



DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc.**

125 N Market St. STE 1110
Wichita KS 67202

ATTN: Tim Priest

Eicher #1-8

8-8s-36w Thomas,KS

Start Date: 2017.07.31 @ 10:03:15

End Date: 2017.07.31 @ 17:37:30

Job Ticket #: 63835 DST #: 1

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

Printed: 2017.08.07 @ 11:20:30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

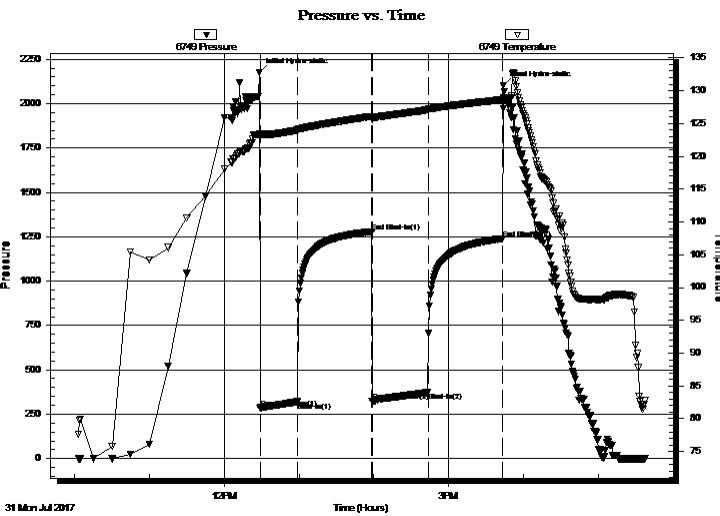
8-8s-36w Thomas,KS
Eicher #1-8
 Job Ticket: 63835 **DST#: 1**
 Test Start: 2017.07.31 @ 10:03:15

GENERAL INFORMATION:

Formation: **LKC C-F**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 12:28:45
 Tester: Mike Roberts
 Time Test Ended: 17:37:30
 Unit No: 81
 Interval: **4213.00 ft (KB) To 4259.00 ft (KB) (TVD)**
 Reference Elevations: 3363.00 ft (KB)
 Total Depth: 4259.00 ft (KB) (TVD)
 3358.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 6749 Outside
 Press@RunDepth: 371.92 psig @ 4249.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.07.31 End Date: 2017.07.31 Last Calib.: 2017.07.31
 Start Time: 10:03:15 End Time: 17:37:30 Time On Btm: 2017.07.31 @ 12:28:00
 Time Off Btm: 2017.07.31 @ 15:44:00

TEST COMMENT: IF: Built to 7" blow
 IS: No return blow
 FF: BOB in 41 min.
 FS: No return blow



PRESSURE SUMMARY

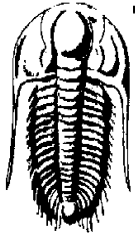
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2175.88	123.45	Initial Hydro-static
1	284.41	123.14	Open To Flow (1)
31	319.64	123.99	Shut-In(1)
91	1275.26	126.10	End Shut-In(1)
91	323.36	125.68	Open To Flow (2)
136	371.92	127.10	Shut-In(2)
195	1239.37	128.65	End Shut-In(2)
196	2101.91	128.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
119.00	12% m 88% w (collars)	0.59
573.00	mud 100% m	8.04

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

8-8s-36w Thomas,KS
Eicher #1-8
Job Ticket: 63835 **DST#: 1**
Test Start: 2017.07.31 @ 10:03:15

GENERAL INFORMATION:

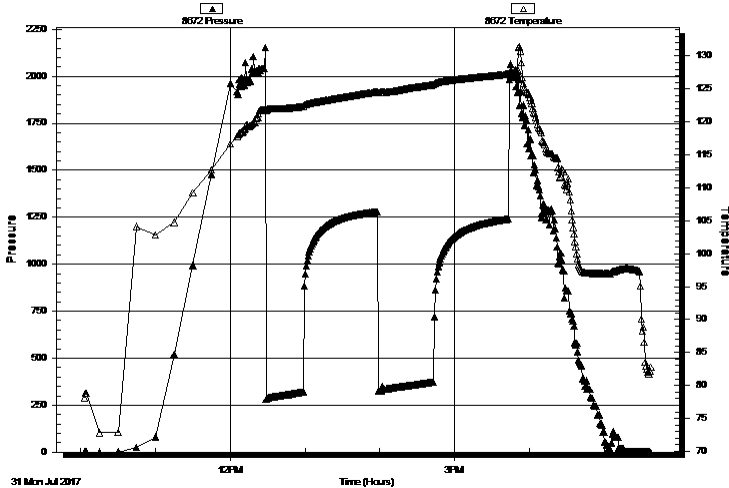
Formation: LKC C-F			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)	
Time Tool Opened: 12:28:45		Tester: Mike Roberts	
Time Test Ended: 17:37:30		Unit No: 81	
Interval: 4213.00 ft (KB) To 4259.00 ft (KB) (TVD)		Reference Elevations: 3363.00 ft (KB)	
Total Depth: 4259.00 ft (KB) (TVD)		3358.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 5.00 ft	

Serial #: 8672 Inside

Press@RunDepth: psig @	4249.00 ft (KB)	Capacity:	8000.00 psig
Start Date: 2017.07.31	End Date: 2017.07.31	Last Calib.:	2017.07.31
Start Time: 10:03:15	End Time: 17:37:30	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF: Built to 7" blow
IS: No return blow
FF: BOB in 41 min.
FS: No return blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
119.00	12%m 88%w (collars)	0.59
573.00	mud 100%m	8.04

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Val Energy Inc.

8-8s-36w Thomas,KS

125 N Market St. STE 1110
Wichita KS 67202

Eicher #1-8

Job Ticket: 63835

DST#: 1

ATTN: Tim Priest

Test Start: 2017.07.31 @ 10:03:15

Tool Information

Drill Pipe:	Length: 4081.00 ft	Diameter: 3.80 inches	Volume: 57.25 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:	20000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 57.84 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4213.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	46.00 ft				
Tool Length:	70.00 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			4190.00	
Shut In Tool	5.00			4195.00	
Hydraulic tool	5.00			4200.00	
Jars	5.00			4205.00	
Safety Joint	3.00			4208.00	
Packer	5.00			4213.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			4213.00	
Stubb	1.00			4214.00	
Perforations	1.00			4215.00	
Change Over Sub	1.00			4216.00	
Drill Pipe	32.00			4248.00	
Change Over Sub	1.00			4249.00	
Recorder	0.00	8672	Inside	4249.00	
Recorder	0.00	6749	Outside	4249.00	
Perforations	5.00			4254.00	
Bullnose	5.00			4259.00	46.00 Anchor Tool
Total Tool Length:	70.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy Inc.

8-8s-36w Thomas,KS

125 N Market St. STE 1110
Wichita KS 67202

Eicher #1-8

Job Ticket: 63835

DST#: 1

ATTN: Tim Priest

Test Start: 2017.07.31 @ 10:03:15

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:

24000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.73 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
119.00	12%m 88%w (collars)	0.585
573.00	mud 100%m	8.038

