



DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc.**

200 W. Douglas Ave. Ste. 520
Wichita, KS 67202-3005

ATTN: Harley Sayles

Lawrence #1-32

32-32s-6e Cowley,KS

Start Date: 2014.06.17 @ 12:45:30

End Date: 2014.06.17 @ 19:46:15

Job Ticket #: 51990 DST #: 1

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

Printed: 2014.06.19 @ 11:19:32

Val Energy Inc. 32-32s-6e Cowley,KS Lawrence #1-32 DST # 1 Dodds CK 2014.06.17



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Val Energy Inc.

32-32s-6e Cowley,KS

200 W. Douglas Ave. Ste. 520
Wichita, KS 67202-3005

Lawrence #1-32

Job Ticket: 51990

DST#: 1

ATTN: Harley Sayles

Test Start: 2014.06.17 @ 12:45:30

GENERAL INFORMATION:

Formation: **Dodds CK**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 13:59:00

Time Test Ended: 19:46:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Reynolds

Unit No: 68

Interval: 2445.00 ft (KB) To 2510.00 ft (KB) (TVD)

Reference Elevations: 1308.00 ft (KB)

Total Depth: 2510.00 ft (KB) (TVD)

1298.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8790

Inside

Press@RunDepth: 222.87 psig @ 2450.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.17

End Date:

2014.06.17

Last Calib.:

2014.06.17

Start Time:

12:45:35

End Time:

19:46:14

Time On Btm:

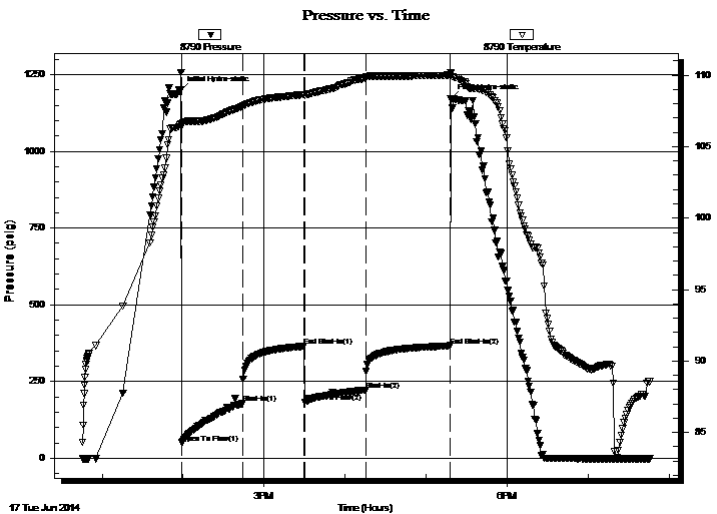
2014.06.17 @ 13:58:15

Time Off Btm:

2014.06.17 @ 17:18:15

TEST COMMENT: IF: Weak blow . surf. - 2"
IS: No blow
FF: Weak blow . surf. - 1"
FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1198.84	106.58	Initial Hydro-static
1	49.98	106.43	Open To Flow (1)
46	179.32	107.81	Shut-In(1)
92	364.99	108.63	End Shut-In(1)
92	183.05	108.57	Open To Flow (2)
137	222.87	109.79	Shut-In(2)
200	366.68	109.99	End Shut-In(2)
200	1172.49	110.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	MCW 23%w, 77%w	1.52
145.00	Drig mud 100%w	1.41

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (m ³ /d)



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TESTING, INC**

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TOOL DIAGRAM

Val Energy Inc.

32-32s-6e Cowley,KS

200 W. Douglas Ave. Ste. 520
Wichita, KS 67202-3005

Lawrence #1-32

Job Ticket: 51990

DST#: 1

ATTN: Harley Sayles

Test Start: 2014.06.17 @ 12:45:30

Tool Information

Drill Pipe:	Length: 2047.00 ft	Diameter: 3.80 inches	Volume: 28.71 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 379.00 ft	Diameter: 2.25 inches	Volume: 1.86 bbl	Weight to Pull Loose: 93000.00 lb
			<u>Total Volume: 30.57 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	2445.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	92.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2419.00	
Shut In Tool	5.00			2424.00	
Hydraulic tool	5.00			2429.00	
Jars	5.00			2434.00	
Safety Joint	2.00			2436.00	
Packer	5.00			2441.00	27.00 Bottom Of Top Packer
Packer	4.00			2445.00	
Stubb	1.00			2446.00	
Perforations	3.00			2449.00	
Change Over Sub	1.00			2450.00	
Recorder	0.00	8790	Inside	2450.00	
Recorder	0.00	8792	Outside	2450.00	
Drill Pipe	31.00			2481.00	
Change Over Sub	1.00			2482.00	
Perforations	25.00			2507.00	
Bullnose	3.00			2510.00	65.00 Bottom Packers & Anchor
Total Tool Length:	92.00				



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FLUID SUMMARY

Val Energy Inc.

32-32s-6e Cowley,KS

200 W. Douglas Ave. Ste. 520
Wichita, KS 67202-3005

Lawrence #1-32

Job Ticket: 51990

DST#: 1

ATTN: Harley Sayles

Test Start: 2014.06.17 @ 12:45:30

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:

94000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
310.00	MCW 23%m, 77%w	1.525
145.00	Drig mud 100%m	1.405

Total Length: 455.00 ft

Total Volume: 2.930 bbl

Num Fluid Samples: 0

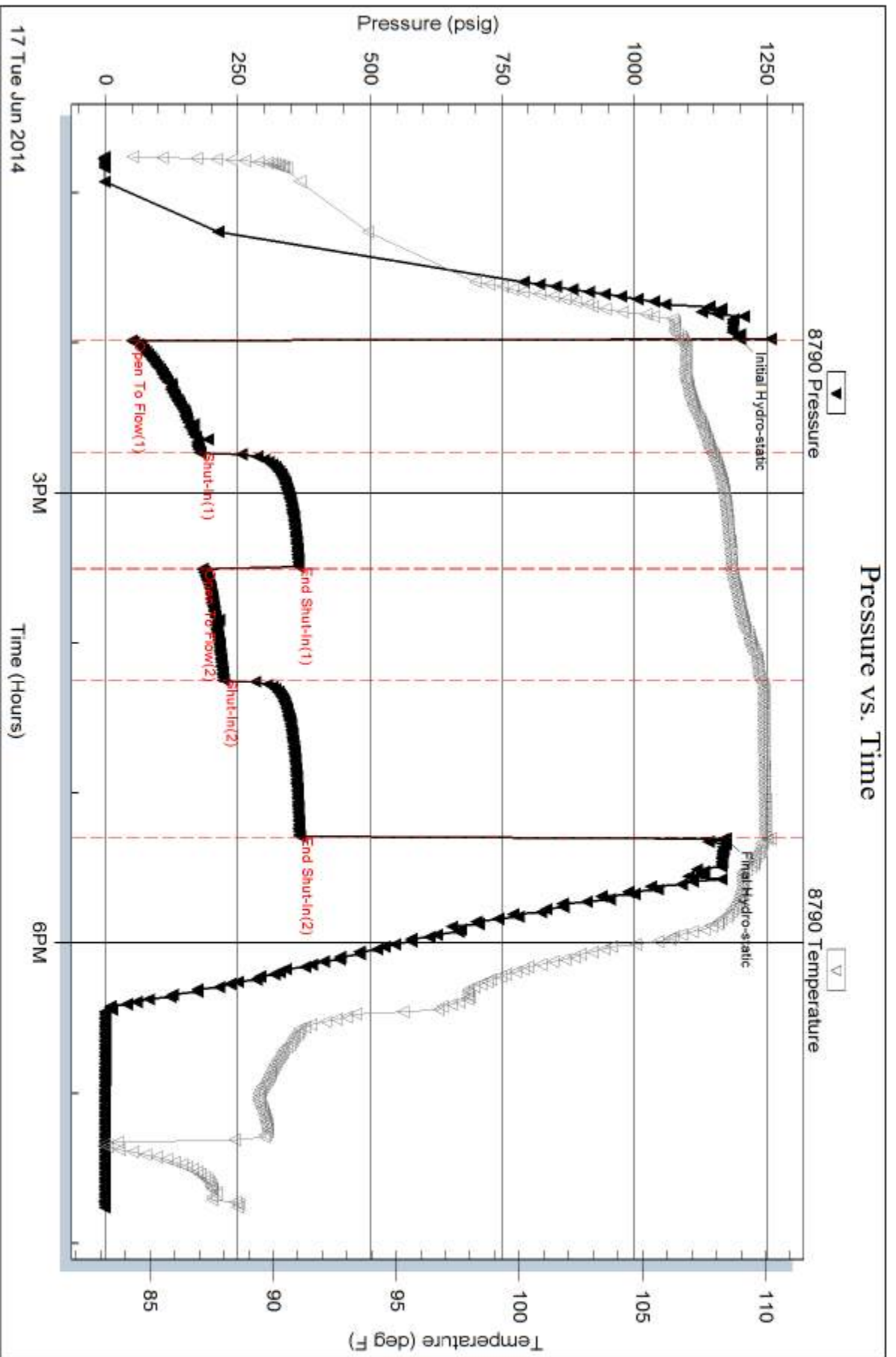
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



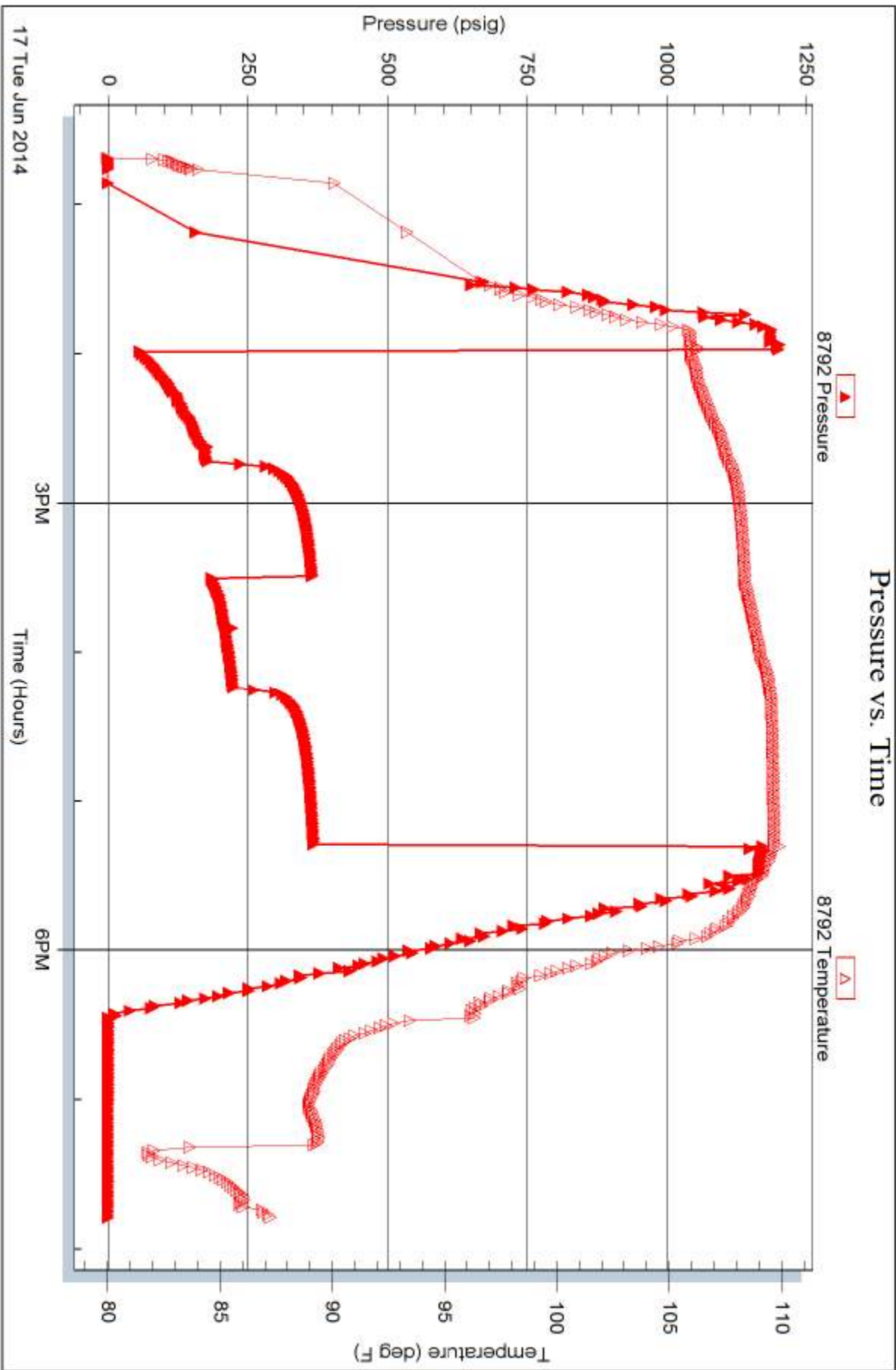
Serial #: 8792

Outside

Val Energy Inc.

Lawrence #1-32

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51990

Well Name & No. Lawrence 1-32 Test No. 1 Date 6-17-14
 Company Val Energy Inc Elevation 1308 KB 1298 GL
 Address 200 W. Douglas Ave. Ste. 520 Wichita, KS 67202-3005
 Co. Rep / Geo. Harley Seyles Rig Val #3
 Location: Sec. 32 Twp. 32s Rge. 6 E. Co. Cowley State KS

Interval Tested 2445 - 2510 Zone Tested Dadds CR
 Anchor Length 65 Drill Pipe Run 2047 Mud Wt. 9.2
 Top Packer Depth 2440 Drill Collars Run 379 Vis 48
 Bottom Packer Depth 2445 Wt. Pipe Run Ø WL 9.0
 Total Depth 2510 Chlorides 900 ppm System LCM 1#
 Blow Description IF: Weak blow surf. - 2" ISI: No blow
FF: Weak blow surf. - 1" FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>145</u>	<u>Drly mud</u>			<u>100</u>	
<u>310</u>	<u>MCW</u>		<u>77</u>	<u>23</u>	

Rec Total 455 BHT 110 Gravity N/C API RW 0.065 @ 88 ° F Chlorides 9400 ppm

(A) Initial Hydrostatic <u>1199</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1200</u>
(B) First Initial Flow <u>50</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1246</u>
(C) First Final Flow <u>179</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1359</u>
(D) Initial Shut-In <u>365</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1714</u>
(E) Second Initial Flow <u>183</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1946</u>
(F) Second Final Flow <u>223</u>	<input checked="" type="checkbox"/> Mileage <u>274</u> <u>424.70</u>	Comments
(G) Final Shut-In <u>367</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1172</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>46</u>	<input type="checkbox"/> Day Standby	Total <u>1899.70</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1899.70</u>	

Approved By [Signature] Our Representative [Signature]

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