

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

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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Form	ACO1 - Well Completion
Operator	Val Energy, Inc.
Well Name	KOUGH MATTSON UNIT 1-4
Doc ID	1363568

All Electric Logs Run

Micro
Sonic
Porosity
Dual Induction

Form	ACO1 - Well Completion
Operator	Val Energy, Inc.
Well Name	KOUGH MATTSON UNIT 1-4
Doc ID	1363568

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4712-4715		4712-4715
4	4500-4504		4500-4504
0	CIBP		4650
4	4457-60		4457-60
4	4407-09		4407-09
4	4407-09, 4400-02		4407-09, 4400-02
4	4368-70		4368-70

Summary of Changes

Lease Name and Number: KOUGH MATTSON UNIT 1-4

API/Permit #: 15-193-20981-00-00

Doc ID: 1363568

Correction Number: 1

Approved By: Karen Ritter

Field Name	Previous Value	New Value
Approved Date	01/03/2017	08/17/2017
Date of First or Resumed Production or SWD or Enhr		1/26/2017
Perf_Depth_1	4712-4715	Attached
Perf_Depth_2	4500-4504	
Perf_Material_1		Attached
Perf_Record_1	4712-4715	Attached
Perf_Record_2	4500-4504	
Perf_Shots_1	4	Attached
Perf_Shots_2	4	
Producing Formation	Johnson & Altamont "B"	Altamont, PLEASANTON, STARK, MUNCIE

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Producing Method Pumping	No	Yes
Save Link	../../../../kcc/detail/operatorE ditDetail.cfm?docID=13 25827	../../../../kcc/detail/operatorE ditDetail.cfm?docID=13 63568



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

Kough Mattson Unit #1-4
4-8S-35W Thomas,KS
 Job Ticket: 58211 **DST#: 1**
 Test Start: 2016.12.03 @ 12:38:58

GENERAL INFORMATION:

Formation: **Lansing "A&B"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:50:28
 Time Test Ended: 23:04:28
 Interval: **4157.00 ft (KB) To 4201.00 ft (KB) (TVD)**
 Total Depth: 4201.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 3316.00 ft (KB)
 3311.00 ft (CF)
 KB to GR/CF: 5.00 ft

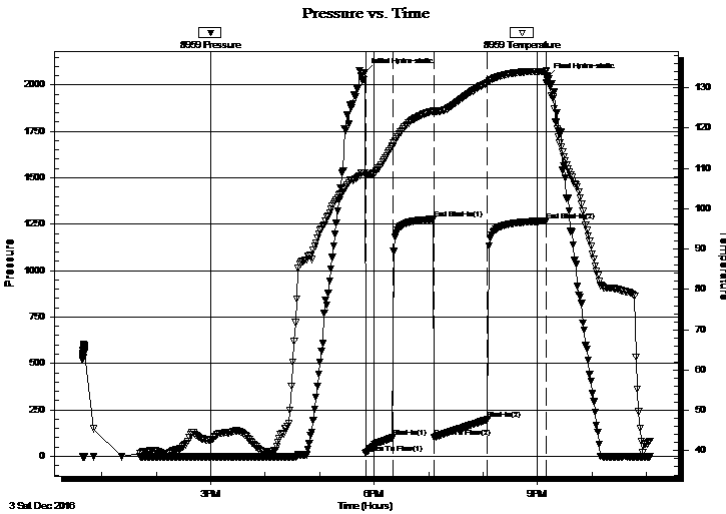
Serial #: 8959

Outside

Press@RunDepth: 198.26 psig @ 4158.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.12.03 End Date: 2016.12.03 Last Calib.: 2016.12.03
 Start Time: 12:38:59 End Time: 23:04:28 Time On Btm: 2016.12.03 @ 17:49:58
 Time Off Btm: 2016.12.03 @ 21:10:28

TEST COMMENT: 30- IF- BOB 22 mins
 45- IS- No blow
 60- FF- BOB 27 mins
 60- FS- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2067.14	108.91	Initial Hydro-static
1	15.66	108.14	Open To Flow (1)
31	100.74	115.67	Shut-In(1)
76	1276.71	124.25	End Shut-In(1)
77	104.23	123.91	Open To Flow (2)
135	198.26	131.25	Shut-In(2)
199	1268.08	133.99	End Shut-In(2)
201	2037.50	133.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
409.00	MW, 15%M 85%W	4.65

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 Priest

Kough Mattson Unit #1-4
4-8S-35W Thomas,KS
Job Ticket: 58211 **DST#: 1**
Test Start: 2016.12.03 @ 12:38:58

Tool Information

Drill Pipe:	Length: 4037.00 ft	Diameter: 3.82 inches	Volume: 57.23 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4157.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	64.00 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			4138.00	
Shut In Tool	5.00			4143.00	
Hydraulic tool	5.00			4148.00	
Packer	5.00			4153.00	20.00 Bottom Of Top Packer
Packer	4.00			4157.00	
Stubb	1.00			4158.00	
Recorder	0.00	6651	Inside	4158.00	
Recorder	0.00	8959	Outside	4158.00	
Perforations	7.00			4165.00	
Change Over Sub	1.00			4166.00	
Drill Pipe	31.00			4197.00	
Change Over Sub	1.00			4198.00	
Bullnose	3.00			4201.00	44.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy, Inc.

Kough Mattson Unit #1-4

125 N. Market St. Ste. 1110
Wichita, KS 67202

4-8S-35W Thomas,KS

Job Ticket: 58211

DST#: 1

ATTN: Tim Priest

Test Start: 2016.12.03 @ 12:38:58

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:

63000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
409.00	MW, 15%M 85%W	4.650

Total Length: 409.00 ft Total Volume: 4.650 bbl

Num Fluid Samples: 0

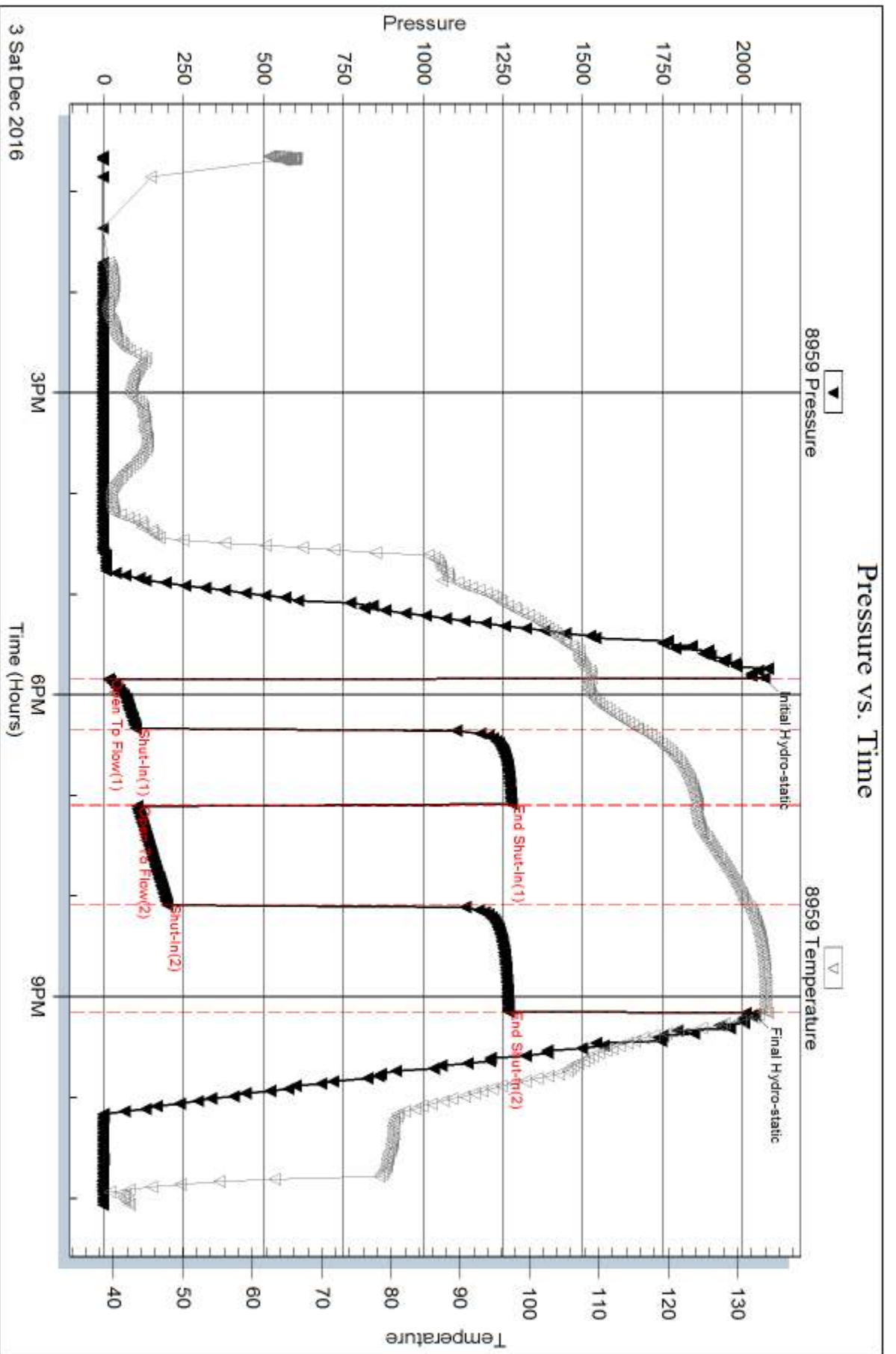
Num Gas Bombs: 0

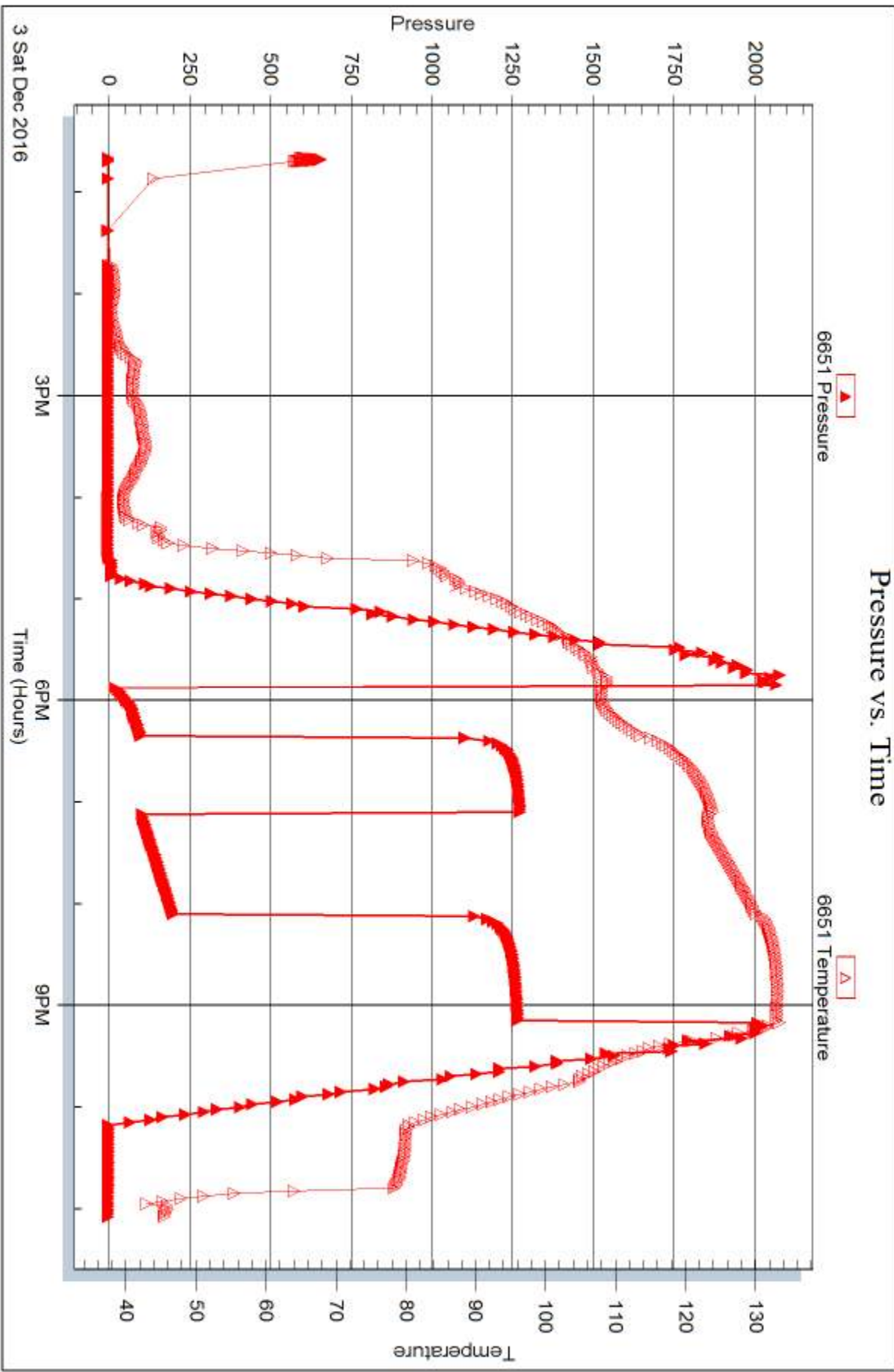
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .21@36deg







DRILL STEM TEST REPORT

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

125 N. Market St. Ste. 1110
Wichita, KS 67202

ATTN: Tim Priest

4-8S-35W Thomas,KS

Kough Mattson Unit #1-4

Start Date: 2016.12.04 @ 09:25:58

End Date: 2016.12.04 @ 17:01:58

Job Ticket #: 58212 DST #: 2

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

Printed: 2016.12.13 @ 09:06:50

Val Energy, Inc.
Kough Mattson Unit #1-4
4-8S-35W Thomas,KS
DST # 2
LKC "E&F"
2016.12.04



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

Kough Mattson Unit #1-4
4-8S-35W Thomas,KS
 Job Ticket: 58212 **DST#: 2**
 Test Start: 2016.12.04 @ 09:25:58

GENERAL INFORMATION:

Formation: **LKC "E&F"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 11:18:58
 Tester: Brannan Lonsdale
 Time Test Ended: 17:01:58
 Unit No: 73
Interval: 4239.00 ft (KB) To 4270.00 ft (KB) (TVD)
 Reference Elevations: 3316.00 ft (KB)
 Total Depth: 4270.00 ft (KB) (TVD) 3311.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

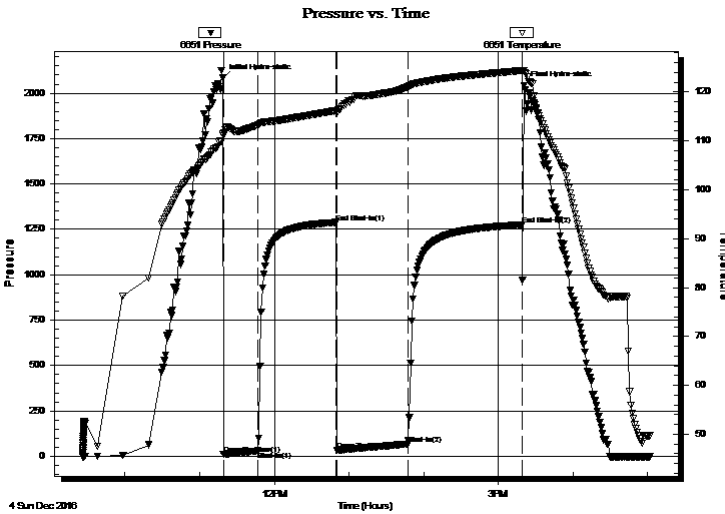
Serial #: 6651

Inside

Press@RunDepth: 66.00 psig @ 4240.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.12.04 End Date: 2016.12.04 Last Calib.: 2016.12.04
 Start Time: 09:25:59 End Time: 17:01:58 Time On Btm: 2016.12.04 @ 11:18:28
 Time Off Btm: 2016.12.04 @ 15:20:28

TEST COMMENT: 30- IF- Slow ly built to 1"
 60- IS- No blow
 60- FF- Slow ly built to 2 1/2"
 90- FS- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2082.83	111.41	Initial Hydro-static
1	10.24	111.13	Open To Flow (1)
28	28.85	113.20	Shut-In(1)
91	1288.12	116.19	End Shut-In(1)
92	31.66	115.80	Open To Flow (2)
149	66.00	121.01	Shut-In(2)
241	1274.54	124.41	End Shut-In(2)
242	2040.08	124.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MW w / show of oil in tool	0.61

* 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 Priest

Kough Mattson Unit #1-4
4-8S-35W Thomas,KS
Job Ticket: 58212 **DST#: 2**
Test Start: 2016.12.04 @ 09:25:58

Tool Information

Drill Pipe:	Length: 4100.00 ft	Diameter: 3.82 inches	Volume: 58.12 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	63000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	53000.00 lb
Drill Pipe Above KB:	5.00 ft			Final	53000.00 lb
Depth to Top Packer:	4239.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	31.00 ft				
Tool Length:	51.00 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			4220.00	
Shut In Tool	5.00			4225.00	
Hydraulic tool	5.00			4230.00	
Packer	5.00			4235.00	20.00 Bottom Of Top Packer
Packer	4.00			4239.00	
Stubb	1.00			4240.00	
Recorder	0.00	6651	Inside	4240.00	
Recorder	0.00	8959	Outside	4240.00	
Perforations	27.00			4267.00	
Bullnose	3.00			4270.00	31.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy, Inc.

