

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

Confidentiality Requested:
Yes No

OPERATOR: License #
Name:
Address 1:
Address 2:
City: State: Zip:
Contact Person:
Phone:
CONTRACTOR: License #
Name:
Wellsite Geologist:
Purchaser:

Designate Type of Completion:
New Well Re-Entry Workover
Oil WSW SWD
Gas DH EOR
OG GSW
CM (Coal Bed Methane)
Cathodic Other (Core, Expl., etc.):

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

Well Name:

Original Comp. Date: Original Total Depth:

Deepening Re-perf. Conv. to EOR Conv. to SWD
Plug Back Liner Conv. to GSW Conv. to Producer
Commingled Permit #:
Dual Completion Permit #:
SWD Permit #:
EOR Permit #:
GSW Permit #:

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

API No.:

Spot Description:

- - - - - Sec. Twp. S. R. East West
Feet from North / South Line of Section
Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County:

Lease Name: Well #:

Field Name:

Producing Formation:

Elevation: Ground: Kelly Bushing:

Total Vertical Depth: Plug Back Total Depth:

Amount of Surface Pipe Set and Cemented at: Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: Feet

If Alternate II completion, cement circulated from:

feet depth to: w/ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: ppm Fluid volume: bbls

Dewatering method used:

Location of fluid disposal if hauled offsite:

Operator Name:

Lease Name: License #:

Quarter Sec. Twp. S. R. East West

County: Permit #:

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested
Date:
Confidential Release Date:
Wireline Log Received Drill Stem Tests Received
Geologist Report / Mud Logs Received
UIC Distribution
ALT I II III Approved by: Date:

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Summary of Changes

Lease Name and Number: HORINEK 1-2

API/Permit #: 15-193-20977-00-00

Doc ID: 1366137

Correction Number: 3

Approved By: Karen Ritter

Field Name	Previous Value	New Value
Approved Date	09/05/2017	09/07/2017
CasingTypeOfCementP DF_1	Surface Blend	SURFACE BLEND
Completion Or Recompletion Date	4/25/2017	12/29/2016
Date of First or Resumed Production or SWD or Enhr Elogs_PDF	5/6/2017	1/14/2017
Perf_perf2bottom	Induction Micro 4675	INDUCTION MICRO
Perf_perf2top	4674	
Perf_perf3bottom	4572	
Perf_perf3top	4566	
Perf_perf4bottom	4558	

Summary of changes for correction 3 continued

Field Name	Previous Value	New Value
Perf_perf4top	4556	
Perf_perf5bottom	4540	
Perf_perf5top	4536	
Perf_shots2	2	
Perf_shots3	4	
Perf_shots4	4	
Perf_shots5	4	
Production Interval #1	4536	4654
Save Link	../../../../kcc/detail/operatorEditDetail.cfm?docID=1365733	../../../../kcc/detail/operatorEditDetail.cfm?docID=1366137
TopsName1	Stark	STARK
TopsName3	Mississippi	MISS



Confidentiality Requested:

Yes No

CONFIDENTIAL 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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



PAGE	CUST #	YARD #	INVOICE DATE
1 of 1	1004409	1718	11/17/2016
INVOICE NUMBER			
92279158			

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 Horinek 1-2
 O LOCATION
 B COUNTY Thomas
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE	
40980726	19570		Net - 30 days	12/17/2016	
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 11/10/2016 to 11/10/2016</i>					
0040980726					
171814171L Cement-New Well Casing/Pi 11/10/2016 Cement Production Casing					
AA2 Cement		150.00	EA	8.19	1,228.50 T
A-Con' Blend		455.00	EA	8.37	3,808.35 T
Celloflake		152.00	EA	1.67	253.84 T
C-41P		36.00	EA	1.80	64.80 T
Salt		722.00	EA	0.23	166.06 T
Mag Chem 10 CR		423.00	EA	1.22	516.06 T
C-16A		113.00	EA	5.63	636.19 T
Gilsonite		750.00	EA	0.30	225.00 T
Super Flush II		500.00	EA	0.69	345.00 T
"Two Stage Cement Collar, 5 1/2" (Blue)		1.00	EA	2,925.00	2,925.00
"Auto Fill Float Shoe 5 1/2" (Blue)"		1.00	EA	234.00	234.00
5 1/2 x 7 7/8 W/Fins (Green)		7.00	EA	48.75	341.25
"5 1/2" Basket (Blue)"		1.00	EA	188.50	188.50
"Unit Mileage Chg (PU, cars one way)"		100.00	MI	2.03	203.00
Heavy Equipment Mileage		300.00	MI	3.38	1,014.00
"Proppant & Bulk Del. Chgs., per ton mil		2,845.00	EA	1.13	3,214.85
Blending & Mixing Service Charge		605.00	BAG	0.63	381.15
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	78.75	78.75
Calcium Chloride		1,284.00	EA	0.68	873.12 T

