



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grunder Oil LLC
 122S Main St John KS 67576
 ATTN: Keaton Jones

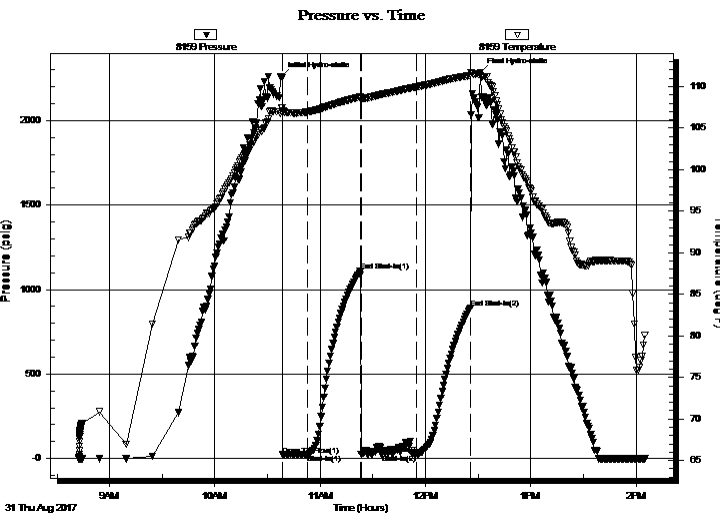
14-2s-13w Stafford
Grunder 2
 Job Ticket: 63624 **DST#: 2**
 Test Start: 2017.08.31 @ 08:42:17

GENERAL INFORMATION:

Formation: **Simpson**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 10:38:47
 Tester: Leal Cason
 Time Test Ended: 14:05:32
 Unit No: 74
 Interval: **4201.00 ft (KB) To 4238.00 ft (KB) (TVD)**
 Reference Elevations: 1933.00 ft (KB)
 Total Depth: 4238.00 ft (KB) (TVD)
 1927.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 6.00 ft

Serial #: 8159 **Inside**
 Press@RunDepth: 23.28 psig @ 4202.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.08.31 End Date: 2017.08.31 Last Calib.: 2017.08.31
 Start Time: 08:42:18 End Time: 14:05:32 Time On Btm: 2017.08.31 @ 10:38:02
 Time Off Btm: 2017.08.31 @ 12:31:17

TEST COMMENT: IF: Weak Surface Blow
 IS: No Blow Back
 FF: Weak Surface Blow
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2261.17	107.45	Initial Hydro-static
1	21.73	106.86	Open To Flow (1)
15	24.95	106.96	Shut-In(1)
45	1107.81	108.74	End Shut-In(1)
46	22.88	108.32	Open To Flow (2)
77	23.28	109.94	Shut-In(2)
108	889.18	111.34	End Shut-In(2)
114	2284.85	111.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.07

* Recovery from multiple tests

Gas Rates

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



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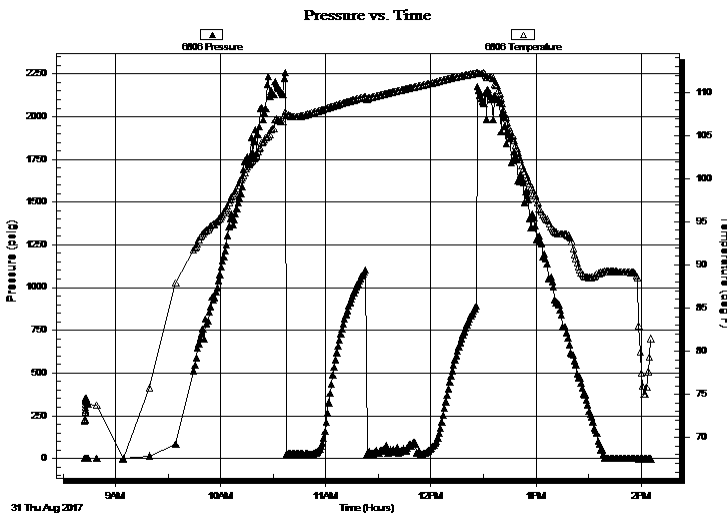
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Time Test Ended: 14:05:32 Unit No: 74

Interval: **4201.00 ft (KB) To 4238.00 ft (KB) (TVD)** Reference Elevations: 1933.00 ft (KB)
Total Depth: 4238.00 ft (KB) (TVD) 1927.00 ft (CF)
Hole Diameter: 7.88 inchesHole Condition: Good KB to GR/CF: 6.00 ft

