



DRILL STEM TEST REPORT

Prepared For: **Val Energy, Inc.**

125 North Market Street
Suite 1110
Wichita, KS 67202

ATTN: Joe Baker

Wallingford #1-28

28-30S-6E Cowley,KS

Start Date: 2016.11.05 @ 12:41:00

End Date: 2016.11.05 @ 19:26:45

Job Ticket #: 63085 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Val Energy, Inc.
125 North Market Street
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ATTN: Joe Baker

28-30S-6E Cowley, KS

Wallingford #1-28

Job Ticket: 63085

DST#: 1

Test Start: 2016.11.05 @ 12:41:00

GENERAL INFORMATION:

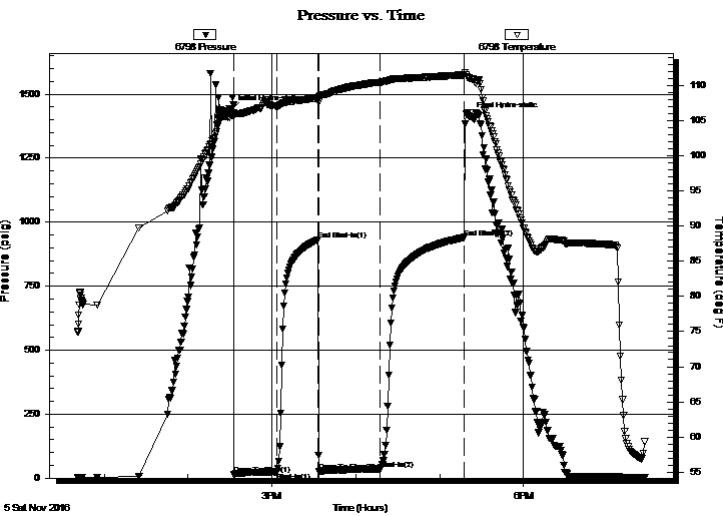
Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:33:00
 Time Test Ended: 19:26:45
 Interval: **2910.00 ft (KB) To 2936.00 ft (KB) (TVD)**
 Total Depth: 2936.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jimmy Ricketts
 Unit No: 80
 Reference Elevations: 1421.00 ft (KB)
 1412.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6798

Inside

Press@RunDepth: 36.09 psig @ 2911.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.11.05 End Date: 2016.11.05 Last Calib.: 2016.11.05
 Start Time: 12:41:05 End Time: 19:26:44 Time On Btm: 2016.11.05 @ 14:31:00
 Time Off Btm: 2016.11.05 @ 17:21:45

TEST COMMENT: IF - Weak blow building to 1 inch initial flow period.
 FF - No blow building to surface blow final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1440.40	105.70	Initial Hydro-static
2	13.88	105.69	Open To Flow (1)
33	24.48	107.00	Shut-In(1)
62	930.66	108.24	End Shut-In(1)
63	26.94	108.07	Open To Flow (2)
106	36.09	110.43	Shut-In(2)
167	940.73	111.50	End Shut-In(2)
171	1411.74	110.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Drilling mud 100% M	0.12

Gas Rates

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



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TOOL DIAGRAM

Val Energy, Inc.

28-30S-6E Cowley,KS

125 North Market Street
Suite 1110
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ATTN: Joe Baker

Wallingford #1-28

Job Ticket: 63085

DST#: 1

Test Start: 2016.11.05 @ 12:41:00

Tool Information

Drill Pipe:	Length: 2667.00 ft	Diameter: 3.80 inches	Volume: 37.41 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 21000.00 lb
Drill Collar:	Length: 237.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 59000.00 lb
			<u>Total Volume: 38.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	2910.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	46.00 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			2891.00	
Shut In Tool	5.00			2896.00	
Hydraulic tool	5.00			2901.00	
Packer	4.00			2905.00	20.00 Bottom Of Top Packer
Packer	5.00			2910.00	
Stubb	1.00			2911.00	
Recorder	0.00	9124	Outside	2911.00	
Recorder	0.00	6798	Inside	2911.00	
Perforations	20.00			2931.00	
Bullnose	5.00			2936.00	26.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



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FLUID SUMMARY

Val Energy, Inc.

