



DRILL STEM TEST REPORT

Prepared For: **Werth Exploration Trust**

1308 Schwaller Ave. Hays
Kansas 67601

ATTN: Bob Hopkins

Stevenson Sol #5

27-7s-27w-Graham

Start Date: 2013.06.01 @ 08:00:00

End Date: 2013.06.01 @ 13:09:30

Job Ticket #: 18387 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2013.06.04 @ 14:10:43



DRILL STEM TEST REPORT

Werth Exploration Trust
 1308 Schwaller Ave. Hays
 Kansas 67601
 ATTN: Bob Hopkins

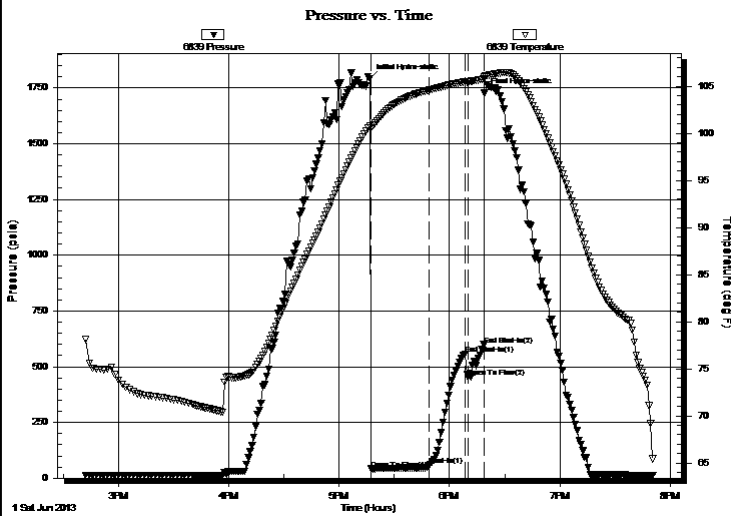
27-7s-27w-Graham
Stevenson Sol #5
 Job Ticket: 18387 **DST#: 1**
 Test Start: 2013.06.01 @ 08:00:00

GENERAL INFORMATION:

Formation: **Lansing J-K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:36:30
 Time Test Ended: 13:09:30
 Interval: **3606.00 ft (KB) To 3637.00 ft (KB) (TVD)**
 Total Depth: 3693.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-240
 Reference Elevations: 2222.00 ft (KB)
 2213.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6839 Outside
 Press @ RunDepth: 58.53 psia @ 3636.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.06.01 End Date: 2013.06.01 Last Calib.: 2013.06.02
 Start Time: 14:42:00 End Time: 19:50:30 Time On Btm: 2013.06.01 @ 17:16:30
 Time Off Btm: 2013.06.01 @ 18:19:00

TEST COMMENT: 1st Open 30 minutes Very weak surface blow that died off after 21 minutes.
 1st Shut in 30 minutes No blow back
 2nd Open 6 minutes Dead
 2nd Shut in 1 minute. No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1791.86	100.81	Initial Hydro-static
1	41.66	100.62	Open To Flow (1)
33	58.53	104.59	Shut-In(1)
52	556.80	105.46	End Shut-In(1)
54	454.01	105.46	Open To Flow (2)
62	598.55	105.74	End Shut-In(2)
63	1728.56	106.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%	0.14

Gas Rates

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



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27-7s-27w-Graham

Stevenson Sol #5

Job Ticket: 18387

DST#: 1

Test Start: 2013.06.01 @ 08:00:00

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Formation: **Lansing J-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:36:30

Time Test Ended: 13:09:30

Test Type: Conventional Straddle (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-240

Interval: 3606.00 ft (KB) To 3637.00 ft (KB) (TVD)

Reference Elevations: 2222.00 ft (KB)

Total Depth: 3693.00 ft (KB) (TVD)

2213.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 6806

Inside

Press @ RunDepth: 596.92 psia @ 3635.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.06.01

End Date:

2013.06.01

Last Calib.:

2013.06.02

Start Time: 14:42:00

End Time:

19:50:30

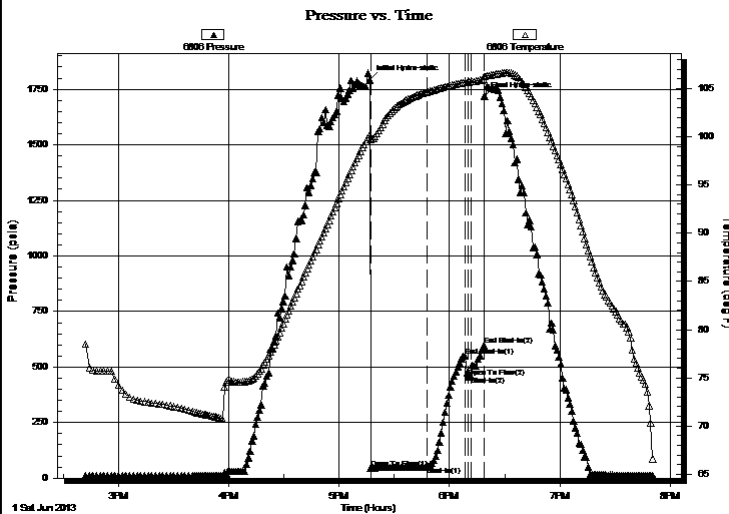
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2013.06.01 @ 17:16:30

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2013.06.01 @ 18:19:00

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PRESSURE SUMMARY

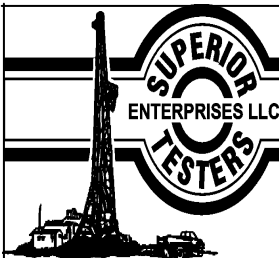
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1792.02	100.20	Initial Hydro-static
1	44.97	99.73	Open To Flow (1)
32	51.72	104.67	Shut-In(1)
52	549.58	105.64	End Shut-In(1)
54	455.56	105.66	Open To Flow (2)
55	457.85	105.70	Shut-In(2)
62	596.92	105.94	End Shut-In(2)
63	1719.07	106.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%	0.14

Gas Rates

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



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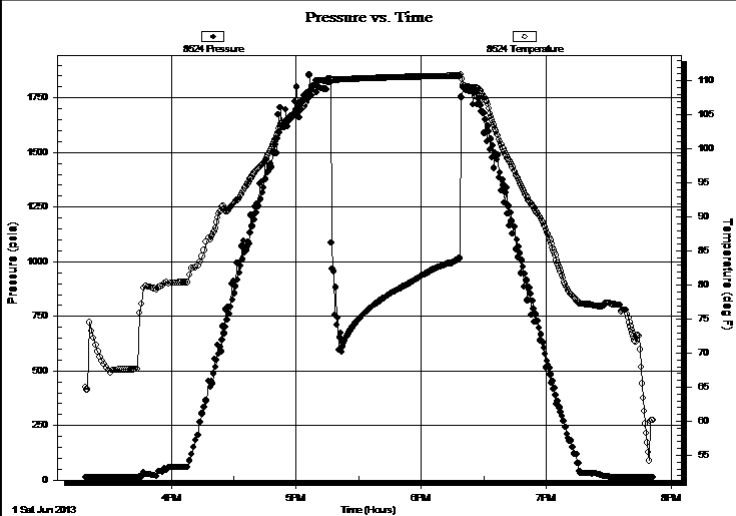
27-7s-27w-Graham
Stevenson Sol #5
Job Ticket: 18387 **DST#: 1**
Test Start: 2013.06.01 @ 08:00:00

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Formation: **Lansing J-K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:36:30
Time Test Ended: 13:09:30
Interval: **3606.00 ft (KB) To 3637.00 ft (KB) (TVD)**
Total Depth: **3693.00 ft (KB) (TVD)**
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Straddle (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend-240
Reference Elevations: 2222.00 ft (KB)
2213.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: **8524** **Outside**
Press @ RunDepth: psia @ 3694.79 ft (KB) Capacity: 5000.00 psia
Start Date: 2013.06.01 End Date: 2013.06.01 Last Calib.: 2013.06.02
Start Time: 08:38:00 End Time: 19:50:53 Time On Btm:
Time Off Btm:

TEST COMMENT: 1st Open 30 minutes Very weak surface blow that died off after 21 minutes.
1st Shut in 30 minutes No blow back
2nd Open 6 minutes Dead
2nd Shut in 1 minute. No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%	0.14

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Werth Exploration Trust
 1308 Schwaller Ave. Hays
 Kansas 67601
 ATTN: Bob Hopkins

27-7s-27w-Graham
Stevenson Sol #5
 Job Ticket: 18387 **DST#: 1**
 Test Start: 2013.06.01 @ 08:00:00

