

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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REMIT TO

QES Pressure Pumping LLC
 Dept:970
 P.O.Box 4346
 Houston, TX 77210-4346

MAIN OFFICE

P.O.Box884
 Chanute, KS 66720
 620/431-9210, 1-800/467-8676
 Fax 620/431-0012

Invoice

Invoice#

810410

Invoice Date: 06/06/17

Terms: Net 30

Page 1

VAL ENERGY

125 N. Market, Ste. 1110
 WICHITA KS 67202
 USA
 316-263-6688

JOHNSON 1-31

Tax: 270.49

Total: 5,093.67



PRESSURE PUMPING

Box 604, Chanute, KS 66720
620-431-9210 or 800-467-8676

8267
8167

WELL NUMBER 51794
LOCATION Oakley, KS
FOREMAN Jerry Y
Walt Dinkel
KS

FIELD TICKET & TREATMENT REPORT
CEMENT INVOICE # 810410

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-5-17	8576	Johnson 1-31	31	7S	35W	Thomas
CUSTOMER <u>Val Energy</u>			Levant W to 9 N to 5 W to 7 1/4 N E into			
MAILING ADDRESS <u>125 N. Market, Ste. 1110</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY <u>Wichita</u> STATE <u>KS</u> ZIP CODE <u>67202</u>			<u>731</u>	<u>Cory D</u>		
			<u>566</u>	<u>Walt D</u>		
			<u>639</u>			

JOB TYPE Surface HOLE SIZE 13 1/4 HOLE DEPTH 300 CASING SIZE & WEIGHT 8 5/8 24#
 CASING DEPTH 300 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15.2 SLURRY VOL 1.24 WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 17 1/2 bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & rig up on W/L 2 break circulation with rig force
mix 210 SKS surf blend II wash up & displace with 17 1/2 bbl fresh water
& shut in circulated approx 360' pit

cement did
circulate

Thank you
Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
<u>CE0471</u>	<u>1</u>	<u>PUMP CHARGE</u>	<u>1150.00</u>	<u>1150.00</u>
<u>CE0002</u>	<u>.35</u>	<u>MILEAGE</u>	<u>7.15</u>	<u>250.25</u>
<u>CE0711</u>	<u>9.87</u>	<u>ton mileage delivery (min)</u>	<u>660.00</u>	<u>660.00</u>
<u>CC5871</u>	<u>210 SKS</u>	<u>surf blend II (com 32 cc 28 gal)</u>	<u>23.00</u>	<u>4830.00</u>
			<u>Subtotal</u>	<u>6890.25</u>
			<u>-30%</u>	<u>2067.08</u>
			<u>Subtotal</u>	<u>4823.17</u>
			SALES TAX	<u>270.49</u>
			ESTIMATED TOTAL	<u>\$ 5093.67</u>

Ravin 3737

AUTHORIZATION [Signature]

TITLE _____

DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc**

125 N Market St ste 1110
Wichita, KS 67202

ATTN: Tim Prest

Johnson #1-31

31-7s-35w Thomas,KS

Start Date: 2017.06.10 @ 11:39:51

End Date: 2017.06.10 @ 19:08:51

Job Ticket #: 63808 DST #: 1

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

Printed: 2017.06.16 @ 13:29:06

Val Energy Inc
31-7s-35w Thomas,KS
Johnson #1-31
DST # 1
LKC D-F
2017.06.10



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Val Energy Inc
125 N Market St ste 1110
Wichita, KS 67202
ATTN: Tim Prest

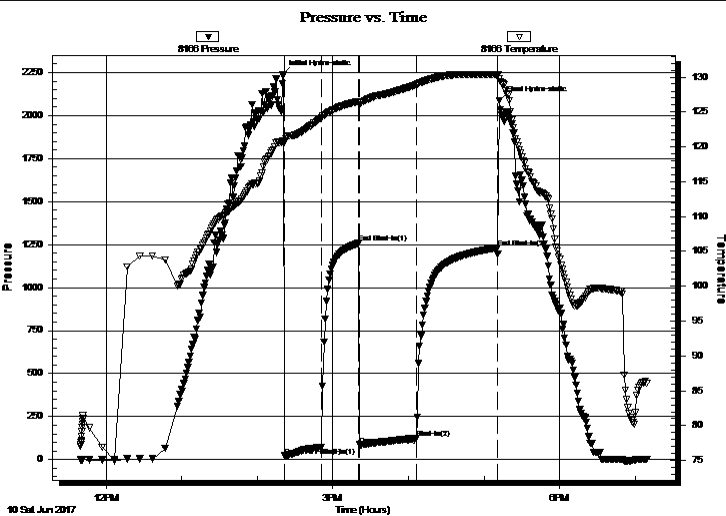
31-7s-35w Thomas,KS
Johnson #1-31
Job Ticket: 63808 **DST#: 1**
Test Start: 2017.06.10 @ 11:39:51

GENERAL INFORMATION:

Formation: **LKC D-F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:21:21
Time Test Ended: 19:08:51
Interval: **4242.00 ft (KB) To 4290.00 ft (KB) (TVD)**
Total Depth: 4290.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 79
Reference Elevations: 3328.00 ft (KB)
3323.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 Outside
Press@RunDepth: 125.37 psig @ 4247.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.06.10 End Date: 2017.06.10 Last Calib.: 2017.06.10
Start Time: 11:39:56 End Time: 19:08:50 Time On Btm: 2017.06.10 @ 14:20:21
Time Off Btm: 2017.06.10 @ 17:11:51

TEST COMMENT: IF: 1/4" blow built to 5"
IS: No return.
FF: Surface blow built to 4 1/2"
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2239.37	120.84	Initial Hydro-static
1	21.24	120.55	Open To Flow (1)
31	71.85	124.13	Shut-In(1)
60	1257.19	126.52	End Shut-In(1)
61	85.66	126.09	Open To Flow (2)
106	125.37	128.90	Shut-In(2)
170	1231.84	130.32	End Shut-In(2)
172	2085.26	129.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mcw 80%w 20%m	0.59
119.00	w cm 40%w 60%m	1.67
5.00	oil 100%o	0.07

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Val Energy Inc
125 N Market St ste 1110
Wichita, KS 67202
ATTN: Tim Prest

31-7s-35w Thomas,KS

Johnson #1-31

Job Ticket: 63808

DST#: 1

Test Start: 2017.06.10 @ 11:39:51

GENERAL INFORMATION:

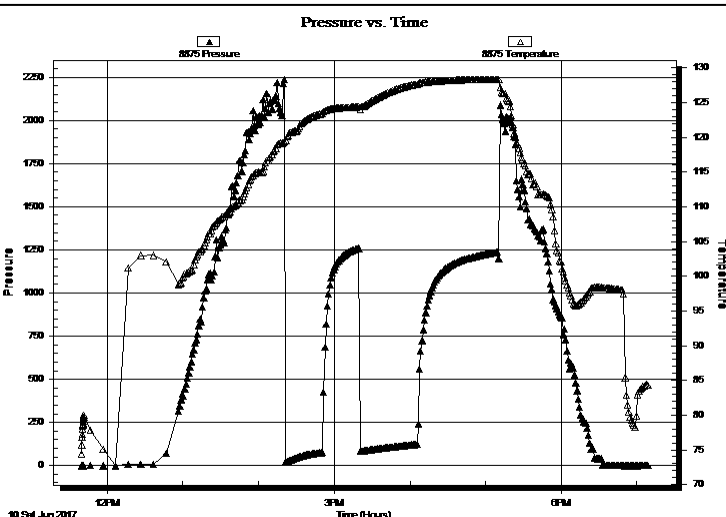
Formation: **LKC D-F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:21:21
Time Test Ended: 19:08:51
Interval: **4242.00 ft (KB) To 4290.00 ft (KB) (TVD)**
Total Depth: 4290.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches
Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 79
Reference Elevations: 3328.00 ft (KB)
3323.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8875

Inside

Press@RunDepth: psig @ 4247.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.06.10 End Date: 2017.06.10 Last Calib.: 2017.06.10
Start Time: 11:39:40 End Time: 19:08:34 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 1/4" blow built to 5"
IS: No return.
FF: Surface blow built to 4 1/2"
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mcw 80%w 20%m	0.59
119.00	w cm 40%w 60%m	1.67
5.00	oil 100%o	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Val Energy Inc
125 N Market St ste 1110
Wichita, KS 67202
ATTN: Tim Prest

31-7s-35w Thomas,KS
Johnson #1-31
Job Ticket: 63808 **DST#: 1**
Test Start: 2017.06.10 @ 11:39:51

Tool Information

Drill Pipe:	Length: 4130.00 ft	Diameter: 3.80 inches	Volume: 57.93 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 58.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4242.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Stubb	1.00			4227.00	
Shut In Tool	5.00			4232.00	
Hydraulic tool	5.00			4237.00	
Packer	5.00			4242.00	16.00 Bottom Of Top Packer
Packer - Shale	4.00			4246.00	
Stubb	1.00			4247.00	
Recorder	0.00	8875	Inside	4247.00	
Recorder	0.00	8166	Outside	4247.00	
Perforations	8.00			4255.00	
Change Over Sub	1.00			4256.00	
Drill Pipe	32.00			4288.00	
Change Over Sub	1.00			4289.00	
Bullnose	5.00			4294.00	52.00 Anchor Tool

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy Inc
125 N Market St ste 1110
Wichita, KS 67202
ATTN: Tim Prest

31-7s-35w Thomas,KS
Johnson #1-31
Job Ticket: 63808 **DST#: 1**
Test Start: 2017.06.10 @ 11:39:51

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 55000 ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.79 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 4000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

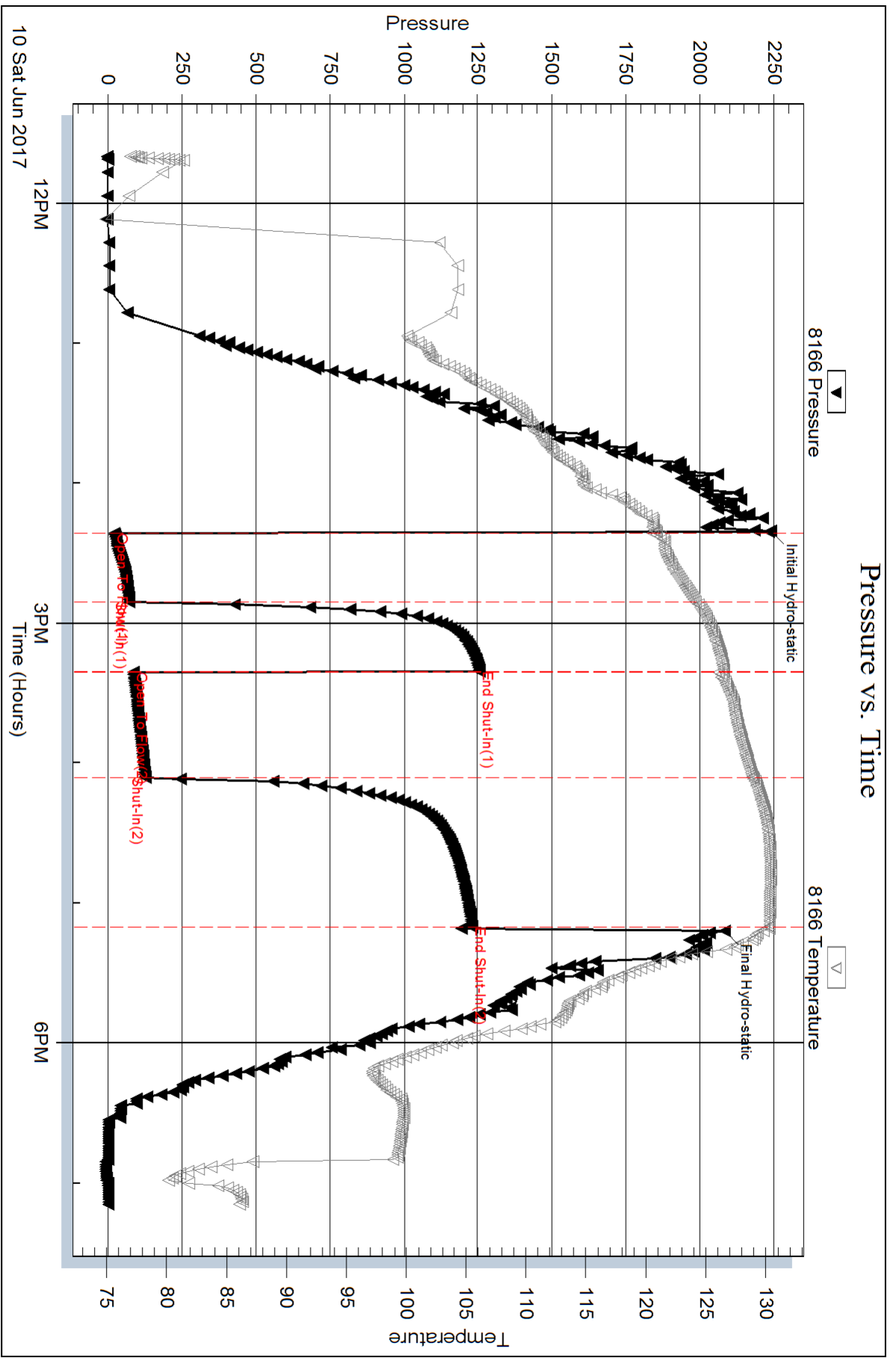
Length ft	Description	Volume bbl
120.00	mcw 80%w 20%m	0.590
119.00	w cm 40%w 60%m	1.669
5.00	oil 100%o	0.070

Total Length: 244.00 ft Total Volume: 2.329 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: .11@104=55000



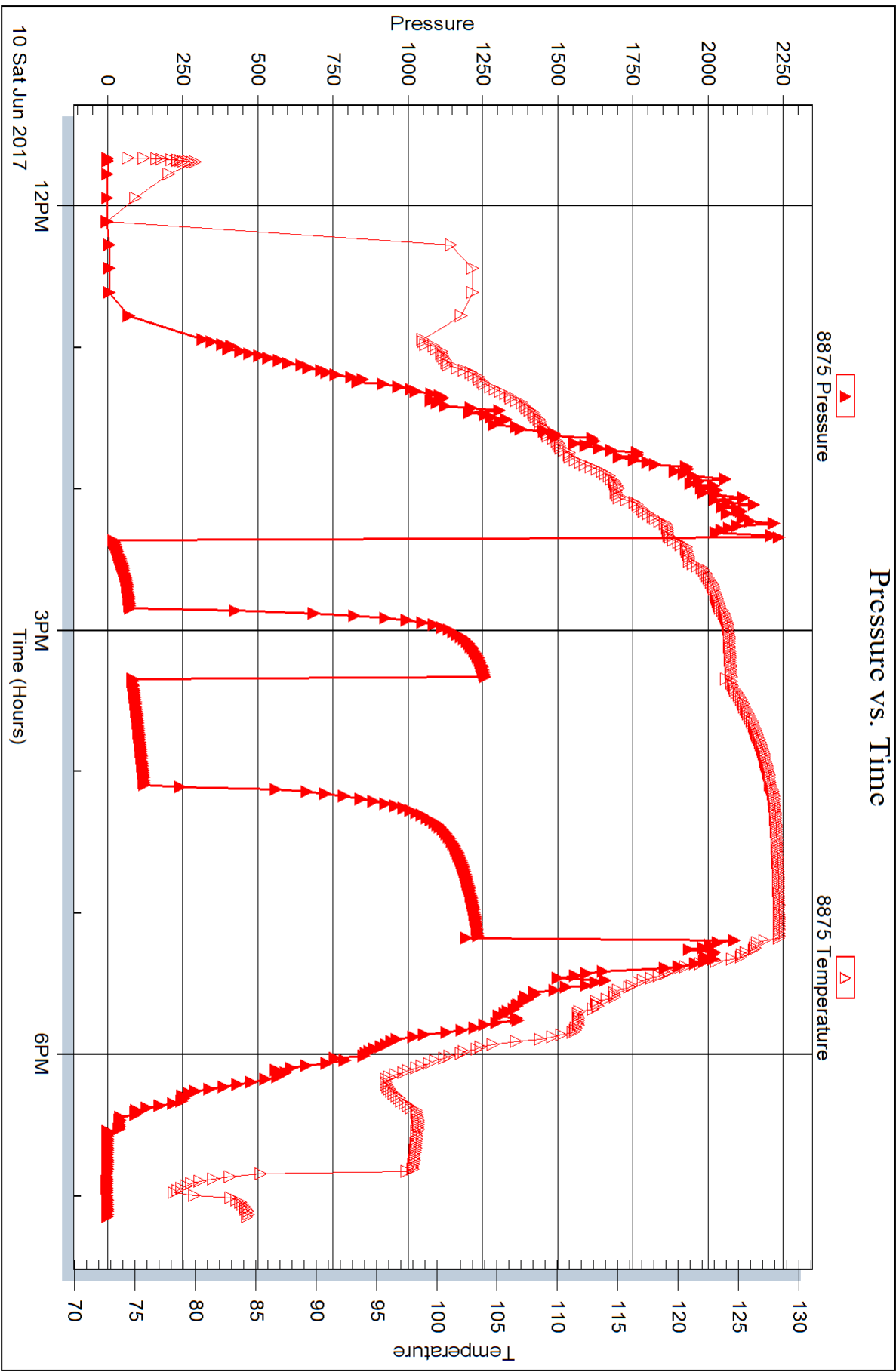
Serial #: 8875

Inside

Val Energy Inc

Johnson #1-31

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc**

125 N Market St ste 1110
Wichita, KS 67202

ATTN: Tim Prest

Johnson #1-31

31-7s-35w Thomas,KS

Start Date: 2017.06.11 @ 09:45:42

End Date: 2017.06.11 @ 17:11:12

Job Ticket #: 63809 DST #: 2

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

Printed: 2017.06.16 @ 13:28:27



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Val Energy Inc
 125 N Market St ste 1110
 Wichita, KS 67202
 ATTN: Tim Prest