28-30S-6E Cowley,KS

125 North Market Street
Suite 1110
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ATTN: Joe Baker

Wallingford #1-28

Job Ticket: 63085

DST#: 1

Test Start: 2016.11.05 @ 12:41:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 1700.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Drilling mud 100% M	0.123

Total Length: 25.00 ft Total Volume: 0.123 bbl

Num Fluid Samples: 0

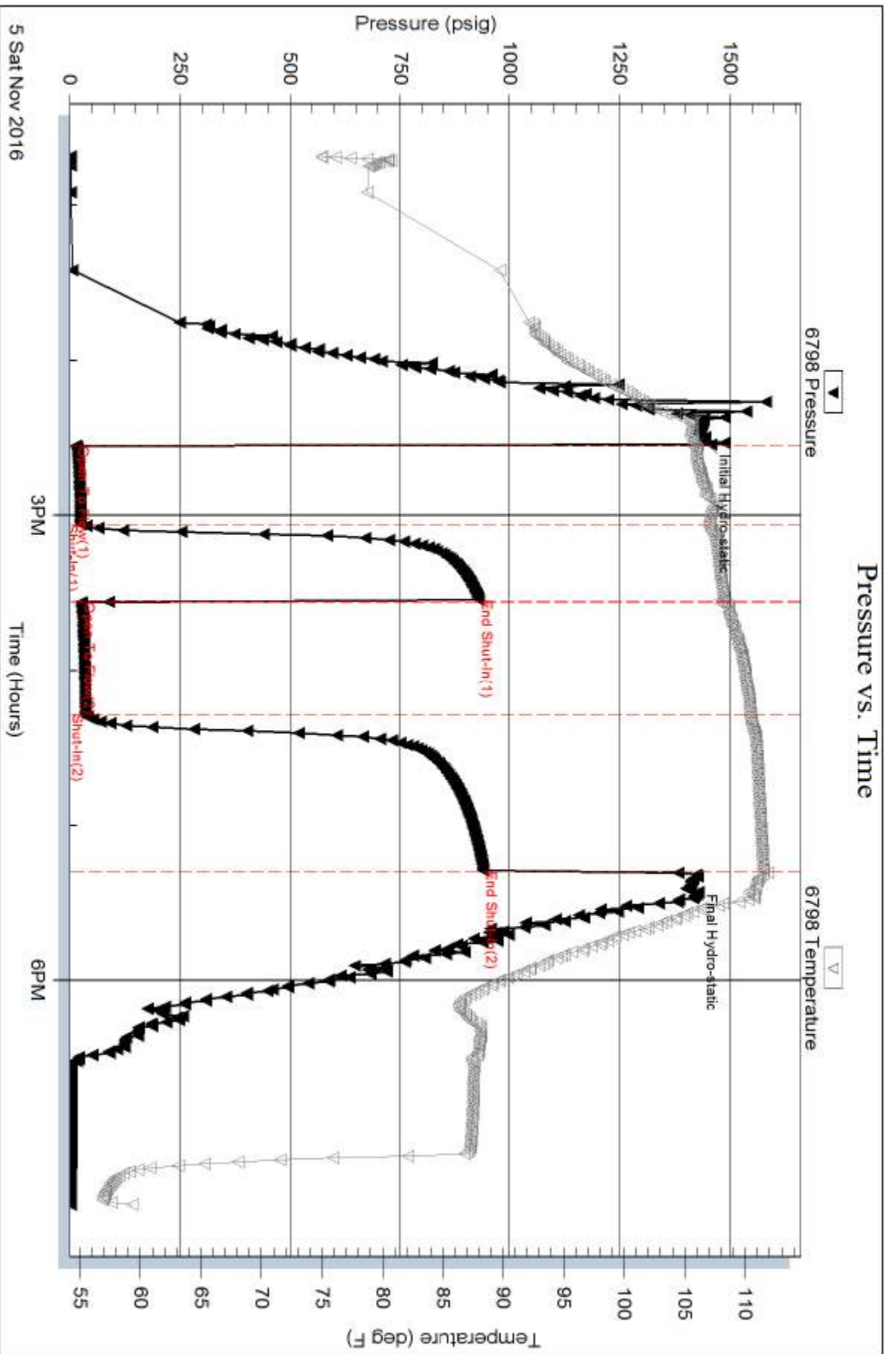
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