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	17,943.92
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	608.77
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	18,552.69
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING Job Log

Customer:	Val Energy	Cement Pump No.:	38119-19570 10 HRS	Operator TRK No.:	78939		
Address:	125 North Market Ste 1710	Ticket #:	1718-14171 L	Bulk TRK No.:	30463-37547	14355-27724	
City, State, Zip:	Wichita Ks 67202	Job Type:	Z42 Cement Production Casing				
Service District:		Well Type:	OIL				
Well Name and No.:	Horinek 1-2	Well Location:	2,8,36	County:	Thomas	State:	Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
AA-2	150		30463-37547	Front	Back
A-CON	425		14355-27724	Front	Back
				Front	Back

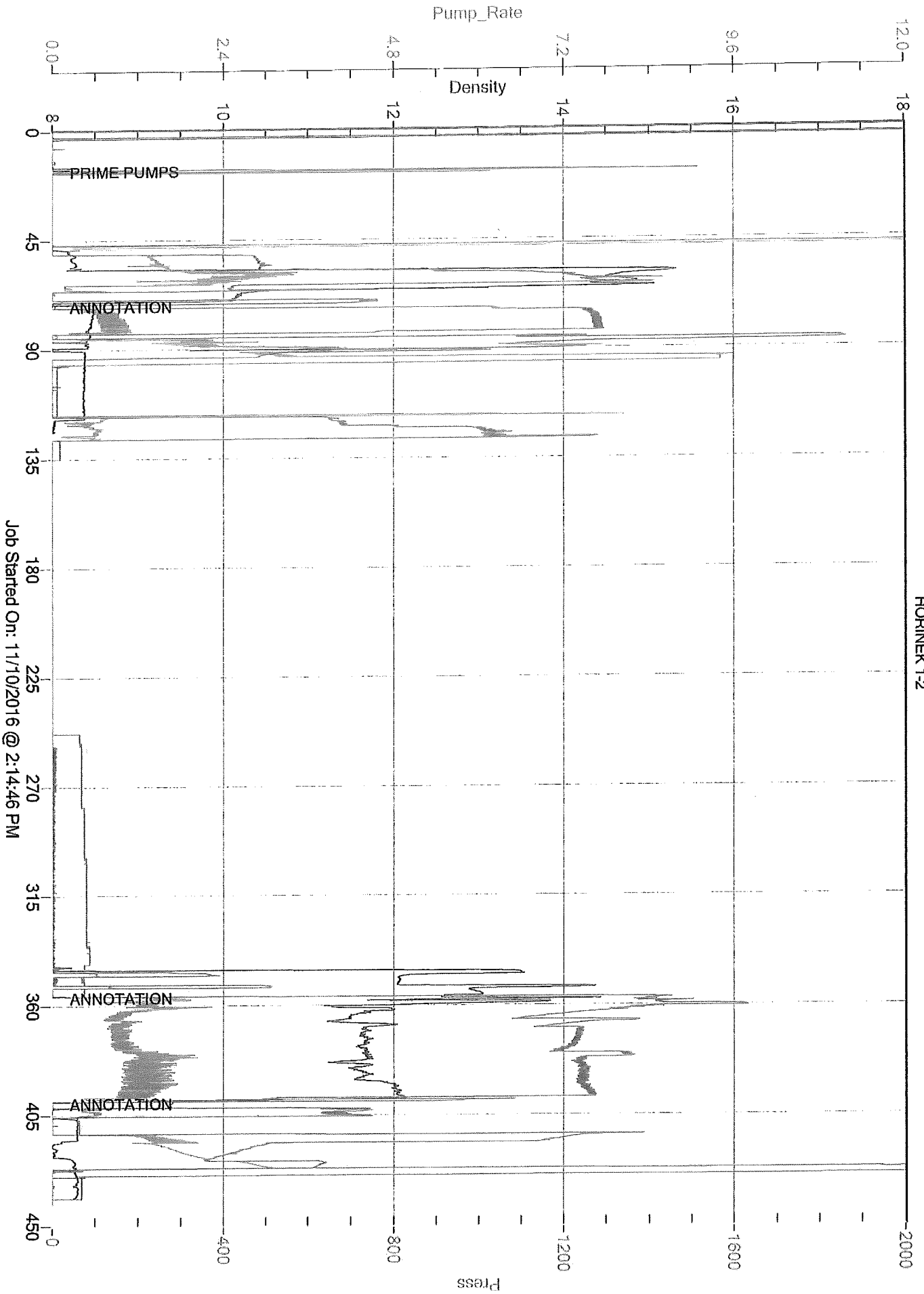
Lead/Tail:	Weight #1 Gal.	Cu/Fl/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	15	1.43	5.78	214.5	Man Hours:	14
Tail:	11.6	2.77	16.75	1177.25	# of Men on Job	3

