



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

IA Operating Inc
9915 W 21st ST STE B
Wichita KS, 67205
ATTN: Jeff Lawler

19-11s-15w Russell KS
Thomas Unit # 1-19
Job Ticket: 54052 **DST#: 4**
Test Start: 2014.06.03 @ 07:39:00

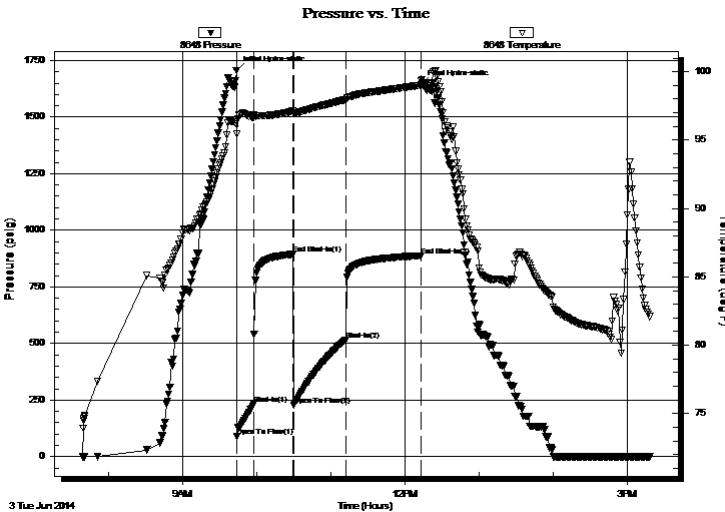
GENERAL INFORMATION:

Formation: **Cong. Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:43:45
Time Test Ended: 15:18:15
Interval: **3354.00 ft (KB) To 3408.00 ft (KB) (TVD)**
Total Depth: 3408.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Bloedorn
Unit No: 73
Reference Elevations: 1792.00 ft (KB)
1784.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8648 **Inside**
Press@RunDepth: 516.43 psig @ 3393.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.06.03 End Date: 2014.06.03 Last Calib.: 2014.06.03
Start Time: 07:39:05 End Time: 15:18:14 Time On Btm: 2014.06.03 @ 09:43:30
Time Off Btm: 2014.06.03 @ 12:13:00

TEST COMMENT: 15 - IF- B.O.B. in 3 minutes
30 - IS- 1/2" return
45 - FF- B.O.B. in 2 Minutes
60 - FS- 2" return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1706.12	96.37	Initial Hydro-static
1	88.17	95.43	Open To Flow (1)
14	230.64	96.64	Shut-In(1)
46	893.84	97.13	End Shut-In(1)
47	226.85	96.94	Open To Flow (2)
89	516.43	97.96	Shut-In(2)
150	887.59	99.03	End Shut-In(2)
150	1643.86	99.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
403.00	GW - show of oil on top, 5%G, 95%W	5.38
372.00	SOCWM, 10%O, 40%W, 50%M	5.22
310.00	GOCM, 20%G, 20%O, 60%M	4.35

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Job Ticket: 54052

DST#: 4

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Test Start: 2014.06.03 @ 07:39:00

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:

53000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
403.00	GW - show of oil on top, 5%G, 95%W	5.380
372.00	SOCWM, 10%O, 40%W, 50%M	5.218
310.00	GOCM, 20%G, 20%O, 60%M	4.348

Total Length: 1085.00 ft Total Volume: 14.946 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .10 @ 97 Degrees = 53000

Pressure vs. Time