Kough Mattson Unit #1-4

125 N. Market St. Ste. 1110
Wichita, KS 67202

4-8S-35W Thomas,KS

Job Ticket: 58212

DST#: 2

ATTN: Tim Priest

Test Start: 2016.12.04 @ 09:25:58

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:

42000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.75 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MW w/ show of oil in tool	0.610

Total Length: 124.00 ft Total Volume: 0.610 bbl

Num Fluid Samples: 0

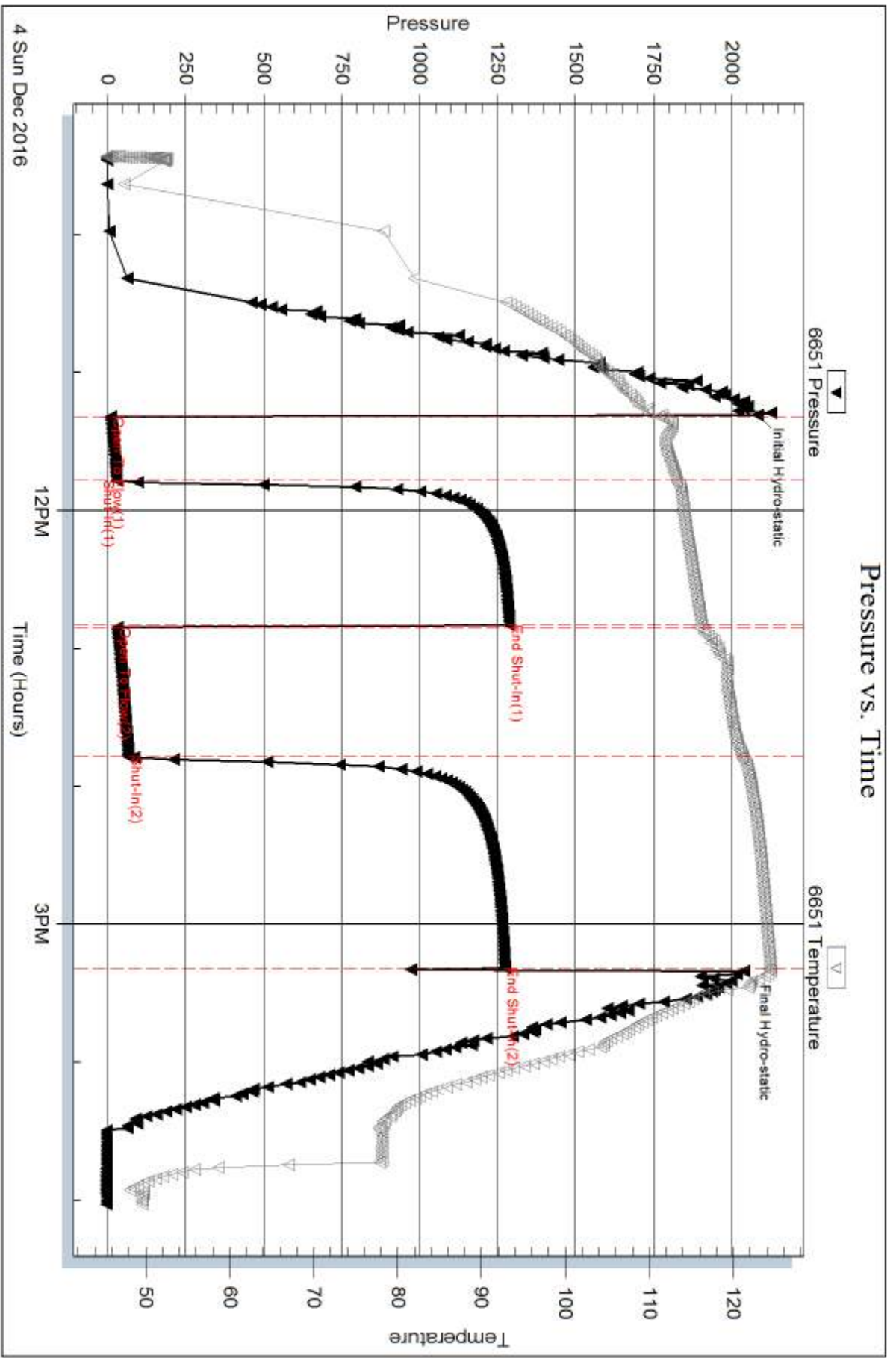
Num Gas Bombs: 0

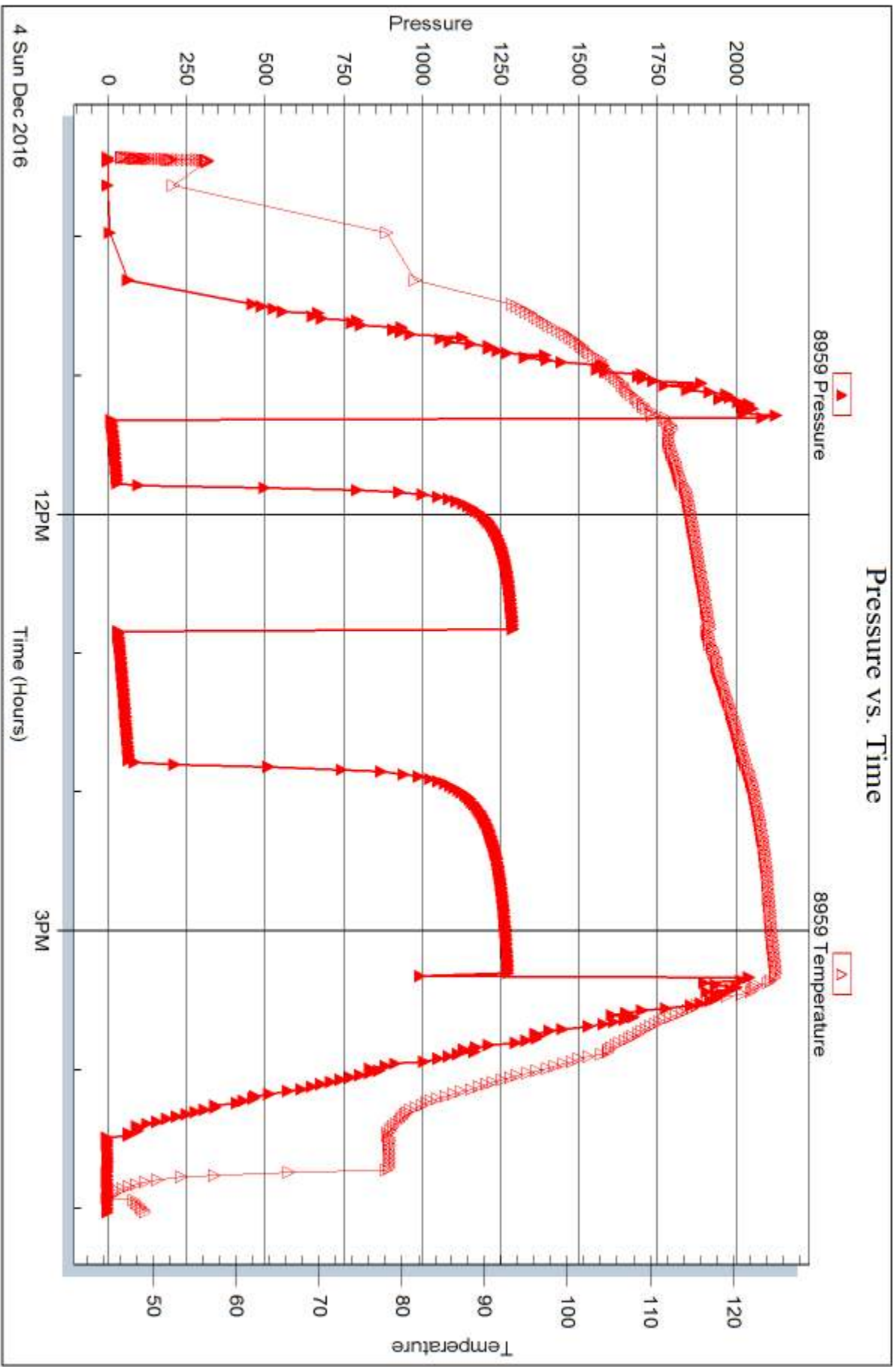
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .22@50deg







DRILL STEM TEST REPORT

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

125 N. Market St. Ste. 1110
Wichita, KS 67202

ATTN: Tim Priest

4-8S-35W Thomas,KS

Kough Mattson Unit #1-4

Start Date: 2016.12.05 @ 06:07:36

End Date: 2016.12.05 @ 13:47:36

Job Ticket #: 58213 DST #: 3

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

Printed: 2016.12.13 @ 09:06:29

Val Energy, Inc.
Kough Mattson Unit #1-4
4-8S-35W Thomas,KS
DST # 3
LKC "J"
2016.12.05



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

Kough Mattson Unit #1-4
4-8S-35W Thomas,KS
 Job Ticket: 58213 **DST#: 3**
 Test Start: 2016.12.05 @ 06:07:36

GENERAL INFORMATION:

Formation: **LKC "J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:49:36
 Time Test Ended: 13:47:36
 Interval: **4362.00 ft (KB) To 4380.00 ft (KB) (TVD)**
 Total Depth: 4380.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 3316.00 ft (KB)
 3311.00 ft (CF)
 KB to GR/CF: 5.00 ft

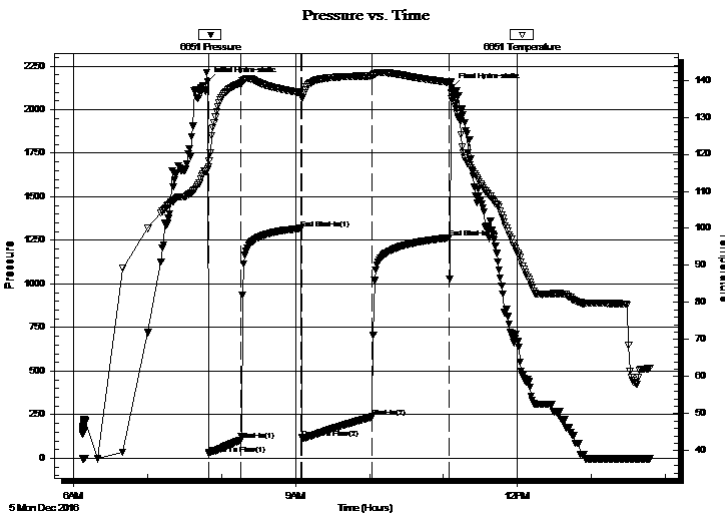
Serial #: 6651

Inside

Press@RunDepth: 237.04 psig @ 4363.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.12.05 End Date: 2016.12.05 Last Calib.: 2016.12.05
 Start Time: 06:07:37 End Time: 13:47:36 Time On Btm: 2016.12.05 @ 07:49:06
 Time Off Btm: 2016.12.05 @ 11:06:36

TEST COMMENT: 30- IF- BOB 3 mins
 45- IS- BOB 11 mins
 60- FF- BOB instantly
 60- FSI- BOB 14 mins

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2160.24	115.97	Initial Hydro-static
1	25.09	116.58	Open To Flow (1)
27	104.17	139.16	Shut-In(1)
75	1318.45	136.57	End Shut-In(1)
76	116.25	135.34	Open To Flow (2)
133	237.04	141.16	Shut-In(2)
196	1264.85	139.42	End Shut-In(2)
198	2127.62	134.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GMCO, 20%G 15%M 65%O	0.61
508.00	CGO, 25%G 75%O	7.20
0.00	1650' 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 Priest

Kough Mattson Unit #1-4
4-8S-35W Thomas,KS
Job Ticket: 58213 **DST#: 3**
Test Start: 2016.12.05 @ 06:07:36

Tool Information

Drill Pipe:	Length: 4227.00 ft	Diameter: 3.82 inches	Volume: 59.92 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 64000.00 lb
		Total Volume: - bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4362.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	38.00 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			4343.00	
Shut In Tool	5.00			4348.00	
Hydraulic tool	5.00			4353.00	
Packer	5.00			4358.00	20.00 Bottom Of Top Packer
Packer	4.00			4362.00	
Stubb	1.00			4363.00	
Recorder	0.00	6651	Inside	4363.00	
Recorder	0.00	8959	Outside	4363.00	
Perforations	14.00			4377.00	
Bullnose	3.00			4380.00	18.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy, Inc.

Kough Mattson Unit #1-4

125 N. Market St. Ste. 1110
Wichita, KS 67202

4-8S-35W Thomas,KS

Job Ticket: 58213

DST#: 3

ATTN: Tim Priest

Test Start: 2016.12.05 @ 06:07:36

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	GMCO, 20%G 15%M 65%O	0.610
508.00	CGO, 25%G 75%O	7.201
0.00	1650' GIP	0.000

Total Length: 632.00 ft

Total Volume: 7.811 bbl

Num Fluid Samples: 0

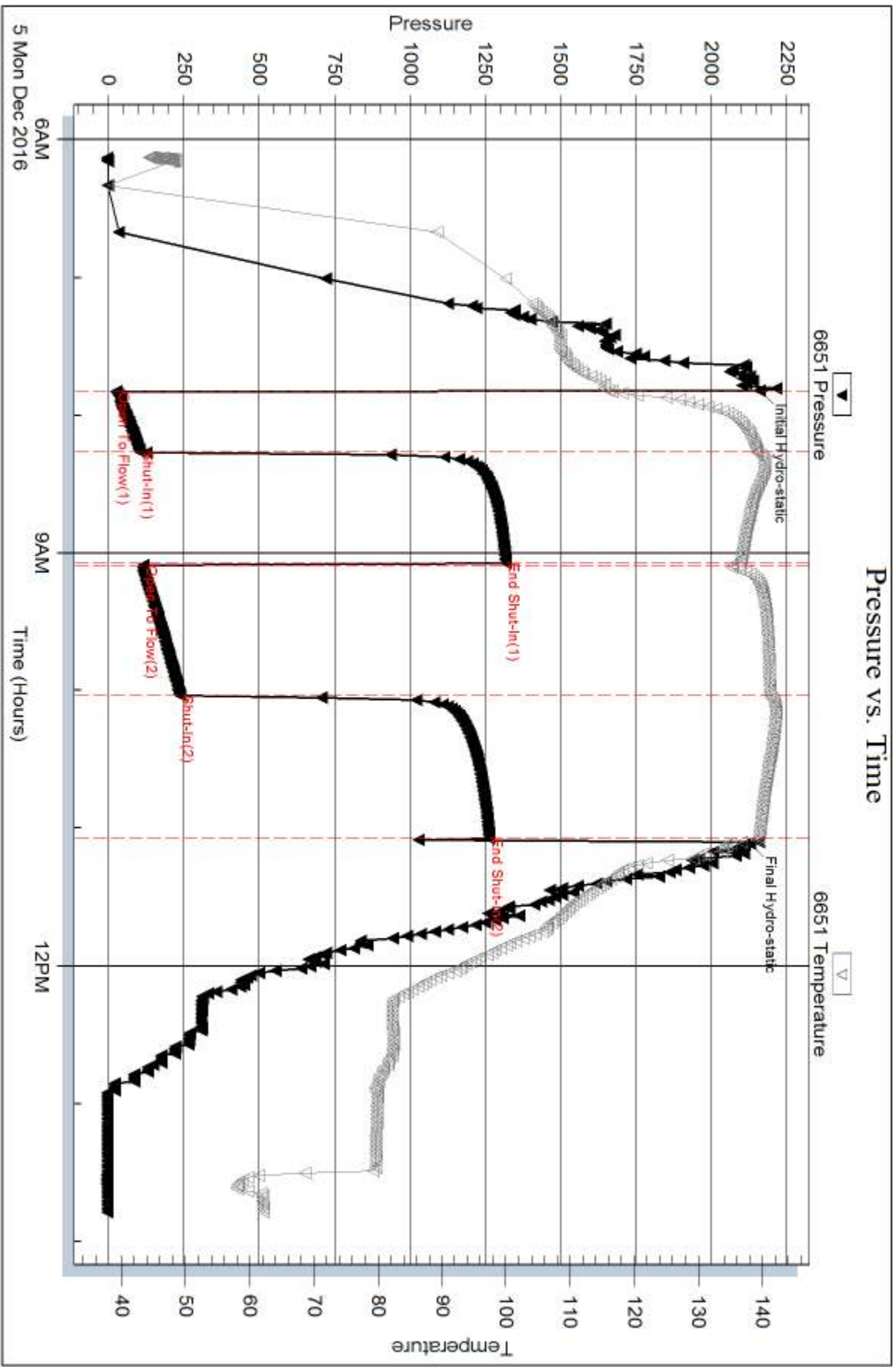
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

