



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Russell Oil, Inc

21 11s 32w Logan, Ks

PO Box 8050
Edmond, OK

Rumback B 21-1

ATTN: Kitt Noah

Job Ticket: 59554

DST#: 4

Test Start: 2014.12.13 @ 09:11:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:06:15

Time Test Ended: 16:38:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 4582.00 ft (KB) To 4630.00 ft (KB) (TVD)

Reference Elevations: 3057.00 ft (KB)

Total Depth: 4230.00 ft (KB) (TVD)

3046.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8522 Outside

Press @ RunDepth: 499.95 psig @ 4583.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.13

End Date:

2014.12.13

Last Calib.:

2014.12.13

Start Time: 09:11:05

End Time:

16:38:14

Time On Btm:

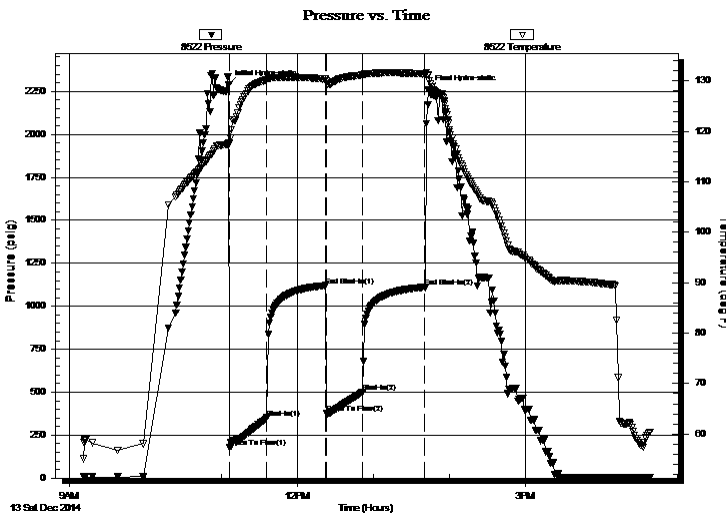
2014.12.13 @ 11:05:45

Time Off Btm:

2014.12.13 @ 13:43:00

TEST COMMENT: IF: BOB @ 3 min.
ISI BOB @ 30 min. Gassy oder - w ouldnt burn
FF: BOB @ 1 1/2 min.
FSI: BOB @ 40 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2290.21	117.65	Initial Hydro-static
1	177.21	117.66	Open To Flow (1)
30	347.10	130.19	Shut-In(1)
77	1120.86	130.34	End Shut-In(1)
77	379.34	129.97	Open To Flow (2)
106	499.95	131.15	Shut-In(2)
155	1111.02	131.37	End Shut-In(2)
158	2260.99	131.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
360.00	gmco 20g 20m 60o	1.77
90.00	gocm 25g 25o 50m	1.21
870.00	gsmco 30g 5m 65o	12.20
0.00	Gas to surface	0.00

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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DST#: 4

ATTN: Kitt Noah

Test Start: 2014.12.13 @ 09:11:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

24 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
360.00	gmco 20g 20m 60o	1.770
90.00	gocm 25g 25o 50m	1.208
870.00	gsmco 30g 5m 65o	12.204
0.00	Gas to surface	0.000

Total Length: 1320.00 ft

Total Volume: 15.182 bbl

Num Fluid Samples: 0

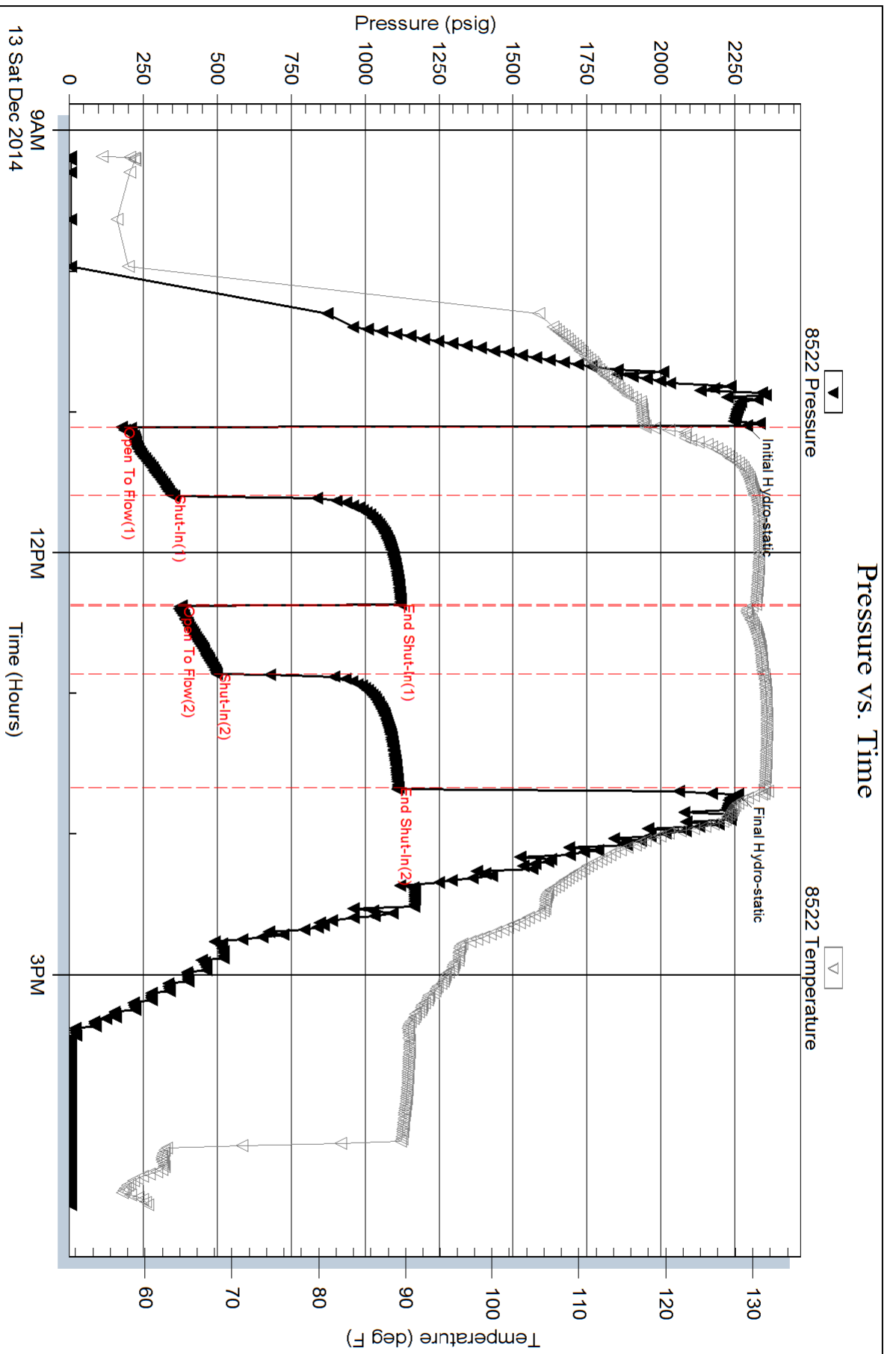
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 8365

Inside

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Runback B 21-1

DST Test Number: 4

