

**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Prospect Oil & Gas, Inc.  
 PO Box 837  
 Russell, KS 67665  
 ATTN: Brad Hutchison

**DeYoung C #1**  
**11-10s-21w-Graham,KS**  
 Job Ticket: 43561 **DST#:2**  
 Test Start: 2011.08.18 @ 02:23:04

## GENERAL INFORMATION:

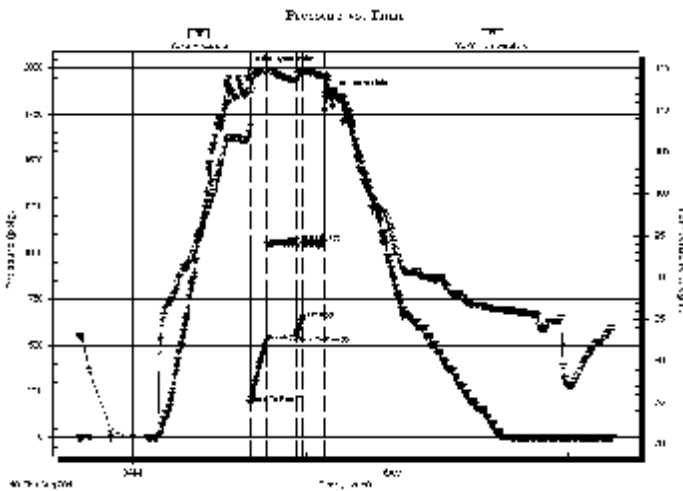
Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:20:49  
 Time Test Ended: 08:30:34  
 Interval: **3834.00 ft (KB) To 3844.00 ft (KB) (TVD)**  
 Total Depth: 3917.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Straddle (Reset)  
 Tester: Jason McLemore  
 Unit No: 54  
 Reference Elevations: 2276.00 ft (KB)  
 2269.00 ft (CF)  
 KB to GR/CF: 7.00 ft

## Serial #: 8673

## Inside

Press @ Run Depth: 644.58 psig @ 3835.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.08.18 End Date: 2011.08.18 Last Calib.: 2011.08.18  
 Start Time: 02:23:06 End Time: 08:30:34 Time On Btm: 2011.08.18 @ 04:20:34  
 Time Off Btm: 2011.08.18 @ 05:13:04

TEST COMMENT: IFP-Strong, BOB in 48 Seconds  
 ISI-Dead  
 FFP\_Strong, BOB in 48 Seconds  
 FSI-Dead



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1992.05	107.72	Initial Hydro-static
1	186.66	108.31	Open To Flow (1)
12	519.06	114.65	Shut-In(1)
32	1063.51	113.67	End Shut-In(1)
33	552.90	113.41	Open To Flow (2)
37	644.58	114.58	Shut-In(2)
52	1060.86	114.04	End Shut-In(2)
53	1854.78	114.14	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
360.00	V SOCMW-1%O-94%W-5%M	5.05
660.00	OCMW-15%O-80%W-5%M	9.26
195.00	HO CMW-30%O-55%W-15%M	2.74

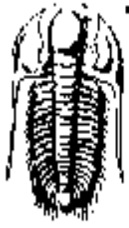
## Gas Rates

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

\* R Recovery from multiple tests







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**TOOL DIAGRAM**

Prospect Oil & Gas, Inc.

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ATTN: Brad Hutchison

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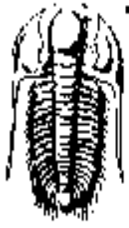
## Tool Information

Drill Pipe:	Length: 3829.00 ft	Diameter: 3.80 inches	Volume: 53.71 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 53.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3834.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	3844.00 ft			
Interval between Packers:	10.00 ft			
Tool Length:	107.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	6755	Fluid	3809.00	
Change Over Sub	5.00			3814.00	
Shut In Tool	5.00			3819.00	
Hydraulic tool	5.00			3824.00	
Packer	5.00			3829.00	25.00 Bottom Of Top Packer
Packer	5.00			3834.00	
Stubb	1.00			3835.00	
Recorder	0.00	8673	Inside	3835.00	
Recorder	0.00	6668	Outside	3835.00	
Perforations	5.00			3840.00	
Blank Off Sub	1.00			3841.00	
Blank Spacing	3.00			3844.00	10.00 Tool Interval
Packer	1.00			3845.00	
Perforations	3.00			3848.00	
Change Over Sub	1.00			3849.00	
Recorder	0.00	8736	Below	3849.00	
Blank Spacing	63.00			3912.00	
Change Over Sub	1.00			3913.00	
Bullnose	3.00			3916.00	72.00 Bottom Packers & Anchor