Serial #: 6806 Outside
Press@RunDepth: psig @ 4202.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.08.31 End Date: 2017.08.31 Last Calib.: 2017.08.31
Start Time: 08:42:18 End Time: 14:05:47 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Weak Surface Blow
IS: No Blow Back
FF: Weak Surface Blow
FS: No Blow Back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.07

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

Grunder Oil LLC
122S Main St John KS 67576
ATTN: Keaton Jones

14-2s-13w Stafford
Grunder 2
Job Ticket: 63624 **DST#: 2**
Test Start: 2017.08.31 @ 08:42:17

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:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.58 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 8159

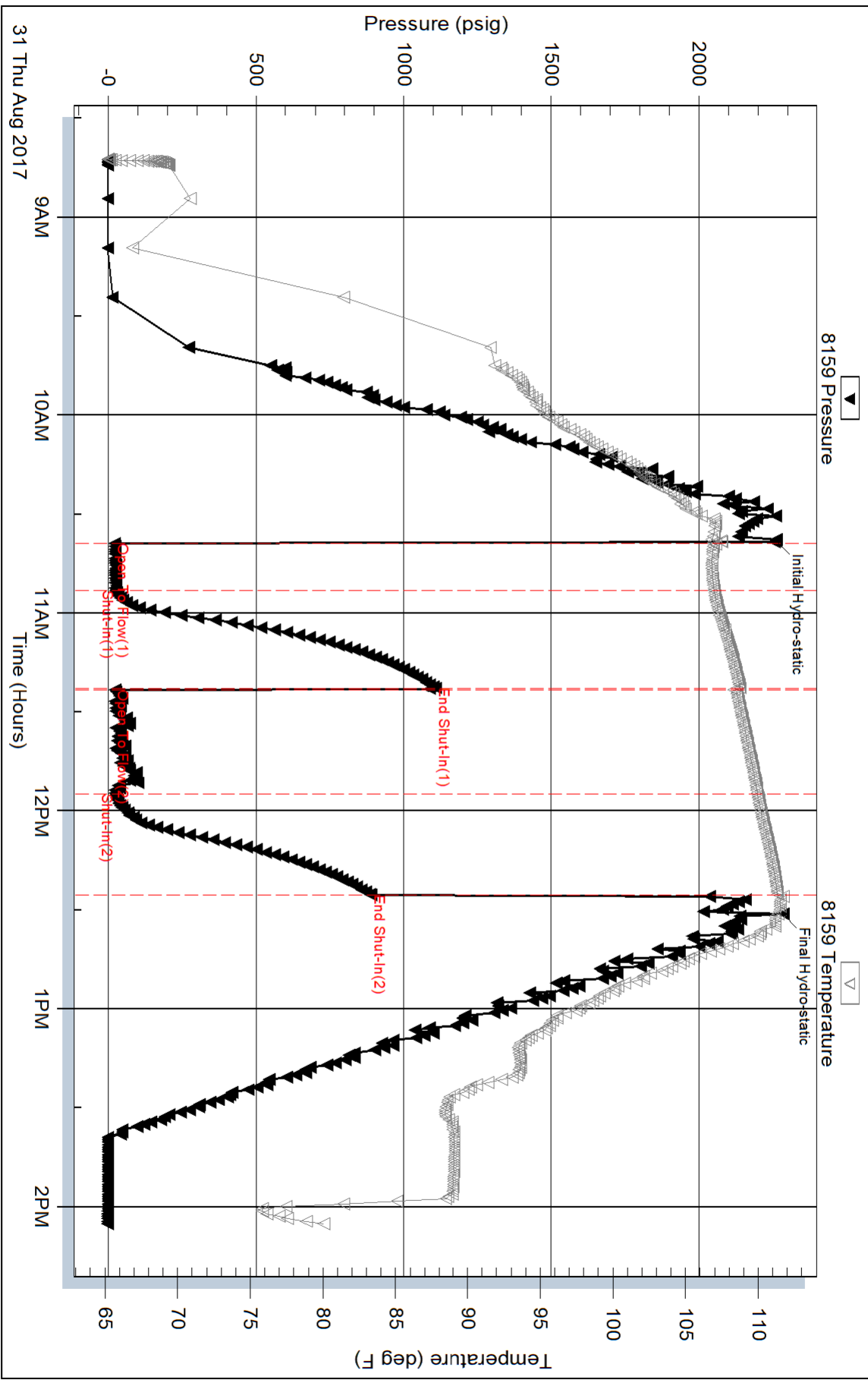
Inside

Grunder Oil LLC

Grunder 2

DST Test Number: 2

Pressure vs. Time



Serial #: 6806

Outside Grunder Oil LLC

Grunder 2

DST Test Number: 2