Total Length: 692.00 ft Total Volume: 8.623 bbl

Num Fluid Samples: 0

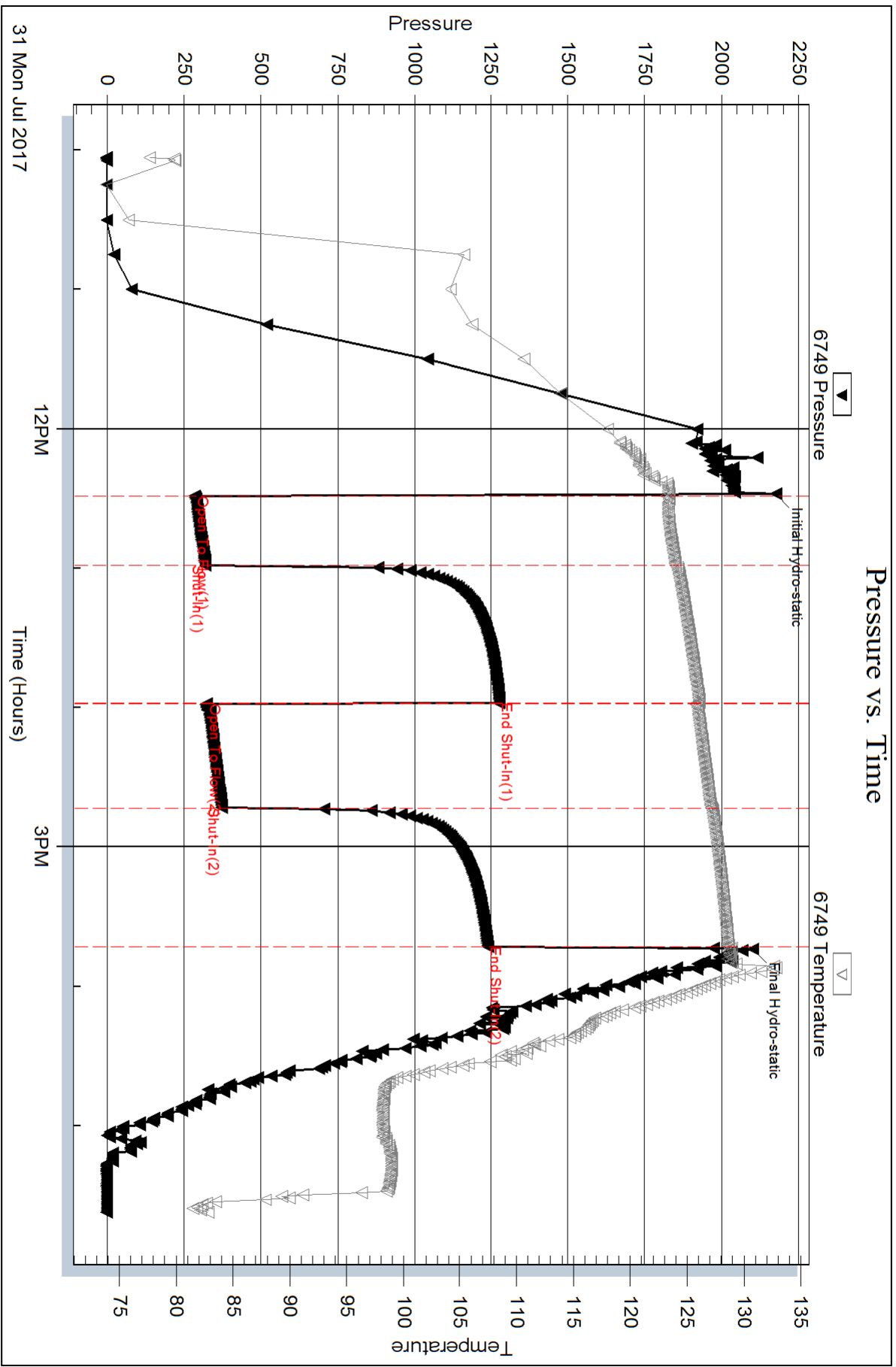
Num Gas Bombs: 0

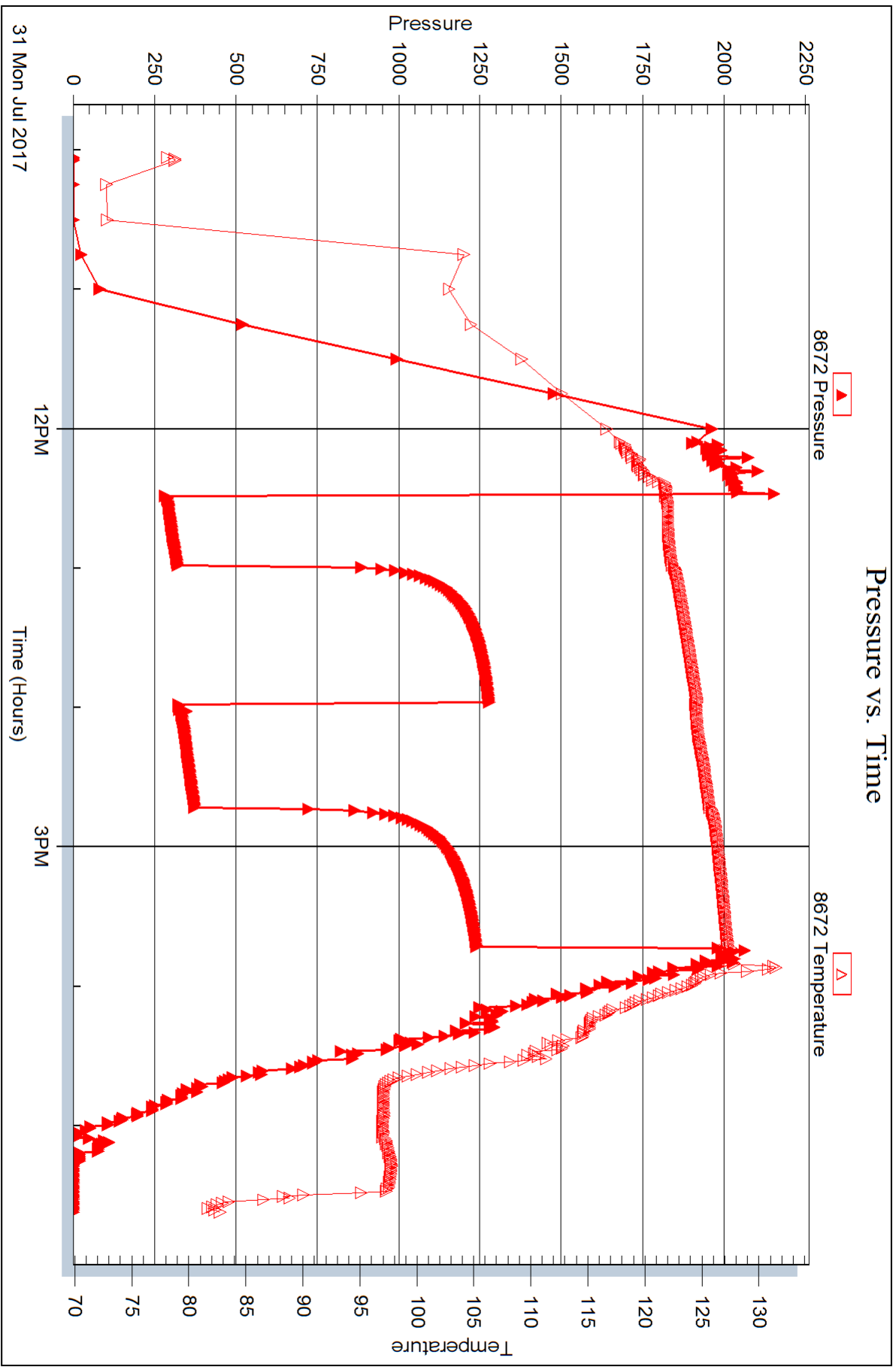
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .258@ 83.7*= 24,000 ppm







DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc.**

125 N Market St. STE 1110
Wichita KS 67202

ATTN: Tim Priest

Eicher #1-8

8-8s-36w Thomas,KS

Start Date: 2017.08.01 @ 11:06:15

End Date: 2017.08.01 @ 17:21:30

Job Ticket #: 63836 DST #: 2

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

Printed: 2017.08.07 @ 11:17:54



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

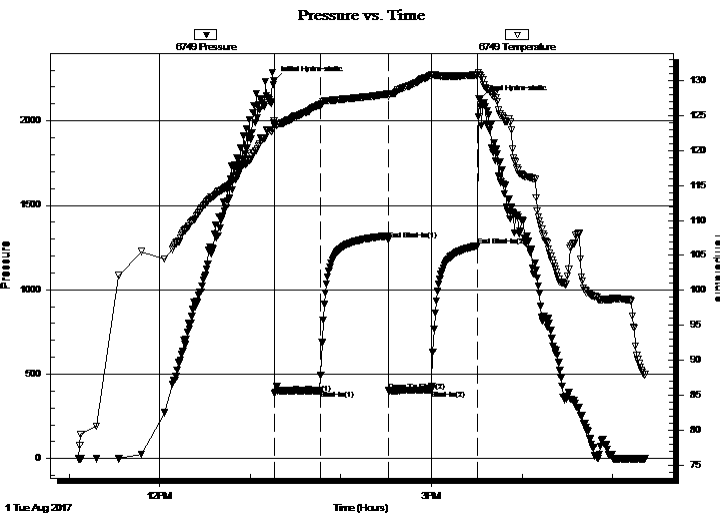
8-8s-36w Thomas,KS
Eicher #1-8
 Job Ticket: 63836 **DST#: 2**
 Test Start: 2017.08.01 @ 11:06:15

GENERAL INFORMATION:

Formation: **LKC H - J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:16:00
 Time Test Ended: 17:21:30
 Interval: **4311.00 ft (KB) To 4370.00 ft (KB) (TVD)**
 Total Depth: 4370.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 81
 Reference Elevations: 3363.00 ft (KB)
 3358.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6749 Outside
 Press@RunDepth: 406.19 psig @ 4350.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.08.01 End Date: 2017.08.01 Last Calib.: 2017.08.01
 Start Time: 11:06:15 End Time: 17:21:30 Time On Btm: 2017.08.01 @ 13:15:45
 Time Off Btm: 2017.08.01 @ 15:31:30

TEST COMMENT: IF: Built to 2 1/2" blow
 IS: No return blow
 FF: No blow
 FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2237.29	124.27	Initial Hydro-static
1	388.39	123.55	Open To Flow (1)
31	402.35	126.47	Shut-In(1)
76	1297.35	128.06	End Shut-In(1)
76	401.15	127.75	Open To Flow (2)
105	406.19	130.75	Shut-In(2)
135	1260.15	130.78	End Shut-In(2)
136	2128.30	130.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
677.00	mud 100% m	8.41

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

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

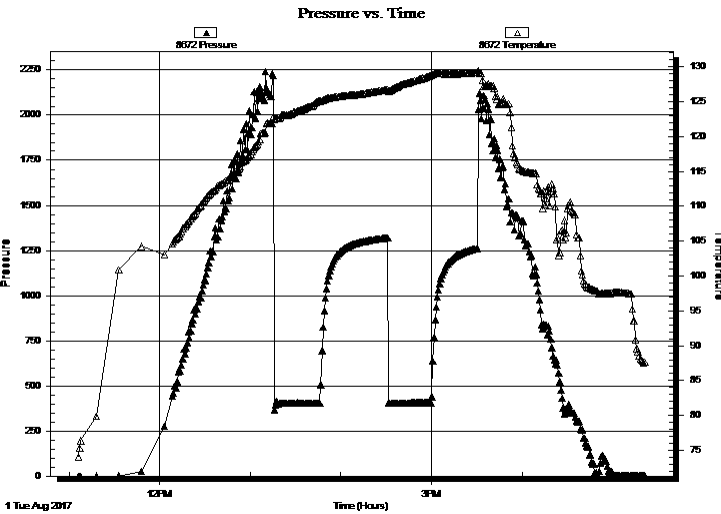
8-8s-36w Thomas,KS
Eicher #1-8
Job Ticket: 63836 **DST#: 2**
Test Start: 2017.08.01 @ 11:06:15

GENERAL INFORMATION:

Formation: **LKC H - J**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 13:16:00 Tester: Mike Roberts
Time Test Ended: 17:21:30 Unit No: 81
Interval: 4311.00 ft (KB) To 4370.00 ft (KB) (TVD) Reference Elevations: 3363.00 ft (KB)
Total Depth: 4370.00 ft (KB) (TVD) 3358.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8672 Inside
Press@RunDepth: psig @ 4350.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.08.01 End Date: 2017.08.01 Last Calib.: 2017.08.01
Start Time: 11:06:15 End Time: 17:21:30 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Built to 2 1/2" blow
IS: No return blow
FF: No blow
FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
677.00	mud 100% m	8.41

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.

8-8s-36w Thomas,KS

125 N Market St. STE 1110
Wichita KS 67202

Eicher #1-8

Job Ticket: 63836

DST#: 2

ATTN: Tim Priest

Test Start: 2017.08.01 @ 11:06:15

Tool Information

Drill Pipe:	Length: 4172.00 ft	Diameter: 3.80 inches	Volume: 58.52 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:	20000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 59.11 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4311.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	59.00 ft				
Tool Length:	83.00 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			4288.00	
Shut In Tool	5.00			4293.00	
Hydraulic tool	5.00			4298.00	
Jars	5.00			4303.00	
Safety Joint	3.00			4306.00	
Packer	5.00			4311.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			4311.00	
Stubb	1.00			4312.00	
Perforations	4.00			4316.00	
Change Over Sub	1.00			4317.00	
Drill Pipe	32.00			4349.00	
Change Over Sub	1.00			4350.00	
Recorder	0.00	8672	Inside	4350.00	
Recorder	0.00	6749	Outside	4350.00	
Perforations	15.00			4365.00	
Bullnose	5.00			4370.00	59.00 Anchor Tool
Total Tool Length:	83.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy Inc.

8-8s-36w Thomas,KS

125 N Market St. STE 1110
Wichita KS 67202

Eicher #1-8

Job Ticket: 63836

DST#: 2

ATTN: Tim Priest

Test Start: 2017.08.01 @ 11:06:15

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: 63.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.53 in³

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
677.00	mud 100%m	8.412

Total Length: 677.00 ft Total Volume: 8.412 bbl

Num Fluid Samples: 0

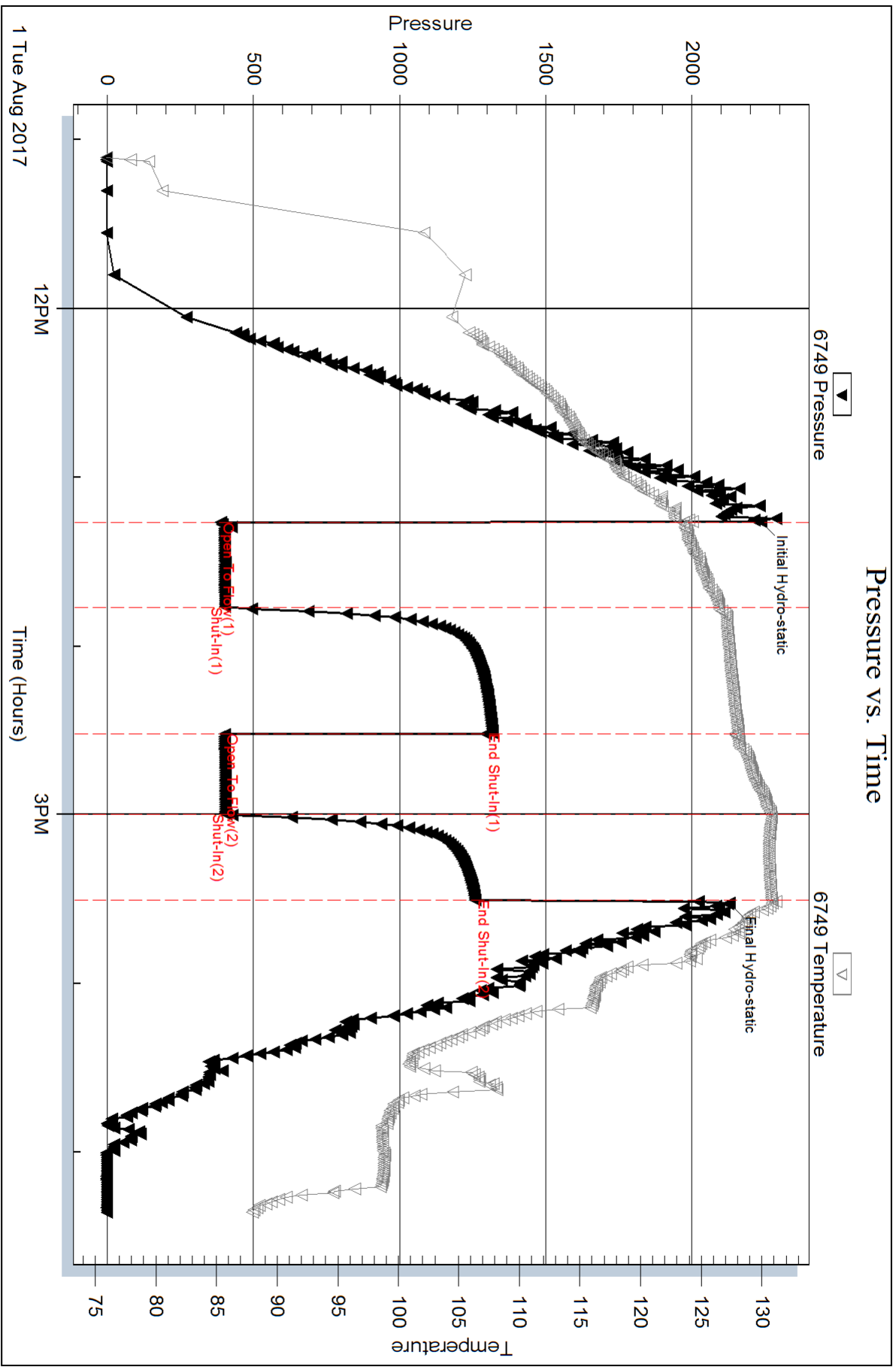
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



