



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

IA Operating, Inc
9915 W 21st STE B
Wichita, KS 67205
ATTN: Steve Reed

Sec. 13-10s-21w Graham, KS
Beiker Trust #13-1
Job Ticket: 60992 **DST#: 3**
Test Start: 2014.12.08 @ 07:34:00

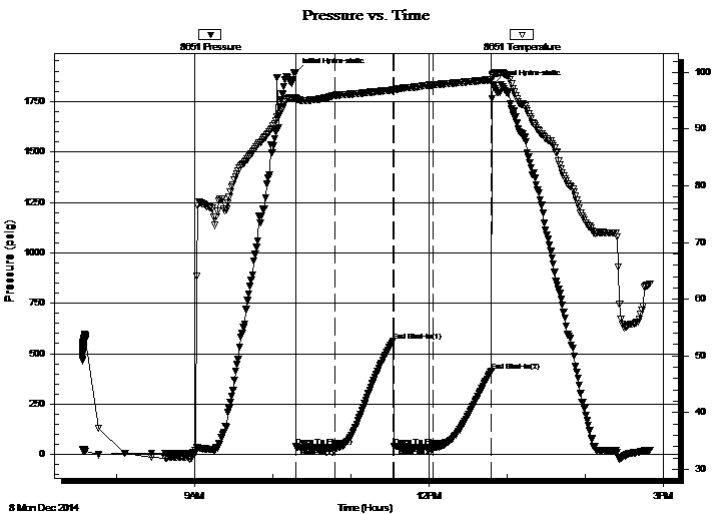
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:18:00
Time Test Ended: 14:49:30
Interval: **3754.00 ft (KB) To 3845.00 ft (KB) (TVD)**
Total Depth: 3845.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2261.00 ft (KB)
2253.00 ft (CF)
KB to GR/CF: 8.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Phillip Gage
Unit No: 62

Serial #: 8651 Inside
Press@RunDepth: 35.33 psig @ 3755.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.12.08 End Date: 2014.12.08 Last Calib.: 2014.12.08
Start Time: 07:34:01 End Time: 14:49:30 Time On Btm: 2014.12.08 @ 10:17:30
Time Off Btm: 2014.12.08 @ 12:49:00

TEST COMMENT: 30-IF-Built to 1 1/4"
45-ISI-No Return
30-FF-Built to 1/2"
45-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1893.28	95.53	Initial Hydro-static
1	39.74	95.27	Open To Flow (1)
31	34.07	95.96	Shut-In(1)
75	563.20	96.89	End Shut-In(1)
76	42.14	96.87	Open To Flow (2)
106	35.33	97.81	Shut-In(2)
151	414.47	98.73	End Shut-In(2)
152	1831.98	99.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	O, 100%o	0.01
15.00	SOCM, 10%o, 90%m	0.11

* 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: 30 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.39 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3000.00 ppm		
Filter Cake: 2.50 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	O, 100%o	0.015
15.00	SOCM, 10%o, 90%m	0.110

Total Length: 17.00 ft Total Volume: 0.125 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time