31-7s-35w Thomas,KS
Johnson #1-31
 Job Ticket: 63809 **DST#: 2**
 Test Start: 2017.06.11 @ 09:45:42

GENERAL INFORMATION:

Formation: **LKC H - J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:04:42
 Time Test Ended: 17:11:12
 Interval: **4307.00 ft (KB) To 4395.00 ft (KB) (TVD)**
 Total Depth: 4395.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3328.00 ft (KB)
 3323.00 ft (CF)
 KB to GR/CF: 5.00 ft

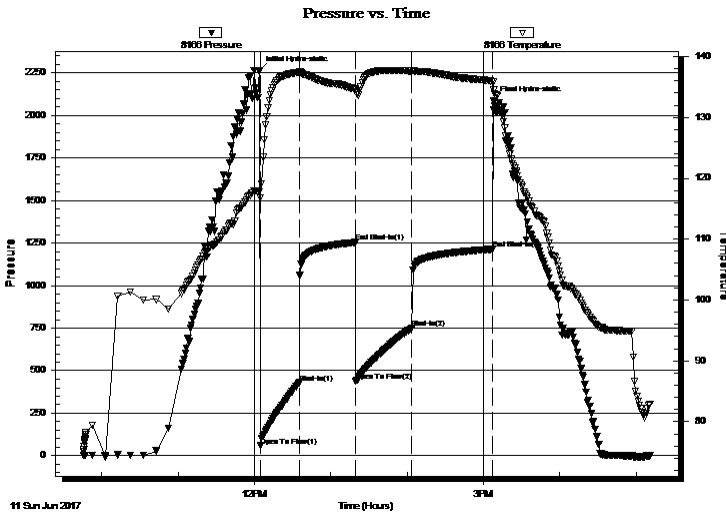
Serial #: 8166

Outside

Press@RunDepth: 751.23 psig @ 4312.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.06.11 End Date: 2017.06.11 Last Calib.: 2017.06.11
 Start Time: 09:45:47 End Time: 17:11:11 Time On Btm: 2017.06.11 @ 12:03:42
 Time Off Btm: 2017.06.11 @ 15:08:12

TEST COMMENT: IF: BOB in 3 min.
 IS: Surface blow died in 20 min.
 FF: BOB in 5 min.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2260.89	117.78	Initial Hydro-static
1	57.89	116.84	Open To Flow (1)
32	429.31	137.37	Shut-In(1)
76	1253.59	134.69	End Shut-In(1)
76	439.27	134.26	Open To Flow (2)
120	751.23	137.60	Shut-In(2)
183	1213.14	135.93	End Shut-In(2)
185	2085.78	134.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
983.00	water 100%w	12.70
252.00	mcw 90%w 10%m	3.53
355.00	w cm oil spots on top 30%w 70%m	4.98

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Val Energy Inc
125 N Market St ste 1110
Wichita, KS 67202
ATTN: Tim Prest

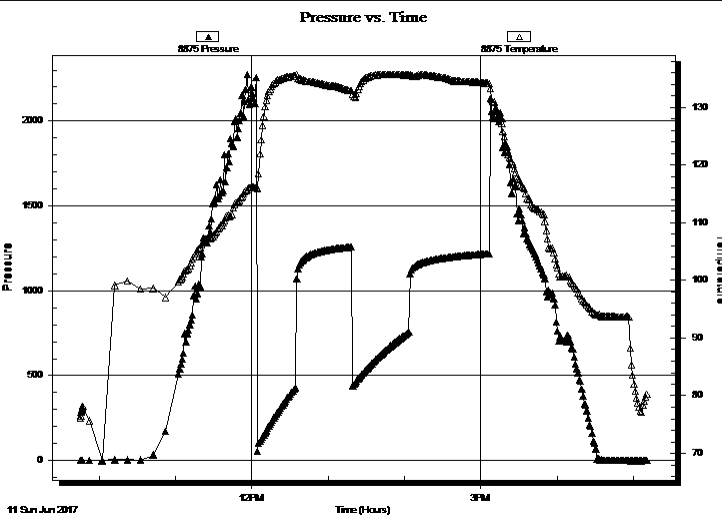
31-7s-35w Thomas,KS
Johnson #1-31
Job Ticket: 63809 **DST#: 2**
Test Start: 2017.06.11 @ 09:45:42

GENERAL INFORMATION:

Formation:	LKC H - J		
Deviated:	No	Whipstock:	ft (KB)
Time Tool Opened:	12:04:42	Test Type:	Conventional Bottom Hole (Reset)
Time Test Ended:	17:11:12	Tester:	Brandon Turley
		Unit No:	79
Interval:	4307.00 ft (KB) To 4395.00 ft (KB) (TVD)	Reference Elevations:	3328.00 ft (KB)
Total Depth:	4395.00 ft (KB) (TVD)		3323.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition:	Good
		KB to GR/CF:	5.00 ft

Serial #: 8875	Inside				
Press@RunDepth:	psig @	4312.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2017.06.11	End Date:	2017.06.11	Last Calib.:	2017.06.11
Start Time:	09:45:23	End Time:	17:10:47	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IF: BOB in 3 min.
IS: Surface blow died in 20 min.
FF: BOB in 5 min.
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
983.00	water 100%w	12.70
252.00	mcw 90%w 10%m	3.53
355.00	w cm oil spots on top 30%w 70%m	4.98

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Val Energy Inc
125 N Market St ste 1110
Wichita, KS 67202
ATTN: Tim Prest

31-7s-35w Thomas,KS
Johnson #1-31
Job Ticket: 63809 **DST#: 2**
Test Start: 2017.06.11 @ 09:45:42

Tool Information

Drill Pipe:	Length: 4191.00 ft	Diameter: 3.80 inches	Volume: 58.79 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 59.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4307.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.00 ft			
Tool Length:	107.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4292.00	
Shut In Tool	5.00			4297.00	
Hydraulic tool	5.00			4302.00	
Packer	5.00			4307.00	16.00 Bottom Of Top Packer
Packer - Shale	4.00			4311.00	
Stubb	1.00			4312.00	
Recorder	0.00	8875	Inside	4312.00	
Recorder	0.00	8166	Outside	4312.00	
Perforations	15.00			4327.00	
Change Over Sub	1.00			4328.00	
Drill Pipe	64.00			4392.00	
Change Over Sub	1.00			4393.00	
Bullnose	5.00			4398.00	91.00 Anchor Tool

Total Tool Length: 107.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy Inc

31-7s-35w Thomas,KS

125 N Market St ste 1110
Wichita, KS 67202

Johnson #1-31

Job Ticket: 63809

DST#: 2

ATTN: Tim Prest

Test Start: 2017.06.11 @ 09:45:42

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

16000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
983.00	water 100%w	12.696
252.00	mcw 90%w 10%m	3.535
355.00	w cm oil spots on top 30%w 70%m	4.980

Total Length: 1590.00 ft Total Volume: 21.211 bbl

Num Fluid Samples: 0

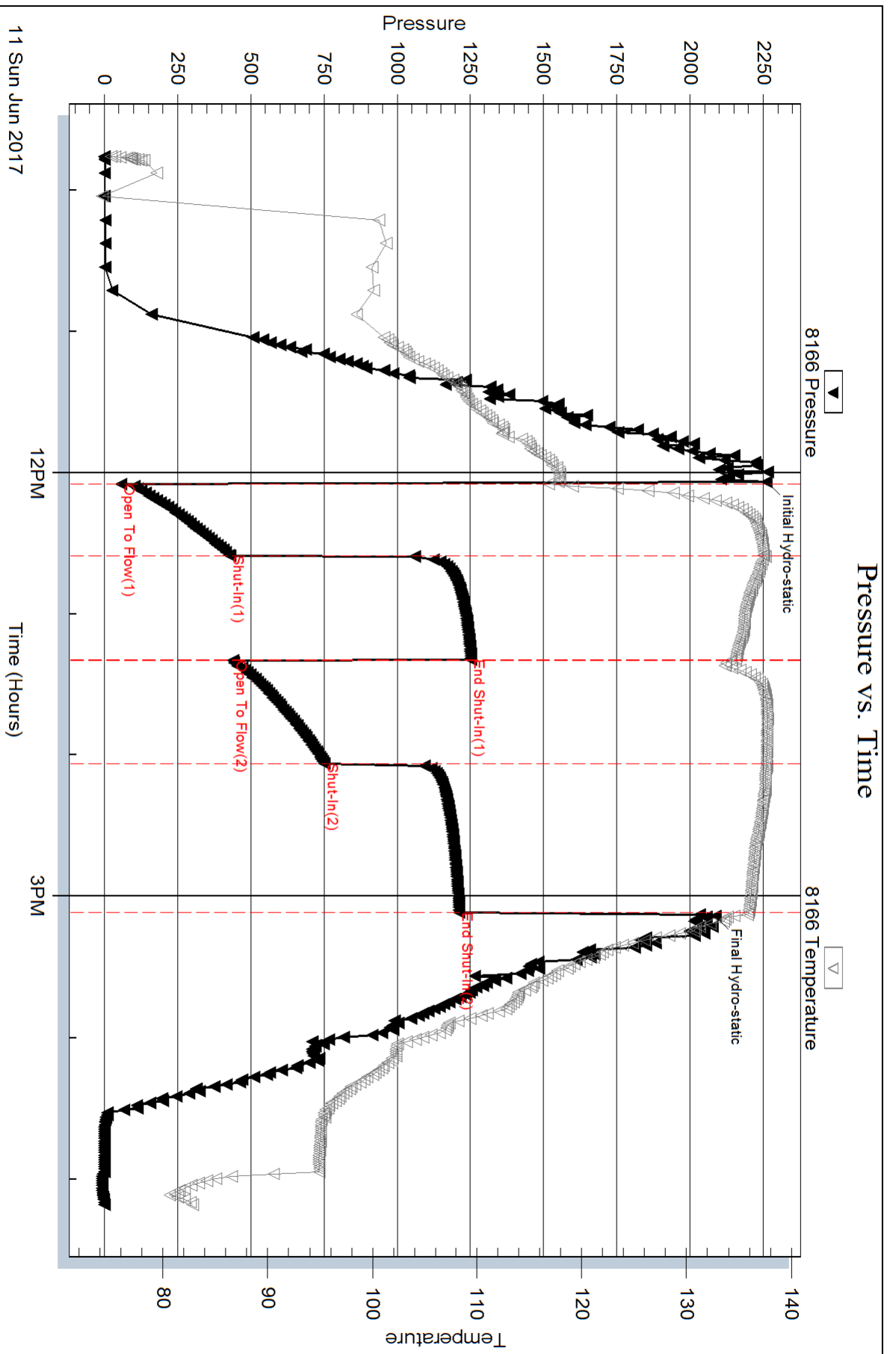
Num Gas Bombs: 0

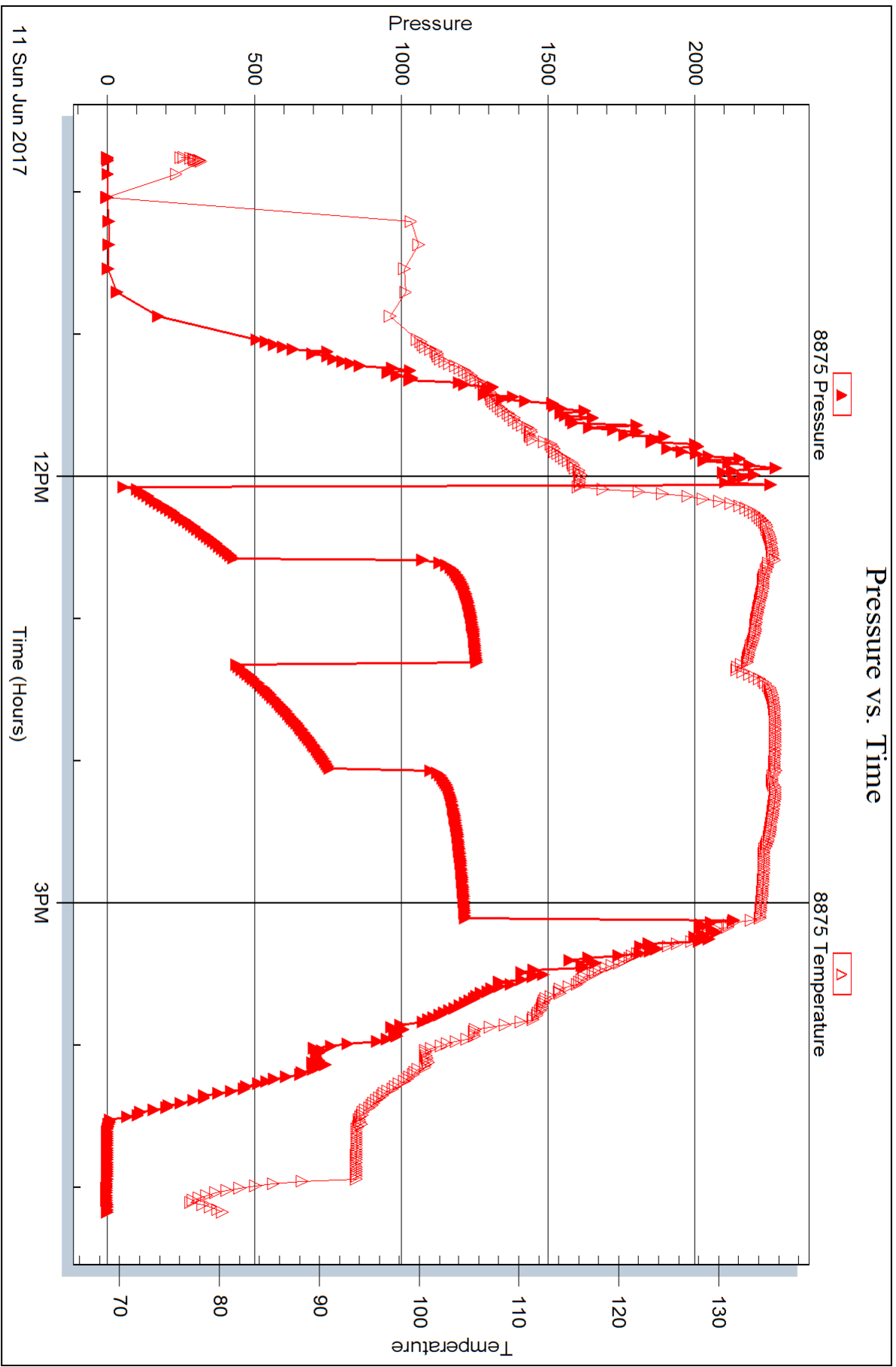
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .29@98=16000







DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc**

125 N Market St ste 1110
Wichita, KS 67202

ATTN: Tim Prest

Johnson #1-31

31-7s-35w Thomas,KS

Start Date: 2017.06.12 @ 00:40:22

End Date: 2017.06.12 @ 07:10:52

Job Ticket #: 63810 DST #: 3

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

Printed: 2017.06.16 @ 13:28:01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Val Energy Inc
 125 N Market St ste 1110
 Wichita, KS 67202
 ATTN: Tim Prest

31-7s-35w Thomas, KS
Johnson #1-31
 Job Ticket: 63810 **DST#: 3**
 Test Start: 2017.06.12 @ 00:40:22

GENERAL INFORMATION:

Formation: **LKC K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:04:22
 Time Test Ended: 07:10:52
 Interval: **4397.00 ft (KB) To 4425.00 ft (KB) (TVD)**
 Total Depth: 4425.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3328.00 ft (KB)
 3323.00 ft (CF)
 KB to GR/CF: 5.00 ft

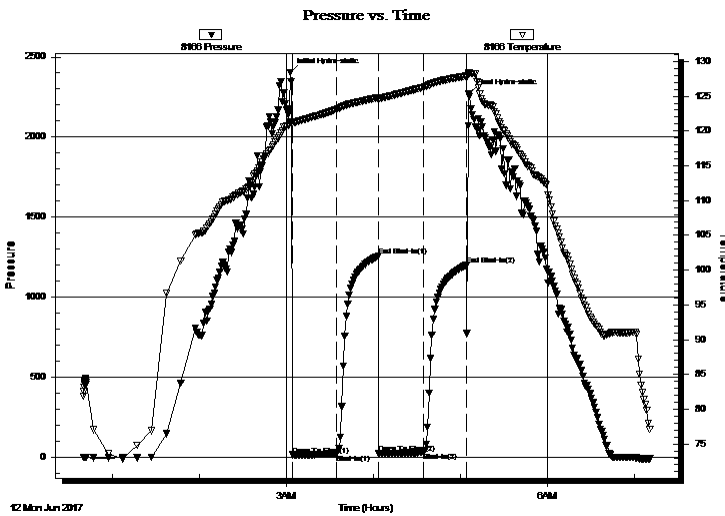
Serial #: 8166

Outside

Press@RunDepth: 32.62 psig @ 4402.00 ft (KB)
 Start Date: 2017.06.12 End Date: 2017.06.12
 Start Time: 00:40:27 End Time: 07:10:51
 Capacity: 8000.00 psig
 Last Calib.: 2017.06.12
 Time On Btm: 2017.06.12 @ 03:02:52
 Time Off Btm: 2017.06.12 @ 05:05:52

TEST COMMENT: IF: Surface blow died in 8 min.
 IS: No return.
 FF: No blow.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2403.79	121.15	Initial Hydro-static
2	18.42	121.08	Open To Flow (1)
32	23.32	123.09	Shut-In(1)
61	1257.72	124.79	End Shut-In(1)
61	27.45	124.48	Open To Flow (2)
92	32.62	126.27	Shut-In(2)
121	1200.37	127.89	End Shut-In(2)
123	2272.50	128.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100%m	0.05

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Val Energy Inc
 125 N Market St ste 1110
 Wichita, KS 67202
 ATTN: Tim Prest

31-7s-35w Thomas,KS
Johnson #1-31
 Job Ticket: 63810 **DST#: 3**
 Test Start: 2017.06.12 @ 00:40:22

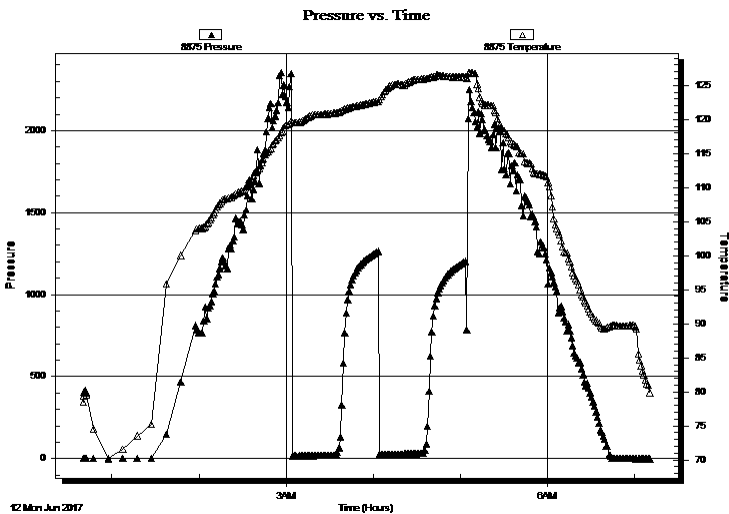
GENERAL INFORMATION:

Formation: LKC K	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Brandon Turley
Time Tool Opened: 03:04:22	Unit No: 79
Time Test Ended: 07:10:52	Reference Elevations: 3328.00 ft (KB)
Interval: 4397.00 ft (KB) To 4425.00 ft (KB) (TVD)	3323.00 ft (CF)
Total Depth: 4425.00 ft (KB) (TVD)	KB to GR/CF: 5.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Good

Serial #: 8875	Inside	Capacity: 8000.00 psig
Press@RunDepth: psig @ 4402.00 ft (KB)	Start Date: 2017.06.12	End Date: 2017.06.12
Start Time: 00:40:35	End Time: 07:10:59	Last Calib.: 2017.06.12
		Time On Btm:
		Time Off Btm:

TEST COMMENT: IF: Surface blow died in 8 min.
 IS: No return.
 FF: No blow.
 FS: No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100%m	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Val Energy Inc
125 N Market St ste 1110
Wichita, KS 67202
ATTN: Tim Prest

31-7s-35w Thomas,KS
Johnson #1-31
Job Ticket: 63810 **DST#: 3**
Test Start: 2017.06.12 @ 00:40:22

Tool Information

Drill Pipe:	Length: 4287.00 ft	Diameter: 3.80 inches	Volume: 60.14 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 60.73 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4397.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	48.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Stubb	1.00			4382.00	
Shut In Tool	5.00			4387.00	
Hydraulic tool	5.00			4392.00	
Packer	5.00			4397.00	16.00 Bottom Of Top Packer
Packer - Shale	4.00			4401.00	
Stubb	1.00			4402.00	
Recorder	0.00	8875	Inside	4402.00	
Recorder	0.00	8166	Outside	4402.00	
Perforations	22.00			4424.00	
Bullnose	5.00			4429.00	32.00 Anchor Tool
Total Tool Length:	48.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy Inc
125 N Market St ste 1110
Wichita, KS 67202
ATTN: Tim Prest

31-7s-35w Thomas,KS
Johnson #1-31
Job Ticket: 63810 **DST#: 3**
Test Start: 2017.06.12 @ 00:40:22

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

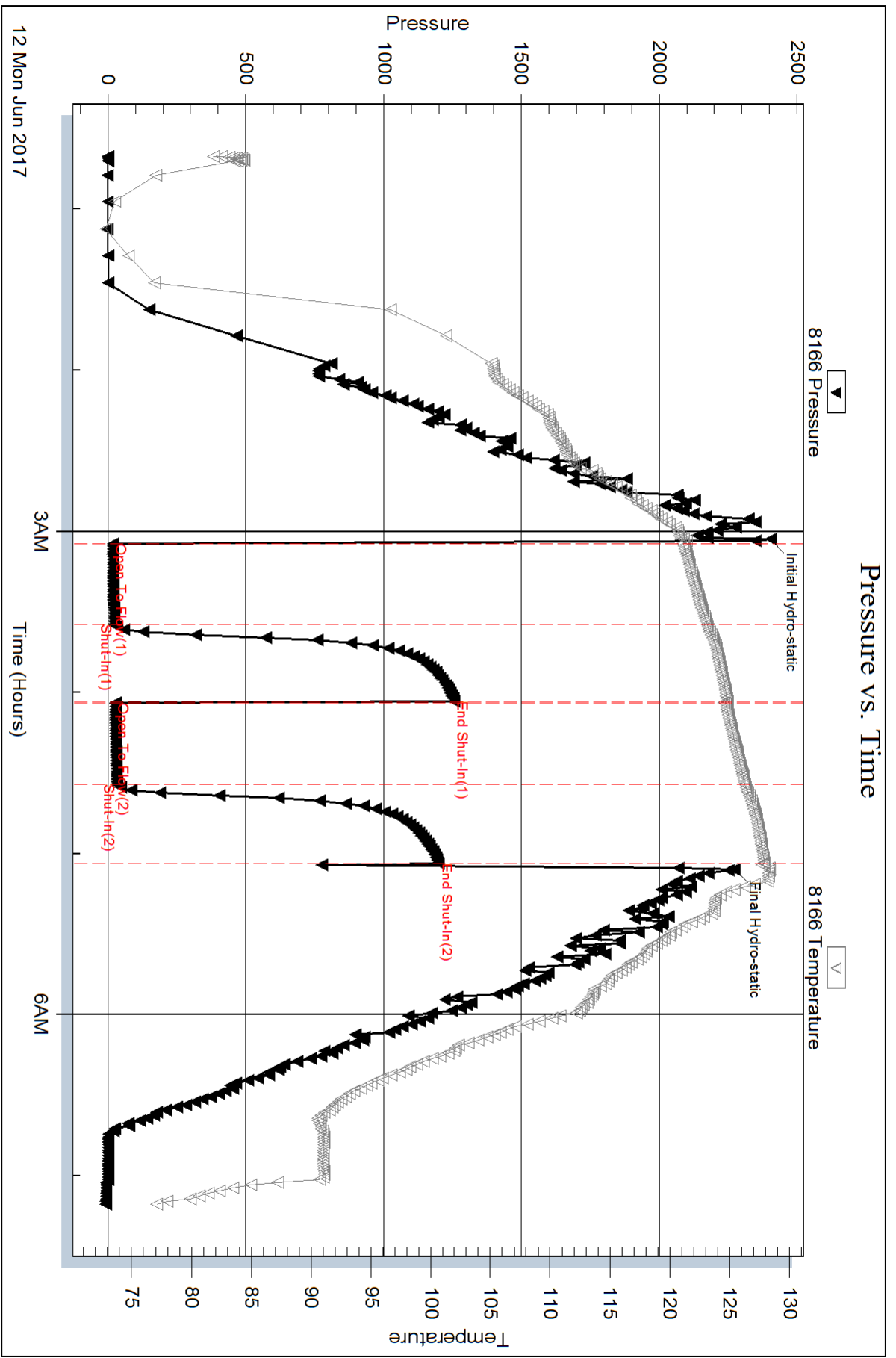
Length ft	Description	Volume bbl
10.00	mud 100%m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



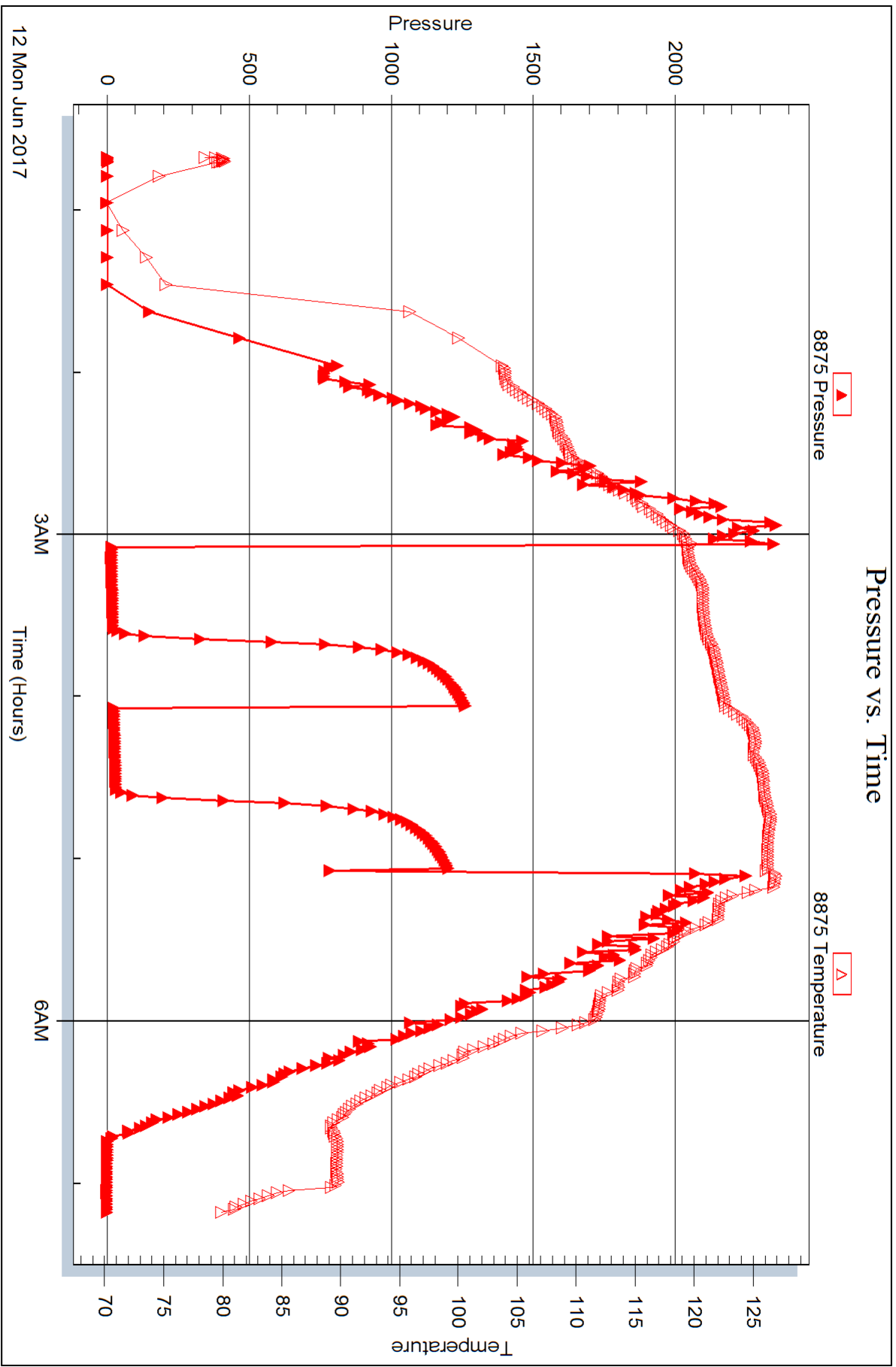
Serial #: 8875

Inside

Val Energy Inc

Johnson #1-31

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 63810

Printed: 2017.06.16 @ 13:28:01



DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc**

125 N Market St ste 1110
Wichita, KS 67202

ATTN: Tim Prest

Johnson #1-31

31-7s-35w Thomas,KS

Start Date: 2017.06.12 @ 17:03:46

End Date: 2017.06.12 @ 22:52:16

Job Ticket #: 63811 DST #: 4

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

Printed: 2017.06.16 @ 13:25:26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Val Energy Inc
 125 N Market St ste 1110
 Wichita, KS 67202
 ATTN: Tim Prest

31-7s-35w Thomas,KS
Johnson #1-31
 Job Ticket: 63811 **DST#: 4**
 Test Start: 2017.06.12 @ 17:03:46

GENERAL INFORMATION:

Formation: **LKC L - Pleasanton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:59:46
 Time Test Ended: 22:52:16
 Interval: **4433.00 ft (KB) To 4480.00 ft (KB) (TVD)**
 Total Depth: 4480.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3328.00 ft (KB)
 3323.00 ft (CF)
 KB to GR/CF: 5.00 ft

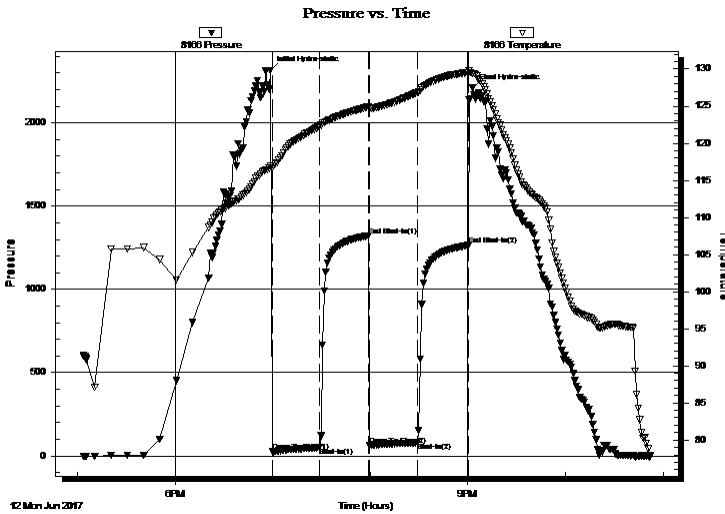
Serial #: 8166

Outside

Press@RunDepth: 79.28 psig @ 4438.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.06.12 End Date: 2017.06.12 Last Calib.: 2017.06.12
 Start Time: 17:03:51 End Time: 22:52:15 Time On Btm: 2017.06.12 @ 18:58:46
 Time Off Btm: 2017.06.12 @ 21:02:46

TEST COMMENT: IF: Surface blow built to 1/2"
 IS: No return.
 FF: Surface blow built to 1/2"
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2315.34	116.89	Initial Hydro-static
1	24.44	116.65	Open To Flow (1)
30	50.64	122.28	Shut-In(1)
60	1321.67	124.90	End Shut-In(1)
61	63.09	124.63	Open To Flow (2)
90	79.28	126.80	Shut-In(2)
122	1264.35	129.55	End Shut-In(2)
124	2207.99	129.42	Final Hydro-static

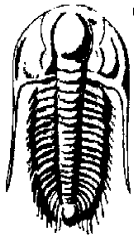
Recovery

Length (ft)	Description	Volume (bbl)
120.00	w cm 5%w 95%m	0.59

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Val Energy Inc
125 N Market St ste 1110
Wichita, KS 67202
ATTN: Tim Prest

31-7s-35w Thomas,KS
Johnson #1-31
Job Ticket: 63811 **DST#: 4**
Test Start: 2017.06.12 @ 17:03:46

GENERAL INFORMATION:

Formation: **LKC L - Pleasanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:59:46

Time Test Ended: 22:52:16

Interval: 4433.00 ft (KB) To 4480.00 ft (KB) (TVD)

Total Depth: 4480.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Reference Elevations: 3328.00 ft (KB)

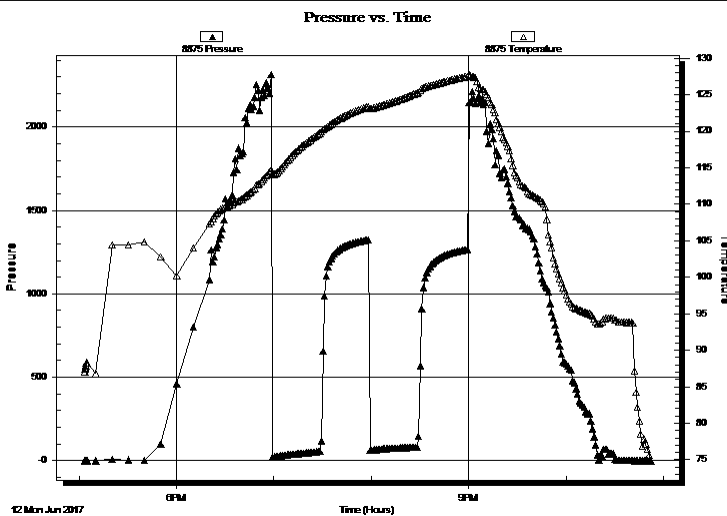
3323.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8875 Inside

Press@RunDepth: psig @	4438.00 ft (KB)	Capacity:	8000.00 psig
Start Date: 2017.06.12	End Date: 2017.06.12	Last Calib.:	2017.06.12
Start Time: 17:03:18	End Time: 22:52:12	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF: Surface blow built to 1/2"
IS: No return.
FF: Surface blow built to 1/2"
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	w cm 5%w 95%m	0.59

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Val Energy Inc
125 N Market St ste 1110
Wichita, KS 67202
ATTN: Tim Prest

31-7s-35w Thomas,KS
Johnson #1-31
Job Ticket: 63811 **DST#: 4**
Test Start: 2017.06.12 @ 17:03:46

Tool Information

Drill Pipe:	Length: 4318.00 ft	Diameter: 3.80 inches	Volume: 60.57 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 61.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4433.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	67.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Stubb	1.00			4418.00	
Shut In Tool	5.00			4423.00	
Hydraulic tool	5.00			4428.00	
Packer	5.00			4433.00	16.00 Bottom Of Top Packer
Packer - Shale	4.00			4437.00	
Stubb	1.00			4438.00	
Recorder	0.00	8875	Inside	4438.00	
Recorder	0.00	8166	Outside	4438.00	
Perforations	7.00			4445.00	
Change Over Sub	1.00			4446.00	
Drill Pipe	32.00			4478.00	
Change Over Sub	1.00			4479.00	
Bullnose	5.00			4484.00	51.00 Anchor Tool

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy Inc
125 N Market St ste 1110
Wichita, KS 67202
ATTN: Tim Prest

31-7s-35w Thomas,KS
Johnson #1-31
Job Ticket: 63811 **DST#: 4**
Test Start: 2017.06.12 @ 17:03:46

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.79 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 11000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

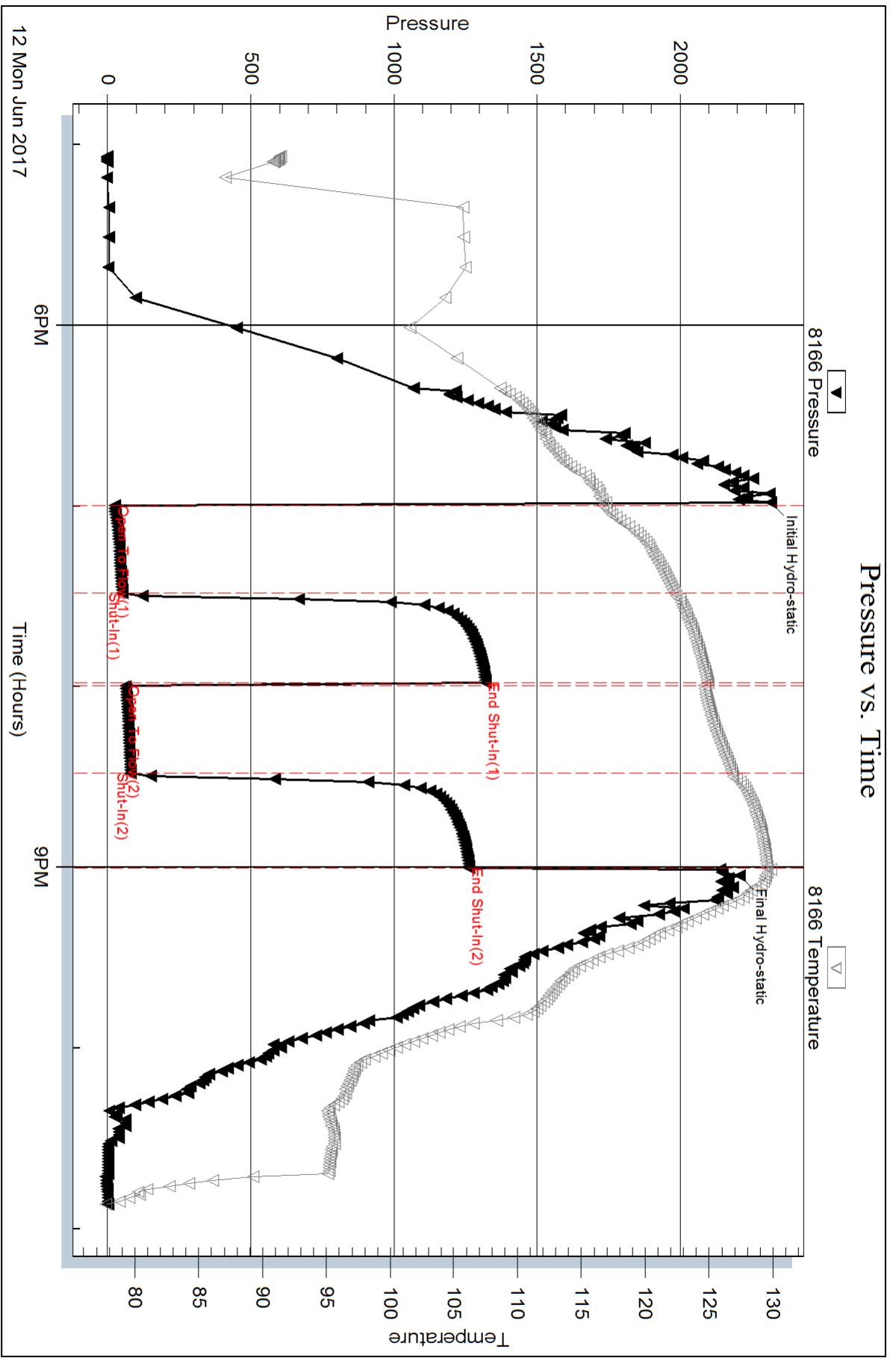
Length ft	Description	Volume bbl
120.00	w cm 5%w 95%m	0.590

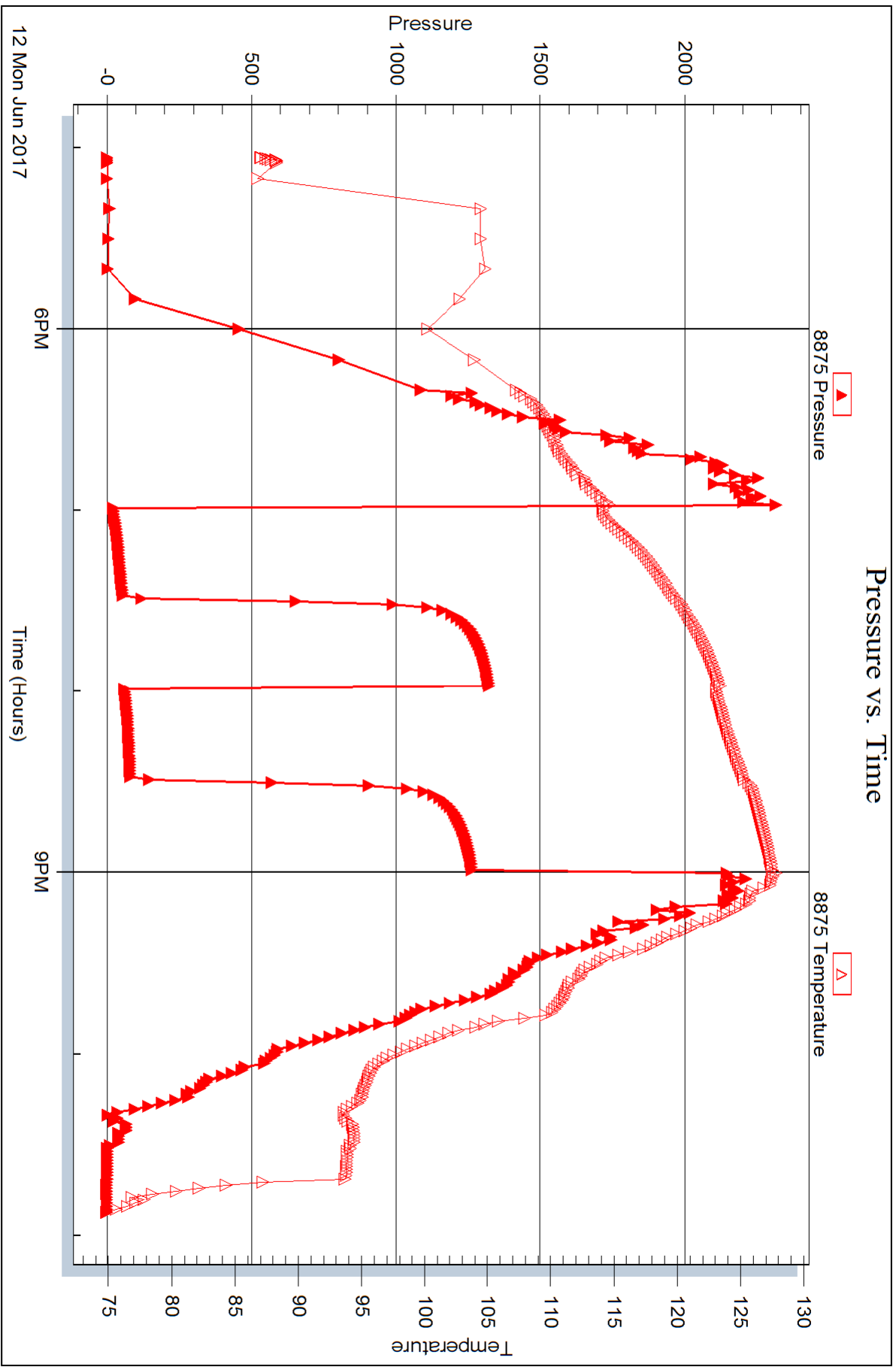
Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc**

125 N Market St ste 1110
Wichita, KS 67202

ATTN: Tim Prest

Johnson #1-31

31-7s-35w Thomas,KS

Start Date: 2017.06.13 @ 14:01:15

End Date: 2017.06.13 @ 22:47:45

Job Ticket #: 63812 DST #: 5

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

Printed: 2017.06.16 @ 13:24:33



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Val Energy Inc
 125 N Market St ste 1110
 Wichita, KS 67202
 ATTN: Tim Prest

31-7s-35w Thomas,KS
Johnson #1-31
 Job Ticket: 63812 **DST#: 5**
 Test Start: 2017.06.13 @ 14:01:15

GENERAL INFORMATION:

Formation: **Marmaton ABC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:57:15
 Time Test Ended: 22:47:45
 Interval: **4480.00 ft (KB) To 4560.00 ft (KB) (TVD)**
 Total Depth: 4560.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3328.00 ft (KB)
 3323.00 ft (CF)
 KB to GR/CF: 5.00 ft

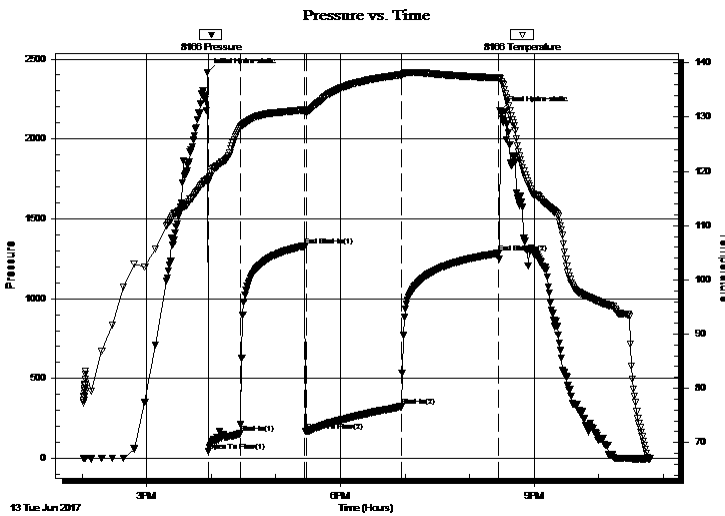
Serial #: 8166

Outside

Press@RunDepth: 324.18 psig @ 4485.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.06.13 End Date: 2017.06.13 Last Calib.: 2017.06.13
 Start Time: 14:01:20 End Time: 22:47:45 Time On Btm: 2017.06.13 @ 15:56:15
 Time Off Btm: 2017.06.13 @ 20:28:15

TEST COMMENT: IF: BOB in 11 min.
 IS: Surface blow built to 1 1/2.
 FF: BOB in 12 min.
 FS: BOB in 27 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2416.53	118.60	Initial Hydro-static
1	42.68	118.11	Open To Flow (1)
31	155.02	128.02	Shut-In(1)
91	1329.98	131.32	End Shut-In(1)
92	168.89	131.02	Open To Flow (2)
180	324.18	137.80	Shut-In(2)
271	1283.67	137.22	End Shut-In(2)
272	2177.49	137.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	mcw 90%w 10%m	0.67
189.00	mcw 60%w 40%m	2.65
189.00	gocw m 40%g 5%o 5%w 50%m	2.65
252.00	go 40%g 60%o	3.53
0.00	945 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Val Energy Inc
125 N Market St ste 1110
Wichita, KS 67202
ATTN: Tim Prest

31-7s-35w Thomas,KS
Johnson #1-31
Job Ticket: 63812 **DST#: 5**
Test Start: 2017.06.13 @ 14:01:15

Tool Information

Drill Pipe:	Length: 4350.00 ft	Diameter: 3.80 inches	Volume: 61.02 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 61.61 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4480.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	84.00 ft				
Tool Length:	100.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4465.00	
Shut In Tool	5.00			4470.00	
Hydraulic tool	5.00			4475.00	
Packer	5.00			4480.00	16.00 Bottom Of Top Packer
Packer - Shale	4.00			4484.00	
Stubb	1.00			4485.00	
Recorder	0.00	8875	Inside	4485.00	
Recorder	0.00	8166	Outside	4485.00	
Perforations	8.00			4493.00	
Change Over Sub	1.00			4494.00	
Drill Pipe	64.00			4558.00	
Change Over Sub	1.00			4559.00	
Bullnose	5.00			4564.00	84.00 Anchor Tool

Total Tool Length: 100.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy Inc
125 N Market St ste 1110
Wichita, KS 67202
ATTN: Tim Prest

31-7s-35w Thomas,KS
Johnson #1-31
Job Ticket: 63812 **DST#: 5**
Test Start: 2017.06.13 @ 14:01:15

Mud and Cushion Information

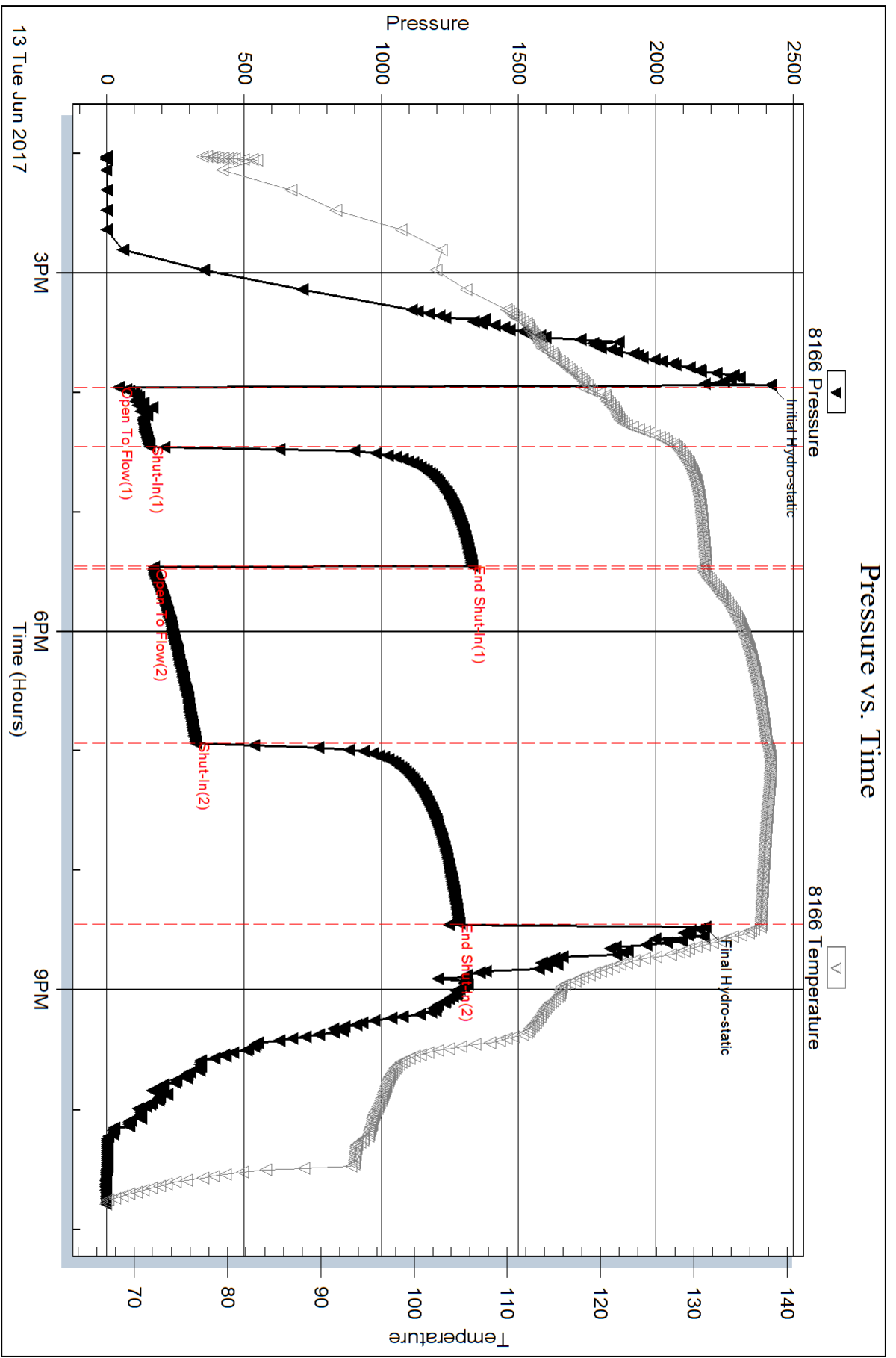
Mud Type: Gel Chem	Cushion Type:	Oil API: 38 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 34000 ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.19 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 7500.00 ppm		
Filter Cake: 1.00 inches		

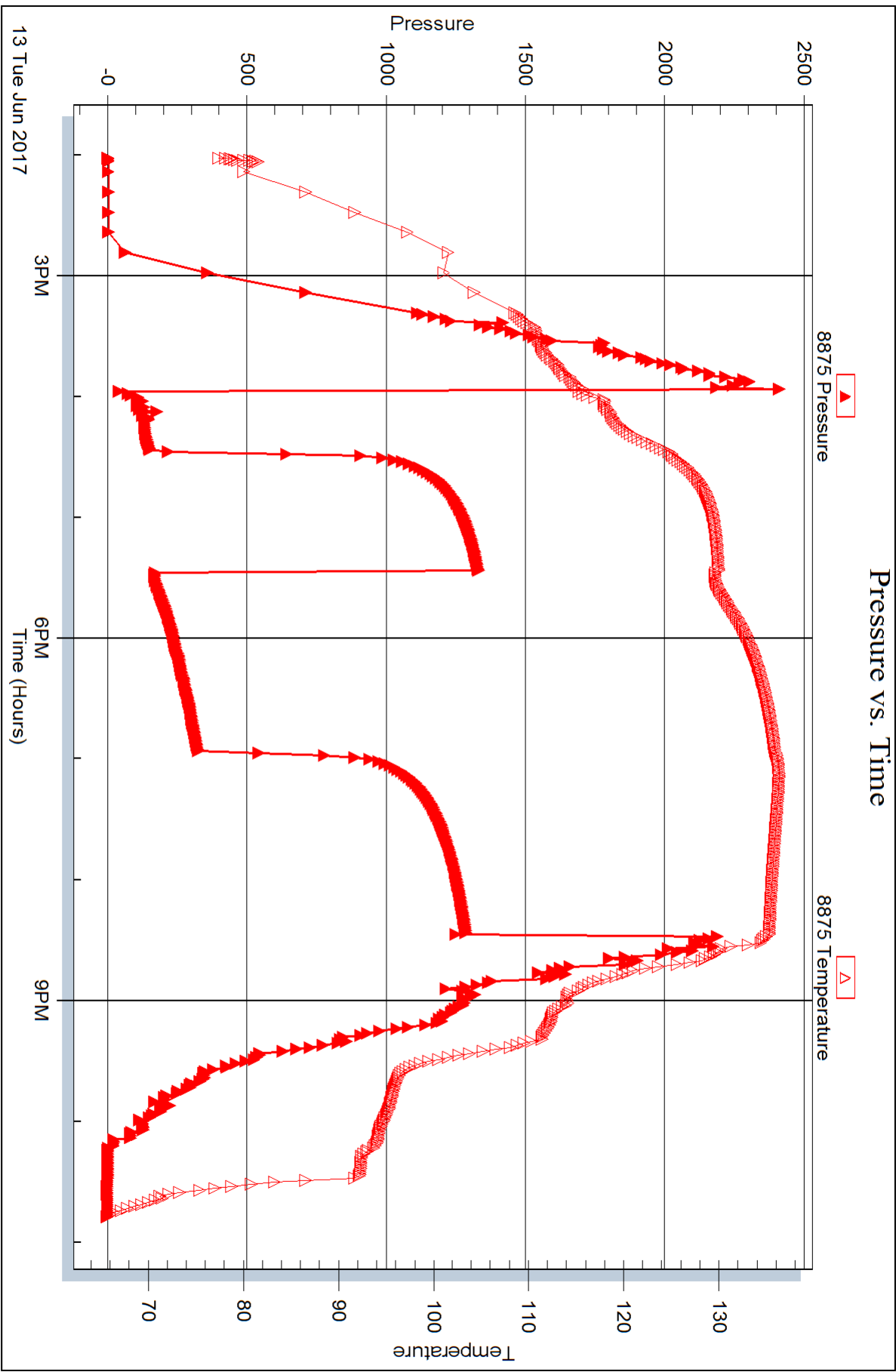
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	mcw 90%w 10%m	0.674
189.00	mcw 60%w 40%m	2.651
189.00	gocw m 40%g 5%o 5%w 50%m	2.651
252.00	go 40%g 60%o	3.535
0.00	945 GIP	0.000

Total Length: 756.00 ft Total Volume: 9.511 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 40@80=38
 .19@77=34000







DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc**

125 N Market St ste 1110
Wichita, KS 67202

ATTN: Tim Prest

Johnson #1-31

31-7s-35w Thomas,KS

Start Date: 2017.06.14 @ 07:47:36

End Date: 2017.06.14 @ 13:53:06

Job Ticket #: 63813 DST #: 6

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

Printed: 2017.06.16 @ 13:23:47



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Val Energy Inc
 125 N Market St ste 1110
 Wichita, KS 67202
 ATTN: Tim Prest

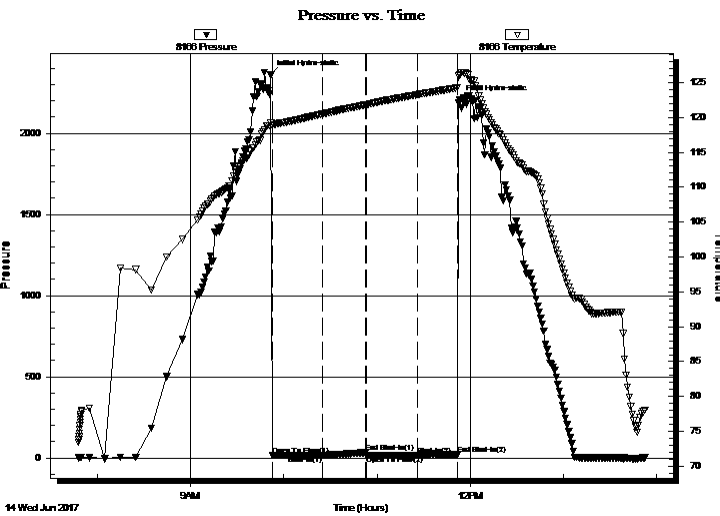
31-7s-35w Thomas,KS
Johnson #1-31
 Job Ticket: 63813 **DST#: 6**
 Test Start: 2017.06.14 @ 07:47:36

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:52:36
 Time Test Ended: 13:53:06
 Interval: **4565.00 ft (KB) To 4600.00 ft (KB) (TVD)**
 Total Depth: 4600.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3328.00 ft (KB)
 3323.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8166 Outside
 Press@RunDepth: 18.45 psig @ 4570.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.06.14 End Date: 2017.06.14 Last Calib.: 2017.06.14
 Start Time: 07:47:41 End Time: 13:53:05 Time On Btm: 2017.06.14 @ 09:51:36
 Time Off Btm: 2017.06.14 @ 11:53:06

TEST COMMENT: IF: Surface blow died in 7 min.
 IS: No return.
 FF: No blow.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2360.05	119.21	Initial Hydro-static
1	17.56	118.81	Open To Flow (1)
33	17.49	120.46	Shut-In(1)
61	32.65	121.81	End Shut-In(1)
62	17.72	121.82	Open To Flow (2)
95	18.45	123.25	Shut-In(2)
120	19.91	124.22	End Shut-In(2)
122	2205.41	126.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Val Energy Inc
125 N Market St ste 1110
Wichita, KS 67202

ATTN: Tim Prest

31-7s-35w Thomas,KS

Johnson #1-31

Job Ticket: 63813

DST#: 6

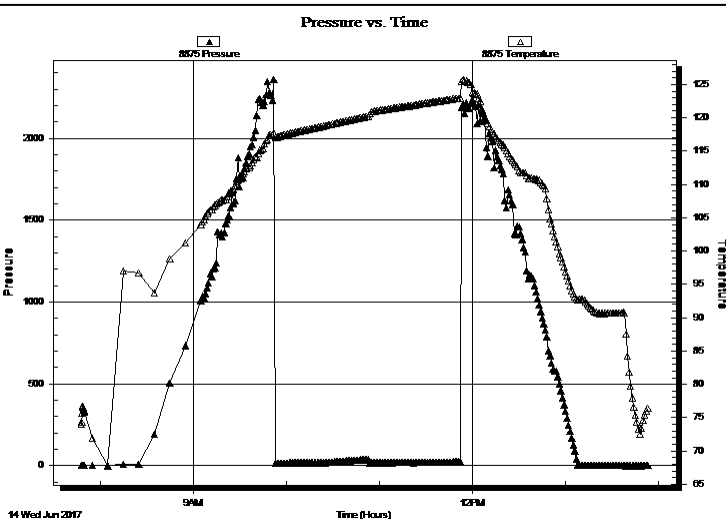
Test Start: 2017.06.14 @ 07:47:36

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 09:52:36
 Tester: Brandon Turley
 Time Test Ended: 13:53:06
 Unit No: 79
 Interval: **4565.00 ft (KB) To 4600.00 ft (KB) (TVD)**
 Reference Elevations: 3328.00 ft (KB)
 Total Depth: 4600.00 ft (KB) (TVD)
 3323.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 5.00 ft

Serial #: 8875 Inside
 Press@RunDepth: psig @ 4570.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.06.14 End Date: 2017.06.14 Last Calib.: 2017.06.14
 Start Time: 07:47:54 End Time: 13:53:18 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Surface blow died in 7 min.
 IS: No return.
 FF: No blow.
 FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Val Energy Inc
125 N Market St ste 1110
Wichita, KS 67202
ATTN: Tim Prest

31-7s-35w Thomas,KS
Johnson #1-31
Job Ticket: 63813 **DST#: 6**
Test Start: 2017.06.14 @ 07:47:36

Tool Information

Drill Pipe:	Length: 4445.00 ft	Diameter: 3.80 inches	Volume: 62.35 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 62.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4565.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4550.00	
Shut In Tool	5.00			4555.00	
Hydraulic tool	5.00			4560.00	
Packer	5.00			4565.00	16.00 Bottom Of Top Packer
Packer - Shale	4.00			4569.00	
Stubb	1.00			4570.00	
Recorder	0.00	8875	Inside	4570.00	
Recorder	0.00	8166	Outside	4570.00	
Perforations	29.00			4599.00	
Bullnose	5.00			4604.00	39.00 Anchor Tool
Total Tool Length:	55.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy Inc
125 N Market St ste 1110
Wichita, KS 67202
ATTN: Tim Prest

31-7s-35w Thomas,KS
Johnson #1-31
Job Ticket: 63813 **DST#: 6**
Test Start: 2017.06.14 @ 07:47:36

Mud and Cushion Information

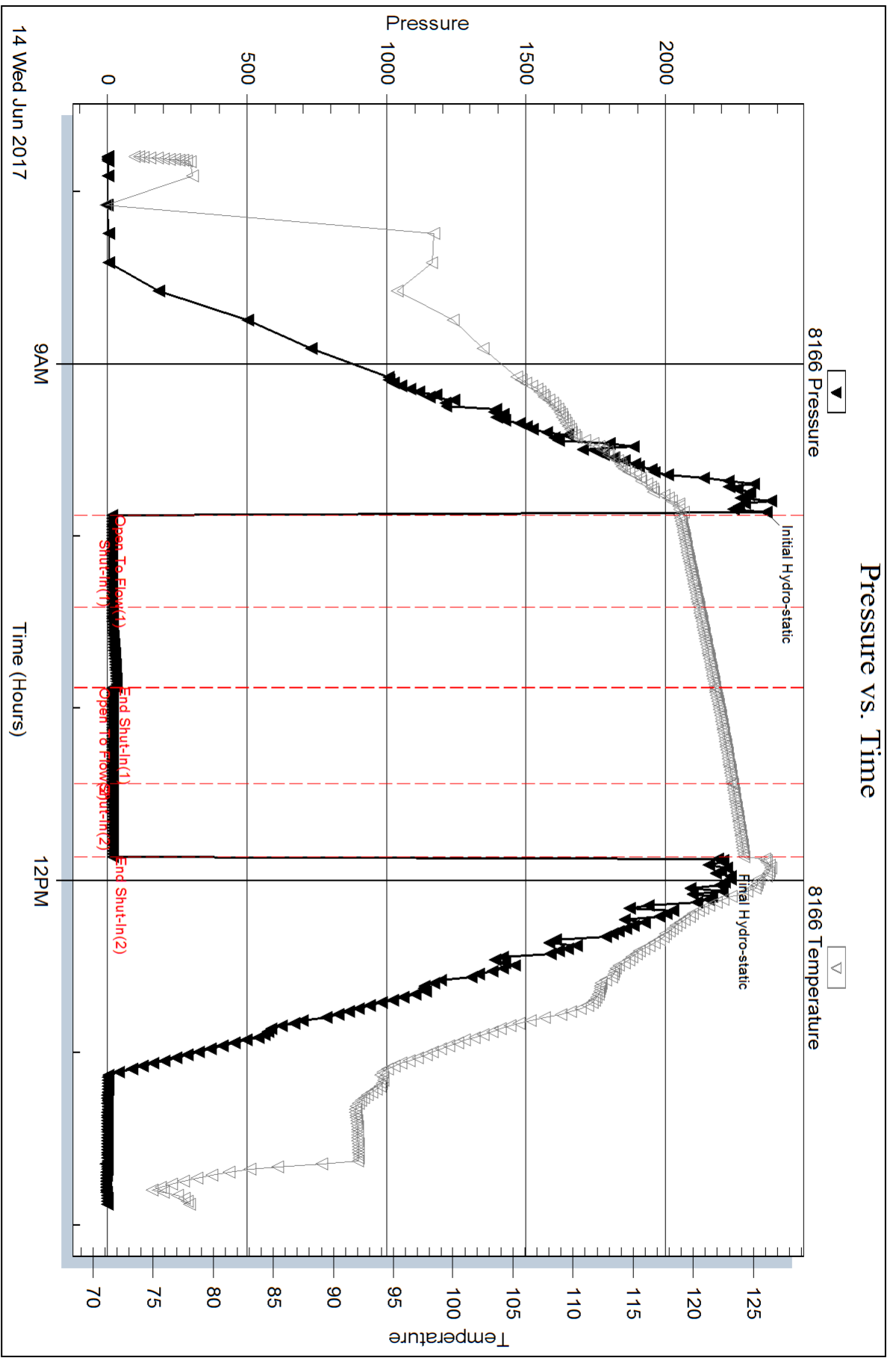
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.99 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 6500.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



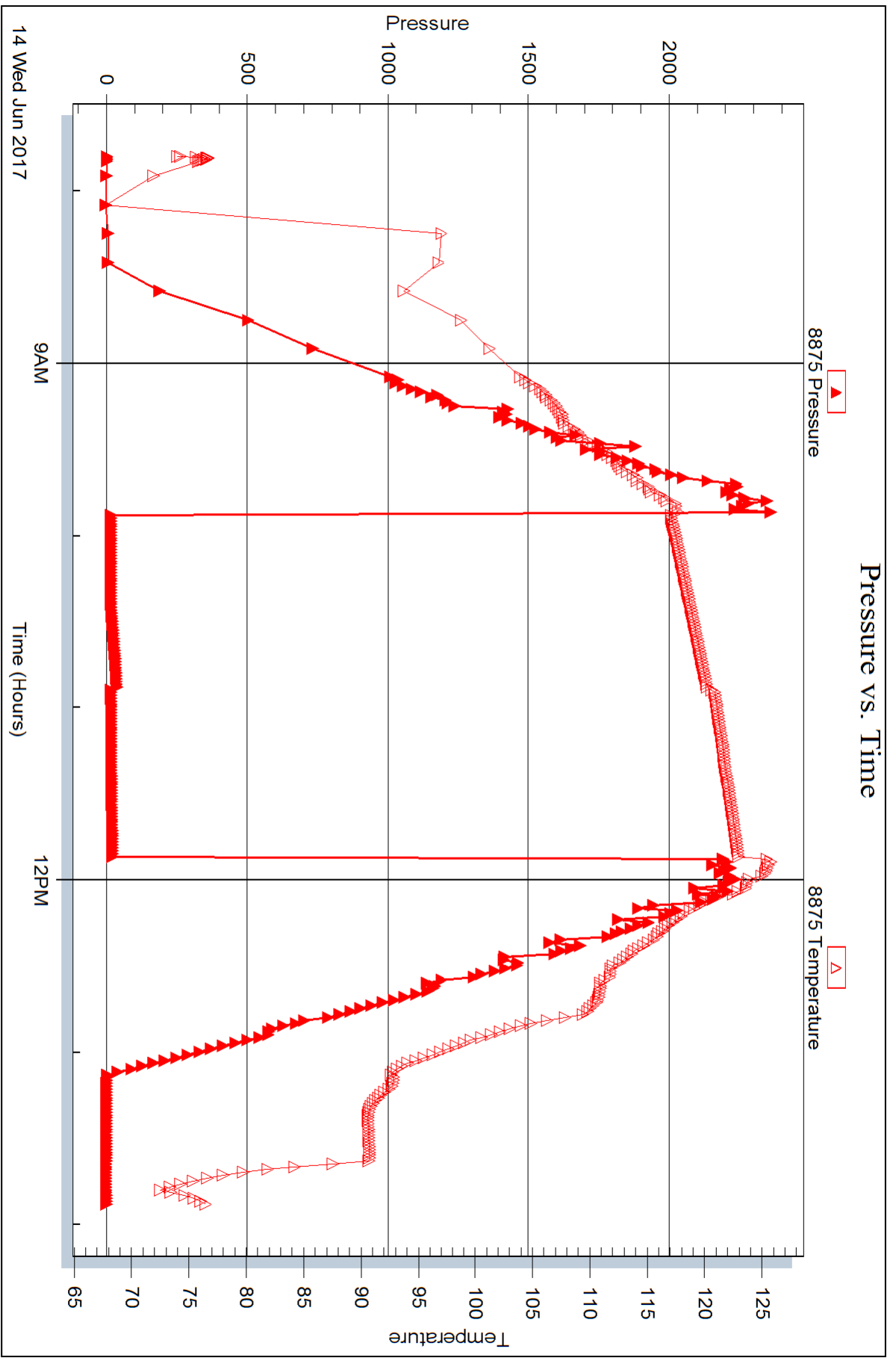
Serial #: 8875

Inside

Val Energy Inc

Johnson #1-31

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 63813

Printed: 2017.06.16 @ 13:23:50



DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc**

125 N Market St ste 1110
Wichita, KS 67202

ATTN: Tim Prest

Johnson #1-31

31-7s-35w Thomas,KS

Start Date: 2017.06.15 @ 06:52:13

End Date: 2017.06.15 @ 12:45:13

Job Ticket #: 63814 DST #: 7

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

Printed: 2017.06.16 @ 13:23:20



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Val Energy Inc
 125 N Market St ste 1110
 Wichita, KS 67202
 ATTN: Tim Prest

31-7s-35w Thomas, KS
Johnson #1-31
 Job Ticket: 63814 **DST#: 7**
 Test Start: 2017.06.15 @ 06:52:13

GENERAL INFORMATION:

Formation: **Cherokee Ls**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:54:13
 Time Test Ended: 12:45:13
 Interval: **4665.00 ft (KB) To 4700.00 ft (KB) (TVD)**
 Total Depth: 4700.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3328.00 ft (KB)
 3323.00 ft (CF)
 KB to GR/CF: 5.00 ft

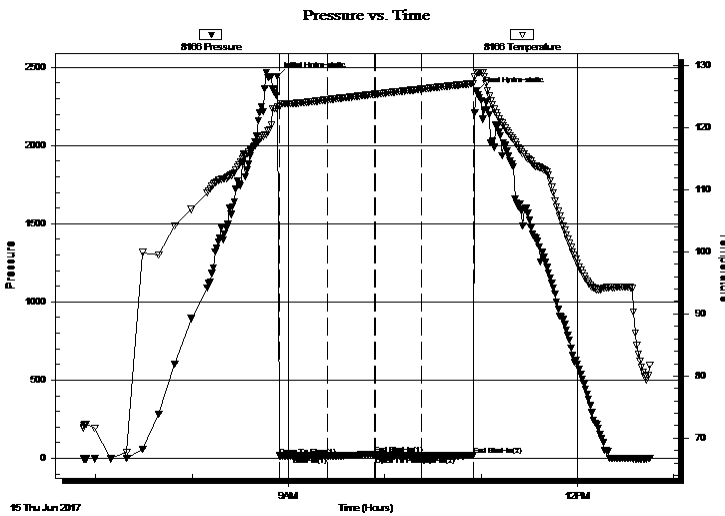
Serial #: 8166

Outside

Press@RunDepth: 16.01 psig @ 4670.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.06.15 End Date: 2017.06.15 Last Calib.: 2017.06.15
 Start Time: 06:52:18 End Time: 12:45:12 Time On Btm: 2017.06.15 @ 08:53:13
 Time Off Btm: 2017.06.15 @ 10:57:13

TEST COMMENT: IF: Surface blow died in 8 min.
 IS: No return.
 FF: No blow.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2441.64	123.35	Initial Hydro-static
1	16.52	123.30	Open To Flow (1)
31	16.61	124.50	Shut-In(1)
61	28.30	125.40	End Shut-In(1)
61	15.56	125.40	Open To Flow (2)
90	16.01	126.24	Shut-In(2)
122	18.29	127.13	End Shut-In(2)
124	2347.56	128.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Val Energy Inc
125 N Market St ste 1110
Wichita, KS 67202
ATTN: Tim Prest

31-7s-35w Thomas, KS
Johnson #1-31
Job Ticket: 63814 **DST#: 7**
Test Start: 2017.06.15 @ 06:52:13

GENERAL INFORMATION:

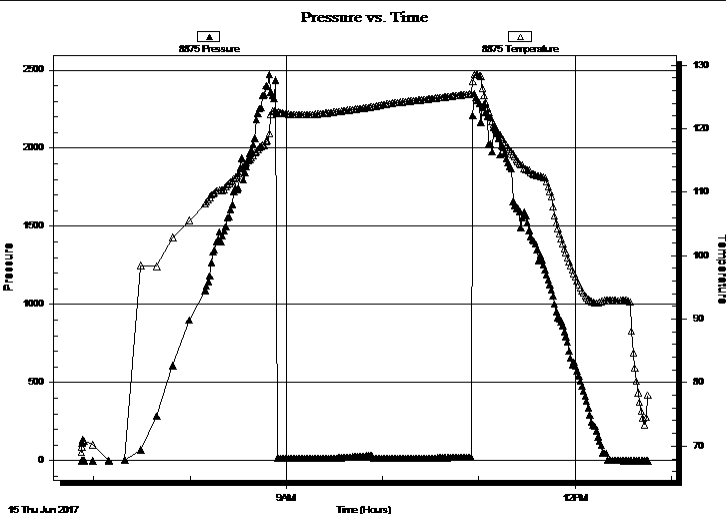
Formation: **Cherokee Ls**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 08:54:13 Tester: Brandon Turley
Time Test Ended: 12:45:13 Unit No: 79
Interval: 4665.00 ft (KB) To 4700.00 ft (KB) (TVD) Reference Elevations: 3328.00 ft (KB)
Total Depth: 4700.00 ft (KB) (TVD) 3323.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8875

Inside

Press@RunDepth: psig @ 4670.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.06.15 End Date: 2017.06.15 Last Calib.: 2017.06.15
Start Time: 06:52:23 End Time: 12:45:17 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Surface blow died in 8 min.
IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Val Energy Inc
125 N Market St ste 1110
Wichita, KS 67202
ATTN: Tim Prest

31-7s-35w Thomas,KS
Johnson #1-31
Job Ticket: 63814 **DST#: 7**
Test Start: 2017.06.15 @ 06:52:13

Tool Information

Drill Pipe:	Length: 4545.00 ft	Diameter: 3.80 inches	Volume: 63.75 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 64.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4665.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Stubb	1.00			4650.00	
Shut In Tool	5.00			4655.00	
Hydraulic tool	5.00			4660.00	
Packer	5.00			4665.00	16.00 Bottom Of Top Packer
Packer - Shale	4.00			4669.00	
Stubb	1.00			4670.00	
Recorder	0.00	8875	Inside	4670.00	
Recorder	0.00	8166	Outside	4670.00	
Perforations	29.00			4699.00	
Bullnose	5.00			4704.00	39.00 Anchor Tool
Total Tool Length:	55.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy Inc
125 N Market St ste 1110
Wichita, KS 67202
ATTN: Tim Prest

31-7s-35w Thomas,KS
Johnson #1-31
Job Ticket: 63814 **DST#: 7**
Test Start: 2017.06.15 @ 06:52:13

Mud and Cushion Information

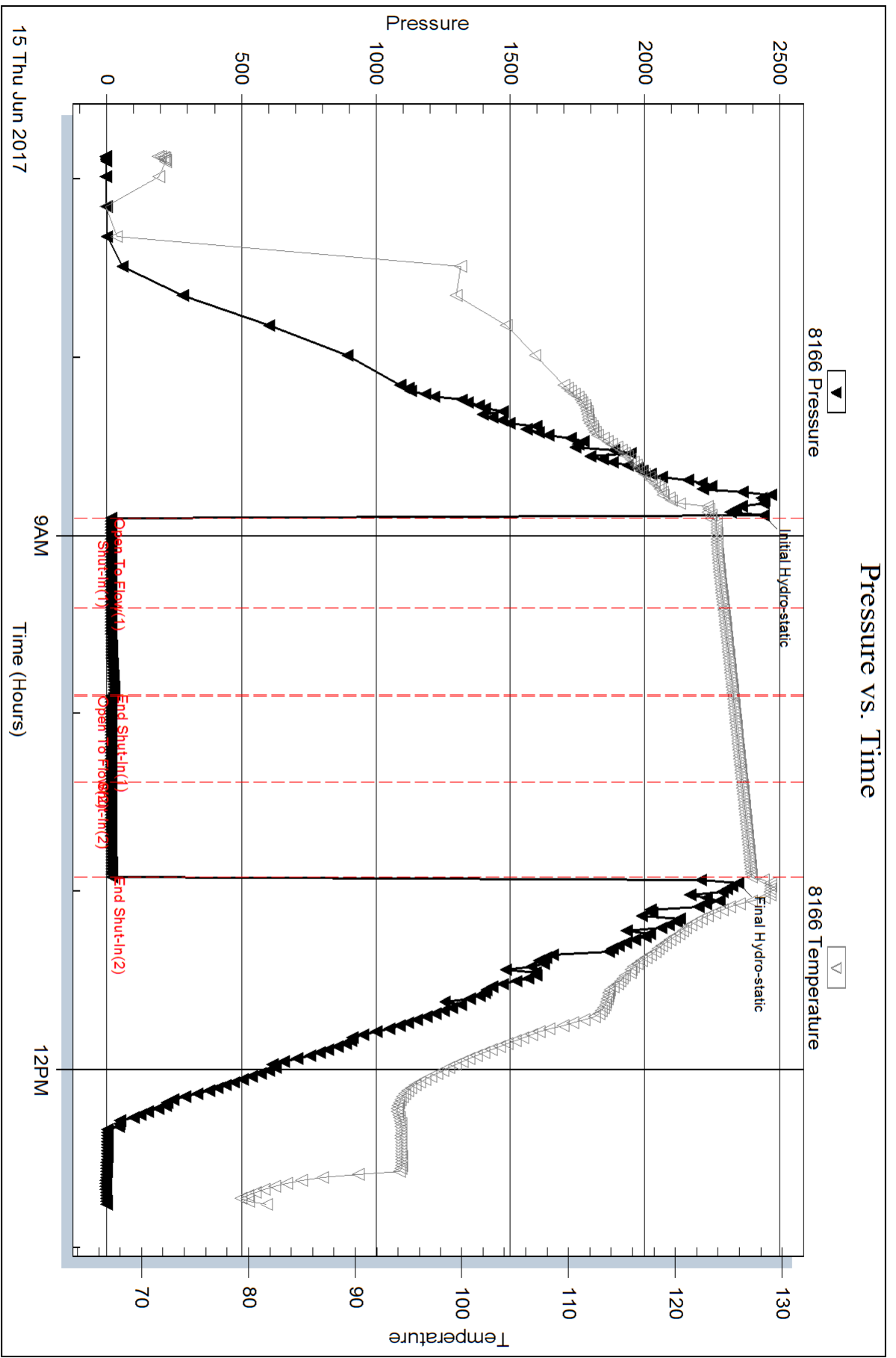
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.79 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 7000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



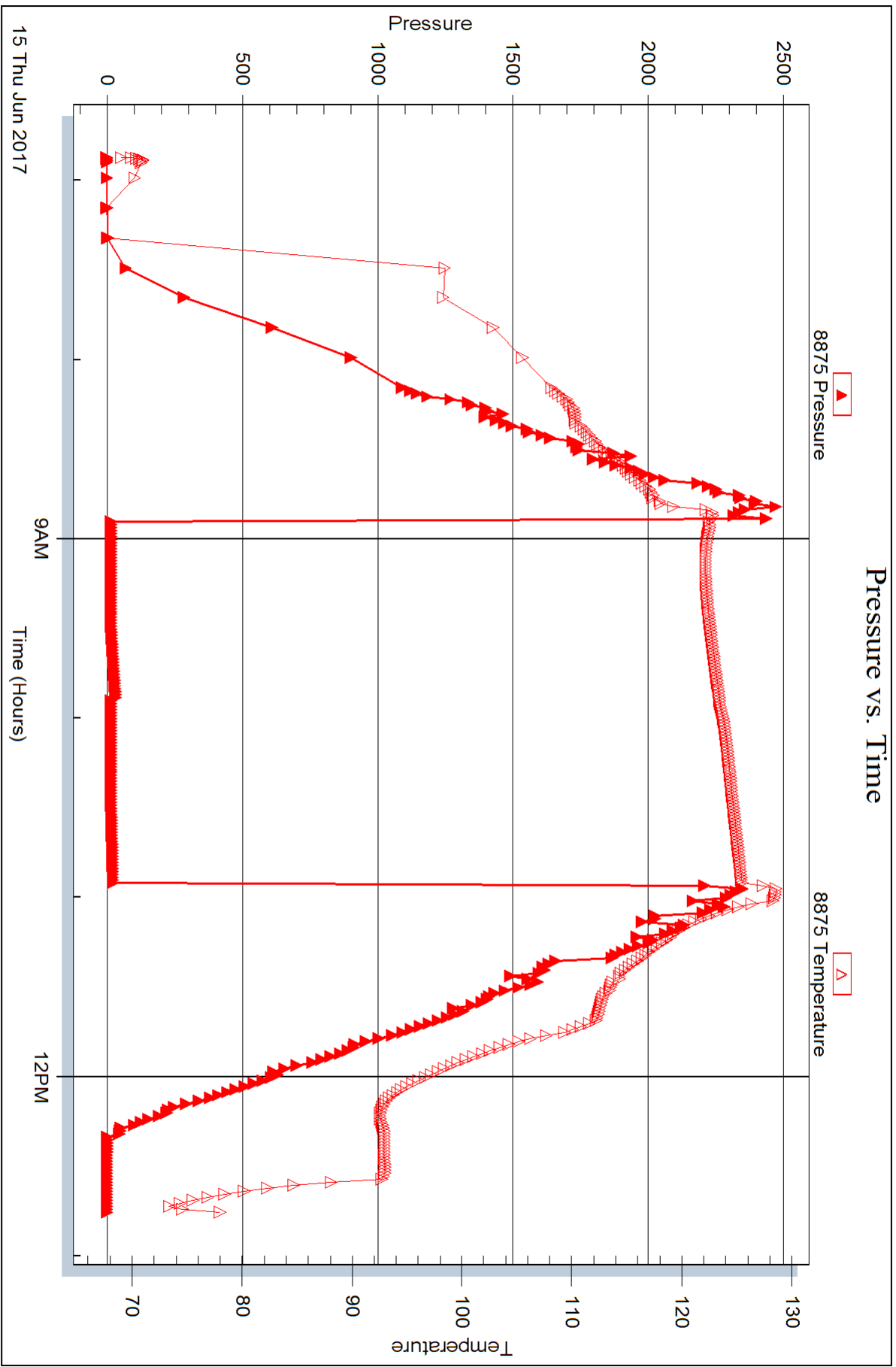
Serial #: 8875

Inside

Val Energy Inc

Johnson #1-31

DST Test Number: 7





DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc**

125 N Market St ste 1110
Wichita, KS 67202

ATTN: Tim Prest

Johnson #1-31

31-7s-35w Thomas,KS

Start Date: 2017.06.15 @ 20:58:47

End Date: 2017.06.16 @ 04:45:47

Job Ticket #: 63815 DST #: 8

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

Printed: 2017.06.16 @ 13:22:46



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Val Energy Inc
125 N Market St ste 1110
Wichita, KS 67202

ATTN: Tim Prest

31-7s-35w Thomas,KS

Johnson #1-31

Job Ticket: 63815

DST#: 8

Test Start: 2017.06.15 @ 20:58:47

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:44:17

Time Test Ended: 04:45:47

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4690.00 ft (KB) To 4725.00 ft (KB) (TVD)

Total Depth: 4725.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3328.00 ft (KB)

3323.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8166 Outside

Press@RunDepth: 1185.39 psig @ 4695.00 ft (KB)

Start Date: 2017.06.15

End Date:

2017.06.16

Start Time: 20:58:52

End Time:

04:45:46

Capacity: 8000.00 psig

Last Calib.: 2017.06.16

Time On Btm: 2017.06.15 @ 22:43:47

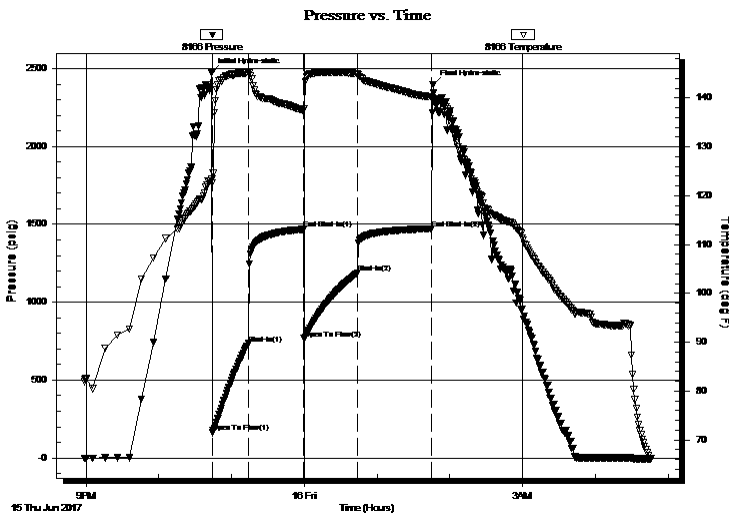
Time Off Btm: 2017.06.16 @ 01:46:17

TEST COMMENT: IF: BOB in 2 min.

IS: No return.

FF: BOB in 3 min.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2475.11	123.54	Initial Hydro-static
1	162.79	122.66	Open To Flow (1)
30	734.04	145.15	Shut-In(1)
76	1468.55	137.45	End Shut-In(1)
76	765.68	137.80	Open To Flow (2)
120	1185.39	145.05	Shut-In(2)
181	1472.17	140.22	End Shut-In(2)
183	2395.68	139.90	Final Hydro-static

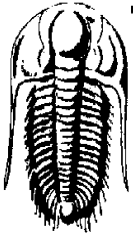
Recovery

Length (ft)	Description	Volume (bbl)
2142.00	water 100%w	28.95
315.00	mcw oil spots 70%w 30%m	4.42

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Val Energy Inc

125 N Market St ste 1110
Wichita, KS 67202

ATTN: Tim Prest

31-7s-35w Thomas, KS

Johnson #1-31

Job Ticket: 63815

DST#: 8

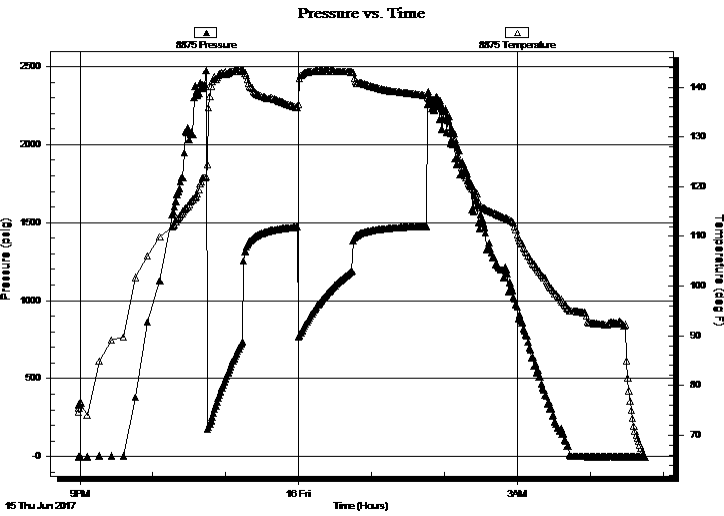
Test Start: 2017.06.15 @ 20:58:47

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:44:17
 Time Test Ended: 04:45:47
 Interval: **4690.00 ft (KB) To 4725.00 ft (KB) (TVD)**
 Total Depth: 4725.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3328.00 ft (KB)
 3323.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8875 Inside
 Press@RunDepth: psig @ 4695.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.06.15 End Date: 2017.06.16 Last Calib.: 2017.06.16
 Start Time: 20:58:53 End Time: 04:45:17 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB in 2 min.
 IS: No return.
 FF: BOB in 3 min.
 FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2142.00	water 100%w	28.95
315.00	mcw oil spots 70%w 30%m	4.42

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Val Energy Inc
125 N Market St ste 1110
Wichita, KS 67202
ATTN: Tim Prest

31-7s-35w Thomas,KS
Johnson #1-31
Job Ticket: 63815 **DST#: 8**
Test Start: 2017.06.15 @ 20:58:47

Tool Information

Drill Pipe:	Length: 4571.00 ft	Diameter: 3.80 inches	Volume: 64.12 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 64.71 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4690.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	39.00 ft				
Tool Length:	55.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Stubb	1.00			4675.00	
Shut In Tool	5.00			4680.00	
Hydraulic tool	5.00			4685.00	
Packer	5.00			4690.00	16.00 Bottom Of Top Packer
Packer - Shale	4.00			4694.00	
Stubb	1.00			4695.00	
Recorder	0.00	8875	Inside	4695.00	
Recorder	0.00	8166	Outside	4695.00	
Perforations	29.00			4724.00	
Bullnose	5.00			4729.00	39.00 Anchor Tool
Total Tool Length:	55.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy Inc

31-7s-35w Thomas,KS

125 N Market St ste 1110
Wichita, KS 67202

Johnson #1-31

Job Ticket: 63815

DST#: 8

ATTN: Tim Prest

Test Start: 2017.06.15 @ 20:58:47

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

28000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2142.00	water 100%w	28.953
315.00	mcw oil spots 70%w 30%m	4.419

Total Length: 2457.00 ft Total Volume: 33.372 bbl

Num Fluid Samples: 0

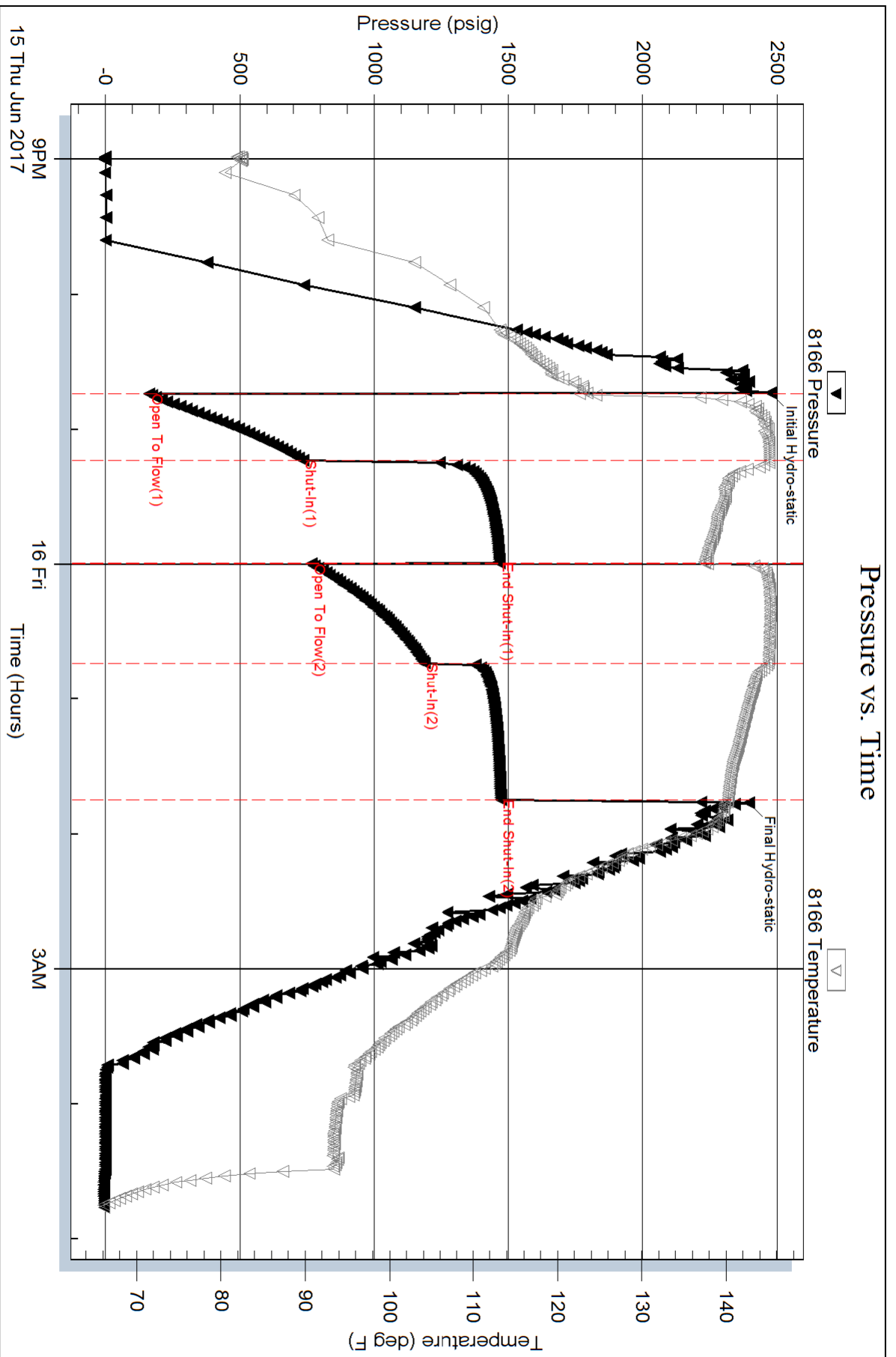
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .25@69=28000



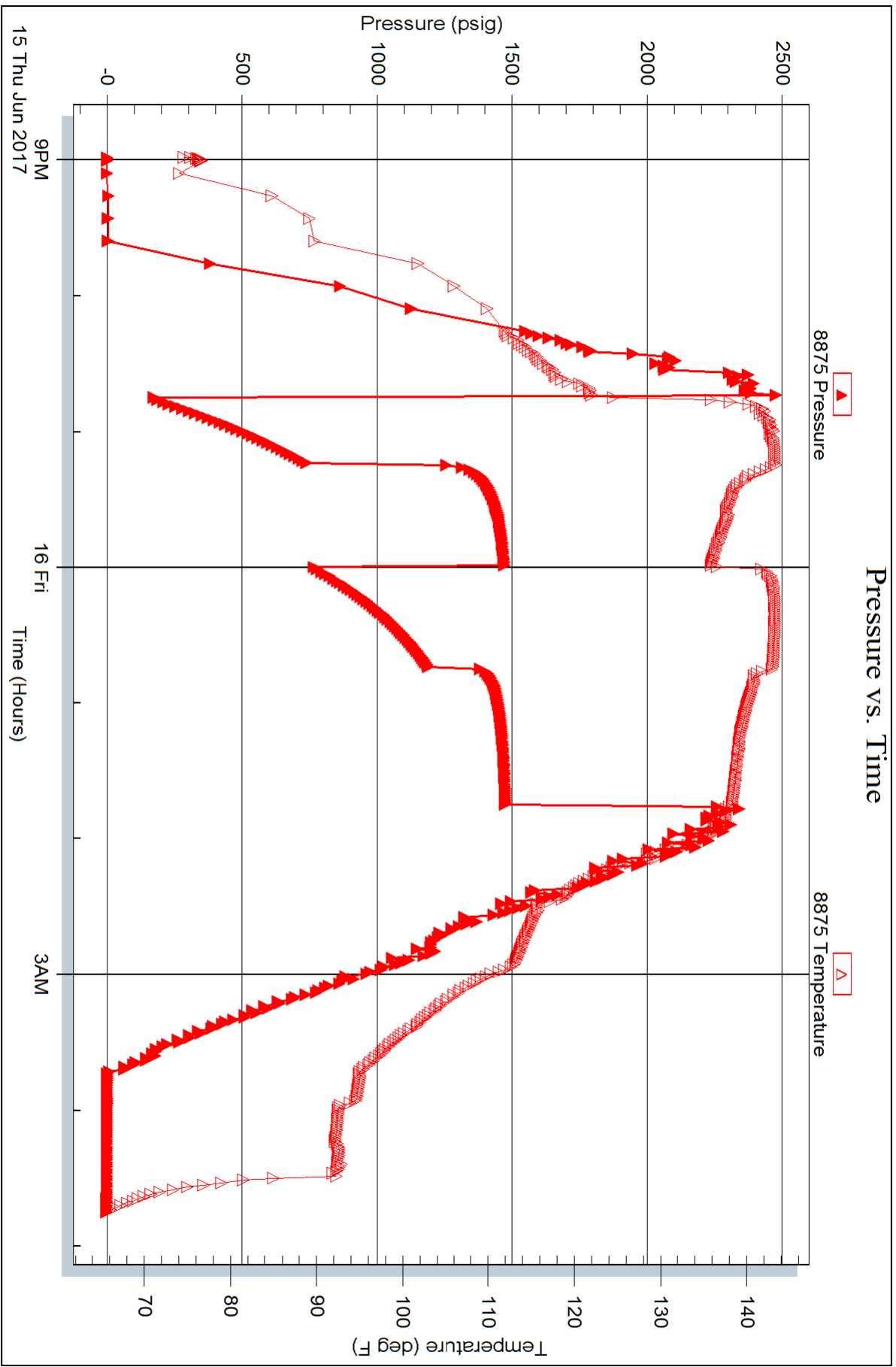
Serial #: 8875

Inside

Val Energy Inc

Johnson #1-31

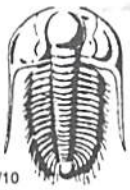
DST Test Number: 8



Triobite Testing, Inc

Ref. No: 63815

Printed: 2017.06.16 @ 13:22:47



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63808**

Well Name & No. Johnson 1-31 Test No. 1 Date 6-10-17
 Company VH Energy Inc Elevation 3328 KB 3323 GL
 Address 125 N Market St Ste 1110 Wichita, KS 67202
 Co. Rep / Geo. Tim Priest Rig WW #2
 Location: Sec. 31 Twp. 7 Rge. 35 Co. Thomas State KS

Interval Tested 4242 4290 Zone Tested Lensing DEF
 Anchor Length 48 Drill Pipe Run 4130 Mud Wt. 9.1
 Top Packer Depth 4237 Drill Collars Run 120 Vis 61
 Bottom Packer Depth 4242 Wt. Pipe Run — WL 8.8
 Total Depth 4290 Chlorides 4000 ppm System LCM 2

Blow Description #F: 1/4 blow built to 5.
#5: No return.
FF: surface blow built to 4 1/2.
F5: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>oil</u>	<u>100</u>			
<u>119</u>	<u>WCM</u>		<u>40</u>	<u>60</u>	
<u>120</u>	<u>MCM</u>		<u>80</u>	<u>20</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 244 BHT 130 Gravity — API RW .11 @ 104° F Chlorides 55,000 ppm

(A) Initial Hydrostatic 2239 Test 1150 T-On Location 10:45
 (B) First Initial Flow 21 Jars _____ T-Started 11:39
 (C) First Final Flow 71 Safety Joint _____ T-Open 14:20
 (D) Initial Shut-In 1257 Circ Sub NIL T-Pulled 17:05
 (E) Second Initial Flow 85 Hourly Standby _____ T-Out 19:09
 (F) Second Final Flow 125 Mileage 180-135 Comments out of town
 (G) Final Shut-In 1231 Sampler _____
 (H) Final Hydrostatic 2085 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Initial Open 30 Day Standby _____ Sub Total 0
 Initial Shut-In 30 Accessibility _____ Total 1535
 Final Flow 45 Sub Total 1535 MP/DST Disc't _____
 Final Shut-In 60

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63809**

Well Name & No. Johnson 1-31 Test No. 2 Date 6-11-17
 Company Vul Energy Inc Elevation 3328 KB 3323 GL
 Address _____
 Co. Rep / Geo. Tim Priest Rig WW#2
 Location: Sec. 31 Twp. 7 Rge. 35 Co. Thomas State KS

Interval Tested 4307 4395 Zone Tested H±J
 Anchor Length 88 Drill Pipe Run 4191 Mud Wt. 9.2
 Top Packer Depth 4302 Drill Collars Run 120 Vis 55
 Bottom Packer Depth 4307 Wt. Pipe Run _____ WL 9.6
 Total Depth 4395 Chlorides 8000 ppm System LCM 2

Blow Description ±F: BoB in 3 min.
±S: surface blow died in 20 min.
FF: BoB in 5 min.
±J: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>355</u>	<u>wcm oil spots on top</u>		<u>30</u>	<u>70</u>	
<u>252</u>	<u>MLW</u>		<u>90</u>	<u>10</u>	
<u>983</u>	<u>water</u>		<u>100</u>		
____	____				
____	____				

Rec Total 1590 BHT 137 Gravity _____ API RW .29 @ 78 °F Chlorides 16,000 ppm

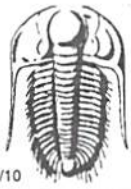
(A) Initial Hydrostatic 2260 Test 1150
 (B) First Initial Flow 57 Jars _____
 (C) First Final Flow 429 Safety Joint _____
 (D) Initial Shut-In 1253 Circ Sub _____
 (E) Second Initial Flow 439 Hourly Standby _____
 (F) Second Final Flow 751 Mileage 180 135
 (G) Final Shut-In 1213 Sampler _____
 (H) Final Hydrostatic 2085 Straddle _____
 Shale Packer 250
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1535

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60

T-On Location 9:45
 T-Started 10:05
 T-Open 12:24
 T-Pulled 15:24
 T-Out 17:30
 Comments out of town
pry
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1535
 MP/DST Disc't _____

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63810**

Well Name & No. Johnson 1-31 Test No. 3 Date 6-12-17
 Company UPL Energy Inc Elevation 3328 KB 3323 GL
 Address _____
 Co. Rep / Geo. Tim Priest Rig WW #2
 Location: Sec. 31 Twp. 7 Rge. 35 Co. Thomas State KS

Interval Tested 4397 4425 Zone Tested K
 Anchor Length 28 Drill Pipe Run 4287 Mud Wt. 9.2
 Top Packer Depth 4392 Drill Collars Run 120 Vis 55
 Bottom Packer Depth 4397 Wt. Pipe Run — WL 9.6
 Total Depth 4425 Chlorides 8000 ppm System LCM Z
 Blow Description IF: surface blow died in 8 min
IS: No return.
FF: No blow.
FS: No return.

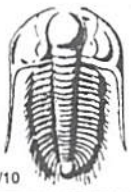
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 128 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2403</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>8:00</u>
(B) First Initial Flow <u>18</u>	<input type="checkbox"/> Jars	T-Started <u>06:40</u>
(C) First Final Flow <u>23</u>	<input type="checkbox"/> Safety Joint	T-Open <u>3:04</u>
(D) Initial Shut-In <u>1257</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>5:04</u>
(E) Second Initial Flow <u>27</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>7:12</u>
(F) Second Final Flow <u>32</u>	<input checked="" type="checkbox"/> Mileage <u>180 - 135</u>	Comments <u>out of town</u>
(G) Final Shut-In <u>1200</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2272</u>	<input type="checkbox"/> Straddle	
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1535</u>
Initial Open <u>30</u>	Sub Total <u>1535</u>	MP/DST Disc't _____
Initial Shut-In <u>30</u>		
Final Flow <u>30</u>		
Final Shut-In <u>30</u>		

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

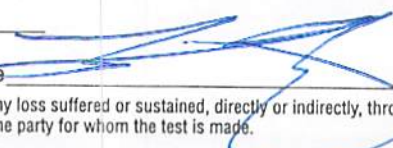
NO. **63811**

Well Name & No. Johnson 1-31 Test No. 4 Date 6-12-17
 Company V91 Energy Inc Elevation 3328 KB 3323 GL
 Address _____
 Co. Rep / Geo. Tim Priest Rig WW #2
 Location: Sec. 31 Twp. 7 Rge. 35 Co. Thomas State KS

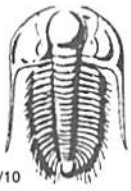
Interval Tested 4433 4480 Zone Tested Ld Pleasanton
 Anchor Length _____ Drill Pipe Run 4318 Mud Wt. 9.2
 Top Packer Depth _____ Drill Collars Run 120 Vis 53
 Bottom Packer Depth _____ Wt. Pipe Run _____ WL 12.8
 Total Depth _____ Chlorides 11,000 ppm System LCM 1
 Blow Description IF: surface blow built to 1/2.
#5: NO return.
FF: surface blow built to 1/2.
FS: NO return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>wcm</u>		<u>5</u>	<u>95</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 120 BHT 129 Gravity _____ API RW _____ @ _____ F Chlorides _____ ppm
 (A) Initial Hydrostatic 2315 Test 1150 T-On Location 16:20
 (B) First Initial Flow 24 Jars _____ T-Started 17:03
 (C) First Final Flow 50 Safety Joint _____ T-Open 18:58
 (D) Initial Shut-In 1321 Circ Sub NIC T-Pulled 20:58
 (E) Second Initial Flow 63 Hourly Standby _____ T-Out 22:53
 (F) Second Final Flow 79 Mileage 180 135 Comments out of town
 (G) Final Shut-In 1264 Sampler _____
 (H) Final Hydrostatic 2207 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1535
 Sub Total 1535 MP/DST Disc't _____

Approved By _____ Our Representative 

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63812**

Well Name & No. Johnson 1-31 Test No. 5 Date 6-13-17
 Company V91 Energy Inc Elevation 3328 KB 3323 GL
 Address _____
 Co. Rep / Geo. Tim Priest Rig WW #2
 Location: Sec. 31 Twp. 7 Rge. 35 Co. Thomas State KS

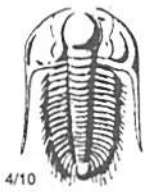
Interval Tested 4480 4560 Zone Tested Marmaton ABC
 Anchor Length 80 Drill Pipe Run 4350 Mud Wt. 9.0
 Top Packer Depth 4475 Drill Collars Run 120 Vis 61
 Bottom Packer Depth 4480 Wt. Pipe Run — WL 7.2
 Total Depth 4560 Chlorides 7500 ppm System LCM 2

Blow Description IF: BoB in 11 min.
FS: surface blow, built to 1 1/2.
FF: BoB in 12 min.
FS: BoB in 27 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>252</u>	<u>90</u>	<u>40</u>	<u>60</u>		
<u>189</u>	<u>90 CW</u>	<u>40</u>	<u>5</u>	<u>5</u>	<u>50</u>
<u>189</u>	<u>MCLW</u>			<u>60</u>	<u>40</u>
<u>126</u>	<u>MCW</u>			<u>90</u>	<u>10</u>
	<u>945 GFP</u>				

Rec Total 756 BHT 137 Gravity 38 API RW 1.19 @ 77 °F Chlorides 34,000 ppm
 (A) Initial Hydrostatic 2416 Test 1150 T-On Location 13:20
 (B) First Initial Flow 42 Jars _____ T-Started 14:01
 (C) First Final Flow 155 Safety Joint _____ T-Open 15:59
 (D) Initial Shut-In 1329 Circ Sub NIL T-Pulled 20:29
 (E) Second Initial Flow 168 Hourly Standby _____ T-Out 22:50
 (F) Second Final Flow 324 Mileage 180 - 135 Comments out of tower
 (G) Final Shut-In 1283 Sampler _____
 (H) Final Hydrostatic 2177 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Initial Open 30 Day Standby _____ Sub Total 0
 Initial Shut-In 80 Accessibility _____ Total 1535
 Final Flow 90 Sub Total 1535 MP/DST Disc't _____
 Final Shut-In 90

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63813**

Well Name & No. Johnson 1-31 Test No. 6 Date 6-14-17
 Company U&I Energy Inc Elevation 3328 KB 3323 GL
 Address _____
 Co. Rep / Geo. Tim Priest Rig WW #2
 Location: Sec. 31 Twp. 7 Rge. 35 Co. Thomas State KS

Interval Tested 4565 4600 Zone Tested Pgw nec
 Anchor Length _____ Drill Pipe Run 4445 Mud Wt. 9.0
 Top Packer Depth _____ Drill Collars Run 120 Vis 54
 Bottom Packer Depth _____ Wt. Pipe Run _____ WL 8.0
 Total Depth 4600 Chlorides 6500 ppm System LCM 2

Blow Description IF: Surface blow died in 7 min.
IS: No blow.
FF: No return.
FS: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>			<u>100</u>	

Rec Total 5 BHT 124 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2360 Test 1150 T-On Location 7:00
 (B) First Initial Flow 17 Jars _____ T-Started 7:47
 (C) First Final Flow 17 Safety Joint _____ T-Open 9:51
 (D) Initial Shut-In 32 Circ Sub NIL T-Pulled 11:51
 (E) Second Initial Flow 17 Hourly Standby _____ T-Out 13:53
 (F) Second Final Flow 18 Mileage 180 135 Comments out of town
 (G) Final Shut-In 19 Sampler _____
 (H) Final Hydrostatic 2205 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1535
 Sub Total 1535 MP/DST Disc't _____

Approved By _____ Our Representative _____
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63814**

Well Name & No. Johnson 1-31 Test No. 7 Date 6-15-17
 Company U91 Energy INC Elevation 3328 KB 3323 GL
 Address _____
 Co. Rep / Geo. Tim Priest Rig WW #2
 Location: Sec. 31 Twp. 7 Rge. 35 Co. Thom#6 State KS

Interval Tested 4665 4700 Zone Tested Cherokee Ls
 Anchor Length 35 Drill Pipe Run 4545 Mud Wt. 9.3
 Top Packer Depth 4660 Drill Collars Run 120 Vis 52
 Bottom Packer Depth 4665 Wt. Pipe Run _____ WL 8.8
 Total Depth 4700 Chlorides 9000 ppm System LCM 1

Blow Description IF: Surface blow died in 8 min.
IS: No return,
FF: No blow,
FS: No return,

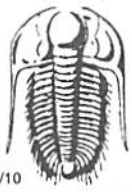
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 127 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2441 Test 1150 T-On Location 6:00
 (B) First Initial Flow 16 Jars _____ T-Started 6:52
 (C) First Final Flow 16 Safety Joint _____ T-Open 8:53
 (D) Initial Shut-In 28 Circ Sub NIL T-Pulled 10:53
 (E) Second Initial Flow 15 Hourly Standby _____ T-Out 12:46
 (F) Second Final Flow 16 Mileage 180 - 135 Comments out of town
 (G) Final Shut-In 18 Sampler _____
 (H) Final Hydrostatic 2347 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Initial Open 30 Day Standby _____ Sub Total 0
 Initial Shut-In 30 Accessibility _____ Total 1535
 Final Flow 30 Sub Total 1535 MP/DST Disc't _____
 Final Shut-In 30

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63815**

Well Name & No. Johnson 1-31 Test No. 8 Date 6-15-17
 Company Upl Energy Inc Elevation 3328 KB 3323 GL
 Address _____
 Co. Rep / Geo. Tim Priest Rig WW #2
 Location: Sec. 31 Twp. 7 Rge. 35 Co. THOMAS State K5

Interval Tested 4690 4725 Zone Tested Johnson
 Anchor Length _____ Drill Pipe Run 4571 Mud Wt. 9.3
 Top Packer Depth 4685 Drill Collars Run 120 Vis 52
 Bottom Packer Depth 4690 Wt. Pipe Run _____ WL 8.8
 Total Depth 4725 Chlorides 7000 ppm System LCM 1

Blow Description IF: BoB in 2 min.
IS: No return,
FF: BoB in 3 min.
FS: No return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>315</u>	<u>mcw oil spots</u>		<u>70</u>	<u>30</u>	
<u>2142</u>	<u>water</u>			<u>100</u>	
____	____				
____	____				
____	____				

Rec Total 2457 BHT 140 Gravity _____ API RW 125 @ 69 °F Chlorides 28000 ppm

(A) Initial Hydrostatic <u>2475</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>20:50</u>
(B) First Initial Flow <u>162</u>	<input type="checkbox"/> Jars _____	T-Started <u>20:58</u>
(C) First Final Flow <u>734</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>22:43</u>
(D) Initial Shut-In <u>1468</u>	<input checked="" type="checkbox"/> Circ Sub _____	T-Pulled <u>1:43</u>
(E) Second Initial Flow <u>765</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>4:46</u>
(F) Second Final Flow <u>1185</u>	<input checked="" type="checkbox"/> Mileage <u>135</u>	Comments _____
(G) Final Shut-In <u>1472</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2395</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> Ruined Shale Packer <u>350</u>
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>350</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1885</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1535</u>	

Approved By _____ Our Representative

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