



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: 63867 **DST#: 3**
 Test Start: 2017.08.05 @ 13:40:23

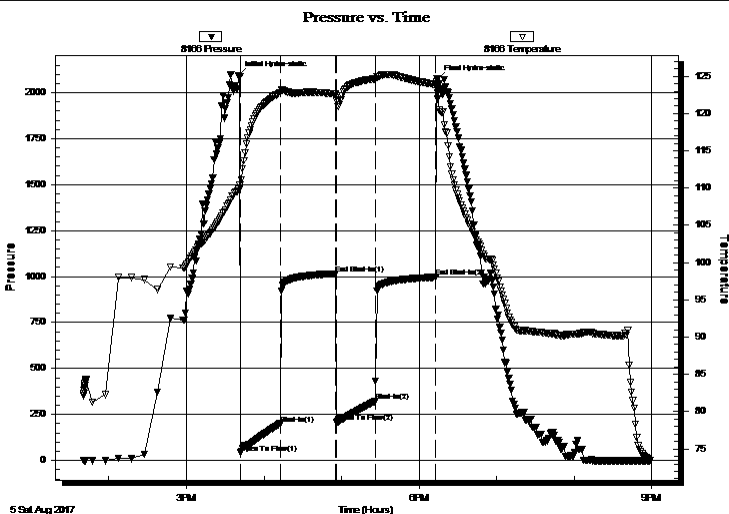
GENERAL INFORMATION:

Formation: **LKC H**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:41:53
 Time Test Ended: 20:58:23
Interval: 4214.00 ft (KB) To 4245.00 ft (KB) (TVD)
 Total Depth: 4245.00 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: 320.93 psig @ 4215.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.08.05 End Date: 2017.08.05 Last Calib.: 2017.08.05
 Start Time: 13:40:28 End Time: 20:58:22 Time On Btm: 2017.08.05 @ 15:40:23
 Time Off Btm: 2017.08.05 @ 18:13:53

TEST COMMENT: IF: BOB in 4 min.
 IS: BOB in 15 min.
 FF: BOB in 7 min.
 FS: 1/4 blow built to 5 died in a surface blow.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2090.41	109.80	Initial Hydro-static
2	41.64	110.02	Open To Flow (1)
32	199.13	122.83	Shut-In(1)
75	1016.01	122.58	End Shut-In(1)
76	205.44	122.08	Open To Flow (2)
106	320.93	124.62	Shut-In(2)
153	997.01	123.86	End Shut-In(2)
154	2073.31	124.03	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
186.00	gocm 30%g 10%o 60%m	1.52
186.00	mago 15%g 80%m 5%o	2.61
484.00	go 10%g 90%o	6.79
0.00	1500 GIP	0.00

* Recovery from multiple tests

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



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Bowie 29-1

Job Ticket: 63867 **DST#: 3**

Test Start: 2017.08.05 @ 13:40:23

GENERAL INFORMATION:

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Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:41:53

Time Test Ended: 20:58:23

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4214.00 ft (KB) To 4245.00 ft (KB) (TVD)

Total Depth: 4245.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3078.00 ft (KB)

3073.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8875 Inside

Press@RunDepth: psig @ 4215.00 ft (KB)

Start Date: 2017.08.05 End Date: 2017.08.05

Start Time: 13:40:37 End Time: 20:58:31

Capacity: 8000.00 psig

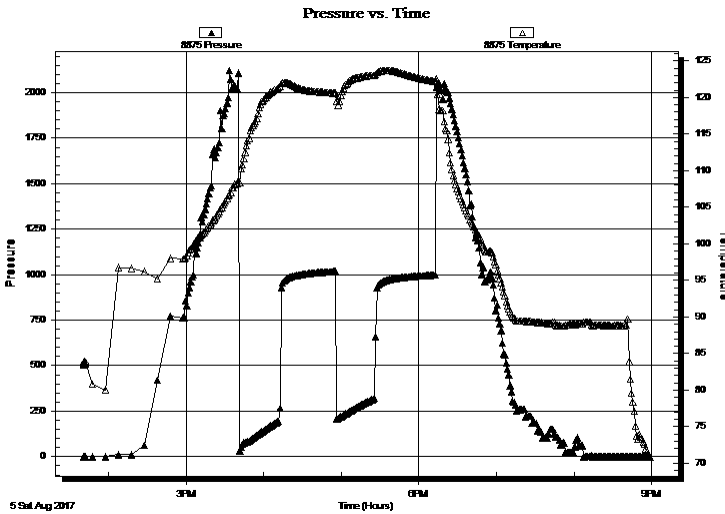
Last Calib.: 2017.08.05

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB in 4 min.
IS: BOB in 15 min.
FF: BOB in 7 min.
FS: 1/4 blow built to 5 died in a surface blow.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
186.00	gocm 30%g 10%o 60%m	1.52
186.00	mcgo 15%g 80%m 5%o	2.61
484.00	go 10%g 90%o	6.79
0.00	1500 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc

29-11s-32w Logan, Ks

P.O. Box 8050
Edmond, Ok 73083

Bowie 29-1

Job Ticket: 63867

DST#: 3

ATTN: Kitt Noah

Test Start: 2017.08.05 @ 13:40:23

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 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 bbbl
186.00	gocm 30%g 10%o 60%m	1.516
186.00	mcgo 15%g 80%m 5%o	2.609
484.00	go 10%g 90%o	6.789
0.00	1500 GIP	0.000

Total Length: 856.00 ft

Total Volume: 10.914 bbl

Num Fluid Samples: 0

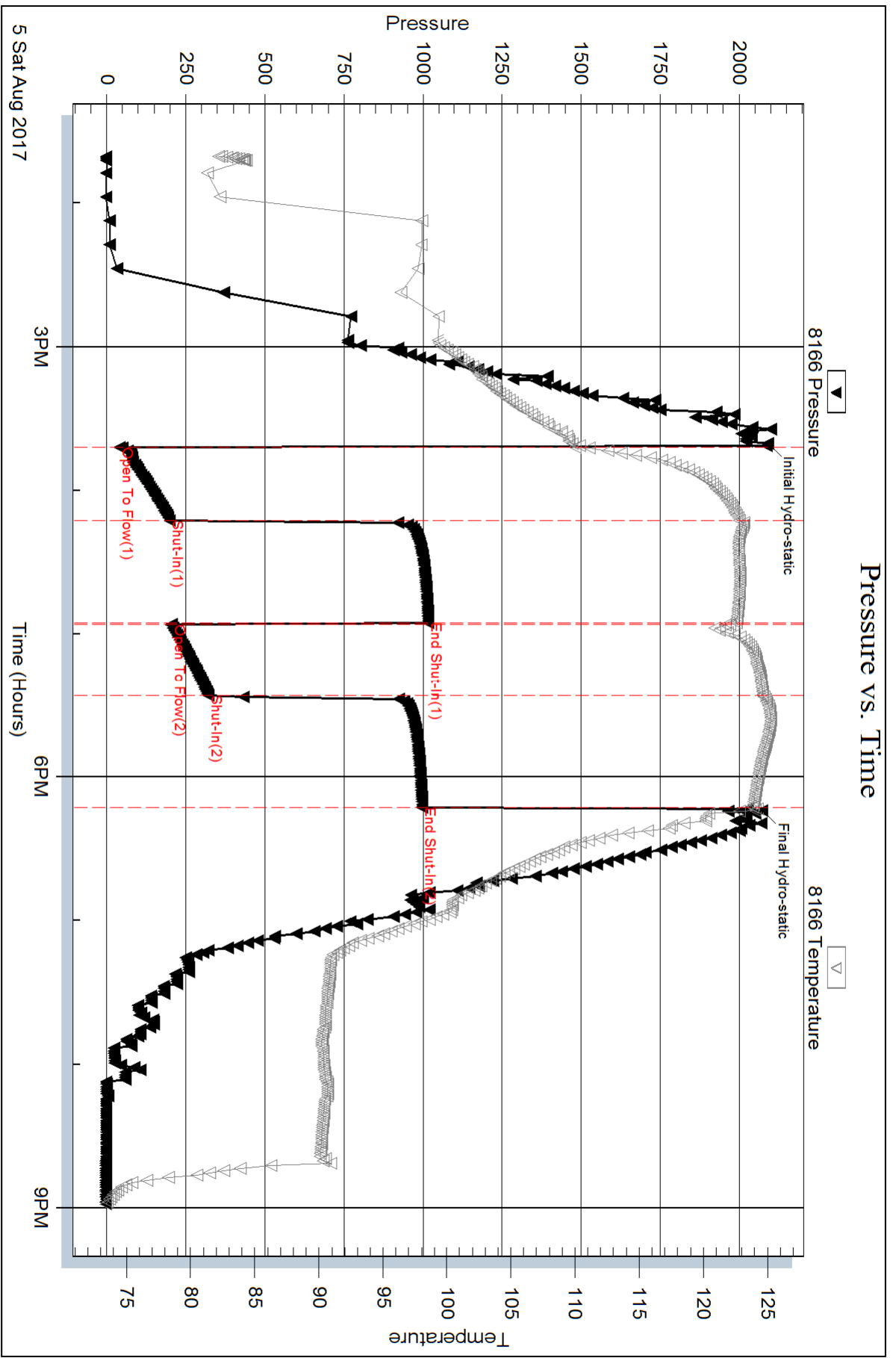
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 38@80=36



Serial #: 8875

Inside

Russell Oil Inc

Bowie 29-1

DST Test Number: 3

