



## DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc.**

125 N. Market St STE 1110  
Wichita, KS 67202

ATTN: Tim Priest

### **Wilson #1-3**

### **3-8s-36w Thomas,KS**

Start Date: 2017.10.17 @ 02:53:00

End Date: 2017.10.17 @ 08:32:15

Job Ticket #: 633313                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.10.23 @ 11:56:47



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Val Energy Inc.  
 125 N. Market St STE 1110  
 Wichita, KS 67202  
 ATTN: Tim Priest

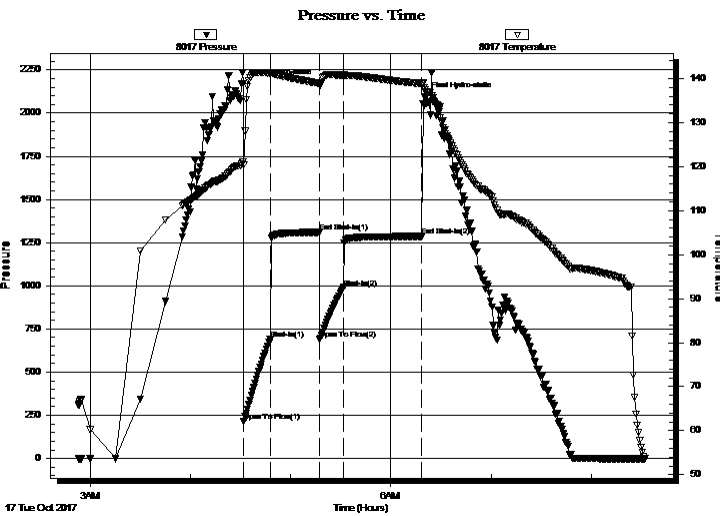
**3-8s-36w Thomas,KS**  
**Wilson #1-3**  
 Job Ticket: 633313 **DST#: 1**  
 Test Start: 2017.10.17 @ 02:53:00

## GENERAL INFORMATION:

Formation: **Lans. "I - J"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:32:00  
 Time Test Ended: 08:32:15  
 Interval: **4335.00 ft (KB) To 4368.00 ft (KB) (TVD)**  
 Total Depth: 4368.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: James Winder  
 Unit No: 76  
 Reference Elevations: 3335.00 ft (KB)  
 3330.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8017 Outside**  
 Press@RunDepth: 990.13 psig @ 4336.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.10.17 End Date: 2017.10.17 Last Calib.: 2017.10.17  
 Start Time: 02:53:05 End Time: 08:32:14 Time On Btm: 2017.10.17 @ 04:31:45  
 Time Off Btm: 2017.10.17 @ 06:20:15

**TEST COMMENT:** 15 - IF: Blow built to BOB (11") at 1 1/4 min.  
 30 - IS: Weak surface blow back from 8 min. on  
 15 - FF: Blow built to BOB at 1 1/2 min.  
 45 - FS: No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2172.66	121.11	Initial Hydro-static
1	214.24	120.47	Open To Flow (1)
16	689.21	141.21	Shut-In(1)
46	1309.80	138.93	End Shut-In(1)
46	690.70	138.58	Open To Flow (2)
60	990.13	140.68	Shut-In(2)
107	1286.66	138.84	End Shut-In(2)
109	2094.57	137.51	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1750.00	Water 98%w , 2%m	23.46
315.00	MCW 67%w , 33%m	4.42

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Val Energy Inc.

**3-8s-36w Thomas,KS**

125 N. Market St STE 1110  
Wichita, KS 67202

**Wilson #1-3**

Job Ticket: 633313

**DST#: 1**

ATTN: Tim Priest

Test Start: 2017.10.17 @ 02:53:00

## Tool Information

Drill Pipe:	Length: 4203.00 ft	Diameter: 3.80 inches	Volume: 58.96 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	72000.00 lb
			<u>Total Volume: 59.55 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4335.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	33.00 ft				
Tool Length:	54.00 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			4315.00	
Shut In Tool	5.00			4320.00	
Hydraulic tool	5.00			4325.00	
Packer	5.00			4330.00	21.00 Bottom Of Top Packer
Packer	5.00			4335.00	
Packer - Shale	0.00			4335.00	
Stubb	1.00			4336.00	
Recorder	0.00	6625	Inside	4336.00	
Recorder	0.00	8017	Outside	4336.00	
Perforations	29.00			4365.00	
Bullnose	3.00			4368.00	33.00 Bottom Packers & Anchor

**Total Tool Length: 54.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Val Energy Inc.

**3-8s-36w Thomas,KS**

125 N. Market St STE 1110  
Wichita, KS 67202

**Wilson #1-3**

Job Ticket: 633313

**DST#: 1**

ATTN: Tim Priest

Test Start: 2017.10.17 @ 02:53:00

## 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: 125000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1750.00	Water 98%w , 2%m	23.464
315.00	MCW 67%w , 33%m	4.419

Total Length: 2065.00 ft      Total Volume: 27.883 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

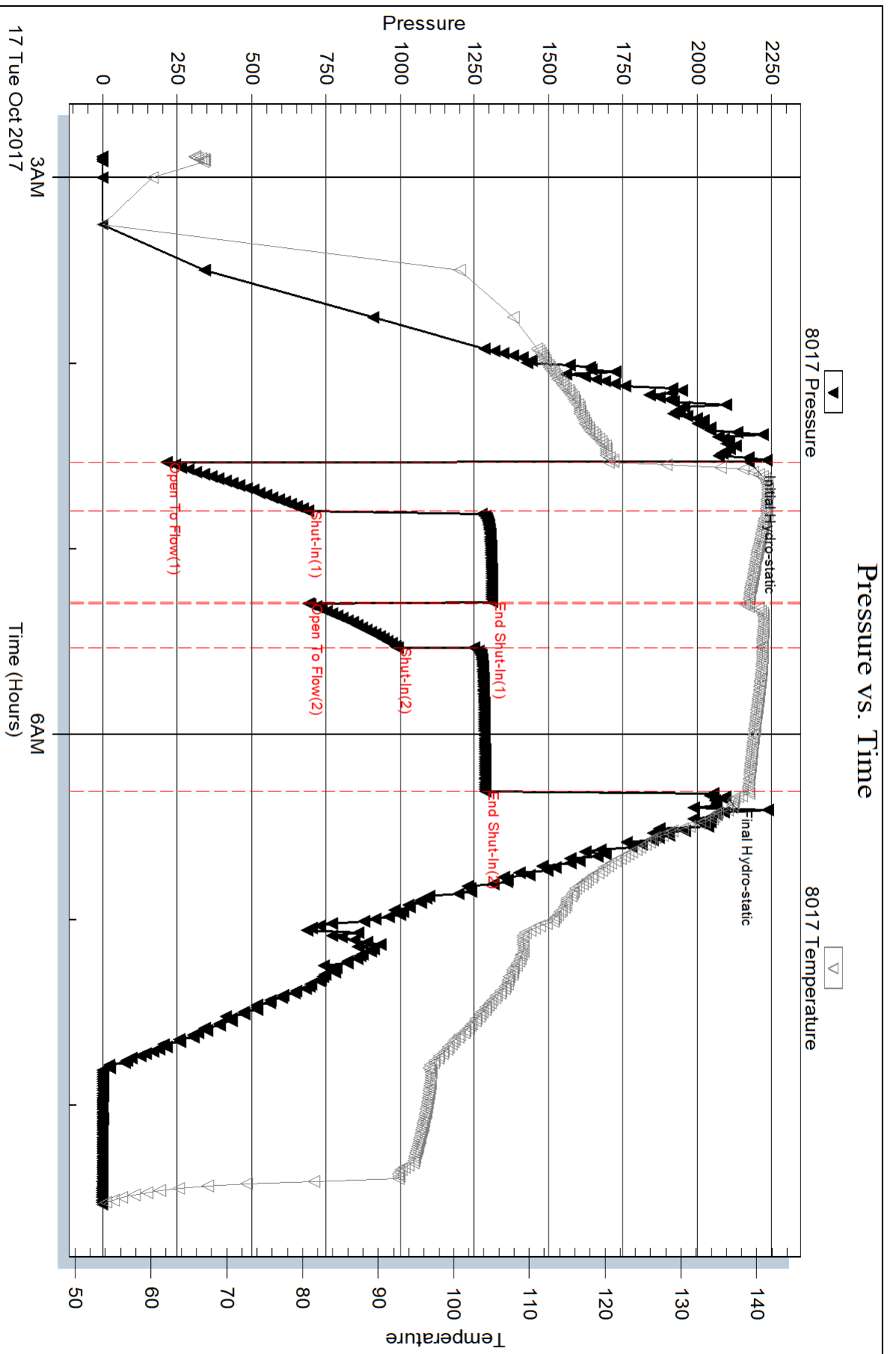
Serial #:

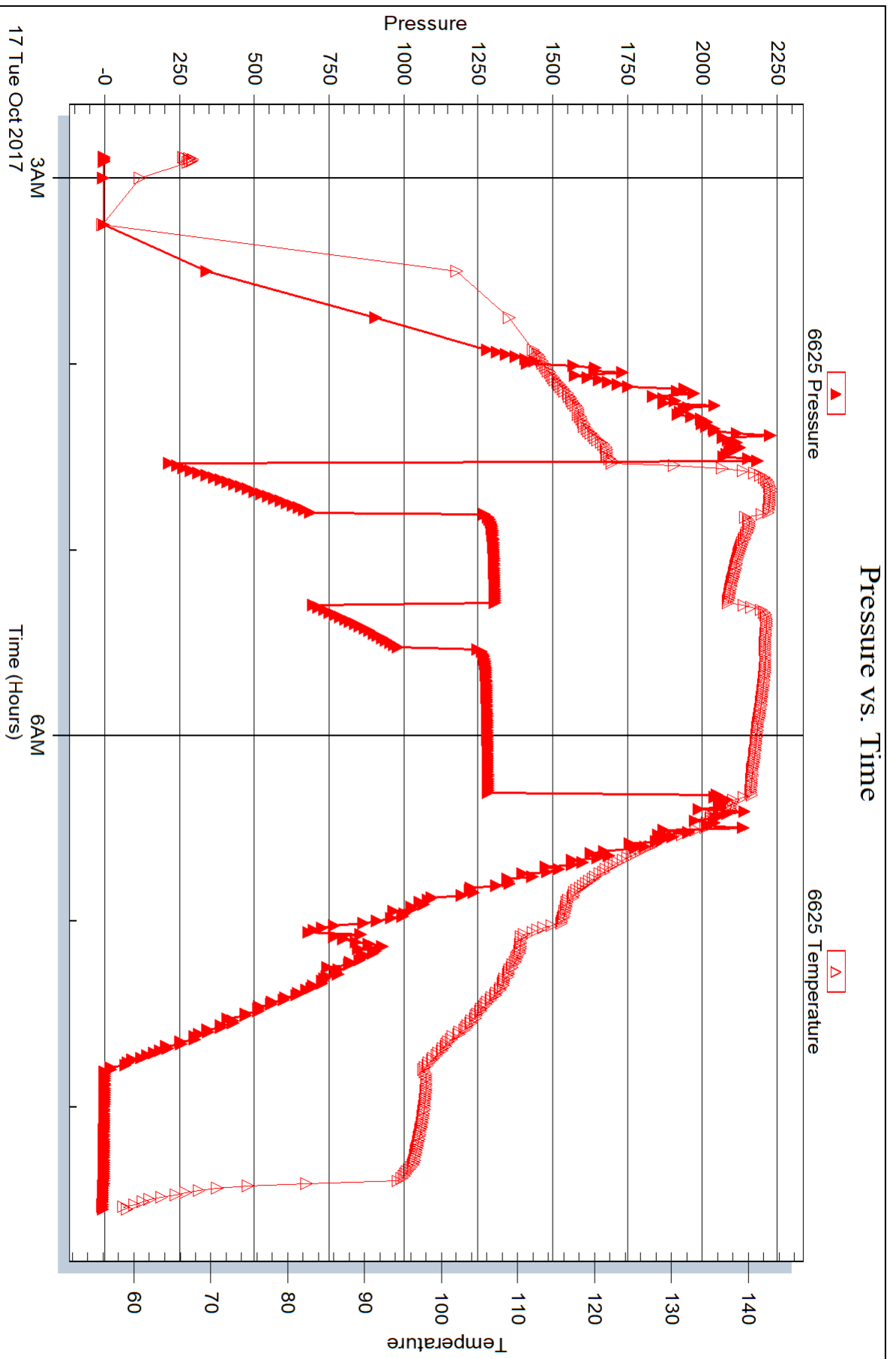
Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .136 ohms @ 36.5 deg F

Chlorides = 125,000 ppm







## DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc.**

125 N. Market St STE 1110  
Wichita, KS 67202

ATTN: Tim Priest

### **Wilson #1-3**

### **3-8s-36w Thomas,KS**

Start Date: 2017.10.18 @ 06:22:00

End Date: 2017.10.18 @ 12:33:00

Job Ticket #: 63314                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.10.23 @ 11:56:20









**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Val Energy Inc.

**3-8s-36w Thomas,KS**

125 N. Market St STE 1110  
Wichita, KS 67202

**Wilson #1-3**

Job Ticket: 63314

**DST#: 2**

ATTN: Tim Priest

Test Start: 2017.10.18 @ 06:22:00

## Tool Information

Drill Pipe:	Length: 4392.00 ft	Diameter: 3.80 inches	Volume: 61.61 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 62.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4517.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	64.00 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			4497.00	
Shut In Tool	5.00			4502.00	
Hydraulic tool	5.00			4507.00	
Packer	5.00			4512.00	21.00 Bottom Of Top Packer
Packer	5.00			4517.00	
Packer - Shale	0.00			4517.00	
Stubb	1.00			4518.00	
Recorder	0.00	6625	Inside	4518.00	
Recorder	0.00	8017	Outside	4518.00	
Perforations	39.00			4557.00	
Bullnose	3.00			4560.00	43.00 Bottom Packers & Anchor

**Total Tool Length: 64.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Val Energy Inc.

**3-8s-36w Thomas,KS**

125 N. Market St STE 1110  
Wichita, KS 67202

**Wilson #1-3**

Job Ticket: 63314

**DST#: 2**

ATTN: Tim Priest

Test Start: 2017.10.18 @ 06:22:00

## 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:

35000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.56 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	MCW 87%w , 13%m	0.295
0.00	Trace of oil in tool	0.000

Total Length: 60.00 ft      Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

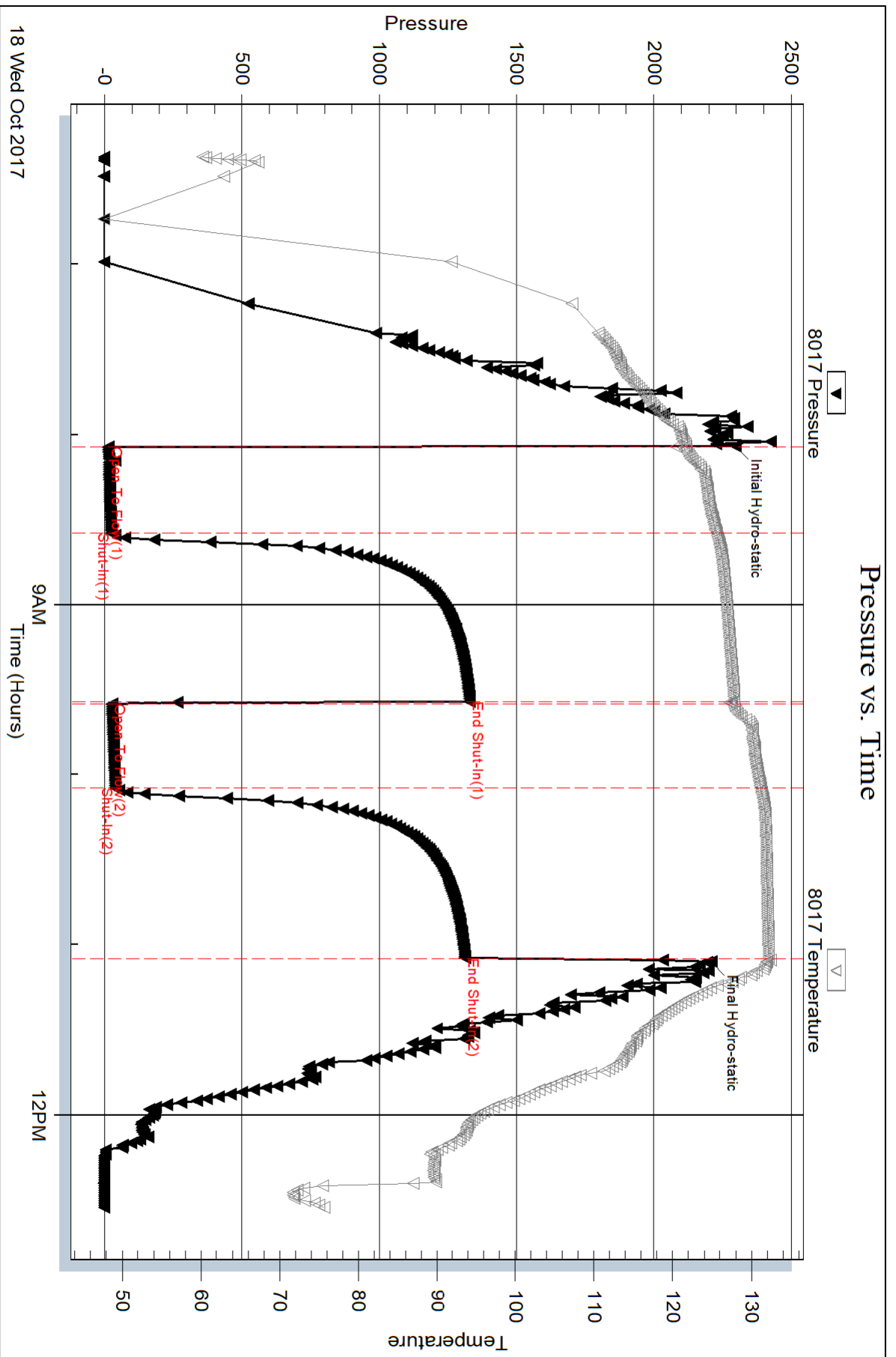
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .192 ohms @ 72.9 deg F

Chlorides = 35,000 ppm



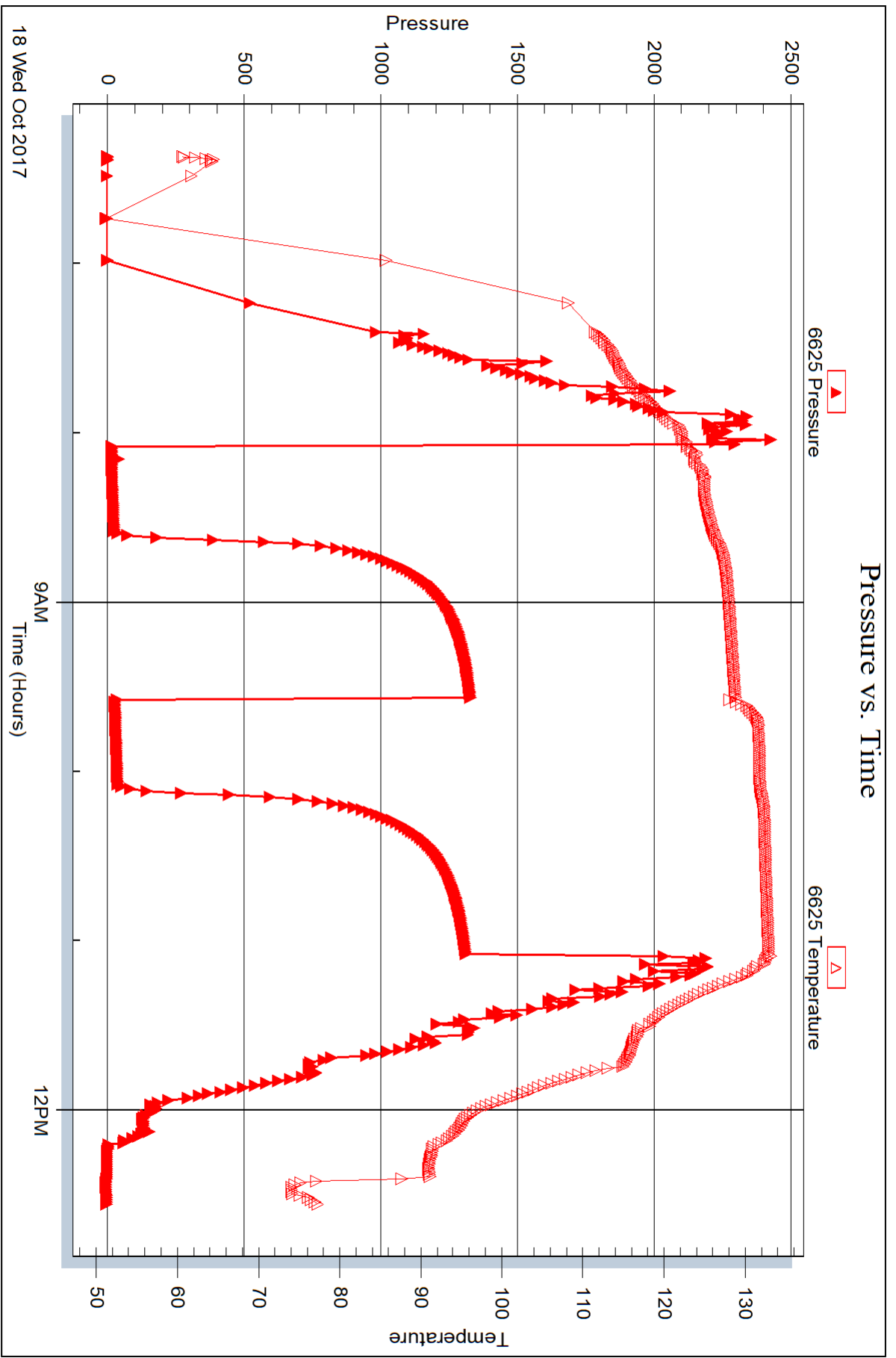
Serial #: 6625

Inside

Val Energy Inc.

Wilson #1-3

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 63314

Printed: 2017.10.23 @ 11:56:21



## DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc.**

125 N. Market St STE 1110  
Wichita, KS 67202

ATTN: Tim Priest

### **Wilson #1-3**

### **3-8s-36w Thomas,KS**

Start Date: 2017.10.18 @ 20:00:00

End Date: 2017.10.19 @ 05:44:15

Job Ticket #: 63315                      DST #: 3

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

Printed: 2017.10.23 @ 11:55:54









**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Val Energy Inc.

**3-8s-36w Thomas,KS**

125 N. Market St STE 1110  
Wichita, KS 67202

**Wilson #1-3**

Job Ticket: 63315

**DST#: 3**

ATTN: Tim Priest

Test Start: 2017.10.18 @ 20:00:00

## Tool Information

Drill Pipe:	Length: 4455.00 ft	Diameter: 3.80 inches	Volume: 62.49 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 63.08 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4566.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			4546.00	
Shut In Tool	5.00			4551.00	
Hydraulic tool	5.00			4556.00	
Packer	5.00			4561.00	21.00 Bottom Of Top Packer
Packer	5.00			4566.00	
Packer - Shale	0.00			4566.00	
Stubb	1.00			4567.00	
Recorder	0.00	6625	Inside	4567.00	
Recorder	0.00	8017	Outside	4567.00	
Perforations	20.00			4587.00	
Bullnose	3.00			4590.00	24.00 Bottom Packers & Anchor

**Total Tool Length: 45.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Val Energy Inc.

**3-8s-36w Thomas,KS**

125 N. Market St STE 1110  
Wichita, KS 67202

**Wilson #1-3**

Job Ticket: 63315

**DST#: 3**

ATTN: Tim Priest

Test Start: 2017.10.18 @ 20:00:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39.4 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
119.00	SW/GMO 35%o, 31%m, 29%g, 5%w	0.585
63.00	SW/GOCM 47%m, 39%o, 12%g, 2%w	0.884
2008.00	REV OUT CO 94%o, 3%g, 3%m	28.167
60.00	CGO 83%o, 12%g, 5%m	0.842
0.00	GIP = 1700'	0.000

Total Length: 2250.00 ft      Total Volume: 30.478 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

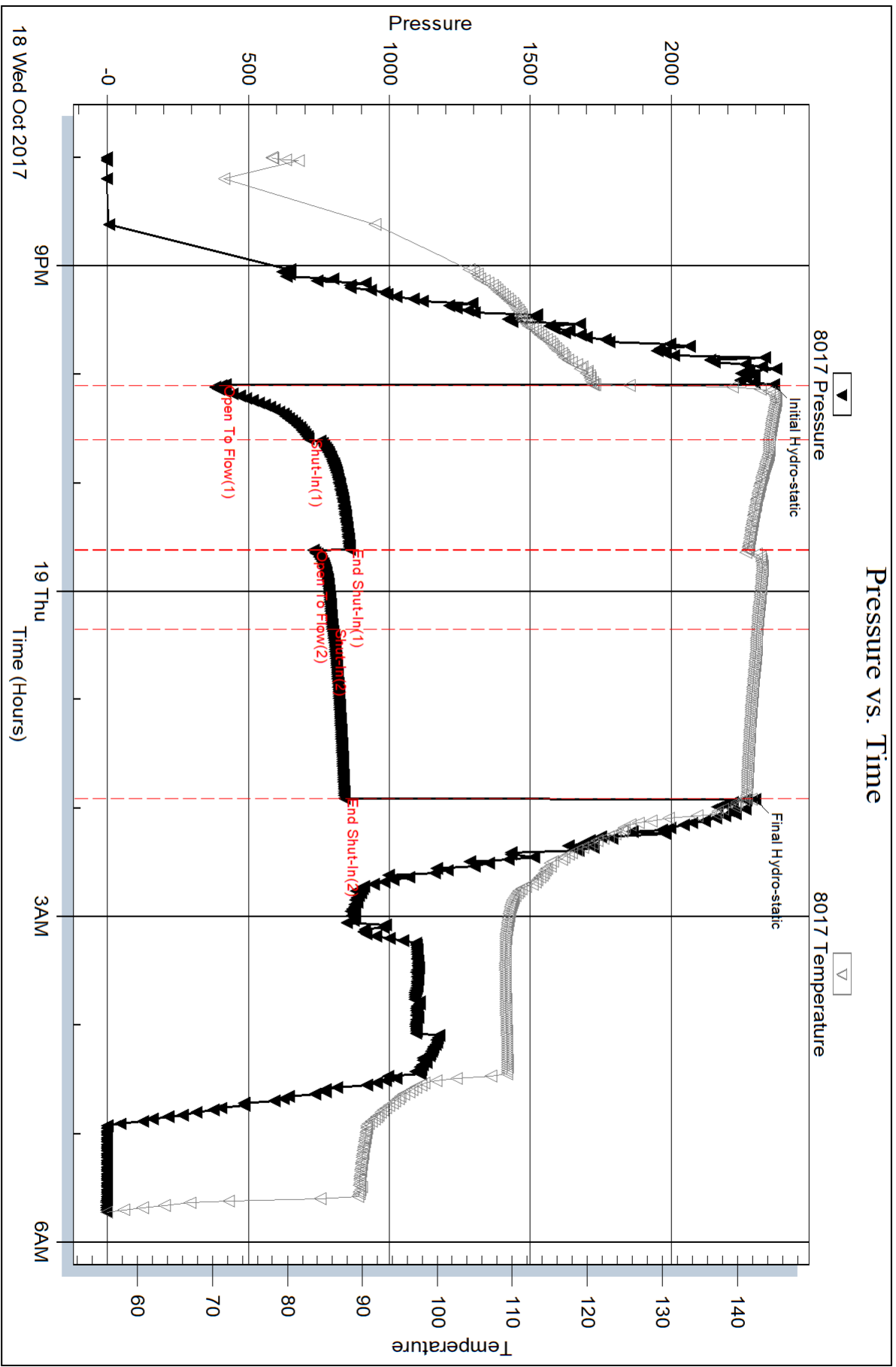
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 37.4 api @ 40 deg F

Corrected Gravity = 39.4 api



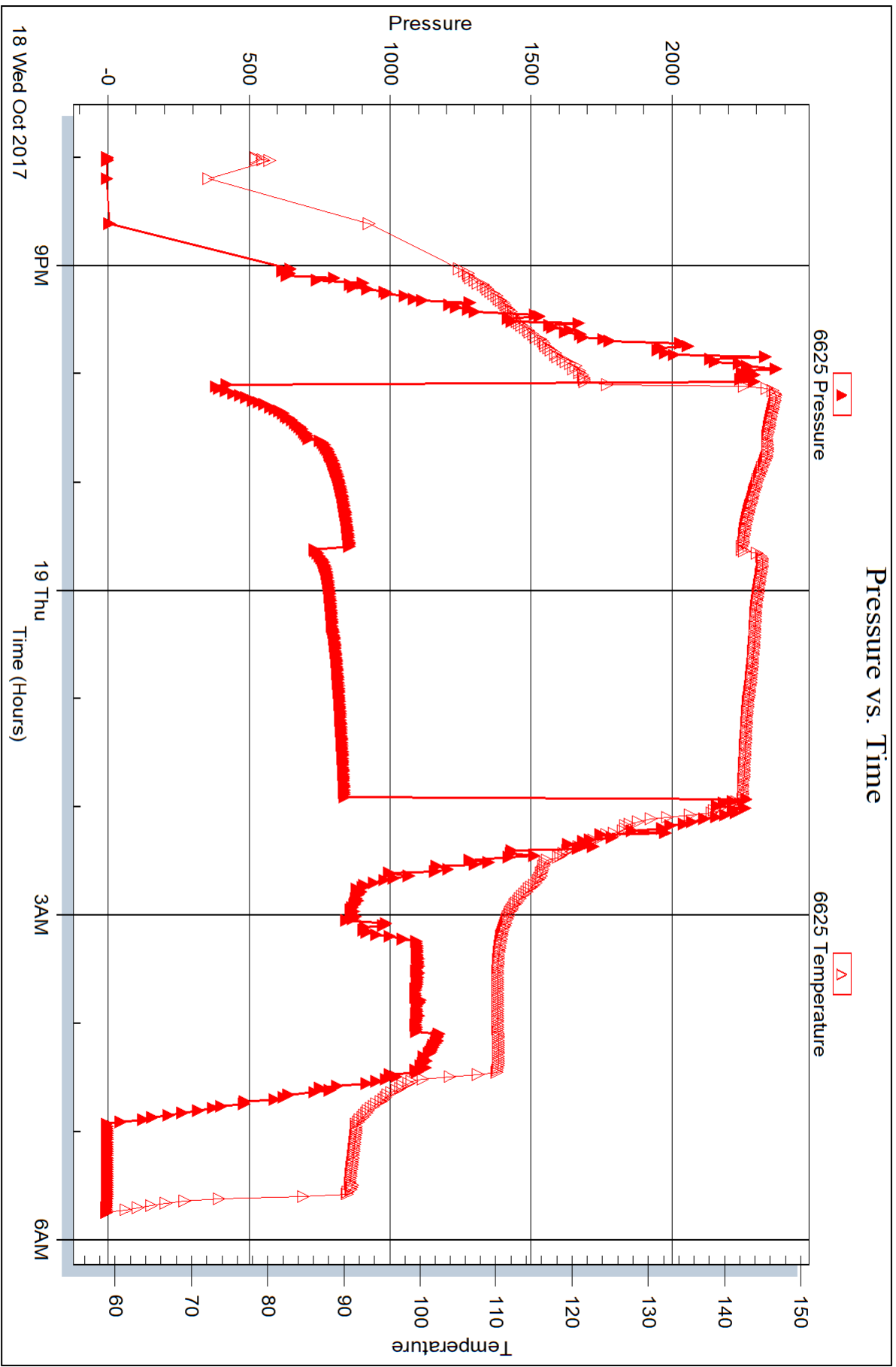
Serial #: 6625

Inside

Val Energy Inc.

Wilson #1-3

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc.**

125 N. Market St STE 1110  
Wichita, KS 67202

ATTN: Tim Priest

**Wilson #1-3**

**3-8s-36w Thomas,KS**

Start Date: 2017.10.19 @ 15:04:00

End Date: 2017.10.20 @ 00:19:45

Job Ticket #: 63316                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.10.23 @ 11:55:24



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Val Energy Inc.  
 125 N. Market St STE 1110  
 Wichita, KS 67202  
 ATTN: Tim Priest

**3-8s-36w Thomas,KS**  
**Wilson #1-3**  
 Job Ticket: 63316 **DST#: 4**  
 Test Start: 2017.10.19 @ 15:04:00

## GENERAL INFORMATION:

Formation: **Myric Station/ Ft. S**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:54:15  
 Time Test Ended: 00:19:45  
 Interval: **4694.00 ft (KB) To 4640.00 ft (KB) (TVD)**  
 Total Depth: 4640.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: James Winder  
 Unit No: 76  
 Reference Elevations: 3335.00 ft (KB)  
 3330.00 ft (CF)  
 KB to GR/CF: 5.00 ft

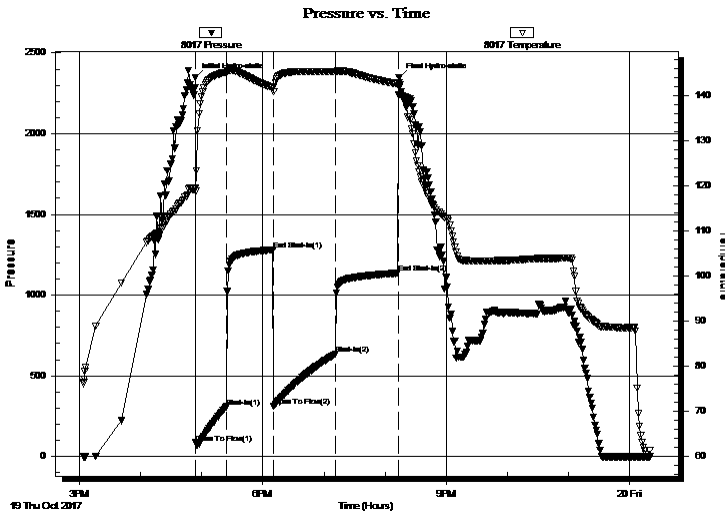
## Serial #: 8017

Outside

Press@RunDepth: 634.00 psig @ 4595.00 ft (KB)  
 Start Date: 2017.10.19 End Date: 2017.10.20  
 Start Time: 15:04:05 End Time: 00:19:45  
 Capacity: 8000.00 psig  
 Last Calib.: 2017.10.20  
 Time On Btm: 2017.10.19 @ 16:54:00  
 Time Off Btm: 2017.10.19 @ 20:13:45

TEST COMMENT: 30 - IF: Blow built to BOB (11") at 1 min.  
 45 - IS: Blow back built to BOB at 15 min.  
 60 - FF: Blow built to BOB at 3 1/2 min.  
 60 - FS: Blow back built to BOB at 9 min.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2348.70	119.56	Initial Hydro-static
1	84.18	118.84	Open To Flow (1)
31	308.73	145.26	Shut-In(1)
76	1280.61	141.81	End Shut-In(1)
77	312.17	140.94	Open To Flow (2)
138	634.00	145.36	Shut-In(2)
199	1136.34	142.68	End Shut-In(2)
200	2346.53	142.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
119.00	GWMCO 47%o, 23%m, 16%g, 14%w	0.59
63.00	SW/GMCO 48%o, 36%g, 14%m, 2%w	0.88
1603.00	REV OUT CGO 89%o, 9%g, 2%m	22.49
0.00	GIP = 2350'	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.

**3-8s-36w Thomas,KS**

125 N. Market St STE 1110  
Wichita, KS 67202

**Wilson #1-3**

Job Ticket: 63316

**DST#: 4**

ATTN: Tim Priest

Test Start: 2017.10.19 @ 15:04:00

## Tool Information

Drill Pipe:	Length: 4487.00 ft	Diameter: 3.80 inches	Volume: 62.94 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 63.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4594.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	67.00 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			4574.00	
Shut In Tool	5.00			4579.00	
Hydraulic tool	5.00			4584.00	
Packer	5.00			4589.00	21.00 Bottom Of Top Packer
Packer	5.00			4594.00	
Packer - Shale	0.00			4594.00	
Stubb	1.00			4595.00	
Recorder	0.00	6625	Inside	4595.00	
Recorder	0.00	8017	Outside	4595.00	
Perforations	9.00			4604.00	
Blank Spacing	33.00			4637.00	
Bullnose	3.00			4640.00	46.00 Bottom Packers & Anchor

**Total Tool Length: 67.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Val Energy Inc.

**3-8s-36w Thomas,KS**

125 N. Market St STE 1110  
Wichita, KS 67202

**Wilson #1-3**

Job Ticket: 63316

**DST#: 4**

ATTN: Tim Priest

Test Start: 2017.10.19 @ 15:04:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.36 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
119.00	GWMCO 47%o, 23%m, 16%g, 14%w	0.585
63.00	SW/GMCO 48%o, 36%g, 14%m, 2%w	0.884
1603.00	REV OUT CGO 89%o, 9%g, 2%m	22.486
0.00	GIP = 2350'	0.000

Total Length: 1785.00 ft      Total Volume: 23.955 bbl

Num Fluid Samples: 0

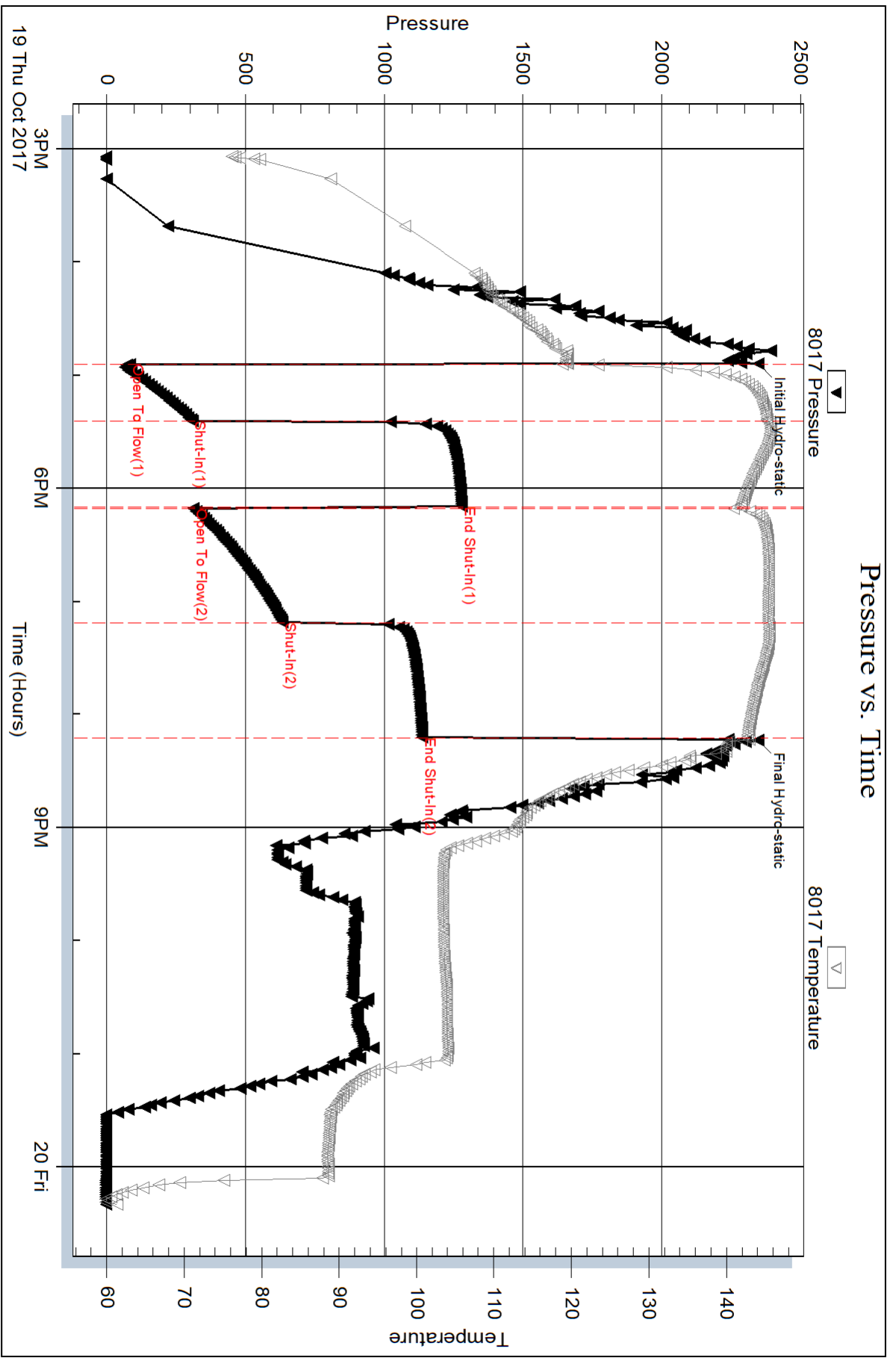
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 38.8 api @ 60 deg F



### Pressure vs. Time

8017 Pressure

8017 Temperature

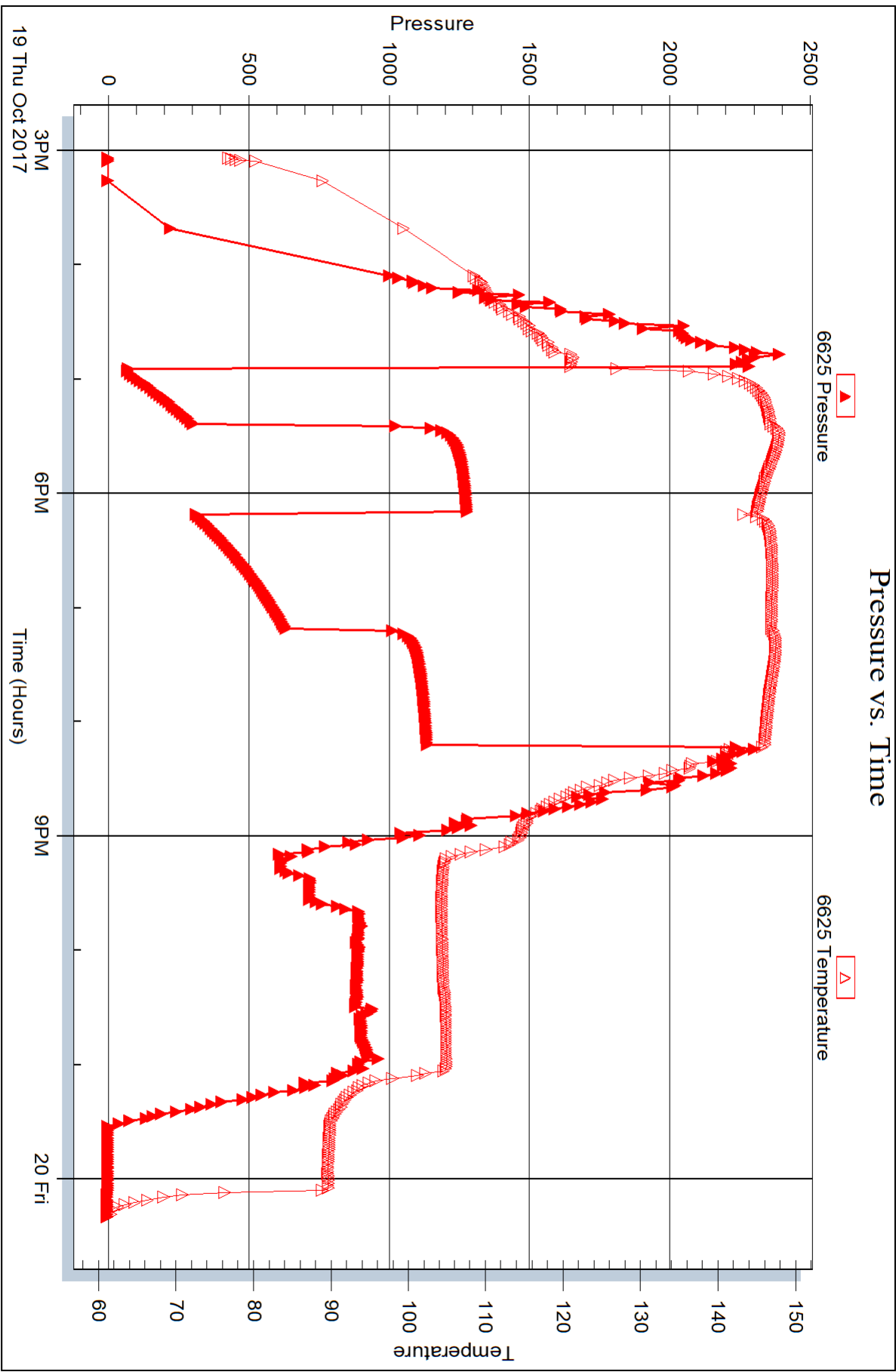
Serial #: 6625

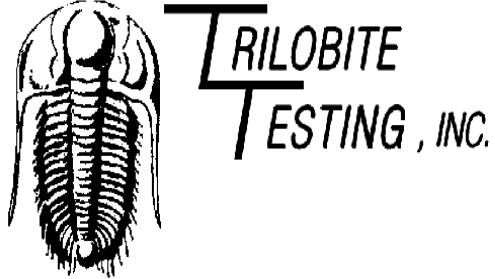
Inside

Val Energy Inc.

Wilson #1-3

DST Test Number: 4





## DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc.**

125 N. Market St STE 1110  
Wichita, KS 67202

ATTN: Tim Priest

### **Wilson #1-3**

### **3-8s-36w Thomas,KS**

Start Date: 2017.10.20 @ 07:31:00

End Date: 2017.10.20 @ 14:35:15

Job Ticket #: 63317                      DST #: 5

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

Printed: 2017.10.23 @ 11:54:38



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Val Energy Inc.  
 125 N. Market St STE 1110  
 Wichita, KS 67202  
 ATTN: Tim Priest

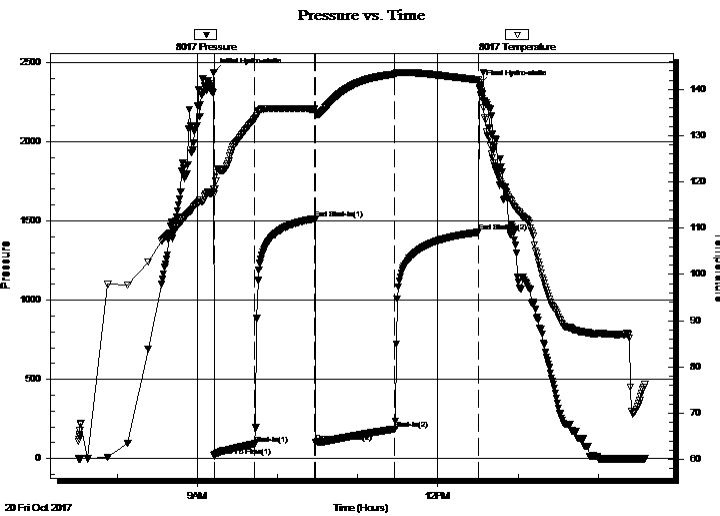
**3-8s-36w Thomas,KS**  
**Wilson #1-3**  
 Job Ticket: 63317 **DST#: 5**  
 Test Start: 2017.10.20 @ 07:31:00

## GENERAL INFORMATION:

Formation: **Cherokee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:12:30  
 Time Test Ended: 14:35:15  
 Interval: **4641.00 ft (KB) To 4665.00 ft (KB) (TVD)**  
 Total Depth: 4665.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: James Winder  
 Unit No: 76  
 Reference Elevations: 3335.00 ft (KB)  
 3330.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8017 Outside**  
 Press@RunDepth: 186.59 psig @ 4642.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.10.20 End Date: 2017.10.20 Last Calib.: 2017.10.20  
 Start Time: 07:31:05 End Time: 14:35:14 Time On Btm: 2017.10.20 @ 09:12:15  
 Time Off Btm: 2017.10.20 @ 12:31:15

**TEST COMMENT:** 30 - IF: Blow built to BOB (11") at 14 min.  
 45 - IS: Blow back built to 2"  
 60 - FF: Blow built to BOB at 24 min.  
 60 - FS: Blow back built to 4"



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2437.91	118.41	Initial Hydro-static
1	17.20	117.38	Open To Flow (1)
31	92.33	133.56	Shut-In(1)
76	1514.60	135.71	End Shut-In(1)
77	101.07	134.84	Open To Flow (2)
136	186.59	143.28	Shut-In(2)
198	1428.90	142.03	End Shut-In(2)
199	2360.79	140.04	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
140.00	SW/GMCO 69%o, 16%m, 12%g, 3%w	0.88
350.00	CGO 77%o, 23%g	4.91
0.00	GIP = 250'	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.

**3-8s-36w Thomas,KS**

125 N. Market St STE 1110  
Wichita, KS 67202

**Wilson #1-3**

Job Ticket: 63317

**DST#: 5**

ATTN: Tim Priest

Test Start: 2017.10.20 @ 07:31:00

## Tool Information

Drill Pipe:	Length: 4518.00 ft	Diameter: 3.80 inches	Volume: 63.38 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 63.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4641.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	45.00 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			4621.00	
Shut In Tool	5.00			4626.00	
Hydraulic tool	5.00			4631.00	
Packer	5.00			4636.00	21.00 Bottom Of Top Packer
Packer	5.00			4641.00	
Packer - Shale	0.00			4641.00	
Stubb	1.00			4642.00	
Recorder	0.00	6625	Inside	4642.00	
Recorder	0.00	8017	Outside	4642.00	
Perforations	20.00			4662.00	
Bullnose	3.00			4665.00	24.00 Bottom Packers & Anchor

**Total Tool Length: 45.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Val Energy Inc.

**3-8s-36w Thomas,KS**

125 N. Market St STE 1110  
Wichita, KS 67202

**Wilson #1-3**

Job Ticket: 63317

**DST#: 5**

ATTN: Tim Priest

Test Start: 2017.10.20 @ 07:31:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

24.4 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
140.00	SW/GMCO 69%o, 16%m, 12%g, 3%w	0.880
350.00	CGO 77%o, 23%g	4.910
0.00	GIP = 250'	0.000

Total Length: 490.00 ft      Total Volume: 5.790 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

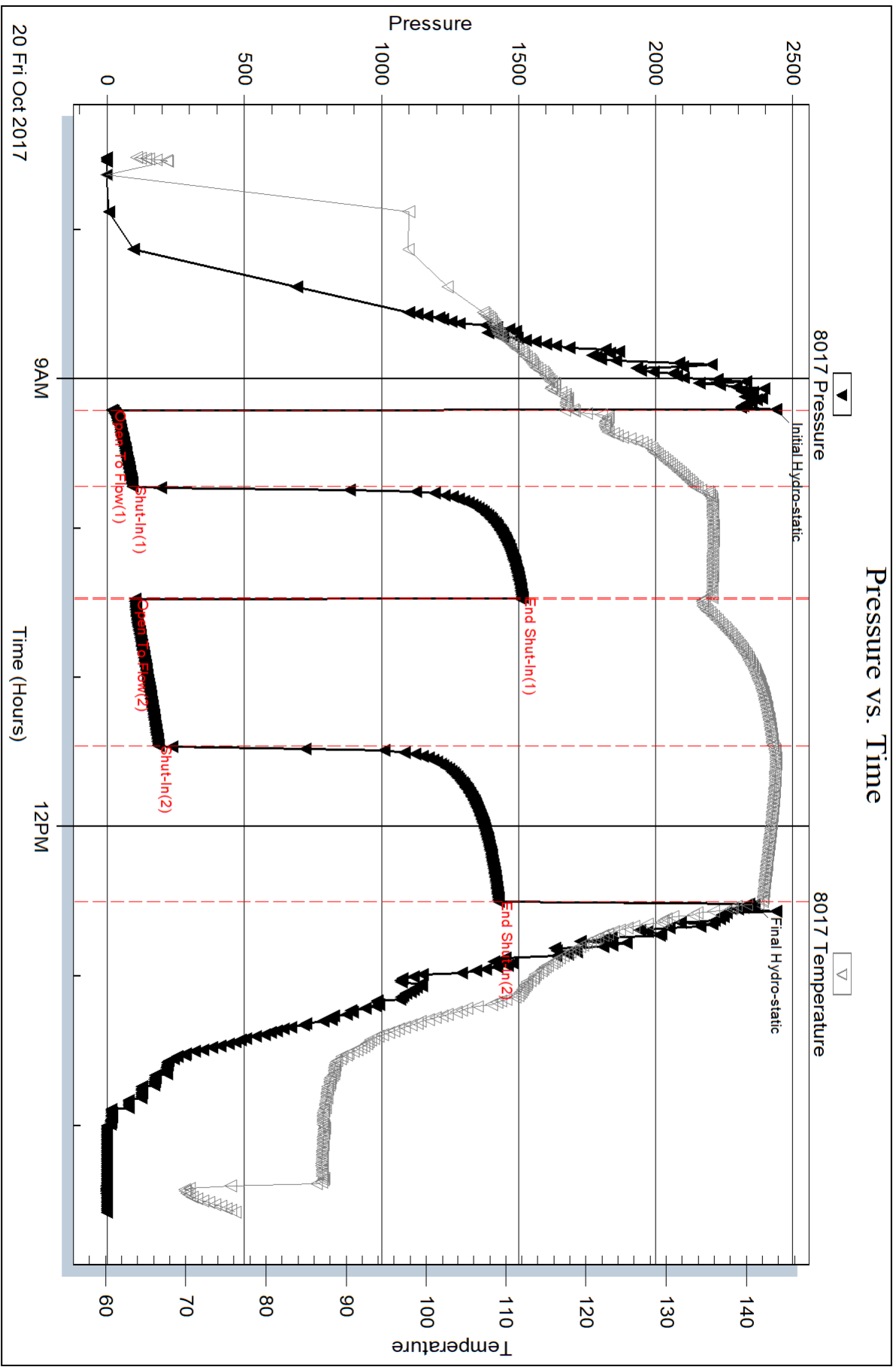
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 27 api @ 86 deg F

Corrected Gravity = 24.4 api



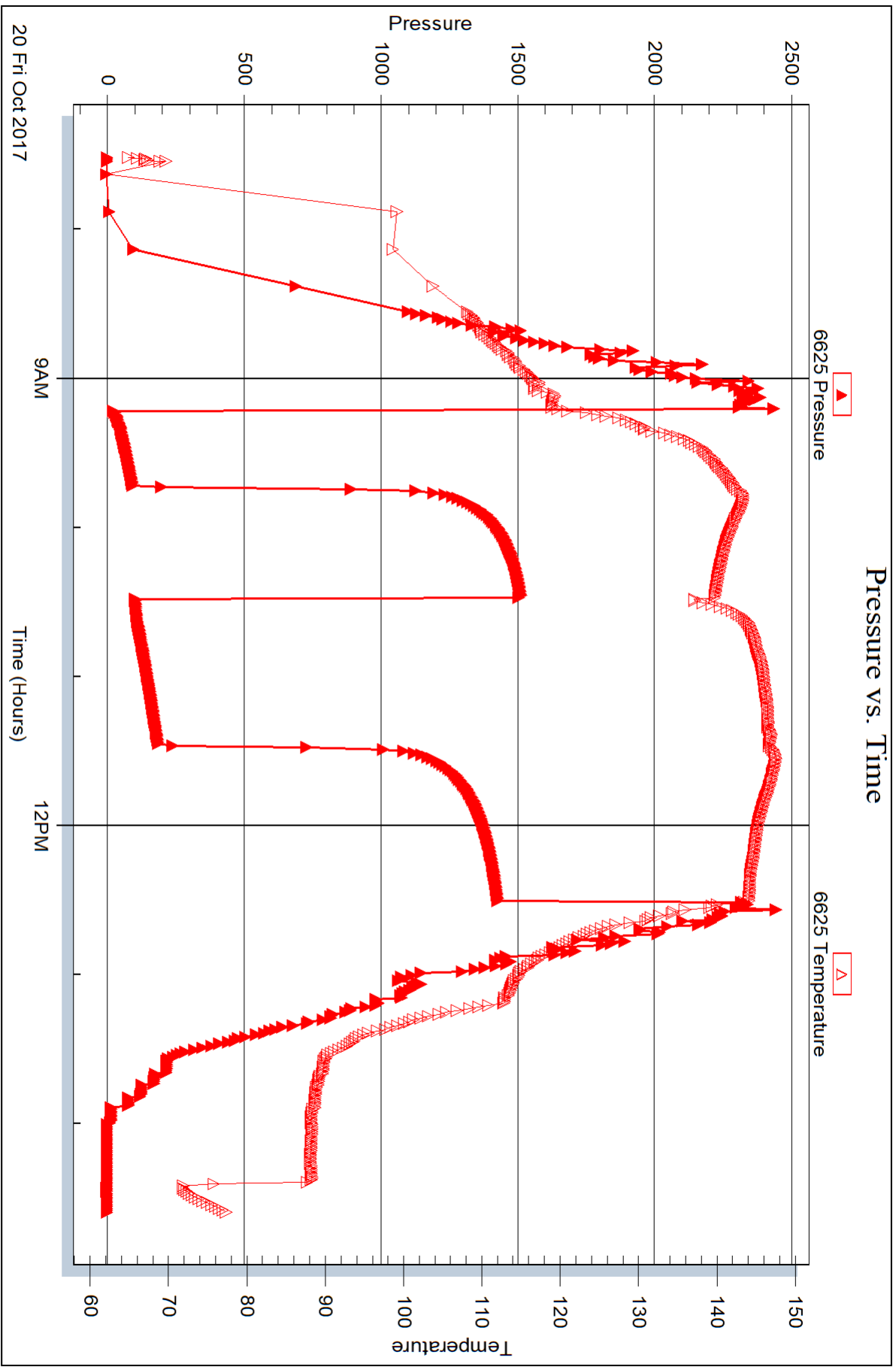
Serial #: 6625

Inside

Val Energy Inc.

Wilson #1-3

DST Test Number: 5





## DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc.**

125 N. Market St STE 1110  
Wichita, KS 67202

ATTN: Tim Priest

### **Wilson #1-3**

### **3-8s-36w Thomas,KS**

Start Date: 2017.10.20 @ 22:53:00

End Date: 2017.10.21 @ 07:01:00

Job Ticket #: 63318                      DST #: 6

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

Printed: 2017.10.23 @ 11:52:54



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Val Energy Inc.  
 125 N. Market St STE 1110  
 Wichita, KS 67202  
 ATTN: Tim Priest

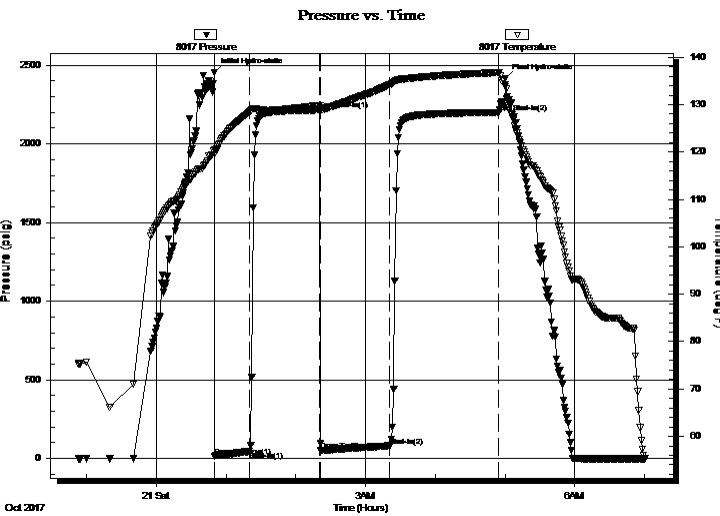
**3-8s-36w Thomas,KS**  
**Wilson #1-3**  
 Job Ticket: 63318 **DST#: 6**  
 Test Start: 2017.10.20 @ 22:53:00

## GENERAL INFORMATION:

Formation: **Cherokee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:50:15  
 Time Test Ended: 07:01:00  
 Interval: **4664.00 ft (KB) To 4685.00 ft (KB) (TVD)**  
 Total Depth: 4685.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: James Winder  
 Unit No: 76  
 Reference Elevations: 3335.00 ft (KB)  
 3330.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8017 Outside**  
 Press@RunDepth: 80.81 psig @ 4665.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.10.20 End Date: 2017.10.21 Last Calib.: 2017.10.21  
 Start Time: 22:53:05 End Time: 07:00:59 Time On Btm: 2017.10.21 @ 00:50:00  
 Time Off Btm: 2017.10.21 @ 05:00:30

**TEST COMMENT:** 30 - IF: Blow built to 5 1/2"  
 60 - IS: Blow back built to 1/4"  
 60 - FF: Blow built to 8"  
 90 - FS: Weak surface blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2454.62	120.49	Initial Hydro-static
1	15.88	119.72	Open To Flow (1)
31	44.46	128.49	Shut-In(1)
91	2215.74	129.83	End Shut-In(1)
92	50.78	129.11	Open To Flow (2)
151	80.81	134.17	Shut-In(2)
245	2200.74	136.76	End Shut-In(2)
251	2414.73	133.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
55.00	OCM 85% m, 10% o, 5% g	0.27
132.00	GSMCO 83% o, 12% g, 5% m	1.27

\* 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 Priest

**3-8s-36w Thomas,KS**  
**Wilson #1-3**  
Job Ticket: 63318      **DST#: 6**  
Test Start: 2017.10.20 @ 22:53:00

## GENERAL INFORMATION:

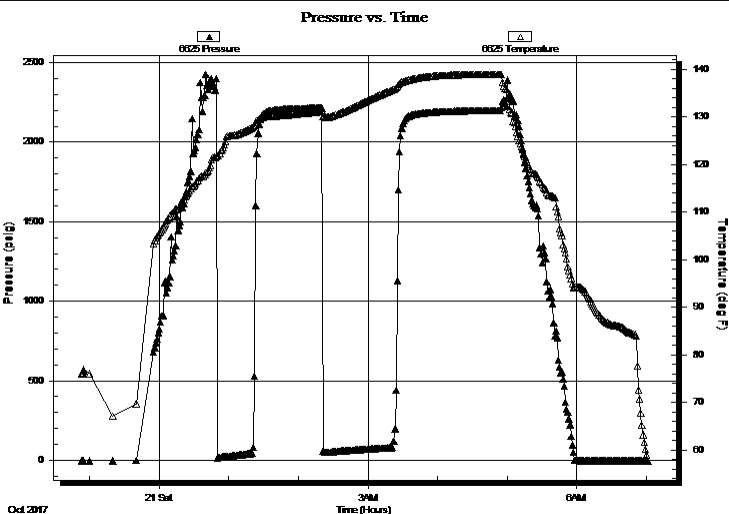
Formation: **Cherokee**  
Deviated: No Whipstock: ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 00:50:15      Tester: James Winder  
Time Test Ended: 07:01:00      Unit No: 76  
**Interval: 4664.00 ft (KB) To 4685.00 ft (KB) (TVD)**      Reference Elevations: 3335.00 ft (KB)  
Total Depth: 4685.00 ft (KB) (TVD)      3330.00 ft (CF)  
Hole Diameter: 7.88 inchesHole Condition: Fair      KB to GR/CF: 5.00 ft

## Serial #: 6625

Inside

Press@RunDepth: psig @ 4665.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2017.10.20      End Date: 2017.10.21      Last Calib.: 2017.10.21  
Start Time: 22:53:05      End Time: 07:01:29      Time On Btm:  
Time Off Btm:

TEST COMMENT: 30 - IF: Blow built to 5 1/2"  
60 - IS: Blow back built to 1/4"  
60 - FF: Blow built to 8"  
90 - FS: Weak surface blow back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
55.00	OCM 85%m, 10%o, 5%g	0.27
132.00	GSMCO 83%o, 12%g, 5%m	1.27

## 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.

**3-8s-36w Thomas,KS**

125 N. Market St STE 1110  
Wichita, KS 67202

**Wilson #1-3**

Job Ticket: 63318

**DST#: 6**

ATTN: Tim Priest

Test Start: 2017.10.20 @ 22:53:00

## Tool Information

Drill Pipe:	Length: 4550.00 ft	Diameter: 3.80 inches	Volume: 63.82 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 64.41 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	65000.00 lb
Depth to Top Packer:	4664.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	21.00 ft				
Tool Length:	42.00 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			4644.00	
Shut In Tool	5.00			4649.00	
Hydraulic tool	5.00			4654.00	
Packer	5.00			4659.00	21.00 Bottom Of Top Packer
Packer	5.00			4664.00	
Packer - Shale	0.00			4664.00	
Stubb	1.00			4665.00	
Recorder	0.00	6625	Inside	4665.00	
Recorder	0.00	8017	Outside	4665.00	
Perforations	17.00			4682.00	
Bullnose	3.00			4685.00	21.00 Bottom Packers & Anchor

**Total Tool Length: 42.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Val Energy Inc.

**3-8s-36w Thomas,KS**

125 N. Market St STE 1110  
Wichita, KS 67202

**Wilson #1-3**

Job Ticket: 63318

**DST#: 6**

ATTN: Tim Priest

Test Start: 2017.10.20 @ 22:53:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

22.2 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.48 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	OCM 85% <i>m</i> , 10% <i>o</i> , 5% <i>g</i>	0.270
132.00	GSMCO 83% <i>o</i> , 12% <i>g</i> , 5% <i>m</i>	1.269

Total Length: 187.00 ft      Total Volume: 1.539 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

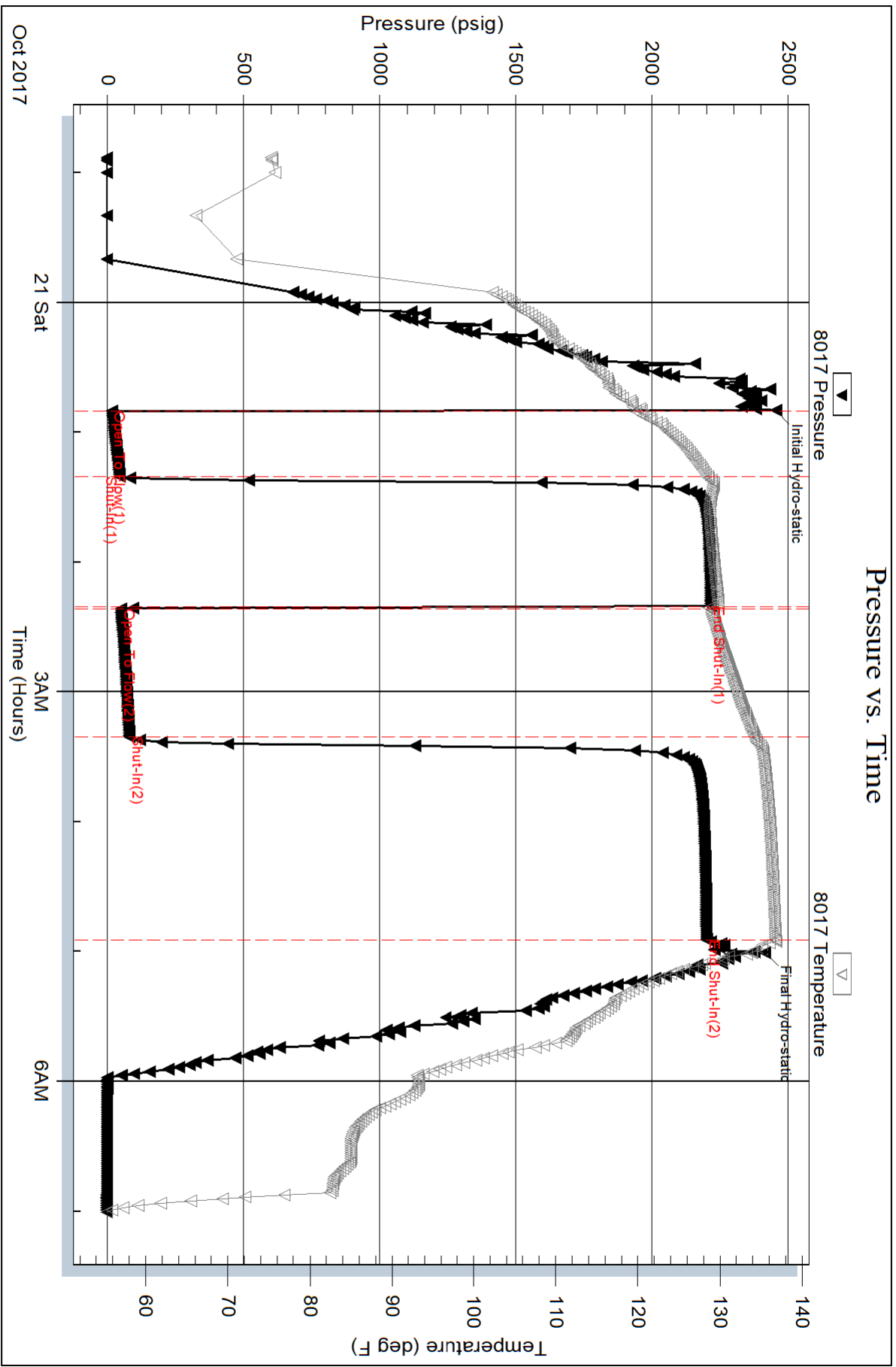
Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 24.6 api @ 84 deg F

Corrected Gravity = 22.2 api





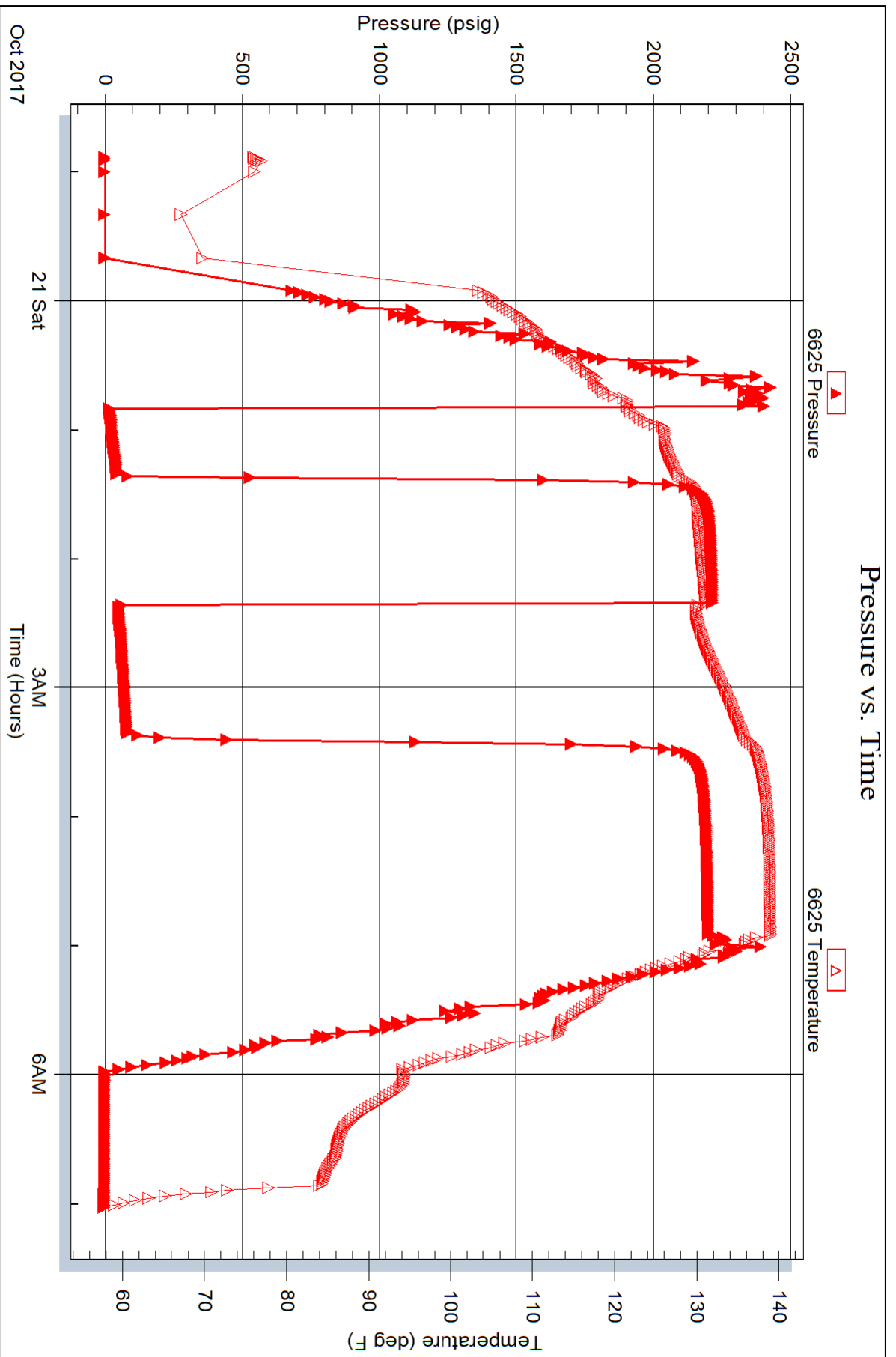
Serial #: 6625

Inside

Val Energy Inc.

Wilson #1-3

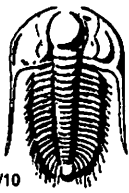
DST Test Number: 6



Triobite Testing, Inc

Ref. No: 63318

Printed: 2017.10.23 @ 11:52:56



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63313

Well Name & No. Wilson #1-3 Test No. 1 Date 10-17-17  
 Company Val Energy Inc Elevation 3335 KB 3330 GL  
 Address 125 N. Market St STE 1110 Wichita, KS 67202  
 Co. Rep / Geo. Tim Priest Rig WW #10  
 Location: Sec. 3 Twp. 8s Rge. 36w Co. Thomas State KS

Interval Tested 4335 - 4368 Zone Tested Lans "I-J"  
 Anchor Length 33 Drill Pipe Run 4203 Mud Wt. 9.1  
 Top Packer Depth 4330 Drill Collars Run 119 Vis 58  
 Bottom Packer Depth ~~4320~~ (Shale) 4335 Wt. Pipe Run - WL 8.0  
 Total Depth 4368 Chlorides 3500 ppm System LCM 1 1/2

Blow Description IF: Blow built to BOB (11") at 1 1/4 min.  
ISI: Weak surface blowback from 8 min on  
FF: Blow built to BOB at 1 1/2 min.  
FSI: No blowback

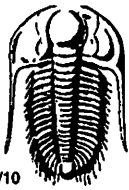
Rec	Feet of	%gas	%oil	%water	%mud
<u>315</u>	<u>MCW</u>		<u>67</u>	<u>33</u>	
<u>1750</u>	<u>Water</u>		<u>98</u>	<u>2</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2065 BHT 139 Gravity API RW 0.136 @ 36.5 °F Chlorides 125,000 ppm

(A) Initial Hydrostatic 2173  Test 1150 T-On Location 1:45  
 (B) First Initial Flow 214  Jars \_\_\_\_\_ T-Started 2:53  
 (C) First Final Flow 689  Safety Joint \_\_\_\_\_ T-Open 4:32  
 (D) Initial Shut-In 1310  Circ Sub \_\_\_\_\_ T-Pulled 6:18  
 (E) Second Initial Flow 691  Hourly Standby \_\_\_\_\_ T-Out 8:30  
 (F) Second Final Flow 990  Mileage 160RT 120 Comments Hotel  
 (G) Final Shut-In 1287  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2095  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer 250  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 15  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 1520  
 Final Flow 15  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 45 Sub Total 1520

Approved By \_\_\_\_\_ Our Representative Jama Nield

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. 63314

Well Name & No. Wilson #1-3 Test No. 2 Date 10-18-17  
 Company Val Energy Inc Elevation 3335 KB 3330 GL  
 Address 125 N. Market St. STE 1110 Wichita KS 67202  
 Co. Rep / Geo. Tim Priest Rig WW #10  
 Location: Sec. 3 Twp. 8s Rge. 36W Co. Thomas State KS

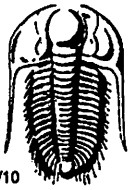
Interval Tested 4517 - 4560 Zone Tested Pawnee  
 Anchor Length 43 Drill Pipe Run 4392 Mud Wt. 9.3  
 Top Packer Depth 4512 Drill Collars Run 119 Vis 55  
 Bottom Packer Depth 4517 (shale) Wt. Pipe Run - WL 9.6  
 Total Depth 4560 Chlorides 5000 ppm System LCM 1  
 Blow Description IF: 1/4" Blow at open, built to 1 3/4"  
ISI: No blowback  
FF: weak surface blow at end of open  
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>MCW</u>			<u>87</u>	<u>13</u>
	<u>Trace of oil in tool</u>				

Rec Total 60 BHT 132 Gravity API RW .192 @ 72.9° F Chlorides 35,000 ppm

(A) Initial Hydrostatic <u>2296</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>5:55</u>
(B) First Initial Flow <u>14</u>	<input type="checkbox"/> Jars _____	T-Started <u>6:22</u>
(C) First Final Flow <u>24</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>8:04</u>
(D) Initial Shut-In <u>1331</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>11:05</u>
(E) Second Initial Flow <u>27</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>12:30</u>
(F) Second Final Flow <u>38</u>	<input checked="" type="checkbox"/> Mileage <u>160 RT</u> 120	Comments <u>Hotel</u>
(G) Final Shut-In <u>1314</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2208</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 _____	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby _____	Total <u>1520</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1520</u>	

Approved By \_\_\_\_\_ Our Representative James Winder  
 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. 63315

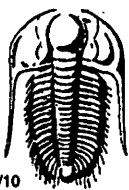
Well Name & No. Wilson #1-3 Test No. 3 Date 10-18-17  
 Company Val Energy Inc Elevation 3335 KB 3330 GL  
 Address 125 N. Market St. STE 1110 Wichita, KS 67202  
 Co. Rep / Geo. Tim Priest Rig WW #10  
 Location: Sec. 3 Twp. 8s Rge. 36w Co. Thomas State KS

Interval Tested 4566 - 4590 Zone Tested Myric Station  
 Anchor Length 24 Drill Pipe Run 4455 Mud Wt. 9.2  
 Top Packer Depth 4561 Drill Collars Run 119 Vis 58  
 Bottom Packer Depth 4566 (shale) Wt. Pipe Run - WL 9.6  
 Total Depth 4590 Chlorides 5000 ppm System LCM 2  
 Blow Description IF: Blow built to BOB (11") at 30sec  
ISI: Blowback built to BOB at 10min.  
FF: Blow built to BOB at 2min.  
FSI: Blowback built to 4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>OC60</u>	<u>12</u>	<u>83</u>	<u>5</u>	<u>5</u>
<u>Rev 2008</u>	<u>CO</u>	<u>3</u>	<u>94</u>	<u>3</u>	<u>3</u>
<u>63</u>	<u>SW/60cm</u>	<u>12</u>	<u>39</u>	<u>2</u>	<u>47</u>
<u>119</u>	<u>SW/6MO</u>	<u>29</u>	<u>35</u>	<u>5</u>	<u>31</u>

Rec Total 2250 BHT 141 Gravity 39.4 API RW @ ° F Chlorides ppm  
 (A) Initial Hydrostatic 2363  Test 1150 T-On Location 19:25 19/18  
 (B) First Initial Flow 404  Jars \_\_\_\_\_ T-Started 20:00  
 (C) First Final Flow 714  Safety Joint \_\_\_\_\_ T-Open 22:06  
 (D) Initial Shut-In 859  Circ Sub Drop Bar 50 T-Pulled 1:54  
 (E) Second Initial Flow 730  Hourly Standby \_\_\_\_\_ T-Out 5:45 10/19  
 (F) Second Final Flow 797  Mileage 160 RT 120 Comments Hotel  
 (G) Final Shut-In 840  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2298  Straddle \_\_\_\_\_  
 Shale Packer 250  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1570  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1570

Approved By \_\_\_\_\_ Our Representative James Winder  
 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. 63316

Well Name & No. Wilson #1-3 Test No. 4 Date 10-19-17  
 Company Val Energy Inc Elevation 3335 KB 3330 GL  
 Address 125 N. Market St. STE 1110 Wichita KS 67202  
 Co. Rep / Geo. Tim Priest Rig WW #10  
 Location: Sec. 3 Twp. 8s Rge. 36w Co. Thomas State KS

Interval Tested 4594-4640 Zone Tested Myric Station / Ft Scott  
 Anchor Length 46 Drill Pipe Run 4487 Mud Wt. 9.2  
 Top Packer Depth 4589 Drill Collars Run 119 Vis 67  
 Bottom Packer Depth 4594 (shale) Wt. Pipe Run - WL 10.4  
 Total Depth 4640 Chlorides 6400 ppm System LCM 1

Blow Description IF: Blow built to BOB (11") at 1min  
ISI: Blowback built to BOB at 15min.  
FF: Blow built to BOB at 3 1/2 min.  
FSI: Blowback built to BOB at 9min.

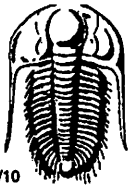
Rec	Feet of	%gas	%oil	%water	%mud
Rev out 1603	CGO	9	89	2	
63	SW/6MCO	36	48	2	14
119	GWMCO	16	47	14	23
	GIP = 2350'				

Rec Total 1785 BHT 142 Gravity 38.8 API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic 2349  Test 1150 T-On Location 14:45 10/19  
 (B) First Initial Flow 84  Jars \_\_\_\_\_ T-Started 15:04  
 (C) First Final Flow 309  Safety Joint \_\_\_\_\_ T-Open 16:54  
 (D) Initial Shut-In 1281  Circ Sub Drop Bar 50 T-Pulled 20:12  
 (E) Second Initial Flow 312  Hourly Standby \_\_\_\_\_ T-Out 00:15 10/20  
 (F) Second Final Flow 634  Mileage 160RT 120 Comments Hotel  
 (G) Final Shut-In 1136  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2347  Straddle \_\_\_\_\_  
 Shale Packer 250  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1570  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1570

Approved By \_\_\_\_\_ Our Representative Jama Woods

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. 63317

Well Name & No. Wilson #1-3 Test No. 5 Date 10-20-17  
 Company Val Energy Inc Elevation 3335 KB 3330 GL  
 Address 125 N. market St STE 1110 Wichita, KS 67202  
 Co. Rep / Geo. Tim Priest Rig WW #10  
 Location: Sec. 3 Twp. 8s Rge. 36w Co. Thomas State KS

Interval Tested 4641 - 4665 Zone Tested Cherokee  
 Anchor Length 24 Drill Pipe Run 4518 Mud Wt. 9.2  
 Top Packer Depth 4636 Drill Collars Run 119 Vis 53  
 Bottom Packer Depth 4641 (shale) Wt. Pipe Run - WL 9.6  
 Total Depth 4665 Chlorides 6000 ppm System LCM 2

Blow Description IF: Blow built to BOB (11") at 14 min.  
ISI: Blowback built to 2"  
FF: Blow built to BOB at 24 min  
FSI: Blowback built to 4"

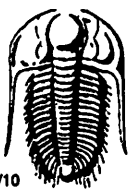
Rec	Feet of	%gas	%oil	%water	%mud
<u>350</u>	<u>CGO</u>	<u>23</u>	<u>77</u>		
<u>140</u>	<u>SW/6MCO</u>	<u>12</u>	<u>69</u>	<u>3</u>	<u>16</u>
<u>Rec</u>	<u>Feet of GIP: 250'</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>
<u>Rec</u>	<u>Feet of</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>
<u>Rec</u>	<u>Feet of</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>

Rec Total 490 BHT 142 Gravity 24.4 API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic 2438  Test 1150 T-On Location 7:15  
 (B) First Initial Flow 17  Jars \_\_\_\_\_ T-Started 7:31  
 (C) First Final Flow 92  Safety Joint \_\_\_\_\_ T-Open 9:12  
 (D) Initial Shut-In 1515  Circ Sub \_\_\_\_\_ T-Pulled 12:30  
 (E) Second Initial Flow 101  Hourly Standby \_\_\_\_\_ T-Out 14:30  
 (F) Second Final Flow 187  Mileage 160RT 120 Comments Hotel  
 (G) Final Shut-In 1429  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2361  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer 250  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1520  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1520

Approved By \_\_\_\_\_ Our Representative James Winkler

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. 63318

Well Name & No. Wilson #1-3 Test No. 6 Date 10-20-17  
 Company Val Energy Inc Elevation 3335 KB 3330 GL  
 Address 125 N. Market St. STE 1110 Wichita, KS 67202  
 Co. Rep / Geo. Tim Priest Rig WW #10  
 Location: Sec. 3 Twp. 8s Rge. 36w Co. Thomas State KS

Interval Tested 4664-4685 Zone Tested Cherokee  
 Anchor Length 21 Drill Pipe Run 4550 Mud Wt. 9.2  
 Top Packer Depth 4659 Drill Collars Run 119 Vis 53  
 Bottom Packer Depth 4664 (Shale) Wt. Pipe Run - WL 9.5  
 Total Depth 4685 Chlorides 6000 ppm System LCM 2

Blow Description IF: Blow built to 5 1/2"  
ISI Blowback built to 1/4"  
FF: Blow built to 8"  
FSI: ~~Open~~ weak surface blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>132</u>	<u>SM/GO</u>	<u>12</u>	<u>83</u>	<u>5</u>	<u>5</u>
<u>55</u>	<u>OCM</u>	<u>5</u>	<u>10</u>	<u>85</u>	<u>85</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 187 BHT \_\_\_\_\_ Gravity 22.2 API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2455  Test 1150 T-On Location 22:00  
 (B) First Initial Flow 16  Jars \_\_\_\_\_ T-Started 22:53  
 (C) First Final Flow 44  Safety Joint \_\_\_\_\_ T-Open 00:50  
 (D) Initial Shut-In 2216  Circ Sub \_\_\_\_\_ T-Pulled 4:54  
 (E) Second Initial Flow 51  Hourly Standby \_\_\_\_\_ T-Out 7:00  
 (F) Second Final Flow 81  Mileage 160 RT x2 240 Comments Hotel  
 (G) Final Shut-In 2201  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2415  Straddle \_\_\_\_\_  Ruined Shale Packer 350  
 Shale Packer 250  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 350  
 Initial Shut-In 60  Day Standby \_\_\_\_\_ Total 1990  
 Final Flow 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 90 Sub Total 1640

Approved By \_\_\_\_\_ Our Representative James Winkler

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.