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
8:00							ON LOC, SAFTEY MTG, R.U.
11:30							START CASING
1:45 PM							CASING ON BOTTOM ,BREAK CIRC
3:00 PM						3400	TEST LINES
3:02 PM	5	12				280	PUMP SUPERFLUSH
15:07	5	5				280	H2O SPACER
15:09	7					480	START MIXING AA-2
3:18 PM		38					FINISHED MIXING, DROP PLUG, WASHUP
13:26	7					140	START DISPLACEMENT
13:37	7	68.5				360	ON MUD
13:44	3	35.5				510	SLOW RATE
13:47		45.5				600-1580	PLUG DOWN
13:50						1580-0	RELEASE PSI, PLUG HELD
13:51							DROP BOMB
16:10	5	16				1250-100	OPEN TOOL WITH MUD
16:30							HOOK TO RIG TO CIRC
20:03							PLUG R & M
20:13	7					230	START MIXING A -CON
20:58		210					FINISHED MIXING, DROP PLUG, WASHUP
21:11	7					230	START DISPLACEMENT
21:25		45.5				500-3000	PLUG DOWN, SHUT TOOL
21:27						3000-0	RELEASE PSI, TOOL HELD
							JOB COMPLETE

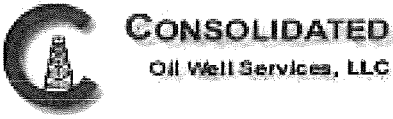
Size Hole	7 7/8	Depth	4850		TYPE	D.V. TOOL @ 1914'	
Size & Wt. Csg.	5 1/2 15.5	Depth	4814	New / Used	Packer	Depth	
lbg.		Depth			Retainer	Depth	
Top Plugs		Type			Perfs	CIBP	

Customer Signature:	Basic Representative:	CHAD HINZ
	Basic Signature:	
	Date of Service:	11/10/2016

VAL ENERGY INC
HORINEK 1-2



Job Started On: 11/10/2016 @ 2:14:46 PM



REMIT TO
 Consolidated Oil Well Services, LLC
 Dept:970
 P.O.Box 4346
 Houston, TX 77210-4346