Tool Information

Drill Pipe:	Length: 3605.00 ft	Diameter: 3.80 inches	Volume: 50.57 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 50.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3606.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	3637.00 ft			
Interval between Packers:	31.00 ft			
Tool Length:	119.79 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3583.00	
Hydraulic Tool	5.00			3588.00	
Jars	6.00			3594.00	
Safety Joint	2.00			3596.00	
Top Packer	5.00			3601.00	
Packer	5.00			3606.00	28.00 Bottom Of Top Packer
Anchor	28.00			3634.00	
Recorder	1.00	6806	Inside	3635.00	
Recorder	1.00	6839	Outside	3636.00	
Blank Off Sub	1.00			3637.00	31.00 Tool Interval
Packer	5.00			3642.00	
Bottom Packer	5.00			3647.00	
Change Over Sub	0.75			3647.75	
Drill Pipe	30.29			3678.04	
Change Over Sub	0.75			3678.79	
Anchor	15.00			3693.79	
Recorder	1.00	8524	Outside	3694.79	
Bullnose	3.00			3697.79	60.79 Bottom Packers & Anchor

Total Tool Length: 119.79



DRILL STEM TEST REPORT

FLUID SUMMARY

Werth Exploration Trust

27-7s-27w-Graham

1308 Schwaller Ave. Hays
Kansas 67601

Stevenson Sol #5

Job Ticket: 18387

DST#: 1

ATTN: Bob Hopkins

Test Start: 2013.06.01 @ 08:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 250.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100%	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