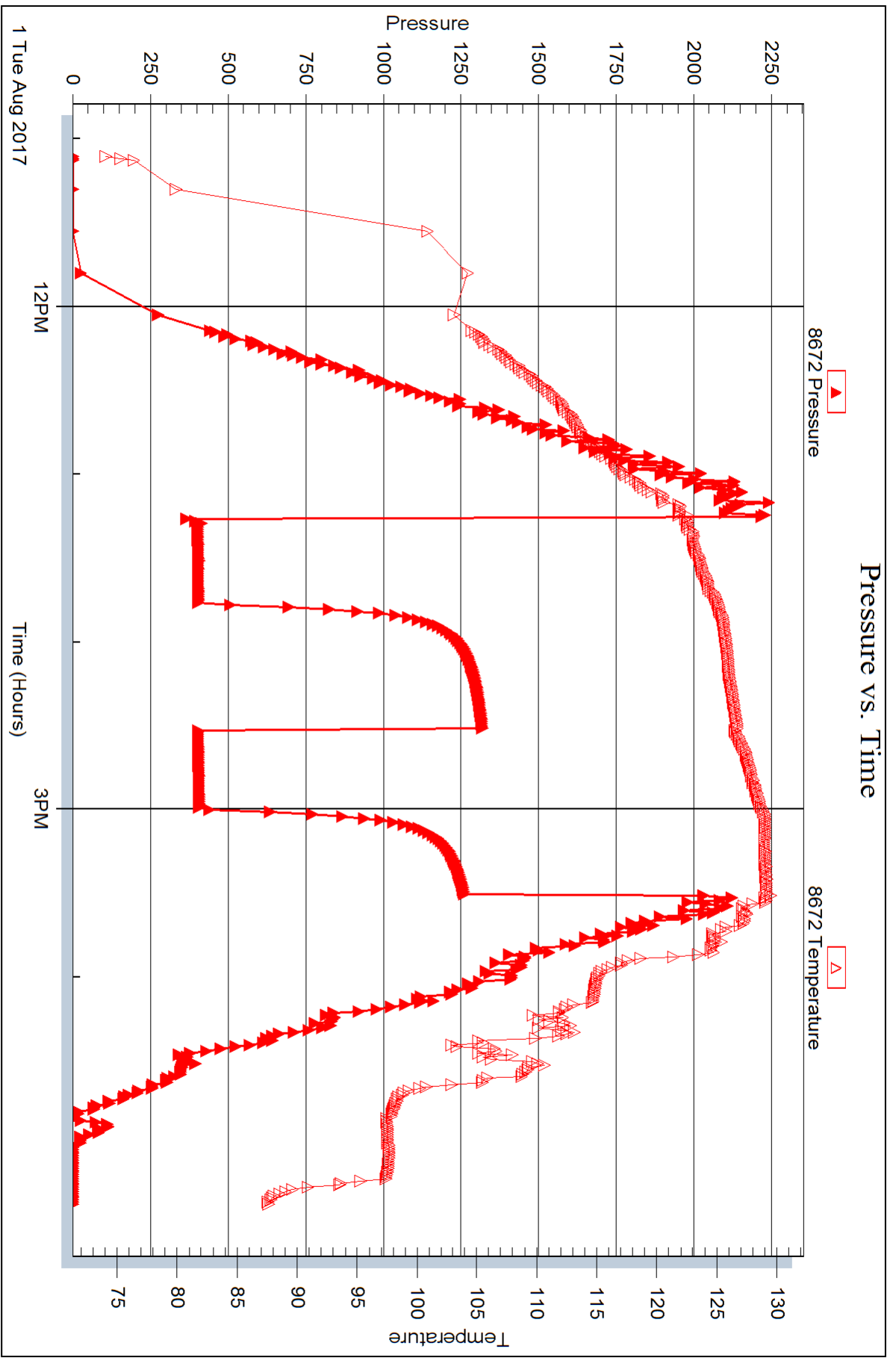
Serial #: 8672

Inside

Val Energy Inc.

Echer #1-8

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 63836

Printed: 2017.08.07 @ 11:17:56



DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc.**

125 N Market St. STE 1110
Wichita KS 67202

ATTN: Tim Priest

Eicher #1-8

8-8s-36w Thomas,KS

Start Date: 2017.08.02 @ 06:30:15

End Date: 2017.08.02 @ 13:00:30

Job Ticket #: 63837 DST #: 3

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

Printed: 2017.08.07 @ 11:16:37

Val Energy Inc.
8-8s-36w Thomas,KS
Eicher #1-8
DST # 3
LKC I - L
2017.08.02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

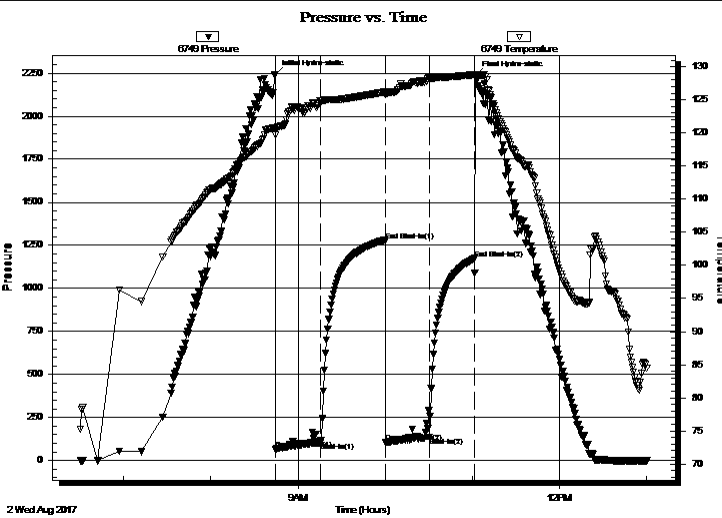
8-8s-36w Thomas,KS
Eicher #1-8
 Job Ticket: 63837 **DST#: 3**
 Test Start: 2017.08.02 @ 06:30:15

GENERAL INFORMATION:

Formation: **LKC I - L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:44:30
 Time Test Ended: 13:00:30
 Interval: **4327.00 ft (KB) To 4449.00 ft (KB) (TVD)**
 Total Depth: 4449.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 81
 Reference Elevations: 3363.00 ft (KB)
 3358.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6749 Outside
 Press@RunDepth: 134.12 psig @ 4429.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.08.02 End Date: 2017.08.02 Last Calib.: 2017.08.02
 Start Time: 06:30:15 End Time: 13:00:30 Time On Btm: 2017.08.02 @ 08:44:15
 Time Off Btm: 2017.08.02 @ 11:02:30

TEST COMMENT: IF: Built to 2 1/4" blow
 IS: No return blow
 FF: Built to 2" blow
 FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2242.48	120.85	Initial Hydro-static
1	64.83	119.67	Open To Flow (1)
32	103.92	124.75	Shut-In(1)
76	1276.35	126.21	End Shut-In(1)
77	106.32	125.81	Open To Flow (2)
107	134.12	128.18	Shut-In(2)
138	1173.54	128.81	End Shut-In(2)
139	2234.82	128.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
119.00	mud 100% m (collars)	0.59
10.00	mud with few oil spots 100% m	0.14

Gas Rates

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

* Recovery from multiple tests



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

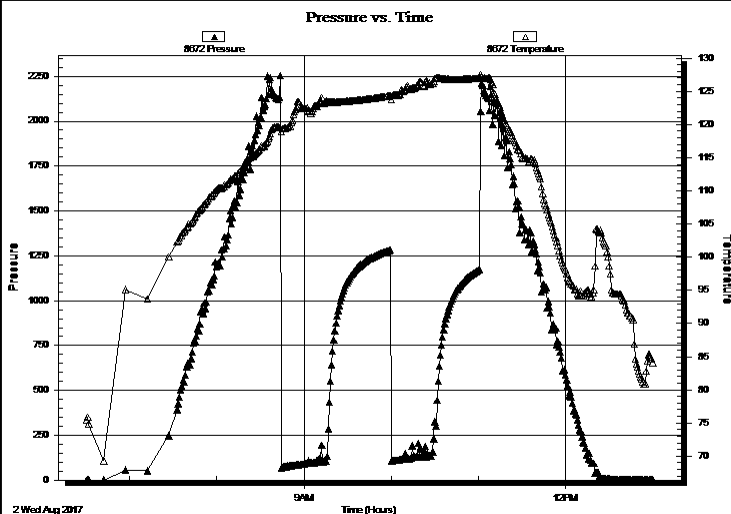
8-8s-36w Thomas,KS
Eicher #1-8
Job Ticket: 63837 **DST#: 3**
Test Start: 2017.08.02 @ 06:30:15

GENERAL INFORMATION:

Formation: **LKC I - L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:44:30
Time Test Ended: 13:00:30
Interval: **4327.00 ft (KB) To 4449.00 ft (KB) (TVD)**
Total Depth: 4449.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Mike Roberts
Unit No: 81
Reference Elevations: 3363.00 ft (KB)
3358.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8672 **Inside**
Press@RunDepth: psig @ 4429.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.08.02 End Date: 2017.08.02 Last Calib.: 2017.08.02
Start Time: 06:30:15 End Time: 13:00:15 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Built to 2 1/4" blow
IS: No return blow
FF: Built to 2" blow
FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
119.00	mud 100% m (collars)	0.59
10.00	mud w ith few oil spots 100%m	0.14

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.

8-8s-36w Thomas,KS

125 N Market St. STE 1110
Wichita KS 67202

Eicher #1-8

Job Ticket: 63837

DST#: 3

ATTN: Tim Priest

Test Start: 2017.08.02 @ 06:30:15

Tool Information

Drill Pipe:	Length: 4214.00 ft	Diameter: 3.80 inches	Volume: 59.11 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: 20000.00 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: 59.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4327.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	122.00 ft			
Tool Length:	150.00 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			4300.00	
Shut In Tool	5.00			4305.00	
Hydraulic tool	5.00			4310.00	
Jars	5.00			4315.00	
Safety Joint	3.00			4318.00	
Packer	5.00			4323.00	28.00 Bottom Of Top Packer
Packer	4.00			4327.00	
Stubb	1.00			4328.00	
Perforations	4.00			4332.00	
Change Over Sub	1.00			4333.00	
Drill Pipe	95.00			4428.00	
Change Over Sub	1.00			4429.00	
Recorder	0.00	8672	Inside	4429.00	
Recorder	0.00	6749	Outside	4429.00	
Perforations	15.00			4444.00	
Bullnose	5.00			4449.00	122.00 Bottom Packers & Anchor
Total Tool Length:	150.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy Inc.

8-8s-36w Thomas,KS

125 N Market St. STE 1110
Wichita KS 67202

Eicher #1-8

Job Ticket: 63837

DST#: 3

ATTN: Tim Priest

Test Start: 2017.08.02 @ 06:30:15

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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.55 in³

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
119.00	mud 100% m (collars)	0.585
10.00	mud with few oil spots 100%m	0.140

Total Length: 129.00 ft

Total Volume: 0.725 bbl

Num Fluid Samples: 0

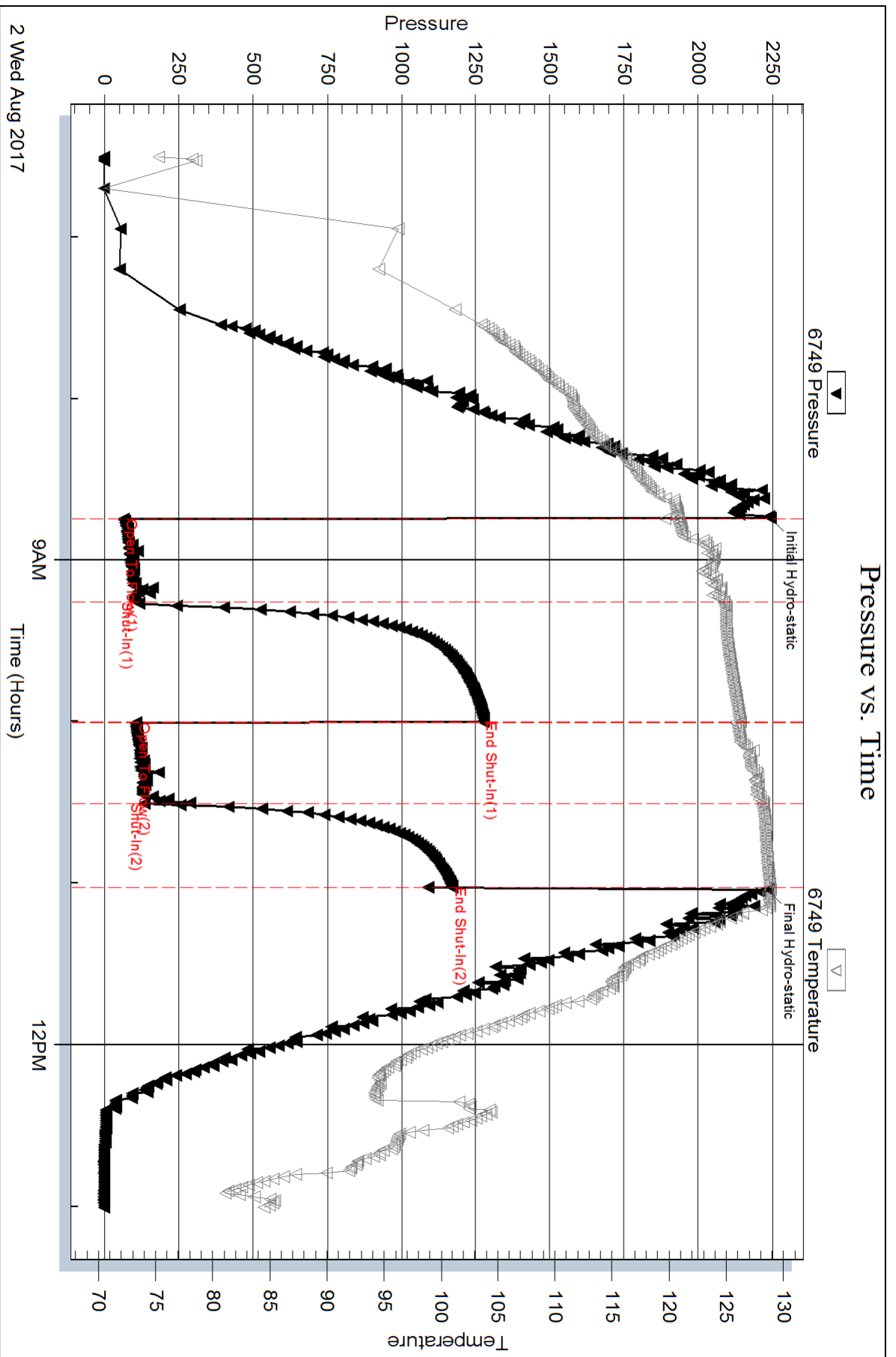
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



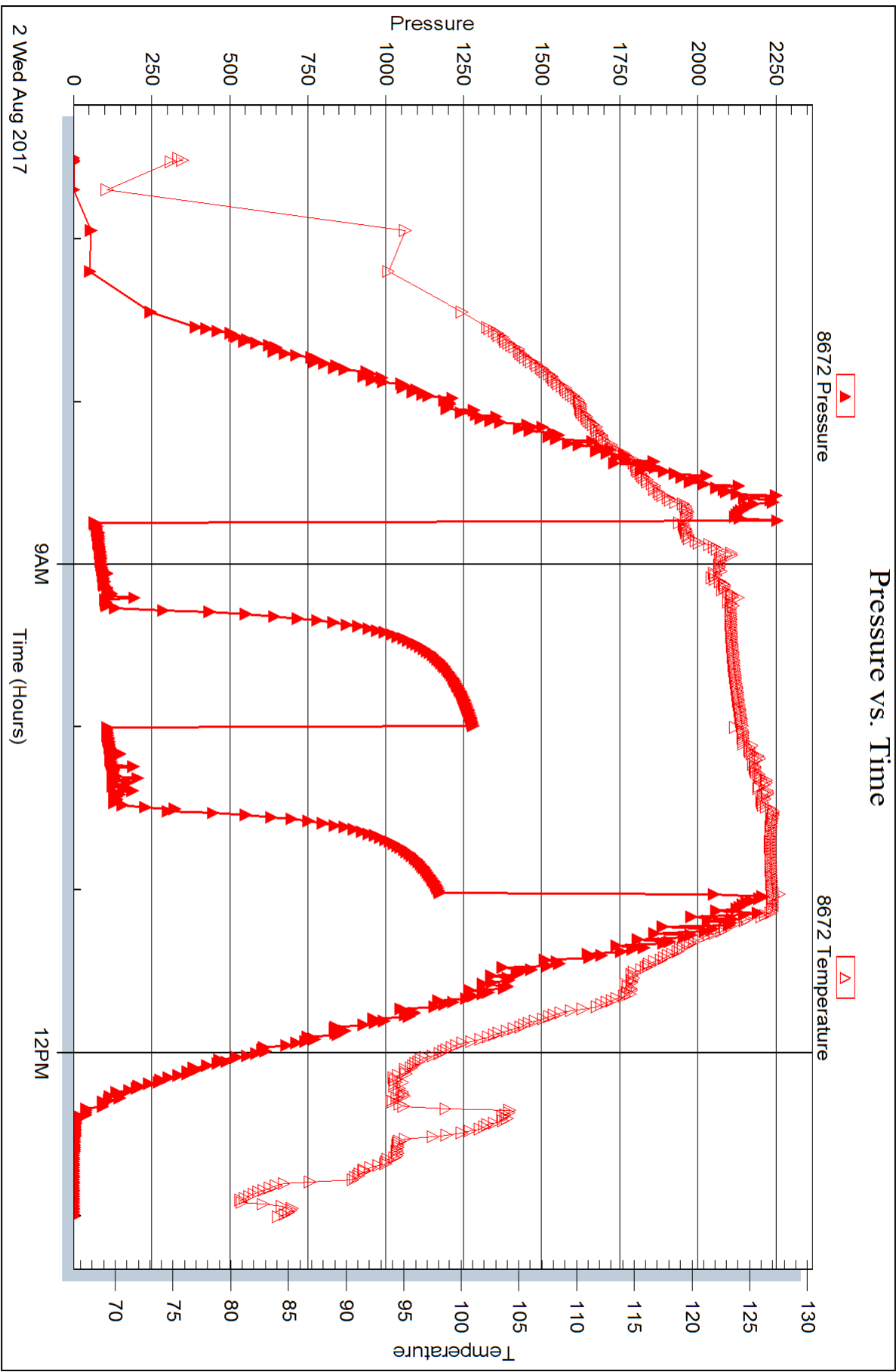
Serial #: 8672

Inside

Val Energy Inc.

Echer #1-8

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

Eicher #1-8

8-8s-36w Thomas,KS

Start Date: 2017.08.03 @ 01:10:15

End Date: 2017.08.03 @ 09:47:45

Job Ticket #: 63838 DST #: 4

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

Printed: 2017.08.07 @ 11:13:27



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

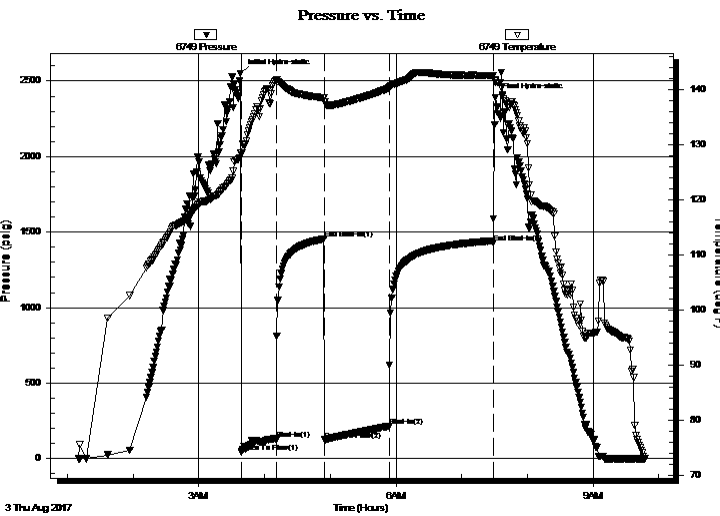
8-8s-36w Thomas,KS
Eicher #1-8
Job Ticket: 63838 **DST#: 4**
Test Start: 2017.08.03 @ 01:10:15

GENERAL INFORMATION:

Formation: **Cherokee - Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:39:00
Time Test Ended: 09:47:45
Interval: **4660.00 ft (KB) To 4724.00 ft (KB) (TVD)**
Total Depth: 4724.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Mike Roberts
Unit No: 81
Reference Elevations: 3363.00 ft (KB)
3358.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6749 Outside
Press@RunDepth: 214.94 psig @ 4699.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.08.03 End Date: 2017.08.03 Last Calib.: 2017.08.04
Start Time: 01:10:15 End Time: 09:47:45 Time On Btm: 2017.08.03 @ 03:38:30
Time Off Btm: 2017.08.03 @ 07:30:45

TEST COMMENT: IF: Built to 9" blow
IS: No return blow
FF: BOB in 53 min.
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2551.48	128.58	Initial Hydro-static
1	42.83	128.10	Open To Flow (1)
32	125.30	141.66	Shut-In(1)
76	1454.79	138.52	End Shut-In(1)
77	124.78	137.84	Open To Flow (2)
136	214.94	140.25	Shut-In(2)
231	1427.89	142.46	End Shut-In(2)
233	2390.95	141.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
119.00	mcw 20% m 80% w (collars)	0.59
124.00	mcw 30% m 70% w	1.74
154.00	ocw m 2% o 24% w 74% m	2.16
5.00	free oil 100% o	0.07

* 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

8-8s-36w Thomas,KS

Eicher #1-8

Job Ticket: 63838

DST#: 4

Test Start: 2017.08.03 @ 01:10:15

GENERAL INFORMATION:

Formation: **Cherokee - Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:39:00

Time Test Ended: 09:47:45

Interval: **4660.00 ft (KB) To 4724.00 ft (KB) (TVD)**

Total Depth: 4724.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Reference Elevations: 3363.00 ft (KB)

3358.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8672 Inside

Press@RunDepth: psig @ 4699.00 ft (KB)

Start Date: 2017.08.03 End Date: 2017.08.03

Start Time: 01:10:15 End Time: 09:47:45

Capacity: 8000.00 psig

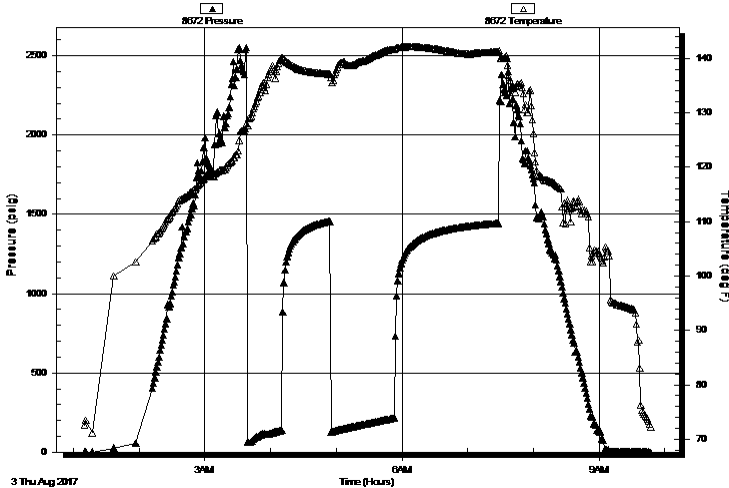
Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Built to 9" blow
IS: No return blow
FF: BOB in 53 min.
FS: No return blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
119.00	mcw 20%m 80%w (collars)	0.59
124.00	mcw 30%m 70%w	1.74
154.00	ocw m 2%o 24% w 74%m	2.16
5.00	free oil 100%o	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Val Energy Inc.

8-8s-36w Thomas,KS

125 N Market St. STE 1110
Wichita KS 67202

Eicher #1-8

Job Ticket: 63838

DST#: 4

ATTN: Tim Priest

Test Start: 2017.08.03 @ 01:10:15

Tool Information

Drill Pipe:	Length: 4535.00 ft	Diameter: 3.80 inches	Volume: 63.61 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: 20000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 64.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4660.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	88.00 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			4637.00	
Shut In Tool	5.00			4642.00	
Hydraulic tool	5.00			4647.00	
Jars	5.00			4652.00	
Safety Joint	3.00			4655.00	
Packer	5.00			4660.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			4660.00	
Stubb	1.00			4661.00	
Perforations	4.00			4665.00	
Change Over Sub	1.00			4666.00	
Drill Pipe	32.00			4698.00	
Change Over Sub	1.00			4699.00	
Recorder	0.00	8672	Inside	4699.00	
Recorder	0.00	6749	Outside	4699.00	
Perforations	20.00			4719.00	
Bullnose	5.00			4724.00	64.00 Anchor Tool
Total Tool Length:	88.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy Inc.

8-8s-36w Thomas,KS

125 N Market St. STE 1110
Wichita KS 67202

Eicher #1-8

Job Ticket: 63838

DST#: 4

ATTN: Tim Priest

Test Start: 2017.08.03 @ 01:10:15

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:

ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: 0.00 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	mcw 20%m 80%w (collars)	0.585
124.00	mcw 30%m 70%w	1.739
154.00	ocw m 2%o 24% w 74%m	2.160
5.00	free oil 100%o	0.070

Total Length: 402.00 ft

Total Volume: 4.554 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

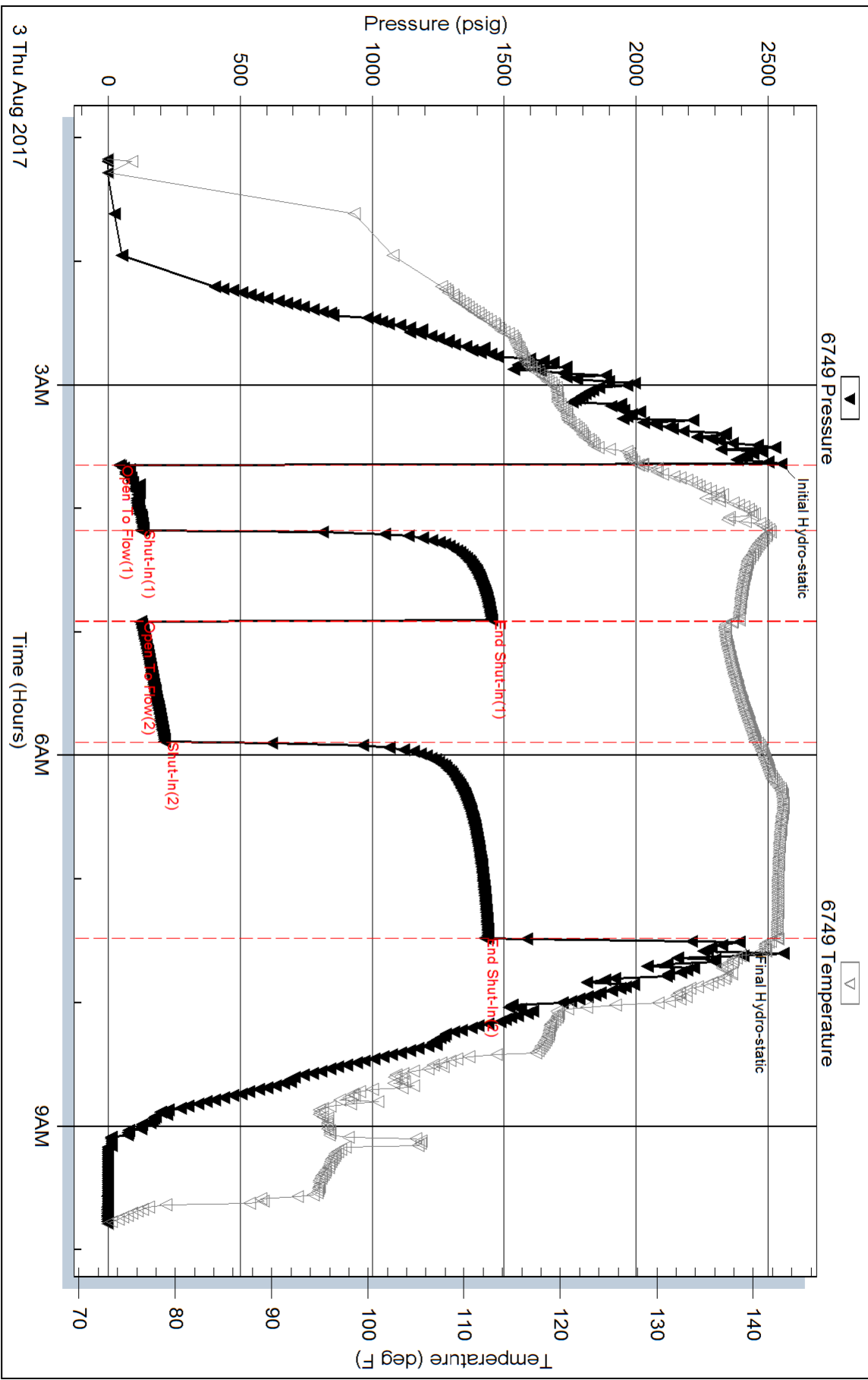
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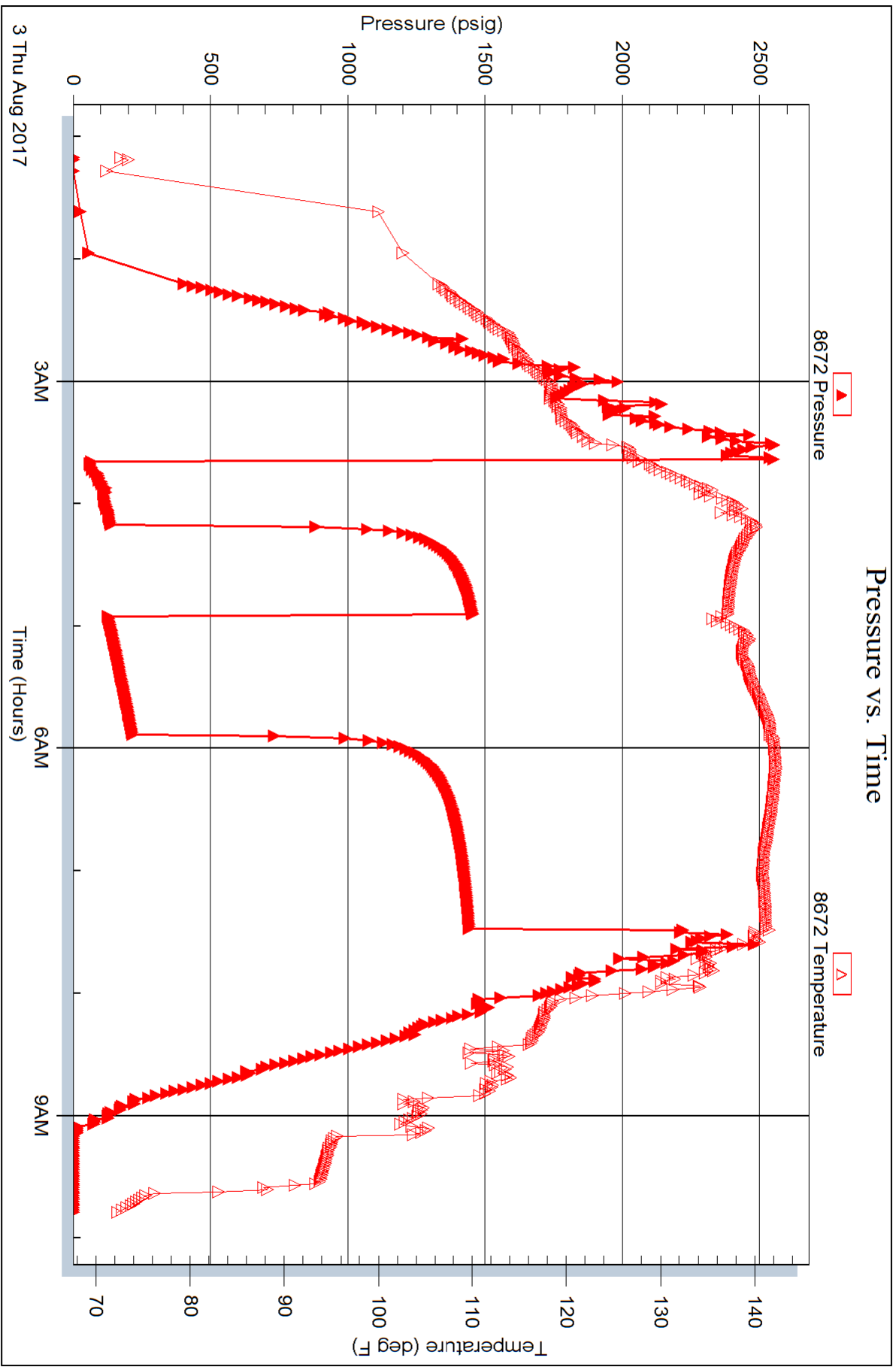
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63835**

Well Name & No. Eicker 1-8 Test No. 1 Date 7-31-17
 Company Val Energy Inc. Elevation 3363 KB 3358 GL
 Address 125 N. Market St STE 1110 Wichita KS 67202
 Co. Rep / Geo. Tim Priest Rig WW2
 Location: Sec. 8 Twp. 8S Rge. 36W Co. THOMAS State KS

Interval Tested 4213-4259 Zone Tested C-F
 Anchor Length 46 Drill Pipe Run 4081 Mud Wt. 9.1
 Top Packer Depth 4208 Drill Collars Run 119 Vis 57
 Bottom Packer Depth 4213 Wt. Pipe Run Ø WL 8.8
 Total Depth 4259 Chlorides 3500 ppm System LCM 1

Blow Description IF: Built to 7" Blow
IS: No Return Blow
FF: BOB in 41 Min.
FS: No Return Blow

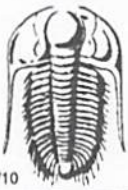
Rec	Feet of	%gas	%oil	%water	%mud
<u>573</u>	<u>MUD</u>			<u>100</u>	
<u>119</u>	<u>MCW</u>		<u>88</u>	<u>12</u>	

Rec Total 692 BHT 129 Gravity — API RW .258 @ 83.7 °F Chlorides 24000 ppm

(A) Initial Hydrostatic 2175 Test 950? \$1150.00/- T-On Location 08:30
 (B) First Initial Flow 289 Jars _____ T-Started 10:03
 (C) First Final Flow 319 Safety Joint _____ T-Open 12:28
 (D) Initial Shut-In 1275 Circ Sub NC T-Pulled 15:43
 (E) Second Initial Flow 323 Hourly Standby _____ T-Out 17:37
 (F) Second Final Flow 371 Mileage 188 RT \$141.00 Comments _____
 (G) Final Shut-In 1239 Sampler _____
 (H) Final Hydrostatic 2101 Straddle _____
 Shale Packer \$250.00/- Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 0?
 Accessibility _____ MP/DST Disc't _____
 Sub Total \$1541.00/-

Approved By Tim Priest Our Representative Mike Roberts

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. **63836**

Well Name & No. Eicher 1-8 Test No. 2 Date 8-1-17
 Company Val Energy Inc. Elevation 3363 KB 3358 GL
 Address 125. N. Market St. STE 1110 Wichita KS 67202
 Co. Rep / Geo. Tim Priest Rig WW2
 Location: Sec. 8 Twp. 8S Rge. 36w Co. THOMAS State KS

Interval Tested 4311-4370 Zone Tested H-I-J
 Anchor Length 59 Drill Pipe Run ~~4122~~ 4172 Mud Wt. 9.1
 Top Packer Depth 4306 Drill Collars Run 119 Vis 63
 Bottom Packer Depth 4311 Wt. Pipe Run Ø WL 9.6
 Total Depth 4370 Chlorides 4000 ppm System LCM 1
 Blow Description IF: Built to 2 1/2" Blow
IS: No Return Blow
FF: No Blow
FS: No Return Blow

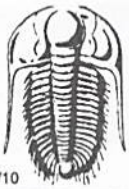
Rec	Feet of	%gas	%oil	%water	%mud
<u>677</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 677 BHT 131 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2237</u>	<input checked="" type="checkbox"/> Test 950? <u>\$150.00/-</u>	T-On Location <u>09:45</u>
(B) First Initial Flow <u>388</u>	<input type="checkbox"/> Jars	T-Started <u>11:06</u>
(C) First Final Flow <u>402</u>	<input type="checkbox"/> Safety Joint	T-Open <u>13:15</u>
(D) Initial Shut-In <u>1297</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>15:30</u>
(E) Second Initial Flow <u>401</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>17:21</u>
(F) Second Final Flow <u>406</u>	<input checked="" type="checkbox"/> Mileage <u>188 RT = \$141.00/-</u>	Comments
(G) Final Shut-In <u>1260</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2128</u>	<input type="checkbox"/> Straddle	
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>\$250.00/-</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>0</u>
	Sub Total <u>\$1541.00/-</u>	MP/DST Disc't

Approved By Tim Priest Our Representative Mike Bolats

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. **63837**

Well Name & No. Eicher 1-8 Test No. 3 Date 8-2-17
 Company Ual Energy Inc. Elevation 3363 KB 3358 GL
 Address 125 N. Market St. STE 1110 Wichita KS 67202
 Co. Rep / Geo. Tim Priest Rig WW2
 Location: Sec. 8 Twp. 8S Rge. 36w Co. THOMAS State KS

Interval Tested 4327-4469 Zone Tested I-J-K-L
 Anchor Length 122 Drill Pipe Run 4214 Mud Wt. 9.1
 Top Packer Depth 4322 Drill Collars Run 119 Vis 6.3
 Bottom Packer Depth 4327 Wt. Pipe Run Ø WL 9.6
 Total Depth 4469 Chlorides 4000 ppm System LCM 1
 Blow Description IF: Built to 2 1/4" Blow
IS: No Return Blow
FF: Built to 2" Blow
FS: NO Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Feet of MUD with oil spots</u>			<u>100</u>	
<u>119</u>	<u>Feet of MUD (collars)</u>			<u>100</u>	

Rec Total 129 BHT 129 Gravity - API RW - @ - ° F Chlorides - ppm
 (A) Initial Hydrostatic 2242 Test \$1150.00/- T-On Location 05:05
 (B) First Initial Flow 64 Jars - T-Started 06:30
 (C) First Final Flow 103 Safety Joint - T-Open 08:44
 (D) Initial Shut-In 1276 Circ Sub NC T-Pulled 10:59
 (E) Second Initial Flow 106 Hourly Standby - T-Out 13:00
 (F) Second Final Flow 134 Mileage 188RT=\$141.00/- Comments -
 (G) Final Shut-In 1173 Sampler -
 (H) Final Hydrostatic 2234 Straddle - Ruined Shale Packer -
 Initial Open 30 Shale Packer - Ruined Packer -
 Initial Shut-In 45 Extra Packer \$250.00/- Extra Copies -
 Final Flow 30 Extra Recorder - Sub Total 0
 Final Shut-In 30 Day Standby - Total 1541
 Accessibility - MP/DST Disc't -
 Sub Total \$1541.00/-

Approved By Tim Priest Our Representative Mike Belack
 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. **63838**

Well Name & No. Eicker 1-8 Test No. 4 Date 8-3-17
 Company Val Energy Inc. Elevation 3363 KB 3358 GL
 Address 125 N. Market St. STE 1110 Wichita KS 67202
 Co. Rep / Geo. Tim Priest Rig LW2
 Location: Sec. 8 Twp. 8S Rge. 36W Co. Thomas State KS

Interval Tested 4660-4724 Zone Tested Cherokee-Johnson
 Anchor Length 64 Drill Pipe Run 4535 Mud Wt. 9.3
 Top Packer Depth 4655 Drill Collars Run 119 Vis 63
 Bottom Packer Depth 4660 Wt. Pipe Run φ WL 9.6
 Total Depth 4724 Chlorides 5000 ppm System LCM 1
 Blow Description IF: Built to 9" Blow
IS: No Return Blow
FF: BOB in 93 Min
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	Feet of <u>Free oil</u>	<u>100</u>			
<u>154</u>	Feet of <u>OCwm</u>	<u>2</u>	<u>24</u>	<u>74</u>	
<u>124</u>	Feet of <u>OCwm mcw</u>		<u>70</u>	<u>30</u>	
<u>119</u>	Feet of <u>mcw</u>		<u>80</u>	<u>20</u>	
	Feet of				

Rec Total 402 BHT 142 Gravity 25 API RW, 342 @ 63.3 °F Chlorides _____ ppm
 (A) Initial Hydrostatic 2551 Test \$1150.00/- T-On Location 23:15
 (B) First Initial Flow 42 Jars _____ T-Started 01:10
 (C) First Final Flow 125 Safety Joint _____ T-Open 03:40
 (D) Initial Shut-In 1454 Circ Sub NC T-Pulled ~~07:25~~ 07:25
 (E) Second Initial Flow 124 Hourly Standby _____ T-Out 09:47
 (F) Second Final Flow 214 Mileage 188RT = \$141.00/- 282 Comments Loaded Tools
 (G) Final Shut-In 1427 Sampler X2 at 04:00 8-4-17
 (H) Final Hydrostatic 2390 Straddle _____ Ruined Shale Packer _____
 Shale Packer \$250.00/- Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1682
 Accessibility 1682 MP/DST Disc't _____
 Sub Total \$1541.00/-

Approved By _____ Our Representative Mike Roberts
 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.