MAIN OFFICE

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

Invoice

Invoice#

808928

Invoice Date: 10/31/16

Terms: Net 30

Page 1

VAL ENERGY

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

HORINEK 1-2

Tax: 186.30

Total: 3,863.55



DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc.**

125 N. Market STE 1110
Wichita KS 67202

ATTN: Tim Priest

Horinek #1-2

2-8s-36w Thomas,KS

Start Date: 2016.11.04 @ 03:40:15

End Date: 2016.11.04 @ 10:05:30

Job Ticket #: 65583 DST #: 1

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

Printed: 2016.11.09 @ 13:43:05



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

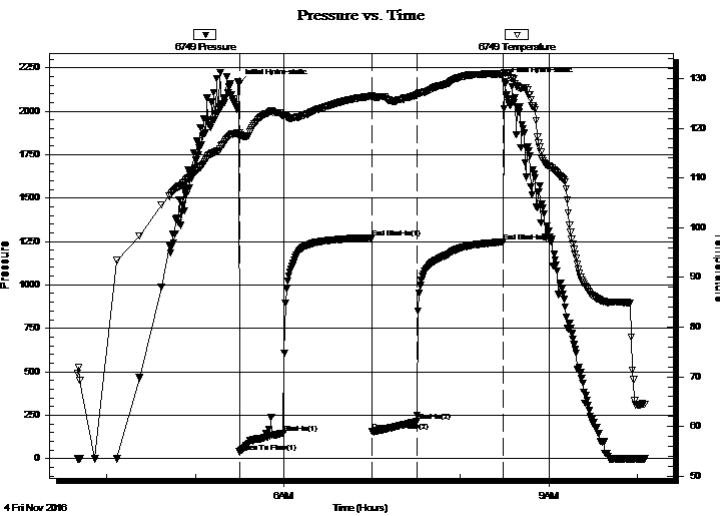
2-8s-36w Thomas,KS
Horinek #1-2
 Job Ticket: 65583 **DST#: 1**
 Test Start: 2016.11.04 @ 03:40:15

GENERAL INFORMATION:

Formation: **Toronto - LKC C**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 05:30:00 Tester: Mike Roberts
 Time Test Ended: 10:05:30 Unit No: 81
 Interval: **4103.00 ft (KB) To 4210.00 ft (KB) (TVD)** Reference Elevations: 3326.00 ft (KB)
 Total Depth: 4210.00 ft (KB) (TVD) 3321.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 6749 Outside
 Press@RunDepth: 212.70 psig @ 4205.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.11.04 End Date: 2016.11.04 Last Calib.: 2016.11.04
 Start Time: 03:40:15 End Time: 10:05:30 Time On Btm: 2016.11.04 @ 05:29:45
 Time Off Btm: 2016.11.04 @ 08:30:15

TEST COMMENT: IF: Built to 6" blow
 IS: No return blow
 FF: Built to 7" blow
 FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2156.79	119.15	Initial Hydro-static
1	38.31	118.19	Open To Flow (1)
31	147.52	122.57	Shut-In(1)
90	127.25	126.46	End Shut-In(1)
91	157.70	126.16	Open To Flow (2)
121	212.70	126.68	Shut-In(2)
180	1247.85	130.97	End Shut-In(2)
181	2172.04	131.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
365.00	mud w with a trace of oil	4.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Val Energy Inc.

2-8s-36w Thomas,KS

125 N. Market STE 1110
Wichita KS 67202

Horinek #1-2

Job Ticket: 65583

DST#: 1

ATTN: Tim Priest

Test Start: 2016.11.04 @ 03:40:15

Tool Information

Drill Pipe:	Length: 3990.00 ft	Diameter: 3.80 inches	Volume: 55.97 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 56.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4103.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	107.00 ft			
Tool Length:	131.00 ft			
Number of Packers:	2	Diameter: 7.88 inches		

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4080.00	
Shut In Tool	5.00			4085.00	
Hydraulic tool	5.00			4090.00	
Jars	5.00			4095.00	
Safety Joint	3.00			4098.00	
Packer	5.00			4103.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			4103.00	
Stubb	1.00			4104.00	
Perforations	4.00			4108.00	
Change Over Sub	1.00			4109.00	
Drill Pipe	95.00			4204.00	
Change Over Sub	1.00			4205.00	
Recorder	0.00	8672	Inside	4205.00	
Recorder	0.00	6749	Outside	4205.00	
Bullnose	5.00			4210.00	107.00 Anchor Tool

Total Tool Length: 131.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy Inc.