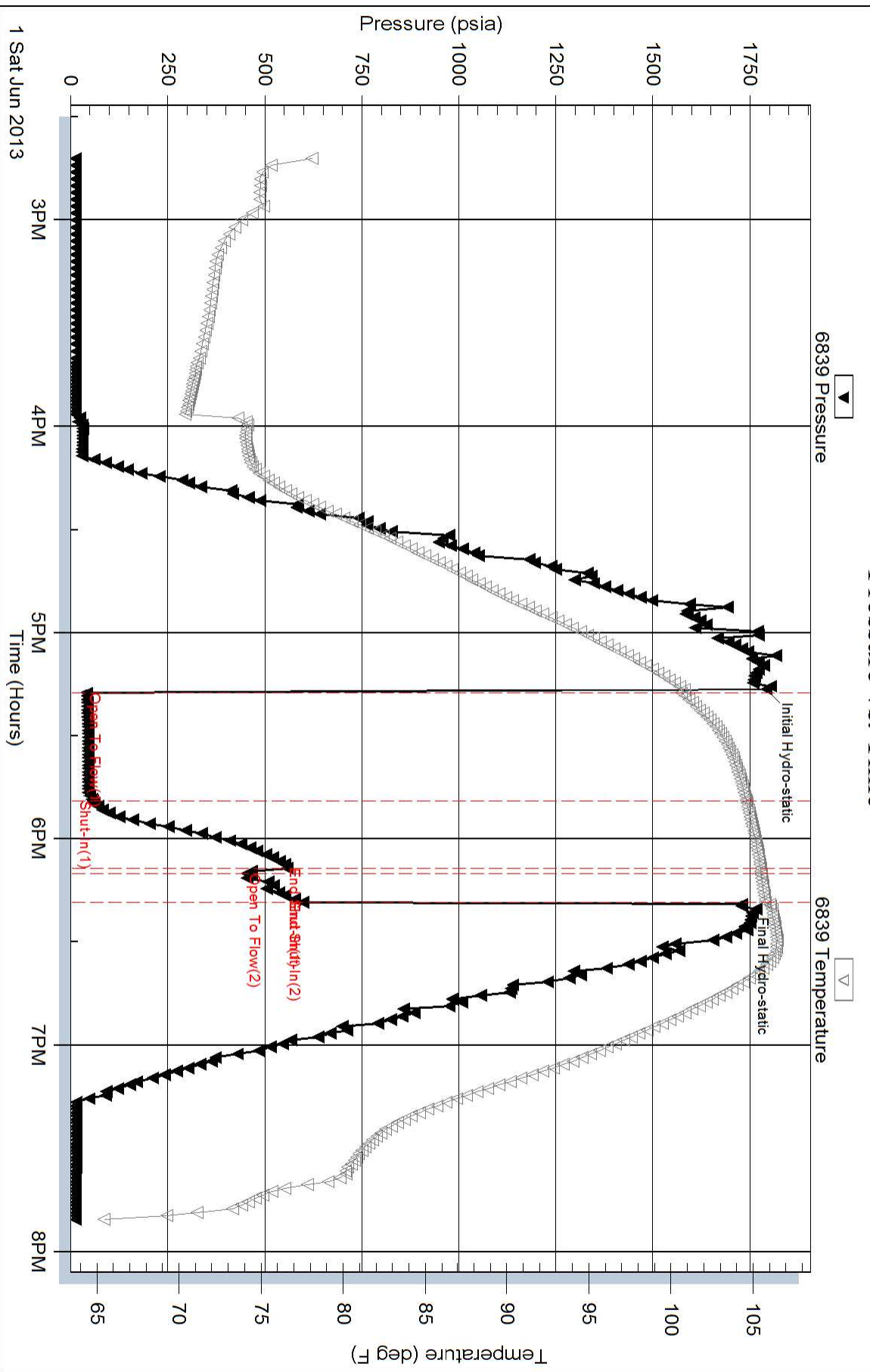
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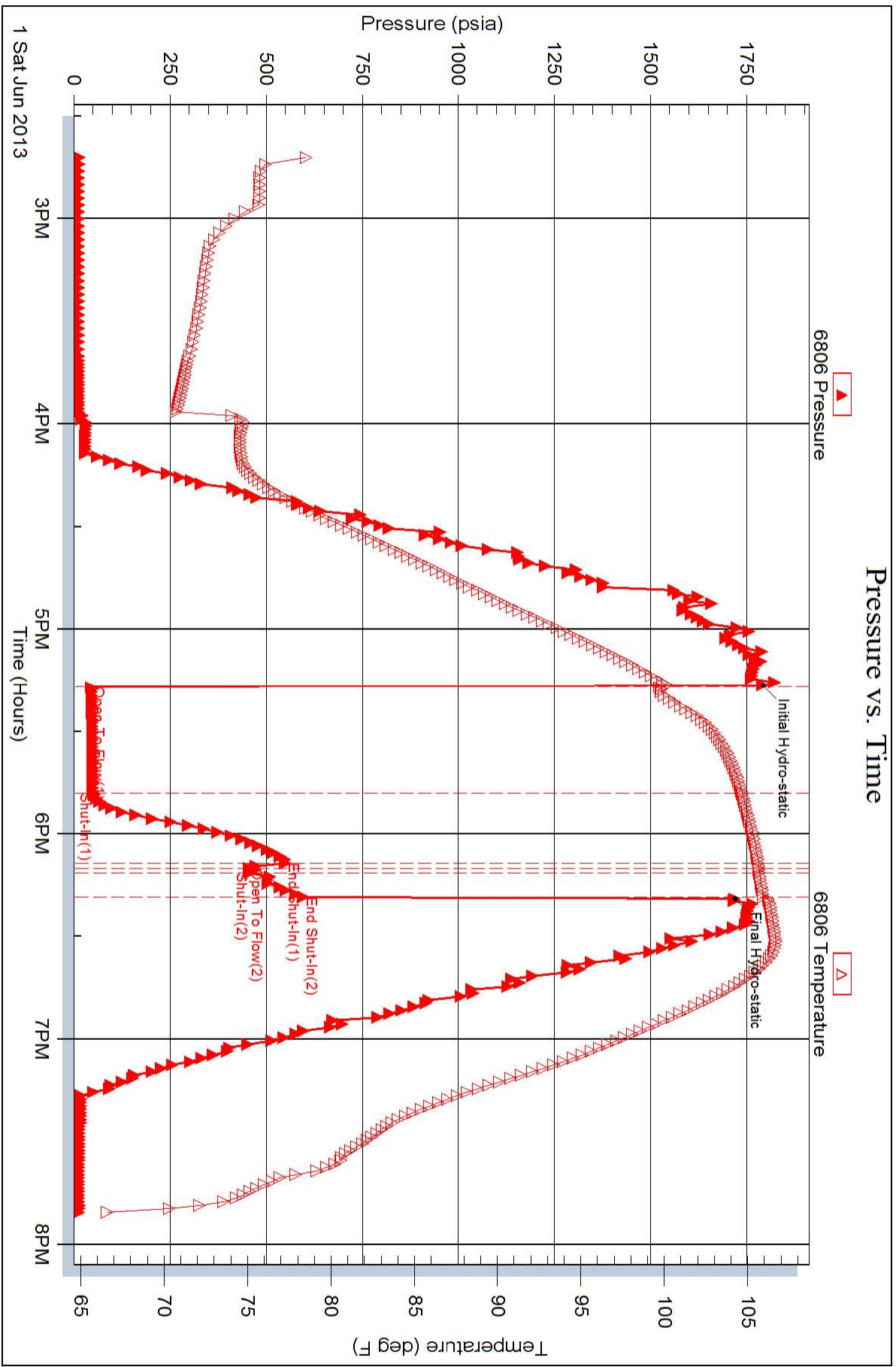
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



