



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Imperial America Operating INC

4-11-20-Ellis Co

9915 W 21 st STE B
Wichita KS 67205

Veatcha Family Trust

Job Ticket: 55845

DST#: 3

ATTN: Jeff Lawler

Test Start: 2013.12.06 @ 05:24:27

GENERAL INFORMATION:

Formation: **LKC H-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:34:57

Time Test Ended: 13:47:27

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

Interval: 3490.00 ft (KB) To 3566.00 ft (KB) (TVD)

Reference Elevations: 2055.00 ft (KB)

Total Depth: 3566.00 ft (KB) (TVD)

2047.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8898 Outside

Press@RunDepth: 33.89 psig @ 3498.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.06

End Date:

2013.12.06

Last Calib.:

2013.12.06

Start Time: 05:24:28

End Time:

13:47:27

Time On Btm:

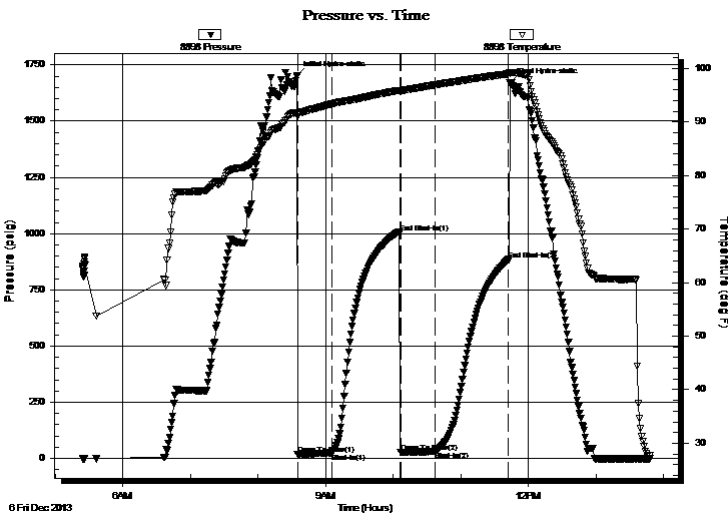
2013.12.06 @ 08:34:47

Time Off Btm:

2013.12.06 @ 11:43:17

TEST COMMENT: Weak surface blow built to 2 1/2 in
Dead no blow back
Weak surface blow built to 1 1/4 in
Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1701.97	91.75	Initial Hydro-static
1	18.64	90.97	Open To Flow (1)
31	24.55	93.32	Shut-In(1)
91	1002.88	95.94	End Shut-In(1)
92	28.93	95.80	Open To Flow (2)
122	33.89	96.91	Shut-In(2)
188	884.75	98.99	End Shut-In(2)
189	1672.93	99.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%O	0.02
10.00	30%O 70%M	0.05

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Test Start: 2013.12.06 @ 05:24:27

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: 41.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100%O	0.025
10.00	30%O 70%M	0.049

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