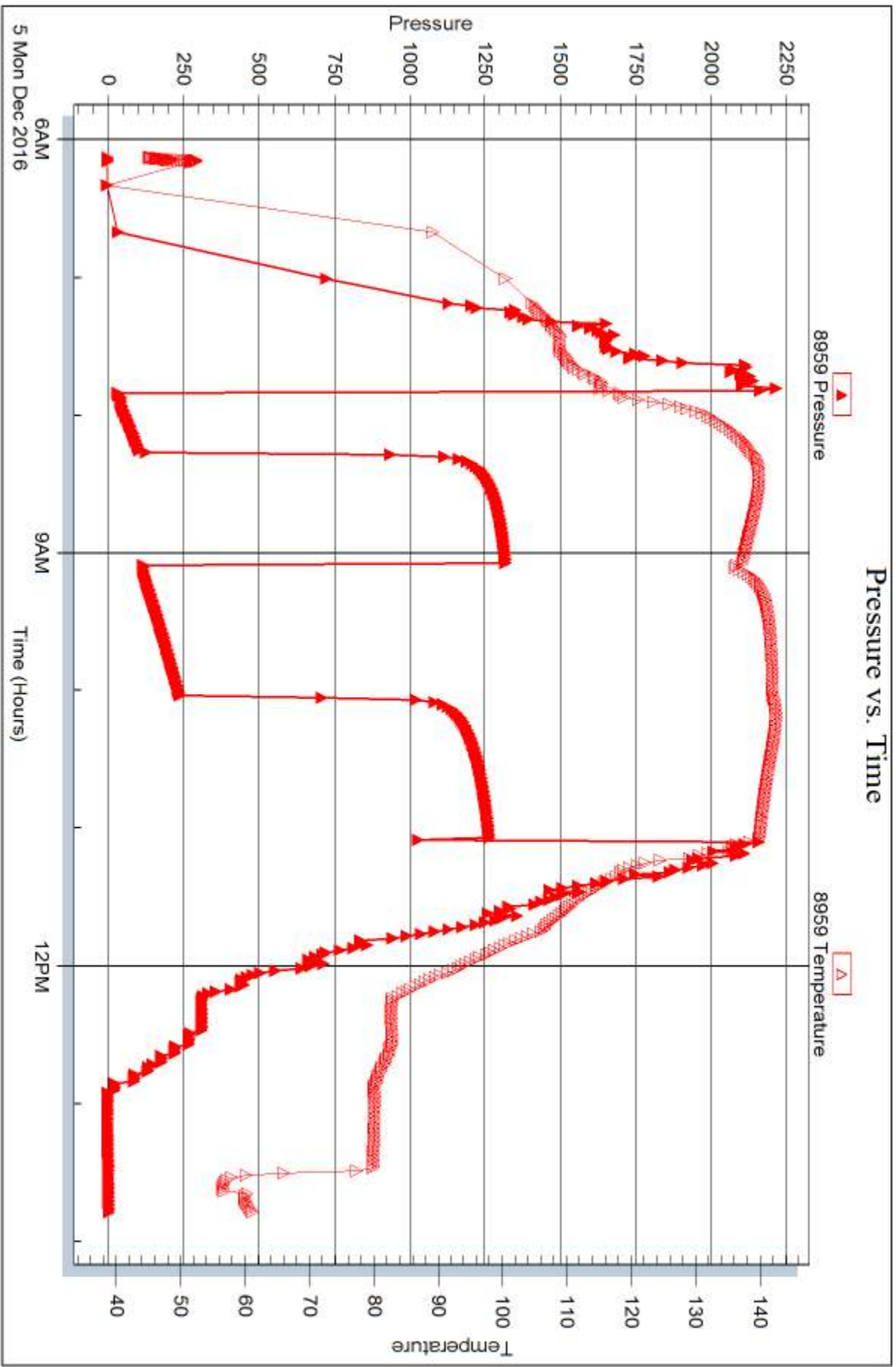


Serial #: 8959

Outside Val Energy, Inc.

4-8S-35W Thomas, KS

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

4-8S-35W Thomas,KS

Kough Mattson Unit #1-4

Start Date: 2016.12.05 @ 20:43:37

End Date: 2016.12.06 @ 03:52:07

Job Ticket #: 58214 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.12.13 @ 09:05:59



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

Kough Mattson Unit #1-4
4-8S-35W Thomas,KS
 Job Ticket: 58214 **DST#: 4**
 Test Start: 2016.12.05 @ 20:43:37

GENERAL INFORMATION:

Formation: **LKC "K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:45:07
 Time Test Ended: 03:52:07
 Interval: **4380.00 ft (KB) To 4410.00 ft (KB) (TVD)**
 Total Depth: 4410.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 3316.00 ft (KB)
 3311.00 ft (CF)
 KB to GR/CF: 5.00 ft

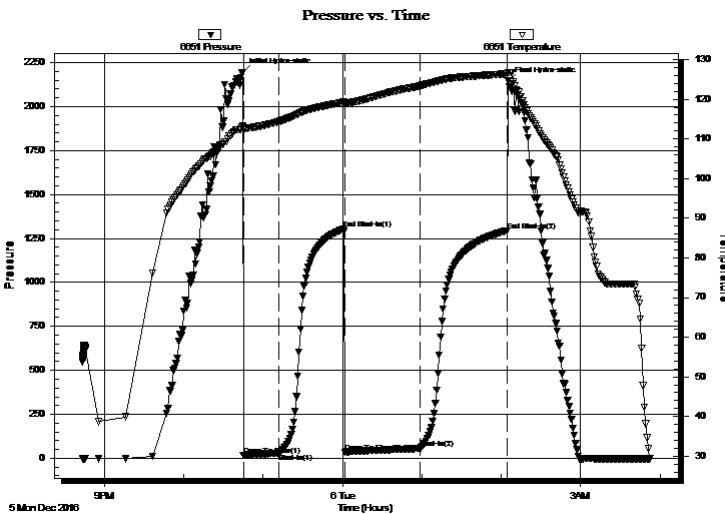
Serial #: 6651

Inside

Press@RunDepth: 56.21 psig @ 4381.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.12.05 End Date: 2016.12.06 Last Calib.: 2016.12.06
 Start Time: 20:43:38 End Time: 03:52:07 Time On Btm: 2016.12.05 @ 22:44:37
 Time Off Btm: 2016.12.06 @ 02:05:07

TEST COMMENT: 30- IF- Slow ly built to 4"
 45- IS- No blow
 60- FF- Slow ly built to 5"
 60- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2194.39	113.29	Initial Hydro-static
1	15.21	112.54	Open To Flow (1)
27	29.59	114.35	Shut-In(1)
76	1302.71	119.25	End Shut-In(1)
78	33.30	118.94	Open To Flow (2)
134	56.21	123.38	Shut-In(2)
200	1293.64	126.40	End Shut-In(2)
201	2144.85	126.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	OCM, 25%O 75%M	0.30
31.00	GMCO, 10%G 45%M 45%O	0.15
0.00	31' 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.

Kough Mattson Unit #1-4

125 N. Market St. Ste. 1110
Wichita, KS 67202

4-8S-35W Thomas,KS

Job Ticket: 58214

DST#: 4

ATTN: Tim Priest

Test Start: 2016.12.05 @ 20:43:37

Tool Information

Drill Pipe:	Length: 4259.00 ft	Diameter: 3.82 inches	Volume: 60.37 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	52000.00 lb
Drill Pipe Above KB:	23.00 ft			Final	52000.00 lb
Depth to Top Packer:	4380.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	50.00 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			4361.00	
Shut In Tool	5.00			4366.00	
Hydraulic tool	5.00			4371.00	
Packer	5.00			4376.00	20.00 Bottom Of Top Packer
Packer	4.00			4380.00	
Stubb	1.00			4381.00	
Recorder	0.00	6651	Inside	4381.00	
Recorder	0.00	8959	Outside	4381.00	
Perforations	26.00			4407.00	
Bullnose	3.00			4410.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy, Inc.

Kough Mattson Unit #1-4

125 N. Market St. Ste. 1110
Wichita, KS 67202

4-8S-35W Thomas,KS

Job Ticket: 58214

DST#: 4

ATTN: Tim Priest

Test Start: 2016.12.05 @ 20:43:37

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	OCM, 25%O 75%M	0.305
31.00	GMCO, 10%G 45%M 45%O	0.152
0.00	31' GIP	0.000

Total Length: 93.00 ft Total Volume: 0.457 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

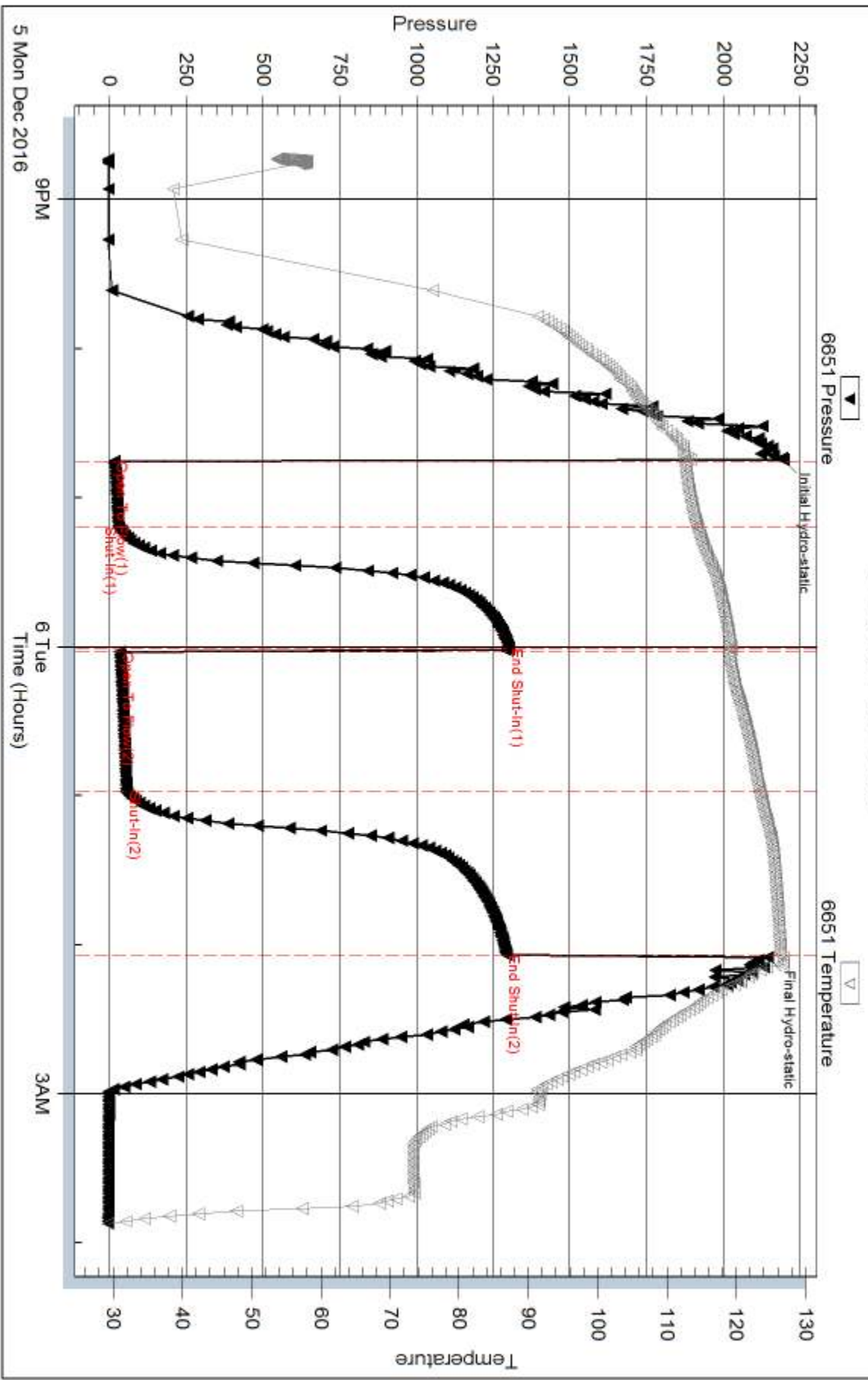
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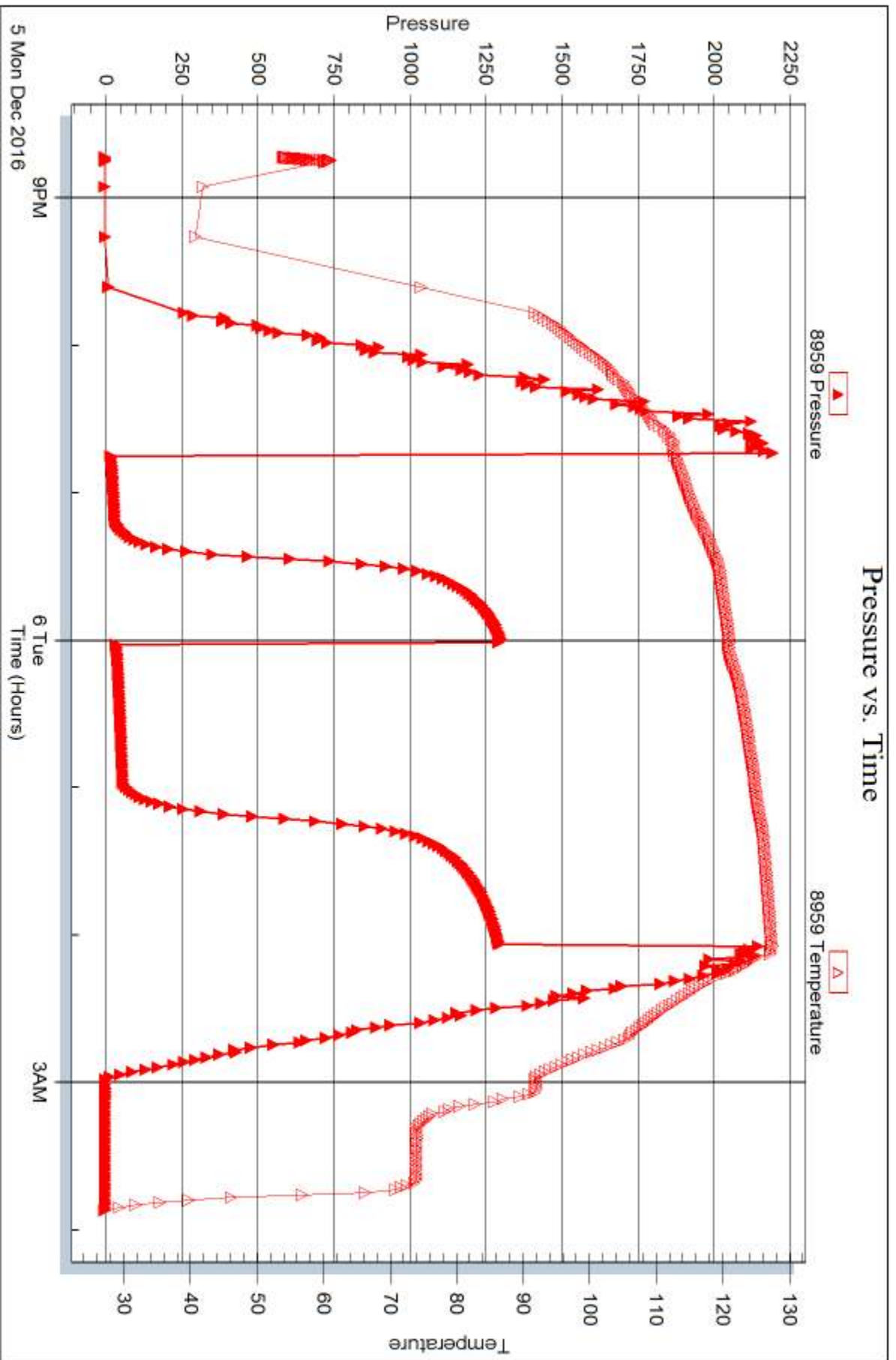
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

125 N. Market St. Ste. 1110
Wichita, KS 67202

ATTN: Tim Priest

4-8S-35W Thomas,KS

Kough Mattson Unit #1-4

Start Date: 2016.12.06 @ 16:44:08

End Date: 2016.12.07 @ 01:03:08

Job Ticket #: 58215 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.12.13 @ 09:05:37



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

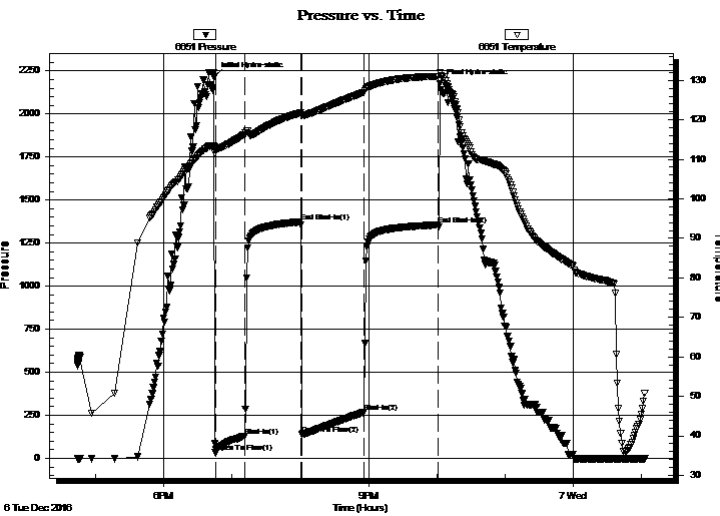
Kough Mattson Unit #1-4
4-8S-35W Thomas,KS
 Job Ticket: 58215 **DST#: 5**
 Test Start: 2016.12.06 @ 16:44:08

GENERAL INFORMATION:

Formation: **Pleasanton- Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:45:08
 Time Test Ended: 01:03:08
 Interval: **4441.00 ft (KB) To 4515.00 ft (KB) (TVD)**
 Total Depth: 4515.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 3316.00 ft (KB)
 3311.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6651 Inside
 Press@RunDepth: 266.47 psig @ 4442.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.12.06 End Date: 2016.12.07 Last Calib.: 2016.12.07
 Start Time: 16:44:09 End Time: 01:03:08 Time On Btm: 2016.12.06 @ 18:44:08
 Time Off Btm: 2016.12.06 @ 22:02:38

TEST COMMENT: 30- IF- BOB 4 mins
 45- IS- Slowly built to 9 1/2"
 60- FF- BOB 3 mins
 60- FS- BOB 7 mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2214.21	113.21	Initial Hydro-static
1	31.99	112.59	Open To Flow (1)
27	128.86	116.32	Shut-In(1)
76	1372.22	121.78	End Shut-In(1)
78	140.73	121.12	Open To Flow (2)
132	266.47	126.94	Shut-In(2)
197	1355.41	131.03	End Shut-In(2)
199	2177.50	132.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
187.00	GOCM, 30%G 25%O 45%M	1.50
190.00	GMCO, 10%G 25%M 65%O	2.69
222.00	CGO, 15%G 85%O	3.15
0.00	2633' 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 Priest

Kough Mattson Unit #1-4
4-8S-35W Thomas,KS
Job Ticket: 58215 **DST#: 5**
Test Start: 2016.12.06 @ 16:44:08

Tool Information

Drill Pipe:	Length: 4321.00 ft	Diameter: 3.82 inches	Volume: 61.25 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4441.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	94.00 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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Change Over Sub	1.00			4422.00	
Shut In Tool	5.00			4427.00	
Hydraulic tool	5.00			4432.00	
Packer	5.00			4437.00	20.00 Bottom Of Top Packer
Packer	4.00			4441.00	
Stubb	1.00			4442.00	
Recorder	0.00	6651	Inside	4442.00	
Recorder	0.00	8959	Outside	4442.00	
Perforations	5.00			4447.00	
Change Over Sub	1.00			4448.00	
Drill Pipe	63.00			4511.00	
Change Over Sub	1.00			4512.00	
Bullnose	3.00			4515.00	74.00 Bottom Packers & Anchor

Total Tool Length: 94.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy, Inc.