2-8s-36w Thomas,KS

125 N. Market STE 1110
Wichita KS 67202

Horinek #1-2

Job Ticket: 65583

DST#: 1

ATTN: Tim Priest

Test Start: 2016.11.04 @ 03:40:15

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: 77.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.11 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
365.00	mud w ith a trace of oil	4.054

Total Length: 365.00 ft Total Volume: 4.054 bbl

Num Fluid Samples: 0

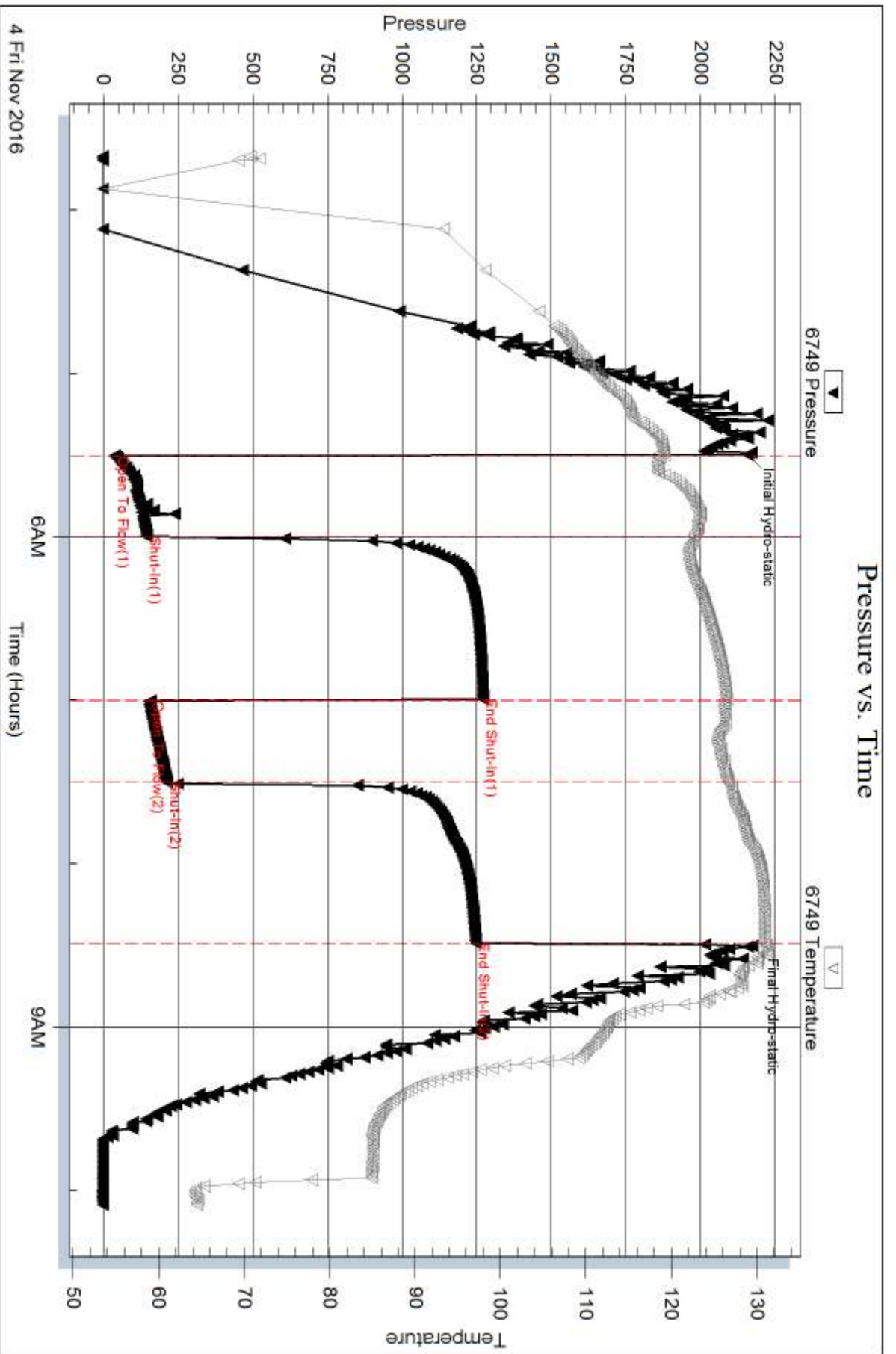
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



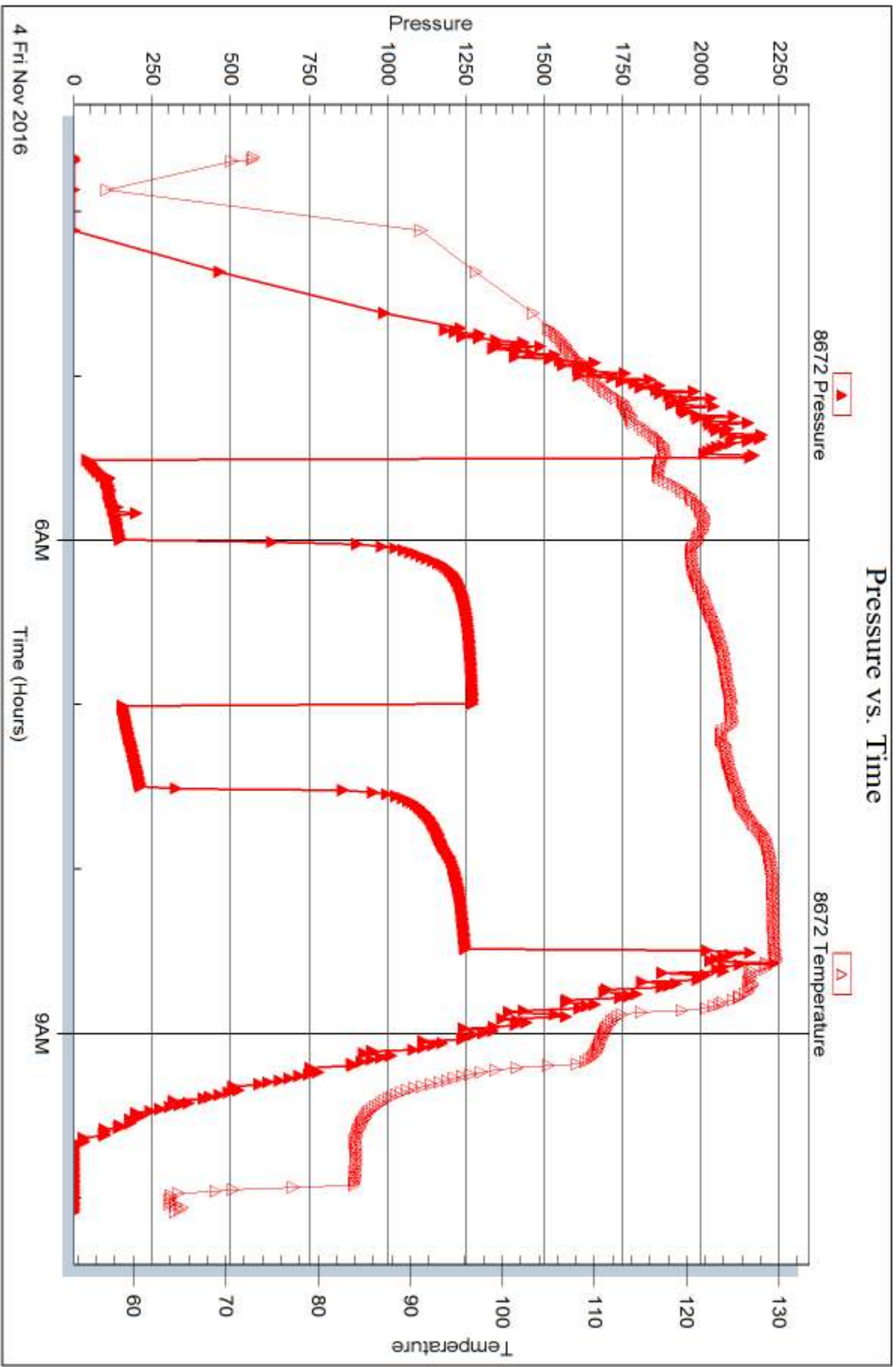
Serial #: 8672

Inside

Val Energy Inc.

