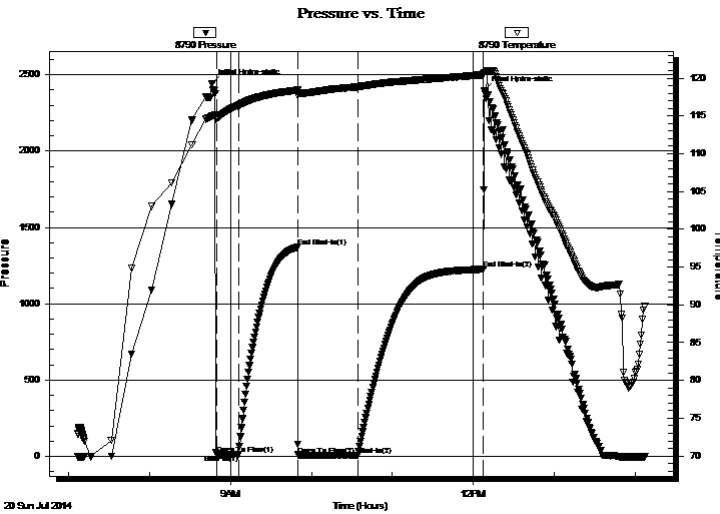
33-27s-18w Kiowa Co., KS
Kinyon 2-33
Job Ticket: 54157 **DST#: 2**
Test Start: 2014.07.20 @ 07:06:28

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 08:49:28
Time Test Ended: 14:07:13
Interval: **4743.00 ft (KB) To 4760.00 ft (KB) (TVD)**
Total Depth: 4760.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Ryan Reynolds
Unit No: 68
Reference Elevations: 2205.00 ft (KB)
2192.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8790 Inside
Press@RunDepth: 8.41 psig @ 4744.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.07.20 End Date: 2014.07.20 Last Calib.: 2014.07.20
Start Time: 07:06:33 End Time: 14:07:12 Time On Btm: 2014.07.20 @ 08:46:13
Time Off Btm: 2014.07.20 @ 12:08:28

TEST COMMENT: IF: Strong blow . BOB @ 3min.
IS: No blow
FF: Strong blow . BOB immed. No GTS.
FS: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2441.86	114.95	Initial Hydro-static
4	16.91	114.66	Open To Flow (1)
20	15.55	116.35	Shut-In(1)
64	1370.98	118.40	End Shut-In(1)
64	10.57	118.03	Open To Flow (2)
108	8.41	118.84	Shut-In(2)
202	1227.38	120.44	End Shut-In(2)
203	2393.80	120.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drig Mud	0.02
0.00	2590' GIP	0.00

* Recovery from multiple tests

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:	5200 ppm
Viscosity: 64.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5200.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drig Mud	0.025
0.00	2590' GIP	0.000

Total Length: 5.00 ft Total Volume: 0.025 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:

