



DRILL STEM TEST REPORT

Prepared For: **Alan Vonfeldt**

PO Box 611
Russell, KS 67665

ATTN: Steve Reed

Michaelis #2

33-14S-13W Russell,KS

Start Date: 2014.09.10 @ 15:34:00

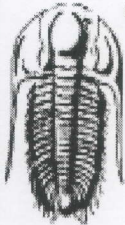
End Date: 2014.09.10 @ 21:25:30

Job Ticket #: 60903 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.12 @ 14:28:59

Alan Vonfeldt
33-14S-13W Russell,KS
Michaelis #2
DST # 3
Arbuckle
2014.09.10



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Alan Vonfeldt

33-14S-13W Russell, KS

PO Box 611
Russell, KS 67665

Michaelis #2

Job Ticket: 60903

DST#: 3

ATTN: Steve Reed

Test Start: 2014.09.10 @ 15:34:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:03:00

Time Test Ended: 21:25:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 62

Interval: **3124.00 ft (KB) To 3156.00 ft (KB) (TVD)**

Total Depth: 3156.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1725.00 ft (KB)

1718.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8655 Outside

Press@RunDepth: 49.89 psig @ 3125.00 ft (KB)

Start Date: 2014.09.10

End Date: 2014.09.10

Start Time: 15:34:01

End Time: 21:25:30

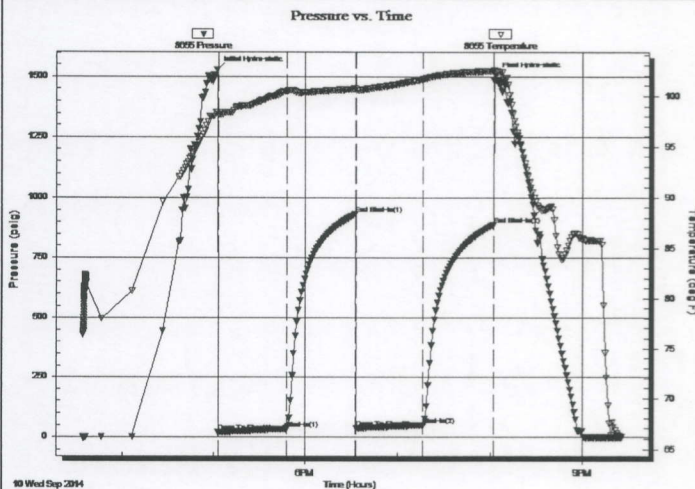
Capacity: 8000.00 psig

Last Calib.: 2014.09.10

Time On Btm: 2014.09.10 @ 17:02:30

Time Off Btm: 2014.09.10 @ 20:03:30

TEST COMMENT: 45- IF- Slowly built to 4"
45- IS- No blow
45- FF- Slowly built to 2"
45- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1527.75	98.39	Initial Hydro-static
1	19.50	98.15	Open To Flow (1)
46	35.13	100.49	Shut-In(1)
90	932.37	100.69	End Shut-In(1)
91	37.73	100.54	Open To Flow (2)
134	49.89	101.65	Shut-In(2)
180	889.27	102.46	End Shut-In(2)
181	1502.03	102.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	CO	0.20
80.00	MW, 15%M 85%W	1.09

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Alan Vonfeldt

33-14S-13W Russell,KS

PO Box 611
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Michaelis #2

Job Ticket: 60903

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ATTN: Steve Reed

Test Start: 2014.09.10 @ 15:34:00

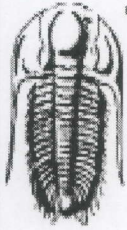
Tool Information

Drill Pipe:	Length: 3119.00 ft	Diameter: 3.75 inches	Volume: 42.61 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - 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:	54000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	50000.00 lb
				Final	52000.00 lb
Drill Pipe Above KB:	15.00 ft				
Depth to Top Packer:	3124.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	52.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3105.00	
Shut In Tool	5.00			3110.00	
Hydraulic tool	5.00			3115.00	
Packer	5.00			3120.00	20.00 Bottom Of Top Packer
Packer	4.00			3124.00	
Stubb	1.00			3125.00	
Recorder	0.00	8651	Inside	3125.00	
Recorder	0.00	8655	Outside	3125.00	
Perforations	28.00			3153.00	
Bullnose	3.00			3156.00	32.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



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TESTING, INC**

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FLUID SUMMARY

Alan Vonfeldt

33-14S-13W Russell,KS

PO Box 611
Russell, KS 67665

Michaelis #2

Job Ticket: 60903

DST#: 3

ATTN: Steve Reed

Test Start: 2014.09.10 @ 15:34:00

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: ppm

Viscosity: 48.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	CO	0.205
80.00	MW, 15%M 85%W	1.093

Total Length: 95.00 ft Total Volume: 1.298 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

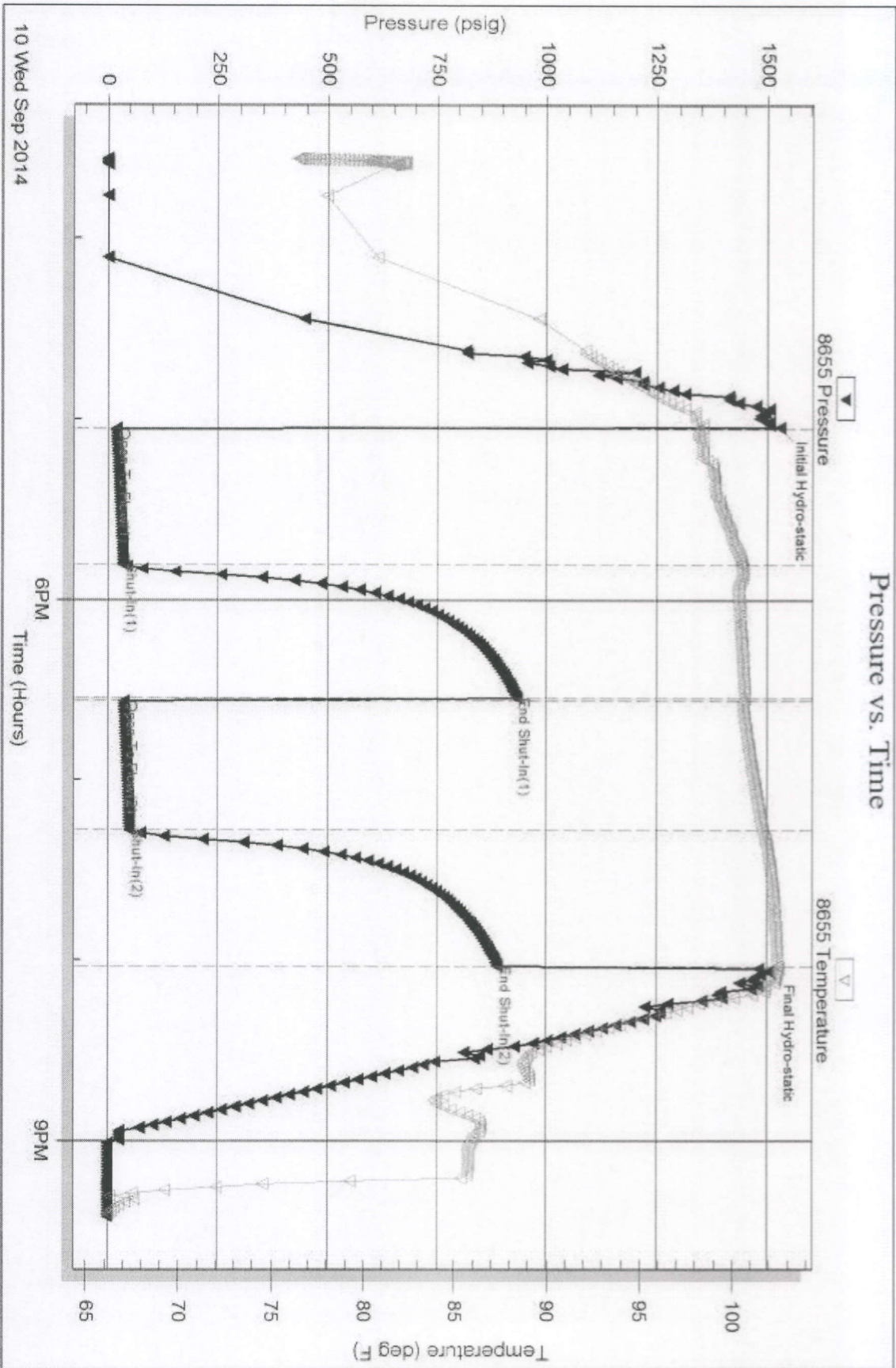
Recovery Comments:

Serial #: 8655

Outside Alan Vorfeldt

Machine #2

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 60903

Printed: 2014.09.12 @ 14:29:00

Serial #: 8651

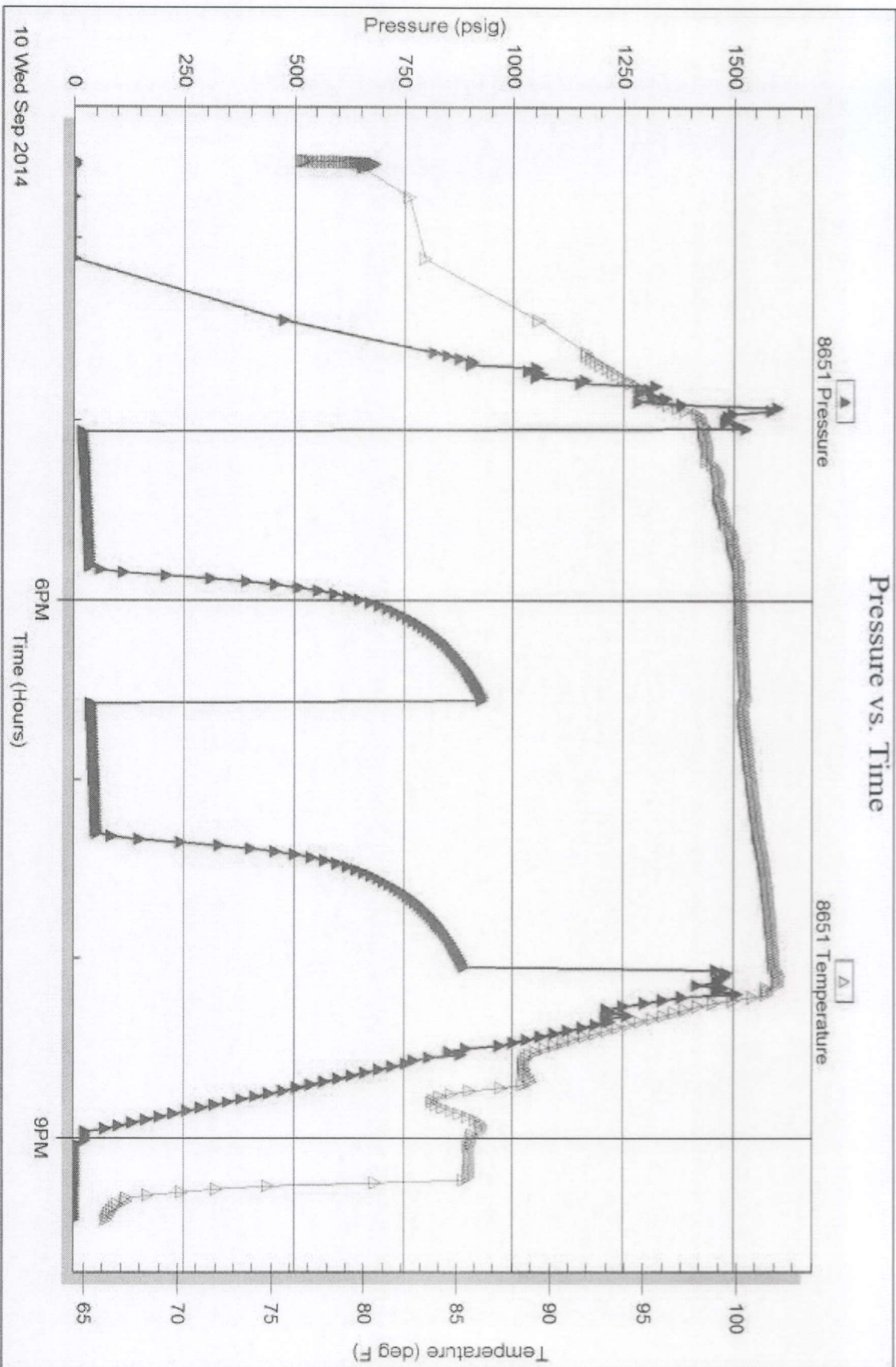
Inside

Alan Vorfeldt

Michaelis #2

DST Test Number: 3

Pressure vs. Time



10 Wed Sep 2014

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