Kough Mattson Unit #1-4

125 N. Market St. Ste. 1110
Wichita, KS 67202

4-8S-35W Thomas,KS

Job Ticket: 58215

DST#: 5

ATTN: Tim Priest

Test Start: 2016.12.06 @ 16:44:08

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 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 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
187.00	GOCM, 30%G 25%O 45%M	1.503
190.00	GMCO, 10%G 25%M 65%O	2.693
222.00	CGO, 15%G 85%O	3.147
0.00	2633' GIP	0.000

Total Length: 599.00 ft

Total Volume: 7.343 bbl

Num Fluid Samples: 0

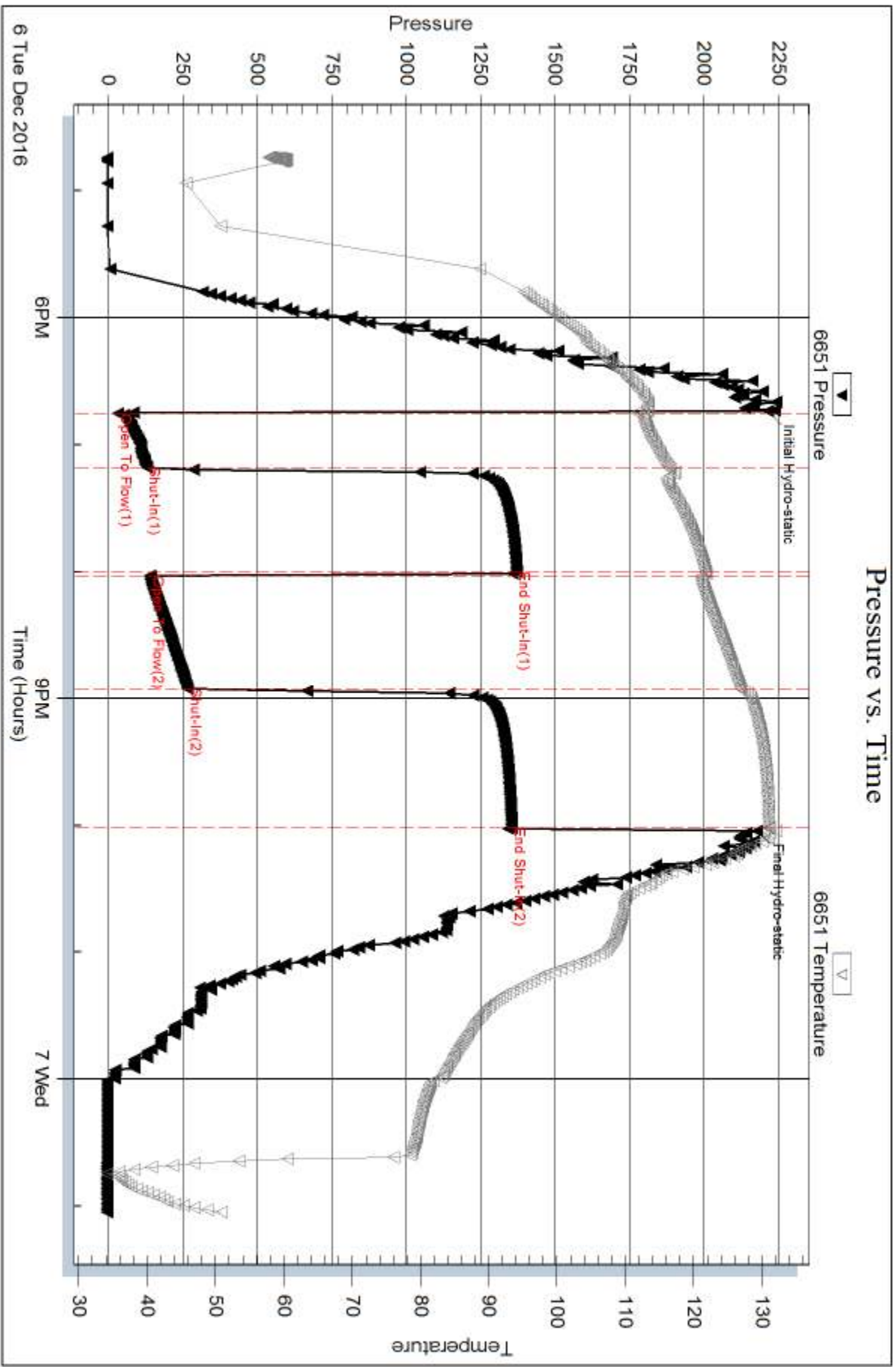
Num Gas Bombs: 0

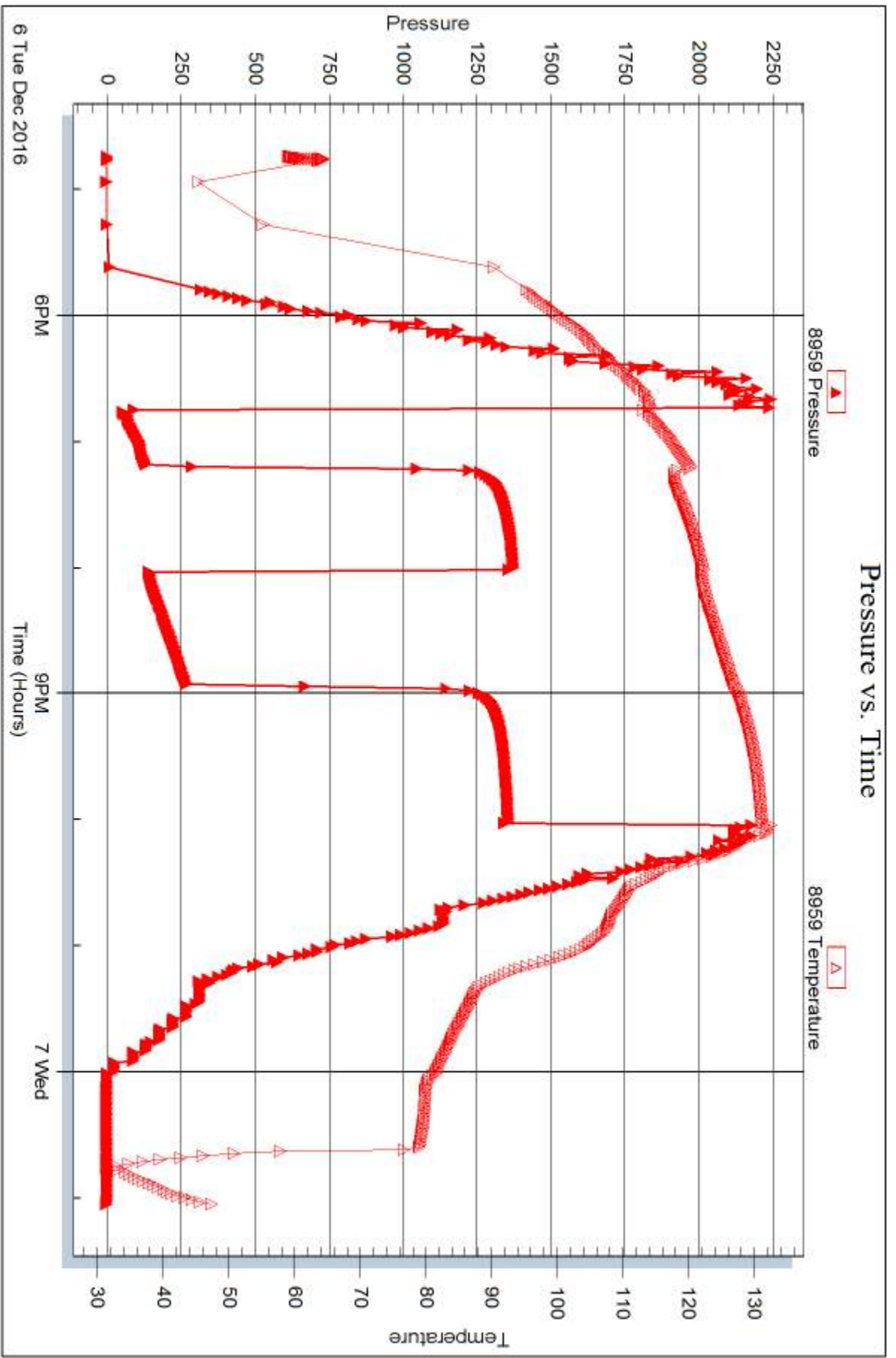
Serial #:

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 Priest

4-8S-35W Thomas,KS

Kough Mattson Unit #1-4

Start Date: 2016.12.07 @ 12:10:02

End Date: 2016.12.07 @ 20:07:32

Job Ticket #: 58216 DST #: 6

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

Printed: 2016.12.13 @ 09:05:11



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

Kough Mattson Unit #1-4
4-8S-35W Thomas,KS
 Job Ticket: 58216 **DST#: 6**
 Test Start: 2016.12.07 @ 12:10:02

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 14:11:32
 Tester: Brannan Lonsdale
 Time Test Ended: 20:07:32
 Unit No: 73
 Interval: **4556.00 ft (KB) To 4590.00 ft (KB) (TVD)**
 Reference Elevations: 3316.00 ft (KB)
 Total Depth: 4590.00 ft (KB) (TVD)
 3311.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

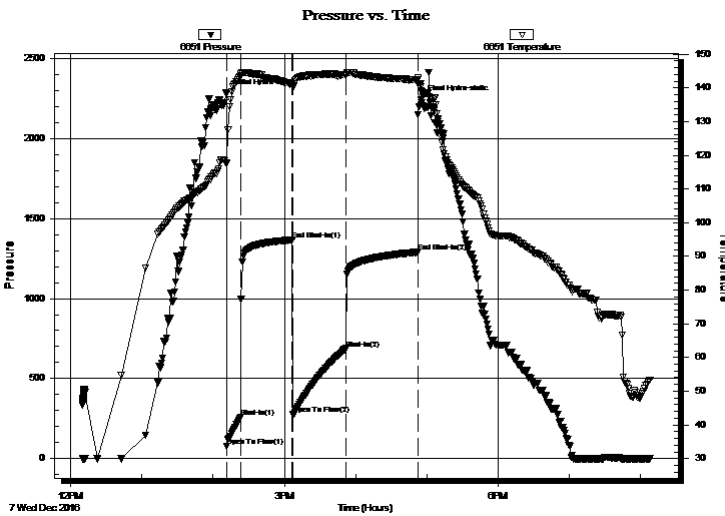
Serial #: 6651

Inside

Press@RunDepth: 685.80 psig @ 4557.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.12.07 End Date: 2016.12.07 Last Calib.: 2016.12.07
 Start Time: 12:10:03 End Time: 20:07:32 Time On Btm: 2016.12.07 @ 14:11:02
 Time Off Btm: 2016.12.07 @ 16:55:02

TEST COMMENT: 10- IF- BOB 1 min
 45- IS- Slow ly built to 2"
 45- FF- BOB 3 mins
 60- FS- Slow ly built to 4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2284.66	117.86	Initial Hydro-static
1	73.13	117.55	Open To Flow (1)
12	256.60	143.48	Shut-In(1)
56	1366.88	141.23	End Shut-In(1)
56	273.34	140.51	Open To Flow (2)
101	685.80	143.97	Shut-In(2)
161	1290.53	142.39	End Shut-In(2)
164	2242.86	139.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1473.00	MW, 20%M 80%W	19.73
15.00	CO	0.21
0.00	2960' 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.

Kough Mattson Unit #1-4

125 N. Market St. Ste. 1110
Wichita, KS 67202

4-8S-35W Thomas,KS

Job Ticket: 58216

DST#: 6

ATTN: Tim Priest

Test Start: 2016.12.07 @ 12:10:02

Tool Information

Drill Pipe:	Length: 4448.00 ft	Diameter: 3.82 inches	Volume: 63.05 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
			- bbl	String Weight: Initial	55000.00 lb
Drill Pipe Above KB:	36.00 ft			Final	60000.00 lb
Depth to Top Packer:	4556.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	34.00 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			4537.00	
Shut In Tool	5.00			4542.00	
Hydraulic tool	5.00			4547.00	
Packer	5.00			4552.00	20.00 Bottom Of Top Packer
Packer	4.00			4556.00	
Stubb	1.00			4557.00	
Recorder	0.00	6651	Inside	4557.00	
Recorder	0.00	8959	Outside	4557.00	
Perforations	30.00			4587.00	
Bullnose	3.00			4590.00	34.00 Bottom Packers & Anchor
Total Tool Length:	54.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy, Inc.

Kough Mattson Unit #1-4

125 N. Market St. Ste. 1110
Wichita, KS 67202

4-8S-35W Thomas,KS

Job Ticket: 58216

DST#: 6

ATTN: Tim Priest

Test Start: 2016.12.07 @ 12:10:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

72000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1473.00	MW, 20%M 80%W	19.732
15.00	CO	0.213
0.00	2960' GIP	0.000

Total Length: 1488.00 ft Total Volume: 19.945 bbl

Num Fluid Samples: 0

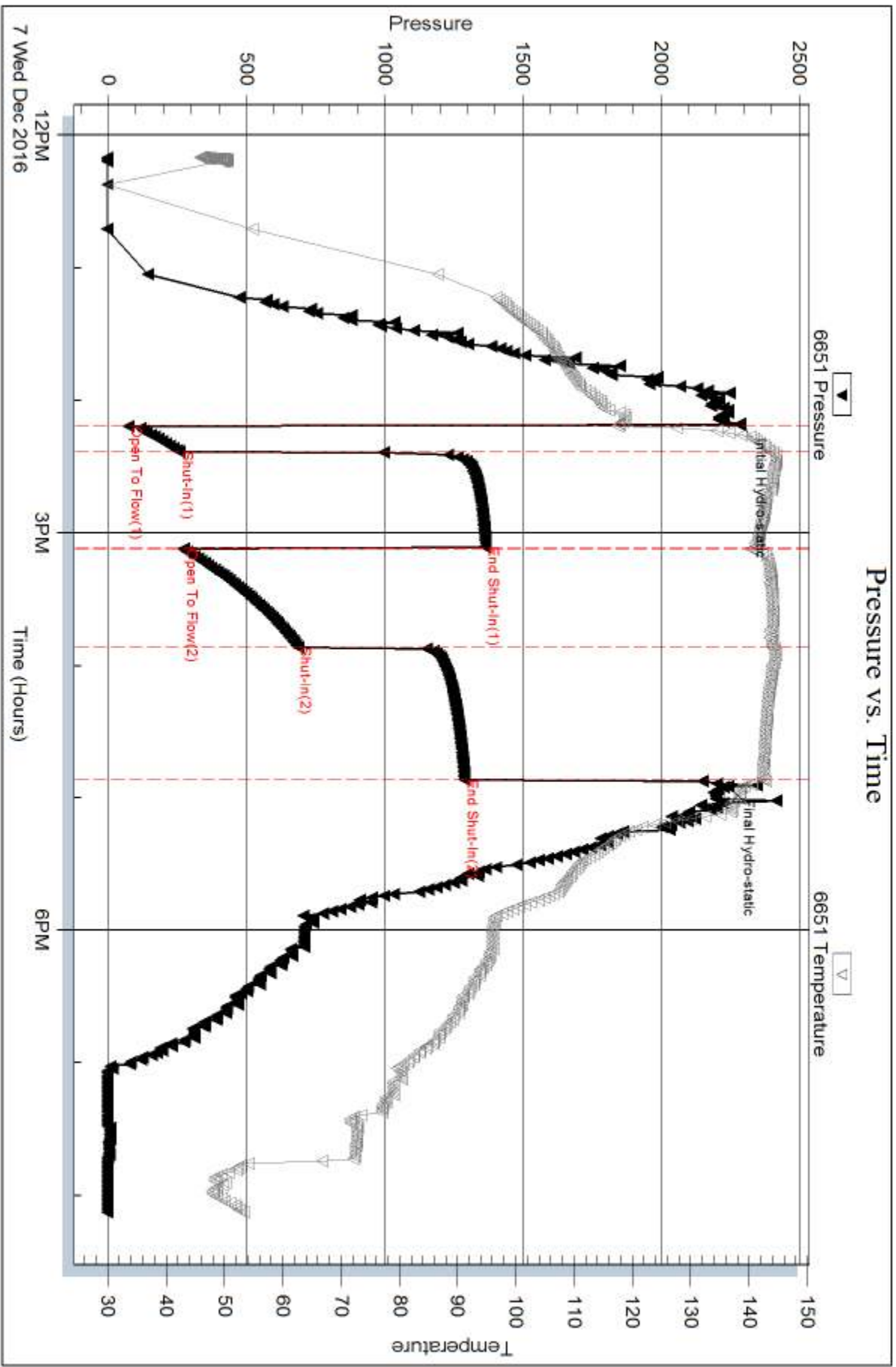
Num Gas Bombs: 0

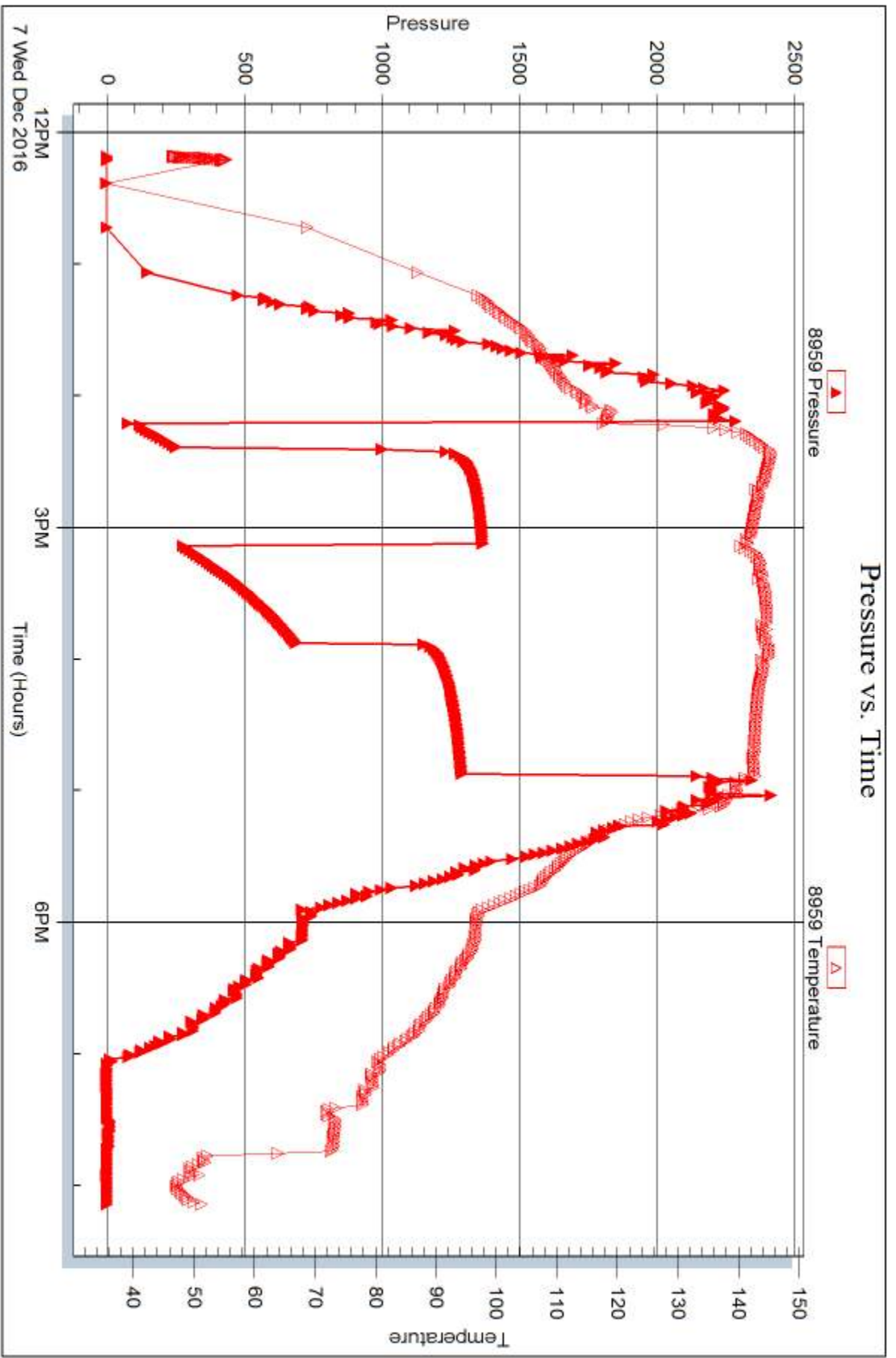
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .23@29deg







DRILL STEM TEST REPORT

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

125 N. Market St. Ste. 1110
Wichita, KS 67202

ATTN: Tim Priest

4-8S-35W Thomas,KS

Kough Mattson Unit #1-4

Start Date: 2016.12.08 @ 05:59:24

End Date: 2016.12.08 @ 12:30:24

Job Ticket #: 58217 DST #: 7

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

Printed: 2016.12.13 @ 09:03:26



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

Kough Mattson Unit #1-4
4-8S-35W Thomas,KS
 Job Ticket: 58217 **DST#: 7**
 Test Start: 2016.12.08 @ 05:59:24

GENERAL INFORMATION:

Formation: **Myric & Ft. Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:58:24
 Time Test Ended: 12:30:24
 Interval: **4586.00 ft (KB) To 4650.00 ft (KB) (TVD)**
 Total Depth: 4650.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 3316.00 ft (KB)
 3311.00 ft (CF)
 KB to GR/CF: 5.00 ft

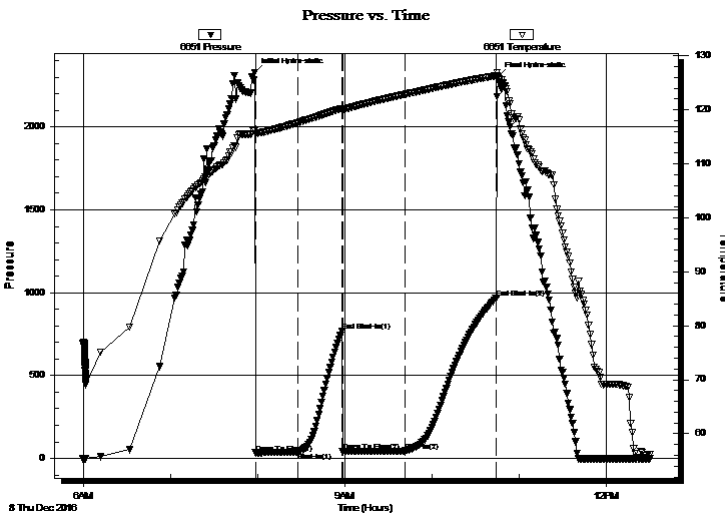
Serial #: 6651

Inside

Press@RunDepth: 45.39 psig @ 4587.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.12.08 End Date: 2016.12.08 Last Calib.: 2016.12.08
 Start Time: 05:59:25 End Time: 12:30:24 Time On Btm: 2016.12.08 @ 07:57:54
 Time Off Btm: 2016.12.08 @ 10:45:24

TEST COMMENT: 30- IF- Slowly built to 2"
 30- IS- No blow
 45- FF- No blow
 60- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2329.64	116.15	Initial Hydro-static
1	32.98	115.55	Open To Flow (1)
30	38.27	117.61	Shut-In(1)
60	767.73	120.24	End Shut-In(1)
61	39.78	119.70	Open To Flow (2)
104	45.39	122.87	Shut-In(2)
167	968.81	126.35	End Shut-In(2)
168	2304.34	126.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	M	0.15

* 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 Priest

Kough Mattson Unit #1-4
4-8S-35W Thomas,KS
Job Ticket: 58217 **DST#: 7**
Test Start: 2016.12.08 @ 05:59:24

Tool Information

Drill Pipe:	Length: 4447.00 ft	Diameter: 3.82 inches	Volume: 63.04 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4586.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	84.00 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			4567.00	
Shut In Tool	5.00			4572.00	
Hydraulic tool	5.00			4577.00	
Packer	5.00			4582.00	20.00 Bottom Of Top Packer
Packer	4.00			4586.00	
Stubb	1.00			4587.00	
Recorder	0.00	6651	Inside	4587.00	
Recorder	0.00	6839	Outside	4587.00	
Perforations	27.00			4614.00	
Change Over Sub	1.00			4615.00	
Drill Pipe	31.00			4646.00	
Change Over Sub	1.00			4647.00	
Bullnose	3.00			4650.00	64.00 Bottom Packers & Anchor

Total Tool Length: 84.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy, Inc.

Kough Mattson Unit #1-4

125 N. Market St. Ste. 1110
Wichita, KS 67202

4-8S-35W Thomas,KS

Job Ticket: 58217

DST#: 7

ATTN: Tim Priest

Test Start: 2016.12.08 @ 05:59:24

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	M	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6651

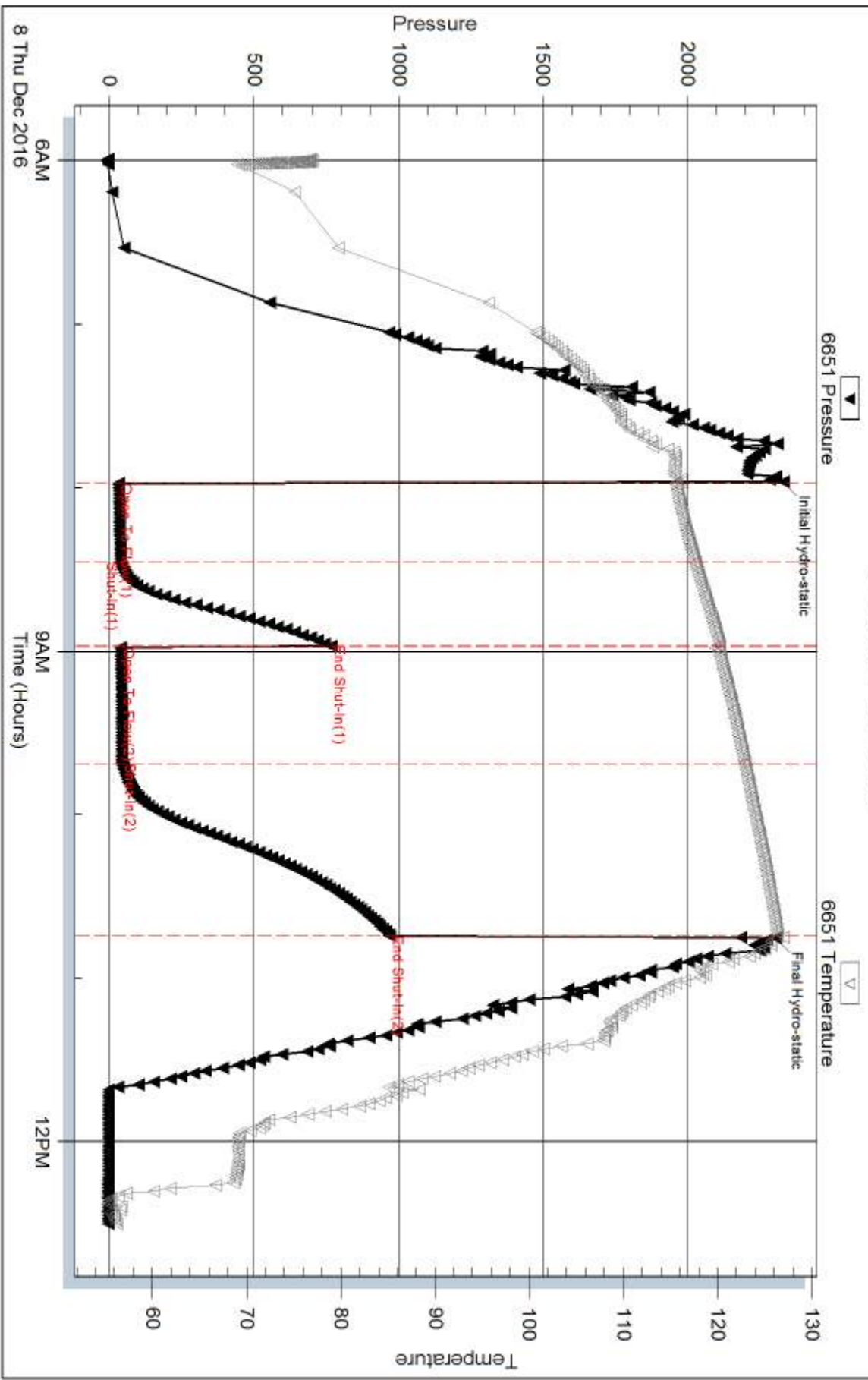
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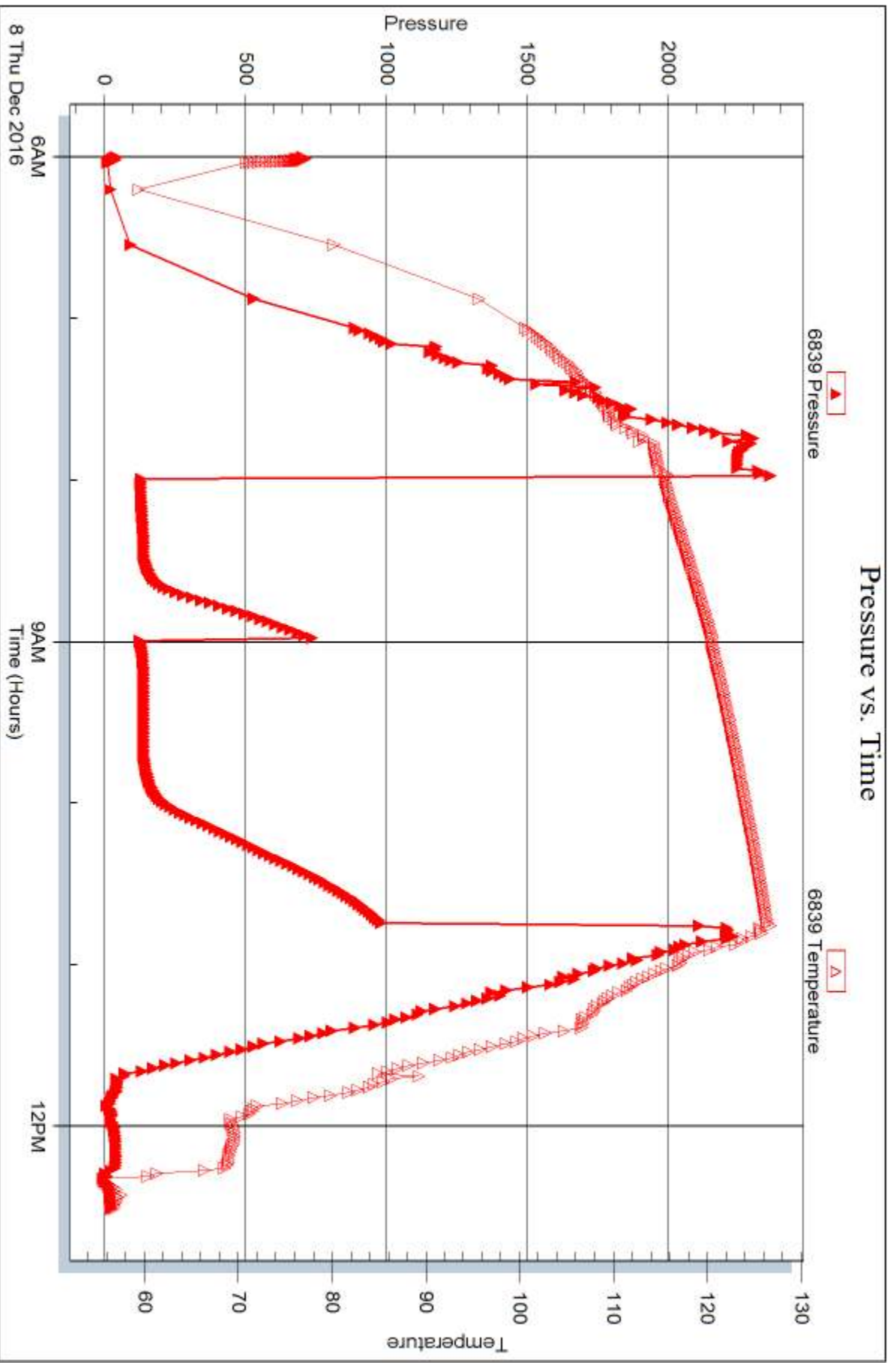
Val Energy, Inc.

4-8S-35W Thomas, KS

DST Test Number: 7

Pressure vs. Time







DRILL STEM TEST REPORT

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

125 N. Market St. Ste. 1110
Wichita, KS 67202

ATTN: Tim Priest

4-8S-35W Thomas,KS

Kough Mattson Unit #1-4

Start Date: 2016.12.08 @ 20:16:15

End Date: 2016.12.09 @ 02:57:45

Job Ticket #: 58218 DST #: 8

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

Printed: 2016.12.13 @ 08:08:00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Val Energy, Inc.

Kough Mattson Unit #1-4

125 N. Market St. Ste. 1110
Wichita, KS 67202

4-8S-35W Thomas,KS

Job Ticket: 58218

DST#: 8

ATTN: Tim Priest

Test Start: 2016.12.08 @ 20:16:15

Tool Information

Drill Pipe:	Length: 4511.00 ft	Diameter: 3.82 inches	Volume: 63.95 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4650.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 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			4631.00	
Shut In Tool	5.00			4636.00	
Hydraulic tool	5.00			4641.00	
Packer	5.00			4646.00	20.00 Bottom Of Top Packer
Packer	4.00			4650.00	
Stubb	1.00			4651.00	
Recorder	0.00	6651	Inside	4651.00	
Recorder	0.00	8959	Outside	4651.00	
Perforations	21.00			4672.00	
Bullnose	3.00			4675.00	25.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy, Inc.

Kough Mattson Unit #1-4

125 N. Market St. Ste. 1110
Wichita, KS 67202

4-8S-35W Thomas,KS

Job Ticket: 58218

DST#: 8

ATTN: Tim Priest

Test Start: 2016.12.08 @ 20:16:15

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	M	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

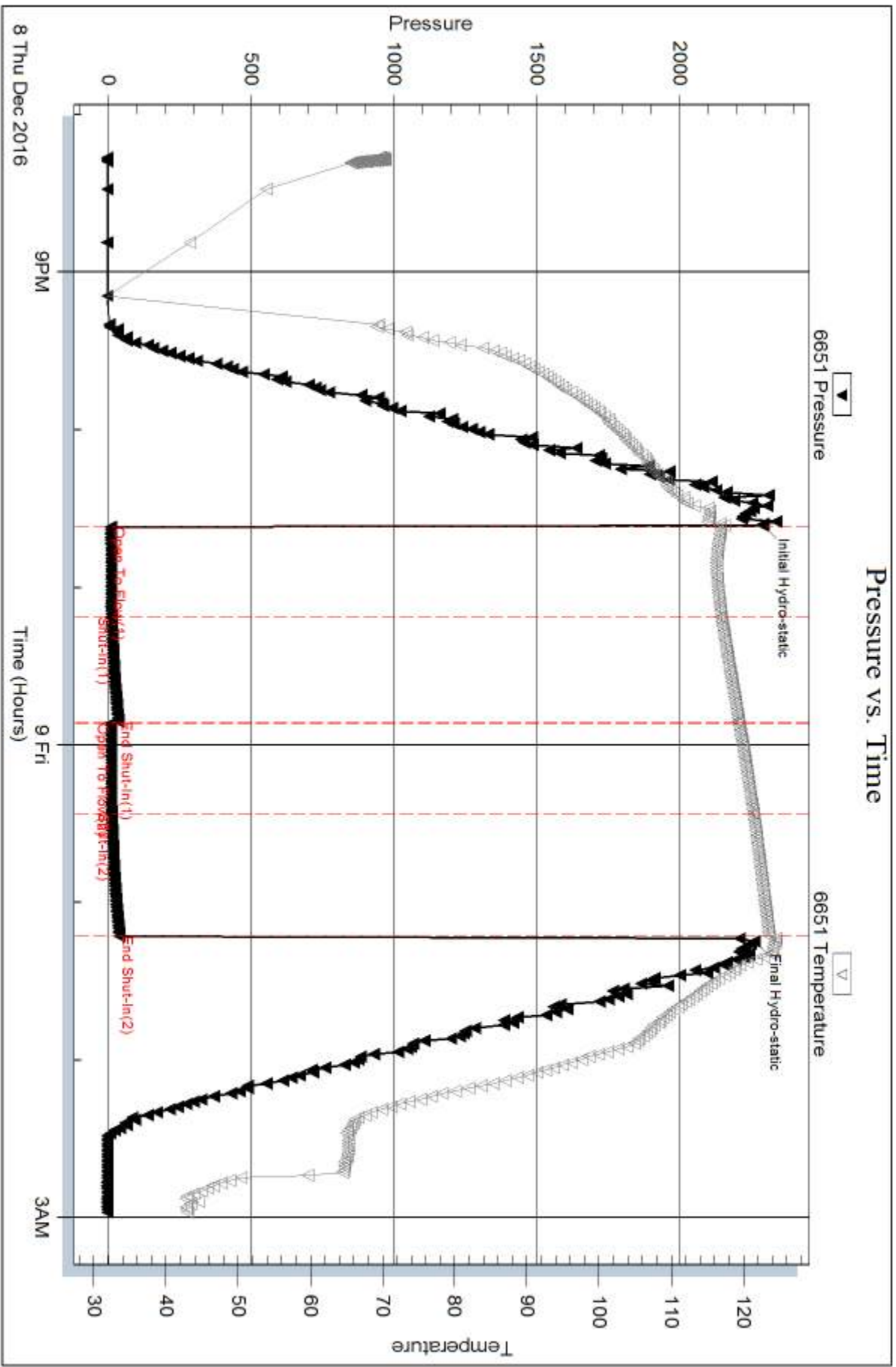
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

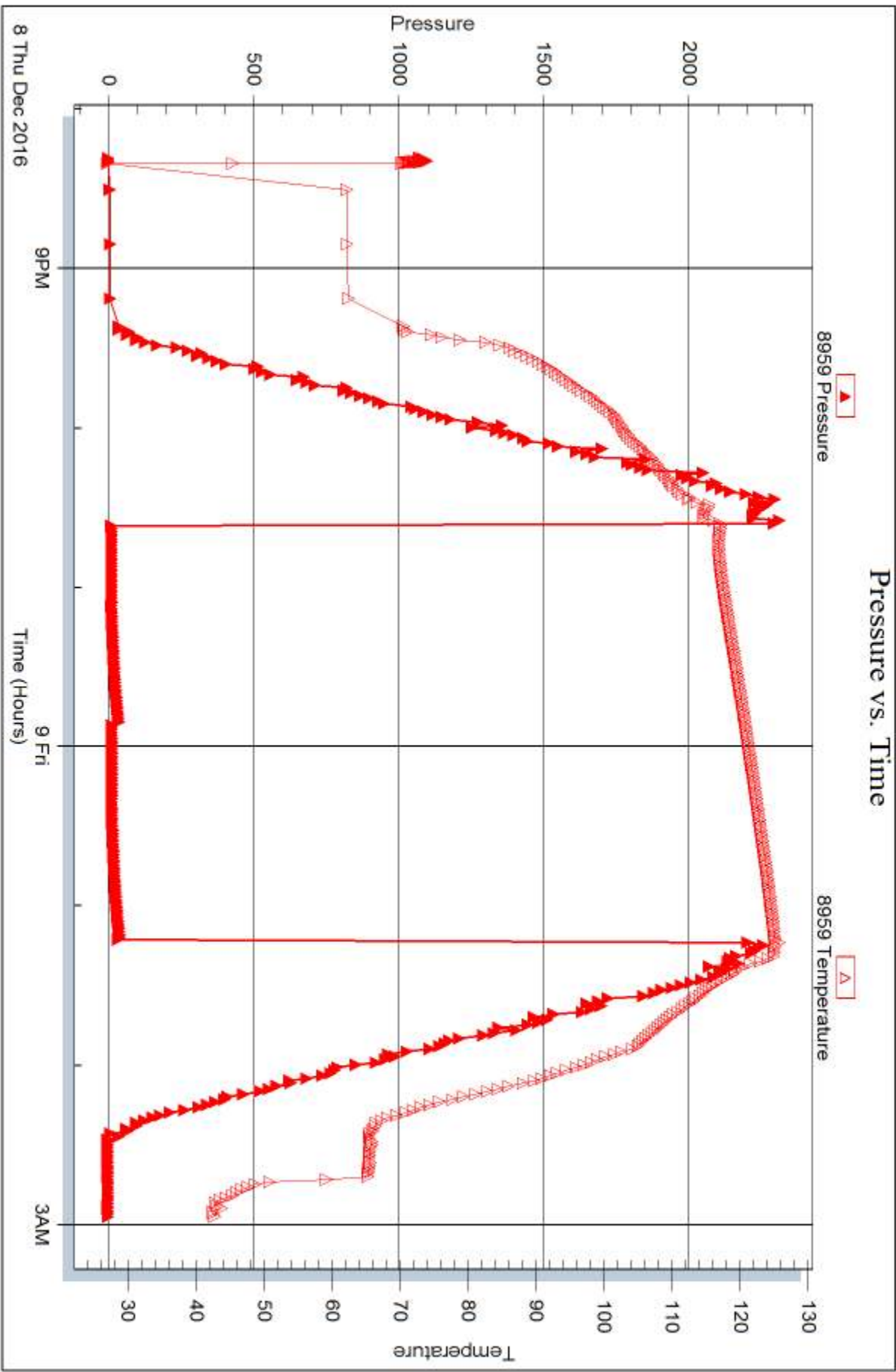


Serial #: 8959

Outside Val Energy, Inc.

4-8S-35W Thomas, KS

DST Test Number: 8



Trilobite Testing, Inc

Ref. No: 58218

Printed: 2016.12.13 @ 08:08:03



DRILL STEM TEST REPORT

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

125 N. Market St. Ste. 1110
Wichita, KS 67202

ATTN: Tim Priest

4-8S-35W Thomas,KS

Kough Mattson Unit #1-4

Start Date: 2016.12.09 @ 10:49:22

End Date: 2016.12.09 @ 18:03:22

Job Ticket #: 58219 DST #: 9

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

Printed: 2016.12.13 @ 08:07:21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

Kough Mattson Unit #1-4
4-8S-35W Thomas,KS
Job Ticket: 58219 **DST#: 9**
Test Start: 2016.12.09 @ 10:49:22

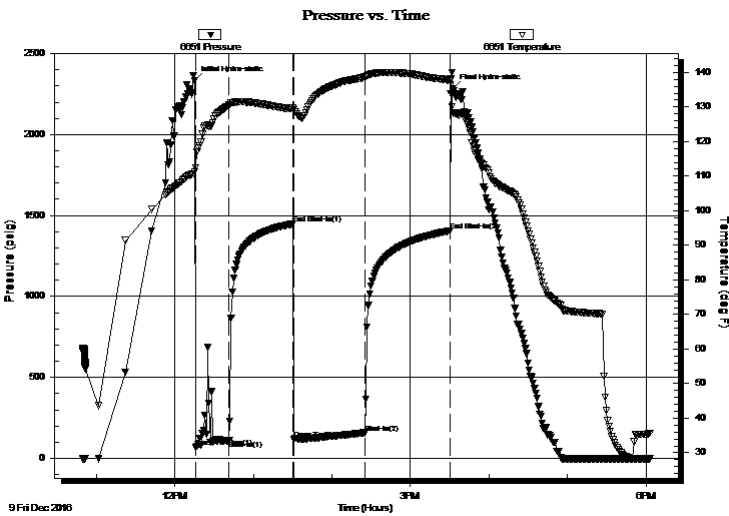
GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:15:52
Time Test Ended: 18:03:22
Interval: **4674.00 ft (KB) To 4712.00 ft (KB) (TVD)**
Total Depth: 4712.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Brannan Lonsdale
Unit No: 73
Reference Elevations: 3316.00 ft (KB)
3311.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6651 Inside
Press@RunDepth: 157.61 psig @ 4675.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.12.09 End Date: 2016.12.09 Last Calib.: 2016.12.09
Start Time: 10:49:23 End Time: 18:03:22 Time On Btm: 2016.12.09 @ 12:14:52
Time Off Btm: 2016.12.09 @ 15:32:22

TEST COMMENT: 30- IF- Slowly built to 5"
45- IS- No blow
60- FF- BOB 34 mins
60- FSI- Very weak surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2334.27	111.35	Initial Hydro-static
1	65.88	112.48	Open To Flow (1)
27	110.81	130.55	Shut-In(1)
75	1447.92	129.65	End Shut-In(1)
76	116.86	129.14	Open To Flow (2)
131	157.61	138.69	Shut-In(2)
196	1405.22	137.72	End Shut-In(2)
198	2283.63	128.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
187.00	HOCM, 30%O 70%M	1.50
143.00	CO	2.03

* 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.

Kough Mattson Unit #1-4

125 N. Market St. Ste. 1110
Wichita, KS 67202

4-8S-35W Thomas,KS

Job Ticket: 58219

DST#: 9

ATTN: Tim Priest

Test Start: 2016.12.09 @ 10:49:22

Tool Information

Drill Pipe:	Length: 4543.00 ft	Diameter: 3.82 inches	Volume: 64.40 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 67000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4674.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	58.00 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			4655.00	
Shut In Tool	5.00			4660.00	
Hydraulic tool	5.00			4665.00	
Packer	5.00			4670.00	20.00 Bottom Of Top Packer
Packer	4.00			4674.00	
Stubb	1.00			4675.00	
Recorder	0.00	6651	Inside	4675.00	
Recorder	0.00	8959	Outside	4675.00	
Perforations	2.00			4677.00	
Change Over Sub	1.00			4678.00	
Drill Pipe	30.00			4708.00	
Change Over Sub	1.00			4709.00	
Bullnose	3.00			4712.00	38.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy, Inc.

Kough Mattson Unit #1-4

125 N. Market St. Ste. 1110
Wichita, KS 67202

4-8S-35W Thomas,KS

Job Ticket: 58219

DST#: 9

ATTN: Tim Priest

Test Start: 2016.12.09 @ 10:49:22

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
187.00	HOCM, 30%O 70%M	1.503
143.00	CO	2.027

Total Length: 330.00 ft Total Volume: 3.530 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 19-31 hydrometer sat on top of clean oil recovered

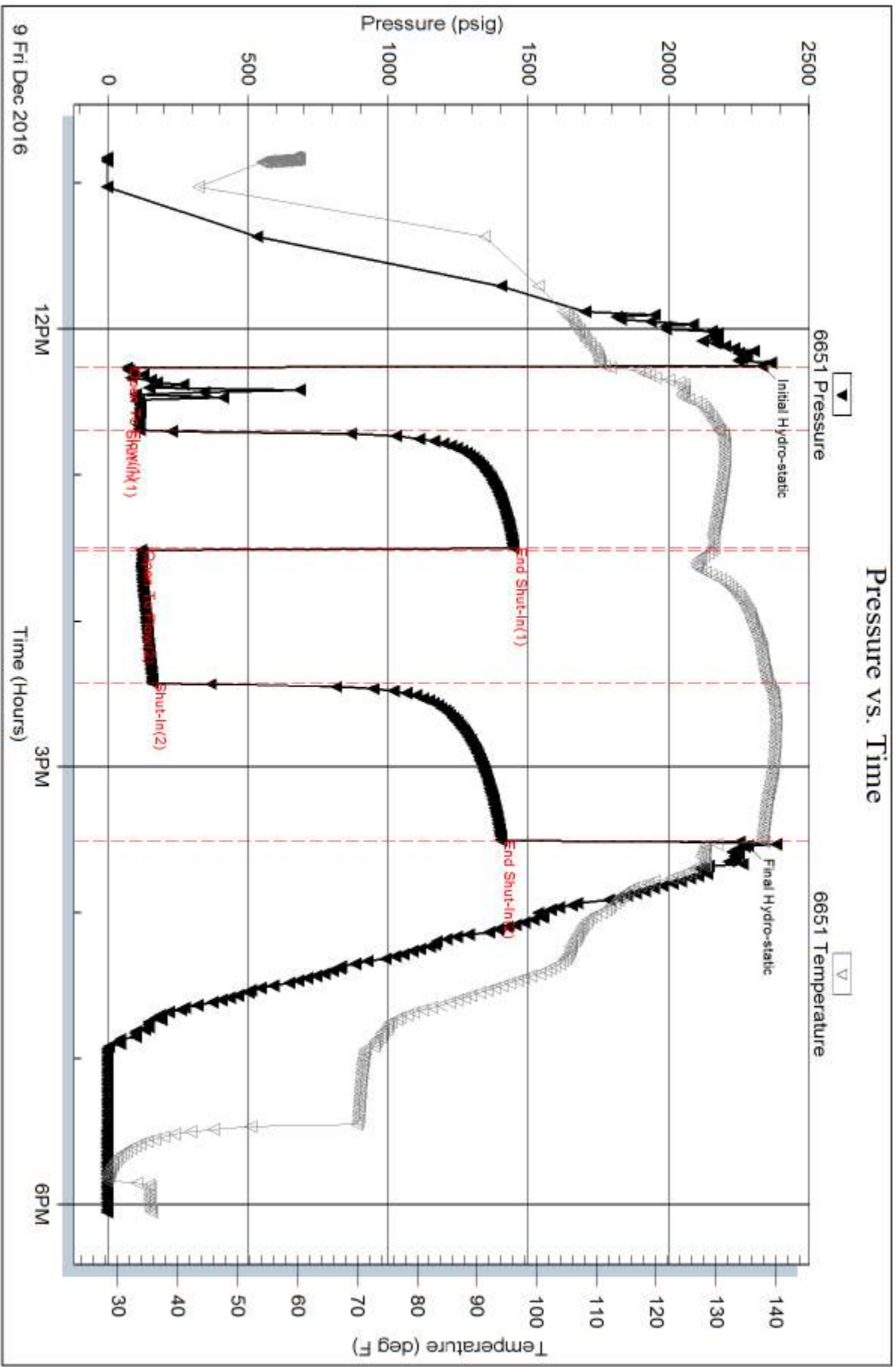
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Inside

Val Energy, Inc.

4-8S-35W Thomas, KS

DST Test Number: 9

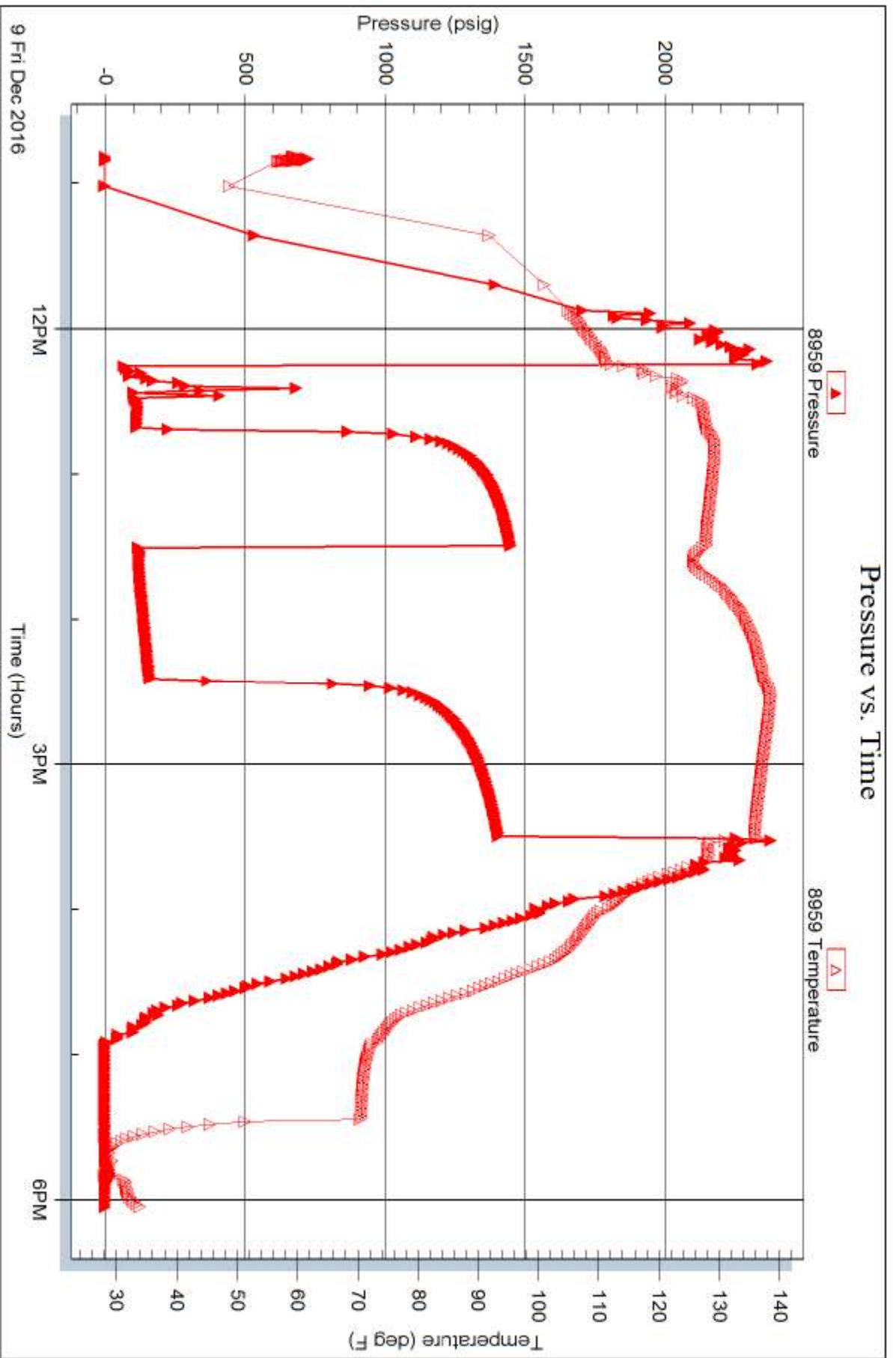


Serial #: 8959

Outside Val Energy, Inc.

4-8S-35W Thomas, KS

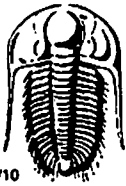
DST Test Number: 9



Triobite Testing, Inc

Ref. No: 58219

Printed: 2016.12.13 @ 08:07:22



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58211

Well Name & No. Kaugh Mattson Unit #1-4 Test No. 1 Date 12/3/16
 Company Val Energy, Inc. Elevation 3316 KB 3311 GL
 Address 125 N. Market St., Ste. 1110 Wichita, KS 67202
 Co. Rep / Geo. Tom Priest Rig WW #10
 Location: Sec. 4 Twp. 8 S Rge. 35 W Co. Thomas State KS

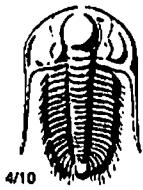
Interval Tested 4157-4201 Zone Tested Lansing "A+B"
 Anchor Length 44' Drill Pipe Run 4037 Mud Wt. 9.0
 Top Packer Depth 4152 Drill Collars Run 124 Vis 58
 Bottom Packer Depth 4157 Wt. Pipe Run --- WL 8.8
 Total Depth 4201 Chlorides 3,500 ppm System LCM 1#
 Blow Description IF - BOB 22 mins
EST - No Blow
FP - BOB 27 mins
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>469</u>	<u>MW</u>			<u>85</u>	<u>15</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 409' BHT 134° Gravity --- API RW .21 @ 36° F Chlorides 63,000 ppm
 (A) Initial Hydrostatic 2067 Test 1150 T-On Location 1210
 (B) First Initial Flow 16 Jars --- T-Started 1239
 (C) First Final Flow 101 Safety Joint --- T-Open 1751
 (D) Initial Shut-In 1277 Circ Sub --- T-Pulled 2106
 (E) Second Initial Flow 104 Hourly Standby 1 hr 80 T-Out 2305
 (F) Second Final Flow 198 Mileage 242 RT 158rt Comments ---
 (G) Final Shut-In 1268 Sampler --- 118.50
 (H) Final Hydrostatic 2038 Straddle ---
 Shale Packer 250 Ruined Shale Packer ---
 Extra Packer --- Ruined Packer ---
 Extra Recorder --- Extra Copies ---
 Day Standby --- Sub Total 0
 Accessibility --- Total 1598.50
 Sub Total 1598.50 MP/DST Disc't ---

Approved By _____ Our Representative Brennan Lonsdale

Tribolite 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. 58212

Well Name & No. Kough Mattson Unit #1-4 Test No. 2 Date 12/4/16
 Company Val Energy, Inc. Elevation 3316 KB 3311 GL
 Address 125 N. Market St., Ste. 1110 Wichita, KS 67202
 Co. Rep / Geo. Tim Priest Rig WW #10
 Location: Sec. 4 Twp. 8 S Rge. 35 W Co. Thomas State KS

Interval Tested 4239-4270 Zone Tested Lansing "E&F"
 Anchor Length 31' Drill Pipe Run 4100 Mud Wt. 9.3
 Top Packer Depth 4234 Drill Collars Run 124 Vis 59
 Bottom Packer Depth 4239 Wt. Pipe Run _____ WL 8.8
 Total Depth 4270 Chlorides 5000 ppm System LCM 1A

Blow Description IF - slowly built to 1"
ISI - No blow
FF - slowly built to 2 1/2"
FST - No blow

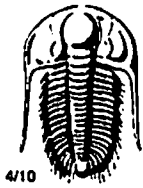
Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>Feet of MW w/ show of oil in tool</u>			<u>75</u>	<u>25</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 124' BHT 124° Gravity _____ API RW .22 @ 50° F Chlorides 42,000 ppm
 (A) Initial Hydrostatic 2083 Test 1150 T-On Location 0905
 (B) First Initial Flow 10 Jars _____ T-Started 0925
 (C) First Final Flow 29 Safety Joint _____ T-Open 1118
 (D) Initial Shut-In 1288 Circ Sub _____ T-Pulled 1518
 (E) Second Initial Flow 32 Hourly Standby _____ T-Out 1701
 (F) Second Final Flow 66 Mileage 242 RT ^{118.50} Comments _____
 (G) Final Shut-In 1275 Sampler _____
 (H) Final Hydrostatic 2040 Straddle _____

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1518.50
 Sub Total _____

Approved By _____ Our Representative Brannon Lonsdale

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. 58213

Well Name & No. Kough Mattson Unit #1-4 Test No. 3 Date 12/5/16
 Company Val Energy, Inc. Elevation 3316 KB 331 GL
 Address 125 N. Market St, Ste. 110 Wichita, KS 67202
 Co. Rep / Geo. Tim Priest Rig WW #10
 Location: Sec. 4 Twp. 8 S Rge. 35 W Co. Thomas State KS

Interval Tested 4362-4380 Zone Tested Lansing "J"
 Anchor Length 18' Drill Pipe Run 4227 Mud Wt. 9.3
 Top Packer Depth 4357 Drill Collars Run 124 Vis 59
 Bottom Packer Depth 4362 Wt. Pipe Run WL 8.8
 Total Depth 4380 Chlorides 5,000 ppm System LCM 1#

Blow Description IF - BOB 3mins
ISI - BOB 11mins
FF - BOB instantly
FSI - BOB 14mins

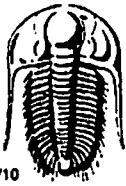
Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>AMCO</u>	<u>20</u>	<u>65</u>	<u>15</u>	<u> </u>
<u>508</u>	<u>GD</u>	<u>25</u>	<u>25</u>	<u> </u>	<u> </u>
<u> </u>	<u>1650' GIP</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Rec Total 632' BHT 139° Gravity 34 API RW @ ° F Chlorides ppm
 (A) Initial Hydrostatic 2160 Test 1150 T-On Location 0548
 (B) First Initial Flow 25 Jars T-Started 0607
 (C) First Final Flow 104 Safety Joint T-Open 0749
 (D) Initial Shut-In 1318 Circ Sub T-Pulled 1104
 (E) Second Initial Flow 116 Hourly Standby T-Out 1347
 (F) Second Final Flow 237 Mileage 242 RT 118.50 Comments
 (G) Final Shut-In 1265 Sampler
 (H) Final Hydrostatic 2128 Straddle Ruined Shale Packer

Shale Packer 250 Ruined Packer
 Extra Packer Extra Copies
 Initial Open 30 Extra Recorder Sub Total 0
 Initial Shut-In 4500 Day Standby Total 1518.50
 Final Flow 60 Accessibility MP/DST Disc't
 Final Shut-In 60 Sub Total 1518.50

Approved By Our Representative Brian Lonsdale

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. 58214

Well Name & No. Kough Mattson Unit #1-4 Test No. 4 Date 12/5/16
 Company Val Energy, Inc. Elevation 3316 KB 3311 GL
 Address 125 N. Market St. Ste. 110 Wichita, KS 67262
 Co. Rep / Geo. Tim Priest Rig WW #10
 Location: Sec. 4 Twp. 8 S Rge. 35 W Co. Thomas State KS

Interval Tested 4380-4410 Zone Tested Lansing "K"
 Anchor Length 30' Drill Pipe Run 4259 Mud Wt. 9.4
 Top Packer Depth 4375 Drill Collars Run 124 Vis 56
 Bottom Packer Depth 4380 Wt. Pipe Run --- WL 8.0
 Total Depth 4410 Chlorides 3,500 ppm System LCM 1#
 Blow Description IF - slowly built to 4"
ISI - No blow
FF - slowly built to 5"
FSD - No blow

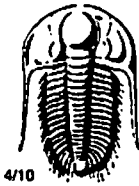
Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>OCM</u>	<u>25</u>	<u>25</u>	<u>25</u>	<u>25</u>
<u>31</u>	<u>MCO</u>	<u>10</u>	<u>45</u>	<u>45</u>	<u>45</u>
<u>---</u>	<u>31' GIP</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>

Rec Total 93' BHT 126° Gravity 30 API RW ---@ --- F Chlorides --- ppm

(A) Initial Hydrostatic 2194 Test 1150 T-On Location 2027
 (B) First Initial Flow 15 Jars --- T-Started 2043
 (C) First Final Flow 30 Safety Joint --- T-Open 2244
 (D) Initial Shut-In 1303 Circ Sub --- T-Pulled 0159
 (E) Second Initial Flow 33 Hourly Standby --- T-Out 0352
 (F) Second Final Flow 56 Mileage 242 RT 118.50 Comments ---
 (G) Final Shut-In 1294 Sampler ---
 (H) Final Hydrostatic 2145 Straddle --- Ruined Shale Packer ---
 Shale Packer 250 Ruined Packer ---
 Extra Packer --- Extra Copies ---
 Extra Recorder --- Sub Total 0
 Day Standby --- Total 1518.50
 Accessibility --- MP/DST Disc't ---
 Sub Total 1518.50

Approved By _____ Our Representative Brennan Lonsdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58215

Well Name & No. Kough Mattson Unit #1-4 Test No. 5 Date 12/6/16
 Company Val Energy, Inc. Elevation 3316 KB 3311 GL
 Address 125 N. Market St, Ste 1110 Wichita, KS 67202
 Co. Rep / Geo. Tim Priest Rig WW #10
 Location: Sec. 4 Twp. 8 S Rge. 35 W Co. Thomas State KS

Interval Tested 4441-4515 Zone Tested Pleasanton - Marmaton "A+B"
 Anchor Length 74' Drill Pipe Run 4321 Mud Wt. 9.2
 Top Packer Depth 4436 Drill Collars Run 124 Vis 58
 Bottom Packer Depth 4441 Wt. Pipe Run WL 9.6
 Total Depth 4515 Chlorides 6,100 ppm System LCM 1#

Blow Description IF- BOB 4mins
ISI- Slowly built to 9 1/2"
FF- BOB 3mins
PSI- BOB 7mins

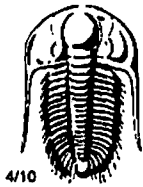
Rec	Feet of	%gas	%oil	%water	%mud
<u>187</u>	<u>GOCM</u>	<u>30</u>	<u>25</u>	<u>45</u>	<u> </u>
<u>190</u>	<u>G.MGO</u>	<u>10</u>	<u>65</u>	<u>25</u>	<u> </u>
<u>222</u>	<u>CGO</u>	<u>15</u>	<u>85</u>	<u> </u>	<u> </u>
<u> </u>	<u>2633' GIP</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Rec Total 599 BHT 131° Gravity 31 API RW @ °F Chlorides ppm
 (A) Initial Hydrostatic 2214 Test 1150 T-On Location 1623
 (B) First Initial Flow 32 Jars T-Started 1644
 (C) First Final Flow 129 Safety Joint T-Open 1844
 (D) Initial Shut-In 1372 Circ Sub T-Pulled 2159
 (E) Second Initial Flow 141 Hourly Standby T-Out 12/7 0103
 (F) Second Final Flow 266 Mileage 242 RT 118.50 Comments
 (G) Final Shut-In 1355 Sampler
 (H) Final Hydrostatic 2178 Straddle Ruined Shale Packer

Initial Open 30 Extra Packer Extra Copies
 Initial Shut-In 45 Extra Recorder Sub Total 0
 Final Flow 60 Day Standby Total 1518.50
 Final Shut-In 60 Accessibility MP/DST Disc't
 Sub Total 1518.50

Approved By Our Representative Brannon Lonsdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58216

Well Name & No. Kough Mattson Unit #1-4 Test No. 6 Date 12/7/16
 Company Vul Energy, Inc. Elevation 3316 KB 3311 GL
 Address 125 N. Market St., Ste. 110 Wichita, KS 67202
 Co. Rep / Geo. Tom Priest Rig WW #10
 Location: Sec. 4 Twp. 8 S Rge. 35 W Co. Thomas State KS

Interval Tested 4556-4590 Zone Tested Pannoe
 Anchor Length 34' Drill Pipe Run 4448 Mud Wt. 9.3
 Top Packer Depth 4551 Drill Collars Run 124 Vis 49
 Bottom Packer Depth 4556 Wt. Pipe Run WL 8.8
 Total Depth 4590 Chlorides 5,200 ppm System LCM 1#

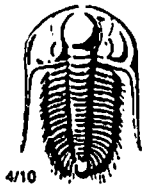
Blow Description IF- BOB 1min
ISF- Slowly built to 2"
PF- BOB 3mins
FSF- Slowly built to 4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>1473</u>	<u>NAW</u>			<u>80</u>	<u>20</u>
<u>15</u>	<u>CO</u>				
	<u>2960 GIP</u>				

Rec Total 1488' BHT 142° Gravity 30 API RW .23 @ 29 °F Chlorides 22000 ppm
 (A) Initial Hydrostatic 2285 Test 1150 T-On Location 1151
 (B) First Initial Flow 73 Jars T-Started 1210
 (C) First Final Flow 257 Safety Joint T-Open 1411
 (D) Initial Shut-In 1367 Circ Sub T-Pulled 1651
 (E) Second Initial Flow 273 Hourly Standby T-Out 2007
 (F) Second Final Flow 686 Mileage 242 RT 118.50 Comments
 (G) Final Shut-In 1291 Sampler
 (H) Final Hydrostatic 2243 Straddle Ruined Shale Packer
 Shale Packer 250 Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1518.50
 Accessibility MP/DST Disc't
 Sub Total 1518.50

Approved By _____ Our Representative Braman Lonsdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58217

Well Name & No. Kangh Mattson Unit #1-4 Test No. 7 Date 12/8/16
 Company Val Energy, Inc. Elevation 3316 KB 3311 GL
 Address 125 N. Market St., Ste. 1110 Wichita, KS 67202
 Co. Rep / Geo. Tim Priest Rig WW #10
 Location: Sec. 4 Twp. 8 S Rge. 35 W Co. Thomas State KS

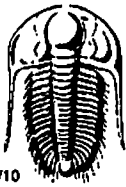
Interval Tested 4586-4650 Zone Tested Myric + Ft. Scott
 Anchor Length 64' Drill Pipe Run 4447 Mud Wt. 9.2
 Top Packer Depth 4581 Drill Collars Run 124 Vis 48
 Bottom Packer Depth 4586 Wt. Pipe Run WL 9.6
 Total Depth 4650 Chlorides 6400 ppm System LCM 1P
 Blow Description IF - Slowly built to 2"
ISI - No blow
FF - No blow
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>M</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 30' BHT 126° Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic <u>2330</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0521</u>
(B) First Initial Flow <u>33</u>	<input type="checkbox"/> Jars <u> </u>	T-Started <u>0559</u>
(C) First Final Flow <u>38</u>	<input type="checkbox"/> Safety Joint <u> </u>	T-Open <u>0758</u>
(D) Initial Shut-In <u>768</u>	<input type="checkbox"/> Circ Sub <u> </u>	T-Pulled <u>1043</u>
(E) Second Initial Flow <u>40</u>	<input type="checkbox"/> Hourly Standby <u> </u>	T-Out <u>1230</u>
(F) Second Final Flow <u>45</u>	<input checked="" type="checkbox"/> Mileage <u>242 RT</u> 118.50	Comments <u> </u>
(G) Final Shut-In <u>969</u>	<input type="checkbox"/> Sampler <u> </u>	
(H) Final Hydrostatic <u>2304</u>	<input type="checkbox"/> Straddle <u> </u>	
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input checked="" type="checkbox"/> Ruined Shale Packer <u>320</u>
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer <u> </u>	<input type="checkbox"/> Ruined Packer <u> </u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder <u> </u>	<input type="checkbox"/> Extra Copies <u> </u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby <u> </u>	Sub Total <u>320</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility <u> </u>	Total <u>1838.50</u>
	Sub Total <u>1518.50</u>	MP/DST Disc't <u> </u>

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58218

Well Name & No. Rough Mattson Unit #1-4 Test No. 8 Date 12/8/16
 Company Val Energy, Inc. Elevation 3316 KB 3311 GL
 Address 125 N. Market St., Ste. 110 Wichita, KS 67202
 Co. Rep / Geo. D.M. Priest Rig WW #10
 Location: Sec. 4 Twp. 8 S Rge. 35 W Co. Thomas State KS

Interval Tested 4650-4675 Zone Tested Cherokee
 Anchor Length 25' Drill Pipe Run 4511 Mud Wt. 9.2
 Top Packer Depth 4645 Drill Collars Run 124 Vis 48
 Bottom Packer Depth 4650 Wt. Pipe Run — WL 9.6
 Total Depth 4675 Chlorides 6,000 ppm System LCM 1#
 Blow Description IF - Slowly built to 1"
ISI - No Blow
PF - No Blow
FSD - No Blow

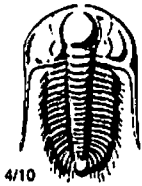
Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>NA</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 3 BHT 124° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2291</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2000</u>
(B) First Initial Flow <u>10</u>	<input type="checkbox"/> Jars <u>—</u>	T-Started <u>2016</u>
(C) First Final Flow <u>12</u>	<input type="checkbox"/> Safety Joint <u>—</u>	T-Open <u>2236</u>
(D) Initial Shut-In <u>36</u>	<input type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>12/9</u> <u>0106</u>
(E) Second Initial Flow <u>10</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>0257</u>
(F) Second Final Flow <u>12</u>	<input checked="" type="checkbox"/> Mileage <u>242 RT</u> <u>118.50</u>	Comments <u>—</u>
(G) Final Shut-In <u>39</u>	<input type="checkbox"/> Sampler <u>—</u>	
(H) Final Hydrostatic <u>2262</u>	<input type="checkbox"/> Straddle <u>—</u>	
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby <u>—</u>	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility <u>—</u>	Total <u>1518.50</u>
	Sub Total <u>1518.50</u>	MP/DST Disc't <u>—</u>

Approved By _____ Our Representative Brannon Lonsdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58219

Well Name & No. Lough Mattison Unit #1-4 Test No. 9 Date 12/9/16
 Company Val Energy, Inc Elevation 3316 KB 3311 GL
 Address 125 N. Market St, Ste. 1110 Wichita, KS 67202
 Co. Rep / Geo. Tom Priest Rig WW #10
 Location: Sec. 4 Twp. 8 S Rge. 35 W Co. Thomas State KS

Interval Tested 4674-4712 Zone Tested Johnson
 Anchor Length 38' Drill Pipe Run 4543 Mud Wt. 9.2
 Top Packer Depth 4669 Drill Collars Run 124 Vis 49
 Bottom Packer Depth 4674 Wt. Pipe Run --- WL 8.0
 Total Depth 4712 Chlorides 5500 ppm System LCM 1#
 Blow Description IF - slowly built to 5"
ISF - No blow
FF - BOB 34 mins
PSI - Very weak surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>137</u>	<u>Feet of AOCMA</u>		<u>30%</u>	<u>70%</u>	
<u>143</u>	<u>Feet of CO</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 330 BHT 138° Gravity <19 API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic <u>2334</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1025</u>
(B) First Initial Flow <u>66</u>	<input type="checkbox"/> Jars <u>---</u>	T-Started <u>1049</u>
(C) First Final Flow <u>111</u>	<input type="checkbox"/> Safety Joint <u>---</u>	T-Open <u>1215</u>
(D) Initial Shut-In <u>1448</u>	<input type="checkbox"/> Circ Sub <u>---</u>	T-Pulled <u>1530</u>
(E) Second Initial Flow <u>117</u>	<input type="checkbox"/> Hourly Standby <u>---</u>	T-Out <u>1803</u>
(F) Second Final Flow <u>158</u>	<input checked="" type="checkbox"/> Mileage <u>242 RT</u> 118.50	Comments <u>Stayed 6 nights</u>
(G) Final Shut-In <u>1405</u>	<input type="checkbox"/> Sampler <u>---</u>	<u>@ Quality Inn in</u>
(H) Final Hydrostatic <u>2284</u>	<input type="checkbox"/> Straddle <u>---</u>	<u>Colby, KS</u>
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer <u>---</u>
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer <u>---</u>	<input type="checkbox"/> Ruined Packer <u>---</u>
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder <u>---</u>	<input type="checkbox"/> Extra Copies <u>---</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby <u>---</u>	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility <u>---</u>	Total <u>1518.50</u>
	Sub Total <u>1518.50</u>	MP/DST Disc't <u>---</u>

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PAGE	CUST N	YARD #	INVOICE DATE
1 of 1	1004409	1718	12/15/2016
INVOICE NUMBER			
92301692			

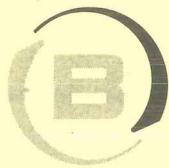
Pratt (620) 672-1201
 B VAL ENERGY
 I 125 n market ste 1710
 L WICHITA
 L KS US 67202
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Kough Mattson Unit 1-4
 O LOCATION
 B COUNTY Thomas
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40987011	19843		Net - 30 days	01/14/2017

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 12/11/2016 to 12/11/2016</i>				
0040987011				
171813947A Cement-New Well Casing/Pi 12/11/2016 Cement 2 Stage 5 1/2" Longstring				
AA2 Cement	100.00	EA	7.65	765.00 T
A-Con' Blend	400.00	EA	8.10	3,240.00 T
60/40 POZ	30.00	EA	5.40	162.00 T
Celloflake	125.00	EA	1.66	208.12 T
Calcium Chloride	1,128.00	EA	0.47	532.98 T
C-41P	24.00	EA	1.80	43.20 T
Salt	482.00	EA	0.23	108.45 T
Mag Chem 10CR	282.00	EA	1.22	342.63 T
FLA-322	76.00	EA	3.38	256.50 T
Gilsonite	500.00	EA	0.30	150.75 T
Super Flush II	500.00	EA	0.69	344.25 T
"Two Stage Cement Collar, 5 1/2" (Blue)	1.00	EA	2,025.00	2,025.00
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	162.00	162.00
"Turbolizer, 5 1/2" (Blue)"	7.00	EA	49.50	346.50
"5 1/2" Basket (Blue)"	1.00	EA	130.50	130.50
"Unit Mileage Chg (PU, cars one way)"	100.00	MI	2.03	202.50
Heavy Equipment Mileage	300.00	MI	3.38	1,012.50
"Proppant & Bulk Del. Chgs., per ton mil	2,480.00	EA	1.13	2,790.00
Blending & Mixing Service Charge	530.00	BAG	0.63	333.90
Plug Container Util. Chg.	1.00	EA	112.50	112.50
Depth Charge; 4001'-5000'	1.00	EA	1,134.00	1,134.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	78.76	78.76

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	14,482.04
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	461.54
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	14,943.58
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

4-85-35W

FIELD SERVICE TICKET

1718 13947 A

DATE _____ TICKET NO. _____

DATE OF JOB 12/11/2016	DISTRICT Pratt, KS	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:			
CUSTOMER V91 Energy, Inc.		LEASE Kough Marathon Unit		WELL NO. 1-4						
ADDRESS		COUNTY Thomas		STATE KS						
CITY		STATE		SERVICE CREW Dering McGraw, EJ, Rocky						
AUTHORIZED BY		JOB TYPE: 2 42/2 stage 5 1/2 Longstrings								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
19843	3						12/10			1:30
19918	1/2						12/10			8:30
19860	1						12/11			1:00
							12/11			4:00
							12/11			5:00
						MILES FROM STATION TO WELL	239			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Rick Smith
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	DD2 Cement	SK	100		1,700 00
CP101	A-Con Blena Common	SK	400		7,200 00
CP103	60140 P02	SK	30		360 00
CC102	Cellofiske	Lb	25		92 50
CC105	C-41P	Lb	24		96 50
CC111	S91+	Lb	482		241 00
CC116	M95 Chem 10CR	Lb	282		761 40
CC129	FLA-322	Lb	76		370 00
CC201	Gilsonite	Lb	500		335 00
CC102	Cellofiske	Lb	100		370 00
CC109	CSIC.VN Chloride	Lb	1128		1,184 40
CF451	Two Stage Cement Cellgr, 5 1/2 (Blue)	Eg	1		4,500 00
CF1251	Auto Fill Flost Shoe 5 1/2 (Blue)	Eg	1		360 00
CF1651	Turbolizer, 5 1/2" (Blue)	Eg	7		770 00
CF1901	5 1/2" Bssker (Blue)	Eg	1		290 00
CC155	Super Flush II	Gal	500		765 00
E100	Unit Mileage Charge - Pickups, Small users fees	Mi	100		450 00
E101	Hesv. Equipment Mileage	Mi	300		2,250 00
E113	Proppant and Bulk Delivery Charges, per ton/mi	Ton/m	2480		6,200 00

SUB TOTAL

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$

TOTAL

SERVICE REPRESENTATIVE: Dan Lucas THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Rick Smith
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

St 950 #1

Customer VGI Energy, Inc.	Lease No.	Date 12/11/2016	
Lease Koush Morrison Unit	Well # 1-4		
Field Order # 13947	Station Pratt, KS	Casing 5 1/2	Depth 4837
Type Job 242/251950 5 1/2 Longstring		Formation TD-4870	Legal Description 4-85-35W
		County Thomas	State KS

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2								
Depth 4837	Depth	From	To	Pre Pad	Max		5 Min.	
Volume 115 1/2	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 4786	Packer Depth	From	To	Flush Freshwater	Gas Volume		Total Load	

Customer Representative Rick Smith	Station Manager Kevin Gordley	Treater Darin Franklin
---------------------------------------	----------------------------------	---------------------------

Service Units	92911	84981	19843	84980	19860	19889	19918				
Driver Names	Darin	McGraw	McGraw	ET	ET	Rockey	Rockey				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
12/16 8:30pm					on location / safety meeting
					T-1, 3, 5, 7, 9, 11, 52 B-51
					DV TOOL - 51
					100 SK PAD Cement, 1/4# Cellulose, .25% Defoamer, 10% SSIT, .8% FLA-322, 5# Gilsomite, 3% Mg9 Chem
					15,000ps, 1.43 v. 12, 5.78 water
12/11 1:05pm	300		5	3	Pump 5 bbls water
	300		12	5	Pump 12 bbls Flush
	300		5	5	Pump 5 bbls water
	300		25	5	Mix 100 SK PAD
					Shut down
					Wash pump & lines, Release Plug
	200		0	6	Start displacement
	400		95	6	Lift Pressure
	600		105	3	Slow Rate
1:45am	1500		112	3	Bump Plug
					Flow - Held
					Drop DV opening tool
	1400				open DV TOOL

S+950 #2

Customer VCI Energy, Inc	Lease No.	Date 12/11/2016	
Lease KWSH MERTSON UNIT	Well # 1-4		
Field Order # 13947	Station PRATT, KS	Casing 5 1/2	Depth 4837
Type Job 242/251990 5 1/2 LONGSTRINGS		Formation TD-4870	Legal Description 4-8S-350
County Thomass		State KS	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth	Depth	From	To	Pre Pad	Max		5 Min.
Volume	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush Freshwater	Gas Volume		Total Load

Customer Representative	Station Manager	Treater
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Service Units									
Driver Names									

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					400 SK A-con Blend common 3% CC, 1/4# Cell flocc 11.6 PPS, 2.77 yield, 16.75 wster
3:00pm	300		197	5	mix 400sk A-con Shut down
					Wash pump & hose Release PIUS
	500		0	6	Start displacement
	600		60	31	slow rate
4:00pm	2,000		69	3	Bump PIUS & close DUTAI Flow - Held
					Plug Rest hole - 60/40 P02, 2% Gel 305*
	100		7	3	
					Job complete / Dr. in & crew Thank you!!!



INVOICE

P.O. Box 205803
Dallas, TX 75320-5803

Invoice Number: 153394
Invoice Date: Nov 30, 2016
Page: 1

Voice: (832) 482-3742
Fax: (832) 482-3738

Federal Tax I.D.#: 81-2169190

Bill To:
Val Energy, Inc. 125 North Market STE #1110 Wichita, KS 67202

Customer ID	Field Ticket #	Payment Terms	
Val	68225	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Nov 30, 2016	12/30/16

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Kough Mattson Unit 1-4		
180.00	CEMENT MATERIALS	Class A Common	17.90	3,222.00
508.00	CEMENT MATERIALS	Calcium Chloride	1.10	558.80
338.00	CEMENT MATERIALS	GEL	1.05	354.90
1.00	CEMENT SERVICE	Pump, Casing Cement 0-500ft	1,512.25	1,512.25
195.00	CEMENT SERVICE	PHDL	2.48	483.60
270.00	CEMENT SERVICE	DRYG	2.75	742.50
30.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	132.00
30.00	CEMENT SERVICE	Heavy Vehicle Mileage	7.70	231.00
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Material	1,985.14	-1,985.14
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Cement Service	1,488.64	-1,488.64
1.00	E-FORSLUND.MERRELL	SERVICE SUPERVISOR		
1.00	E-RYAN.ALAN	SERVICE SUPERVISOR		
1.00	E-MITTEN.JADE	EQUIPMENT OPERATOR		

<p>ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. ONLY IF PAID ON OR BEFORE</p> <p>Dec 30, 2016</p> <p>1 1/2% CHARGED THEREAFTER.</p>	Subtotal	3,763.27
	Sales Tax	161.29
	Total Invoice Amount	3,924.56
	Payment/Credit Applied	
	TOTAL	3,924.56

