



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Russell Oil Inc
 P.O. Box 8050
 Edmond, Ok 73083
 ATTN: Kitt Noah

29-11s-32w Logan, Ks
Bowie 29-1
 Job Ticket: 63868 **DST#: 4**
 Test Start: 2017.08.06 @ 04:08:15

GENERAL INFORMATION:

Formation: **LKC I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:49:45
 Time Test Ended: 10:57:45
 Interval: **4243.00 ft (KB) To 4274.00 ft (KB) (TVD)**
 Total Depth: 4274.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3078.00 ft (KB)
 3073.00 ft (CF)
 KB to GR/CF: 5.00 ft

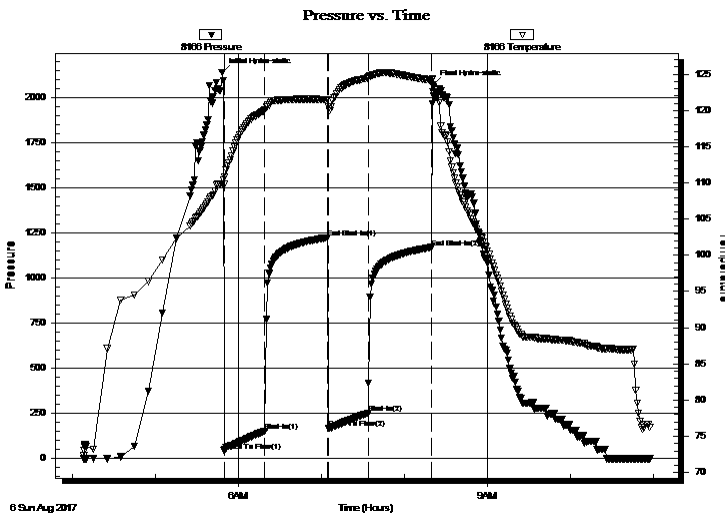
Serial #: 8166

Outside

Press@RunDepth: 250.63 psig @ 4244.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.08.06 End Date: 2017.08.06 Last Calib.: 2017.08.06
 Start Time: 04:08:20 End Time: 10:57:44 Time On Btm: 2017.08.06 @ 05:48:15
 Time Off Btm: 2017.08.06 @ 08:20:45

TEST COMMENT: IF: BOB in 3 min.
 IS: BOB in 7 min.
 FF: BOB in 5 min.
 FS: BOB in 9 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2141.64	109.88	Initial Hydro-static
2	42.69	109.80	Open To Flow (1)
31	152.79	120.06	Shut-In(1)
76	1224.47	121.48	End Shut-In(1)
77	166.76	120.55	Open To Flow (2)
106	250.63	124.49	Shut-In(2)
151	1170.35	124.17	End Shut-In(2)
153	2074.66	122.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	gocm 40%g 10%o 50%m	0.65
248.00	mogo 20%g 70%o 10%m	3.48
298.00	go 20%g 80%o	4.18
0.00	1810 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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29-11s-32w Logan, Ks

P.O. Box 8050
Edmond, Ok 73083

Bowie 29-1

Job Ticket: 63868

DST#: 4

ATTN: Kitt Noah

Test Start: 2017.08.06 @ 04:08:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	gocm 40%g 10%o 50%m	0.646
248.00	mcgo 20%g 70%o 10%m	3.479
298.00	go 20%g 80%o	4.180
0.00	1810 GIP	0.000

Total Length: 670.00 ft

Total Volume: 8.305 bbl

Num Fluid Samples: 0

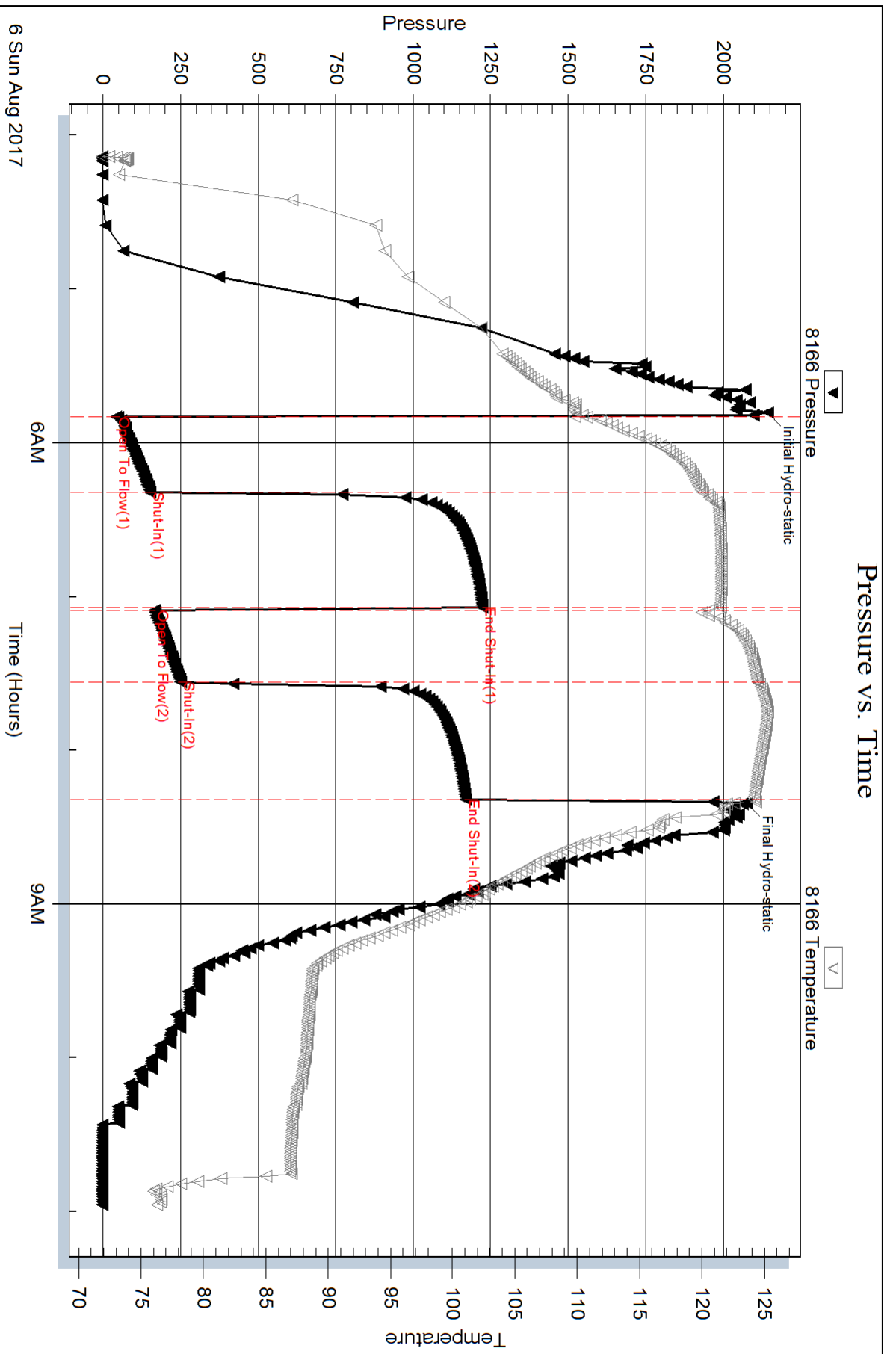
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 36@70=35



Serial #: 8875

Inside

Russell Oil Inc

Bowie 29-1

DST Test Number: 4