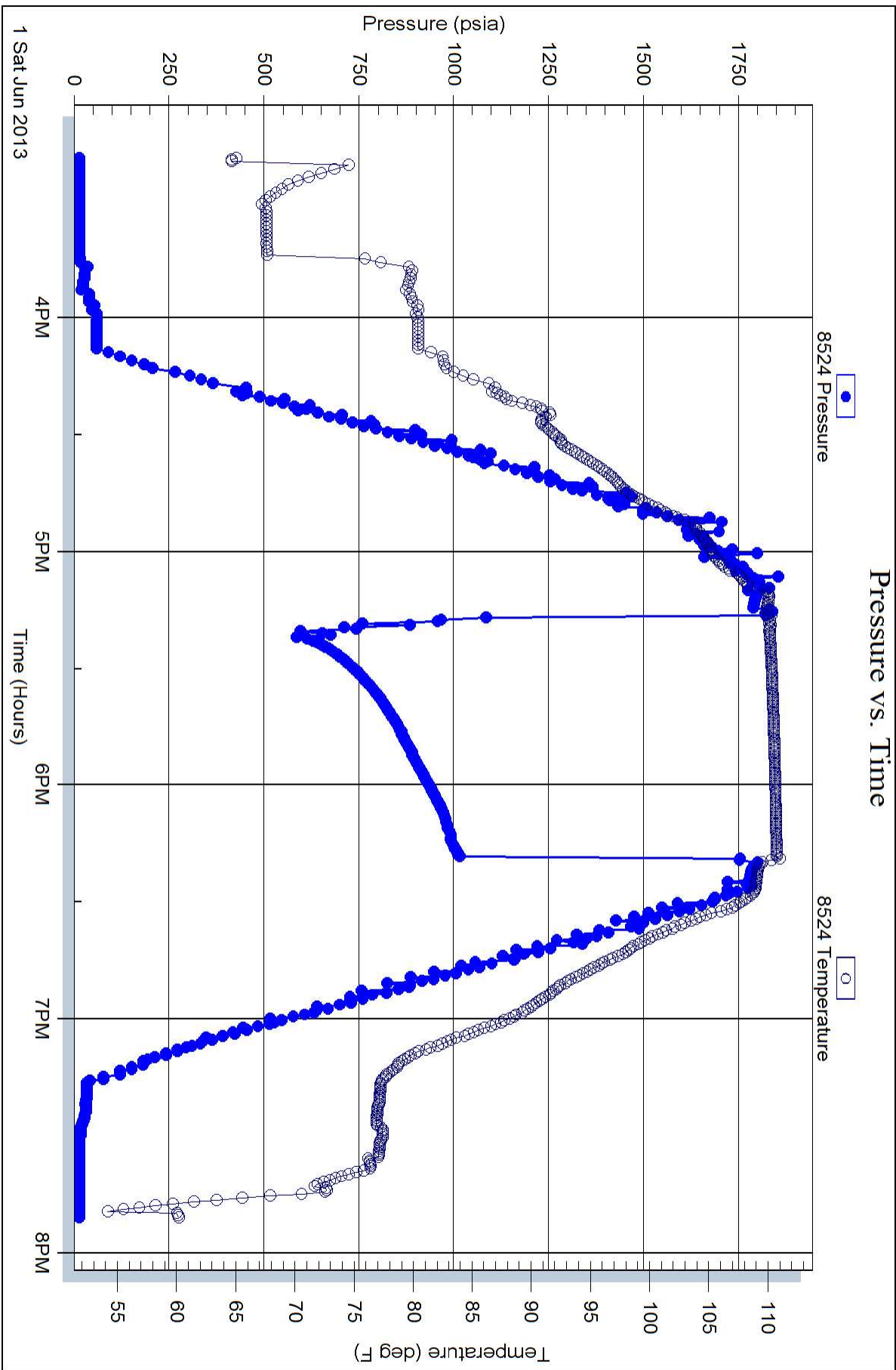


Serial #: 8524

Outside Werth Exploration Trust

Stevenson Sol#5

DST Test Number: 1



Superior Testers Enterprises LLC

Ref. No: 18387

Printed: 2013.06.04 @ 14:10:44