



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Jones Oil, LLC.
112 N. Gray
St. John, KS 67576-1923
ATTN: Keaton Johnes

2-24s-14w Stafford Co., KS

Bookstore 4

Job Ticket: 52498 **DST#: 4**
Test Start: 2014.04.26 @ 01:29:42

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 03:23:12
Time Test Ended: 09:09:57
Interval: **3963.00 ft (KB) To 3994.00 ft (KB) (TVD)**
Total Depth: 3994.00 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: 1949.00 ft (KB)
1944.00 ft (CF)
KB to GR/CF: 5.00 ft

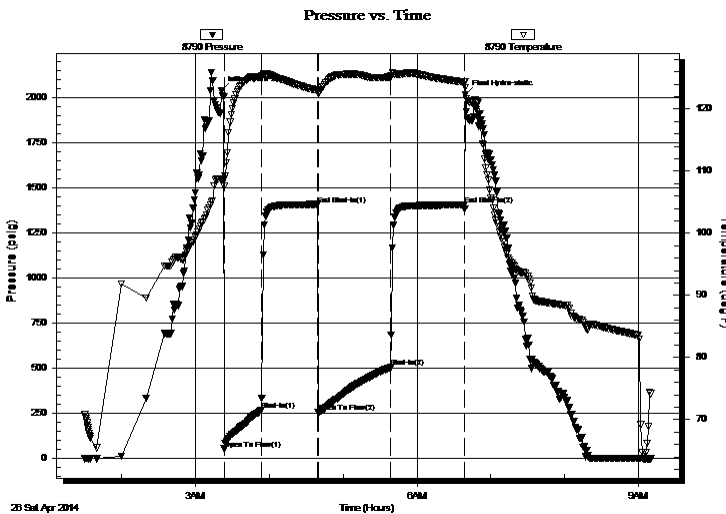
Serial #: 8790

Inside

Press @ Run Depth: 503.07 psig @ 3964.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.04.26 End Date: 2014.04.26 Last Calib.: 2014.04.26
Start Time: 01:29:47 End Time: 09:09:56 Time On Btm: 2014.04.26 @ 03:20:57
Time Off Btm: 2014.04.26 @ 06:39:27

TEST COMMENT: IF: Strong blow . BOB @ 5 1/2min.
IS: Strong blow . BOB @ 3min.
FF: Strong blow . BOB @ 4min. GTS @ 30min.
FS: Strong blow . BOB throughout

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2034.82	108.79	Initial Hydro-static
3	52.42	107.53	Open To Flow (1)
33	267.16	125.27	Shut-In(1)
78	1407.08	122.99	End Shut-In(1)
79	253.41	122.53	Open To Flow (2)
138	503.07	125.15	Shut-In(2)
198	1403.55	124.32	End Shut-In(2)
199	2014.52	123.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1040.00	VSLI OCGMW trc%o, 5%g, 5%m, 90%w	13.52

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	17.00	50.77
Last Gas Rate	0.25	15.00	47.59
Max. Gas Rate	0.25	18.00	52.35

* Recovery from multiple tests



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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: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

76000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1040.00	VSLI OCGMW trc%o, 5%g, 5%m, 90%w	13.523

Total Length: 1040.00 ft

Total Volume: 13.523 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: RR-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



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GAS RATES

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DST#: 4

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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)
2	30	0.25	17.00	50.77
2	40	0.25	17.00	50.77
2	50	0.25	18.00	52.35
2	60	0.25	15.00	47.59