**Total Tool Length: 107.00**



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**FLUID SUMMARY**

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**11-10s-21w-Graham,KS**

Job Ticket: 43561

**DST#:2**

ATTN: Brad Hutchison

Test Start: 2011.08.18 @ 02:23:04

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	19000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 cm <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2900.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
360.00	VSOCMW-1%O-94%W-5%M	5.050
660.00	OCMW-15%O-80%W-5%M	9.258
195.00	HOCMW-30%O-55%W-15%M	2.735

Total Length: 1215.00 ft      Total Volume: 17.043 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8673

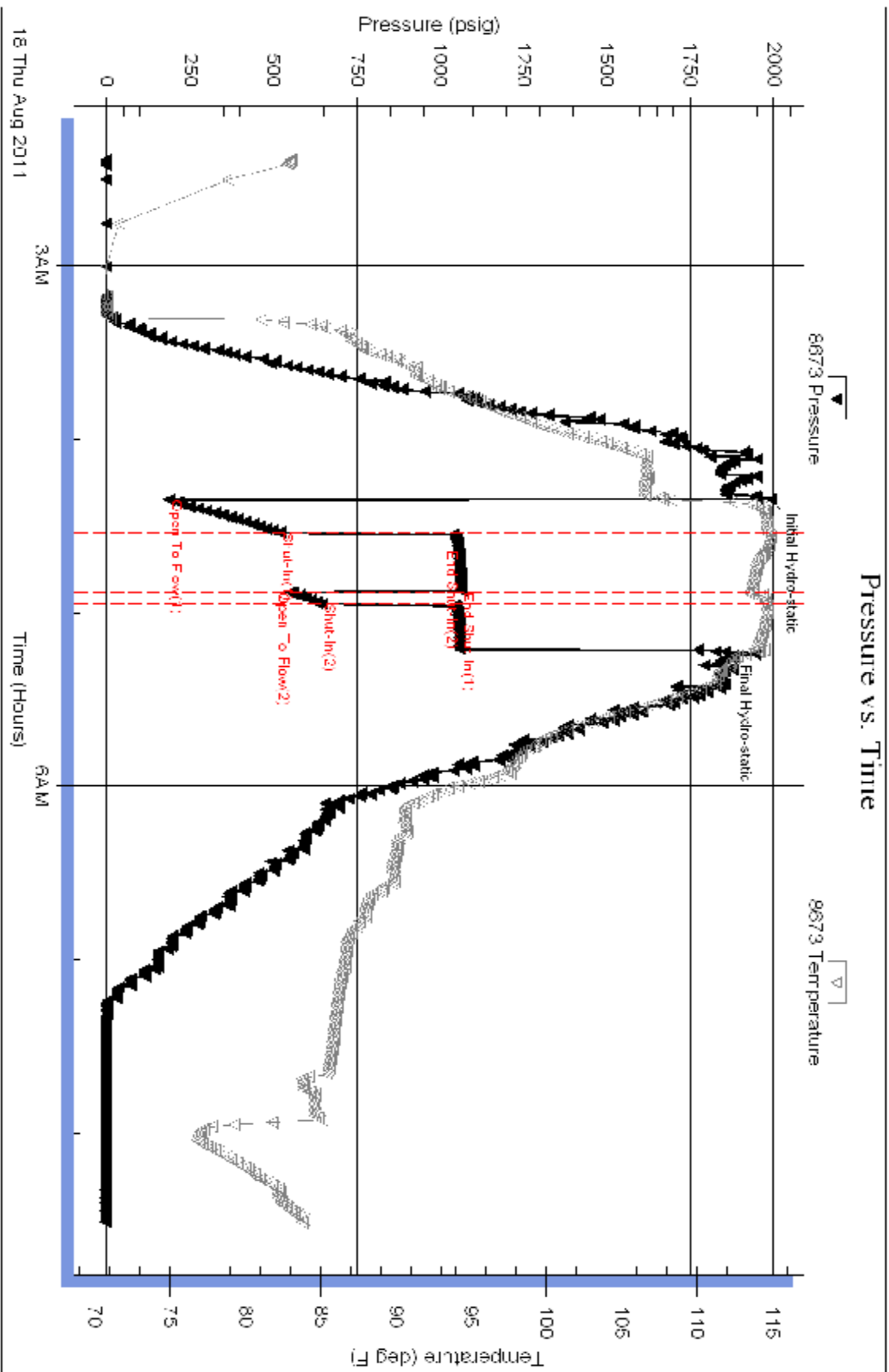
Inside

Prospect Oil & Gas, Inc.