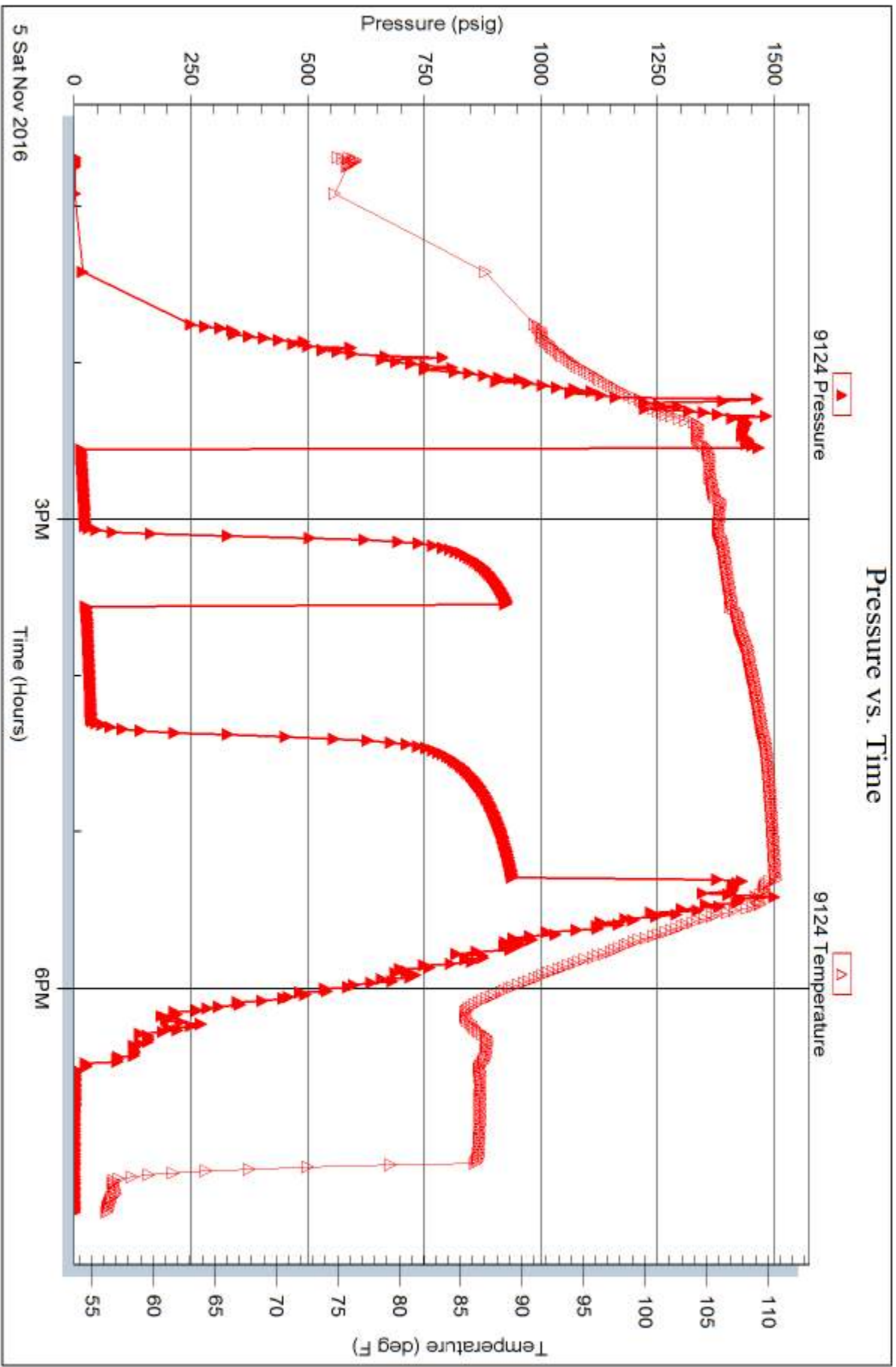


Serial #: 9124

Outside Val Energy, Inc.

Wallingford #1-28

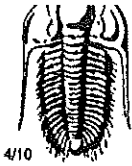
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 63085

Printed: 2016.11.08 @ 09:31:30



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63985

Well Name & No. Wallingford #1-28 Test No. 1 Date 11-5-16
 Company Kal Energy, Inc. Elevation 1421 KB 1412 GL
 Address 125 N Market St. Suite 1110 Wichita, KS 67202
 Co. Rep / Geo. Joe Baker Rig C+G Drilling #2
 Location: Sec. 28 Twp. 30 S Rge. 6 E Co. Cowley State KS

Interval Tested 2910-2936 Zone Tested Mississippian
 Anchor Length 26' Drill Pipe Run 2667 Mud Wt. 9.4
 Top Packer Depth 2905 Drill Collars Run 237 Vis 56
 Bottom Packer Depth 2910 Wt. Pipe Run 0 WL 8.8
 Total Depth 2936 Chlorides 1700 ppm System LCM
 Blow Description IF- weak blow building to 1 inch Initial flow period
IF- No blow building to surface blow Final flow period.

Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>Drilling Mud</u>			<u>100%</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 25 BHT 111 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1440 Test 1050 T-On Location 1200
 (B) First Initial Flow 14 Jars _____ T-Started 1241
 (C) First Final Flow 24 Safety Joint _____ T-Open 1433
 (D) Initial Shut-In 931 Circ Sub _____ T-Pulled 1718
 (E) Second Initial Flow 27 Hourly Standby _____ T-Out 1930
 (F) Second Final Flow 36 Mileage 75 100 RT Comments _____
 (G) Final Shut-In 941 Sampler _____
 (H) Final Hydrostatic 1412 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1125
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1125

Approved By _____ Our Representative Jimmy Richards
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