11-109-21w-Graham, KS

DST Test Number: 2

### Pressure vs. Time



Triolite Testing, Inc

Ref. No. 48561

Printed: 2012.03.21 @ 09:49:36

Serial #: 6755

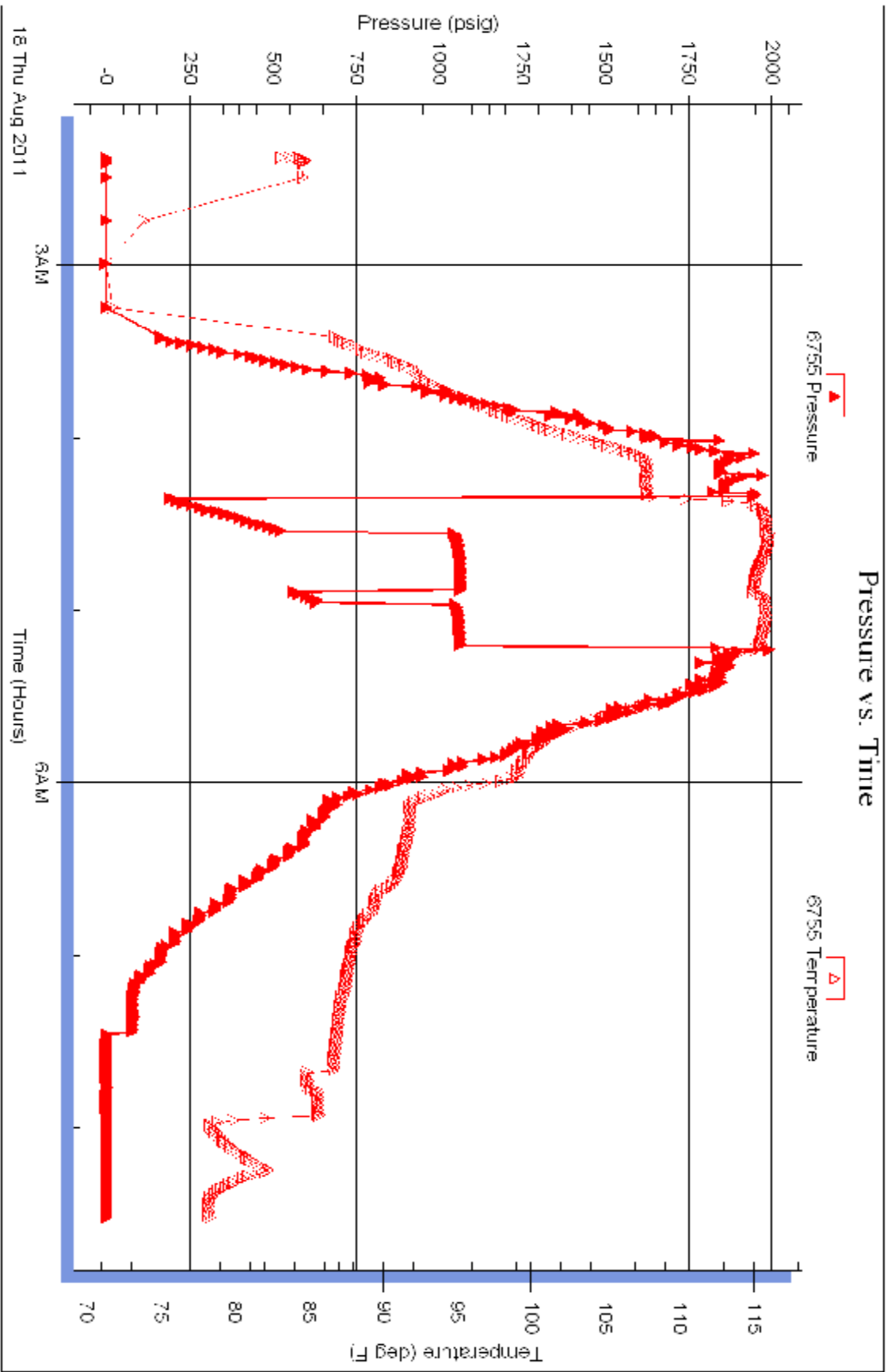
Fluid

Prospect Oil & Gas, Inc.

11-109-21w--Graham, KS

DST Test Number: 2

### Pressure vs. Time



Triolite Testing, Inc

Ref. No. 48561

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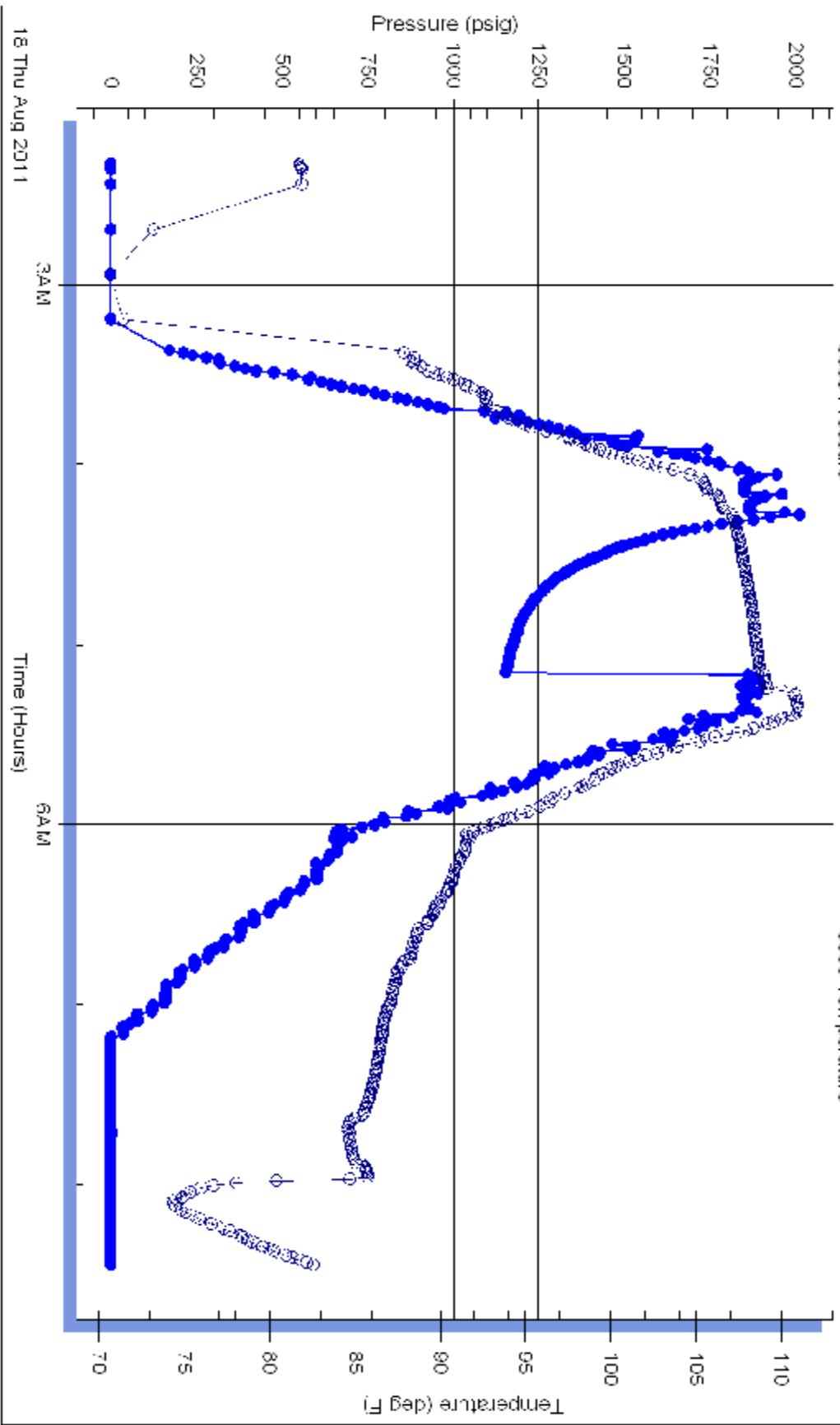
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Outside Prospect Oil & Gas, Inc.

11-109-21w-Graham, KS

DST Test Number: 2

### Pressure vs. Time



Triolite Testing, Inc

Ref. No. 48561

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