Hornek #1-2

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc.**

125 N. Market STE 1110
Wichita KS 67202

ATTN: Tim Priest

Horinek #1-2

2-8s-36w Thomas,KS

Start Date: 2016.11.05 @ 01:38:15

End Date: 2016.11.05 @ 08:13:00

Job Ticket #: 65584 DST #: 2

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

Printed: 2016.11.09 @ 13:36:16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

2-8s-36w Thomas,KS
Horinek #1-2
Job Ticket: 65584 **DST#: 2**
Test Start: 2016.11.05 @ 01:38:15

GENERAL INFORMATION:

Formation: **LKC H - J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:28:30
 Time Test Ended: 08:13:00
 Interval: **4283.00 ft (KB) To 4350.00 ft (KB) (TVD)**
 Total Depth: 4350.00 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: 3326.00 ft (KB)
 3321.00 ft (CF)
 KB to GR/CF: 5.00 ft

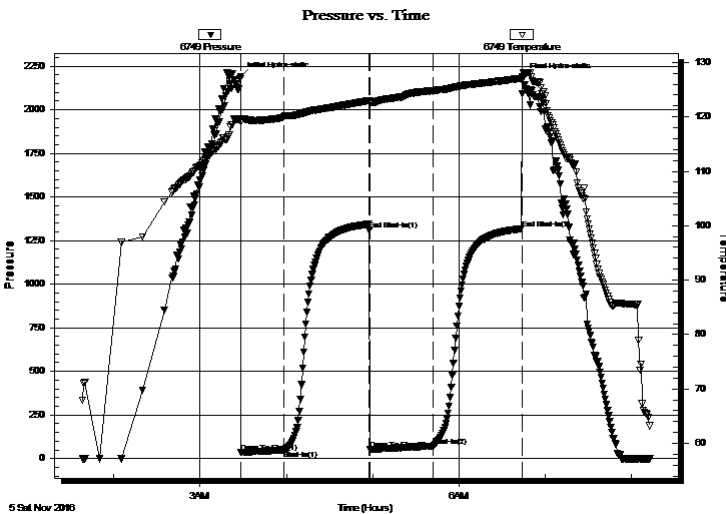
Serial #: 6749

Outside

Press@RunDepth: 71.64 psig @ 4321.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.11.05 End Date: 2016.11.05 Last Calib.: 2016.11.05
 Start Time: 01:38:15 End Time: 08:13:00 Time On Btm: 2016.11.05 @ 03:28:15
 Time Off Btm: 2016.11.05 @ 06:45:00

TEST COMMENT: IF: Built to 3" blow
 IS: No return blow
 FF: Built to 3 1/2" blow
 FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2190.76	119.62	Initial Hydro-static
1	34.72	119.14	Open To Flow (1)
31	48.44	120.09	Shut-In(1)
90	1310.66	122.98	End Shut-In(1)
90	54.08	122.60	Open To Flow (2)
134	71.64	124.80	Shut-In(2)
196	1318.22	127.07	End Shut-In(2)
197	2184.29	128.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
117.00	ocm 15%o 85%m	0.58

* 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.

2-8s-36w Thomas,KS

125 N. Market STE 1110
Wichita KS 67202

Horinek #1-2

Job Ticket: 65584

DST#: 2

ATTN: Tim Priest

Test Start: 2016.11.05 @ 01:38:15

Tool Information

Drill Pipe:	Length: 4149.00 ft	Diameter: 3.80 inches	Volume: 58.20 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 58.78 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4283.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	67.00 ft				
Tool Length:	91.00 ft				
Number of Packers:	2	Diameter: 7.88 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4260.00	
Shut In Tool	5.00			4265.00	
Hydraulic tool	5.00			4270.00	
Jars	5.00			4275.00	
Safety Joint	3.00			4278.00	
Packer	5.00			4283.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			4283.00	
Stubb	1.00			4284.00	
Perforations	4.00			4288.00	
Change Over Sub	1.00			4289.00	
Drill Pipe	31.00			4320.00	
Change Over Sub	1.00			4321.00	
Recorder	0.00	8672	Inside	4321.00	
Recorder	0.00	6749	Outside	4321.00	
Perforations	24.00			4345.00	
Bullnose	5.00			4350.00	67.00 Anchor Tool
Total Tool Length:	91.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy Inc.

2-8s-36w Thomas,KS

125 N. Market STE 1110
Wichita KS 67202

Horinek #1-2

Job Ticket: 65584

DST#: 2

ATTN: Tim Priest

Test Start: 2016.11.05 @ 01:38:15

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.71 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
117.00	ocm 15%o 85%m	0.575

Total Length: 117.00 ft Total Volume: 0.575 bbl

Num Fluid Samples: 0

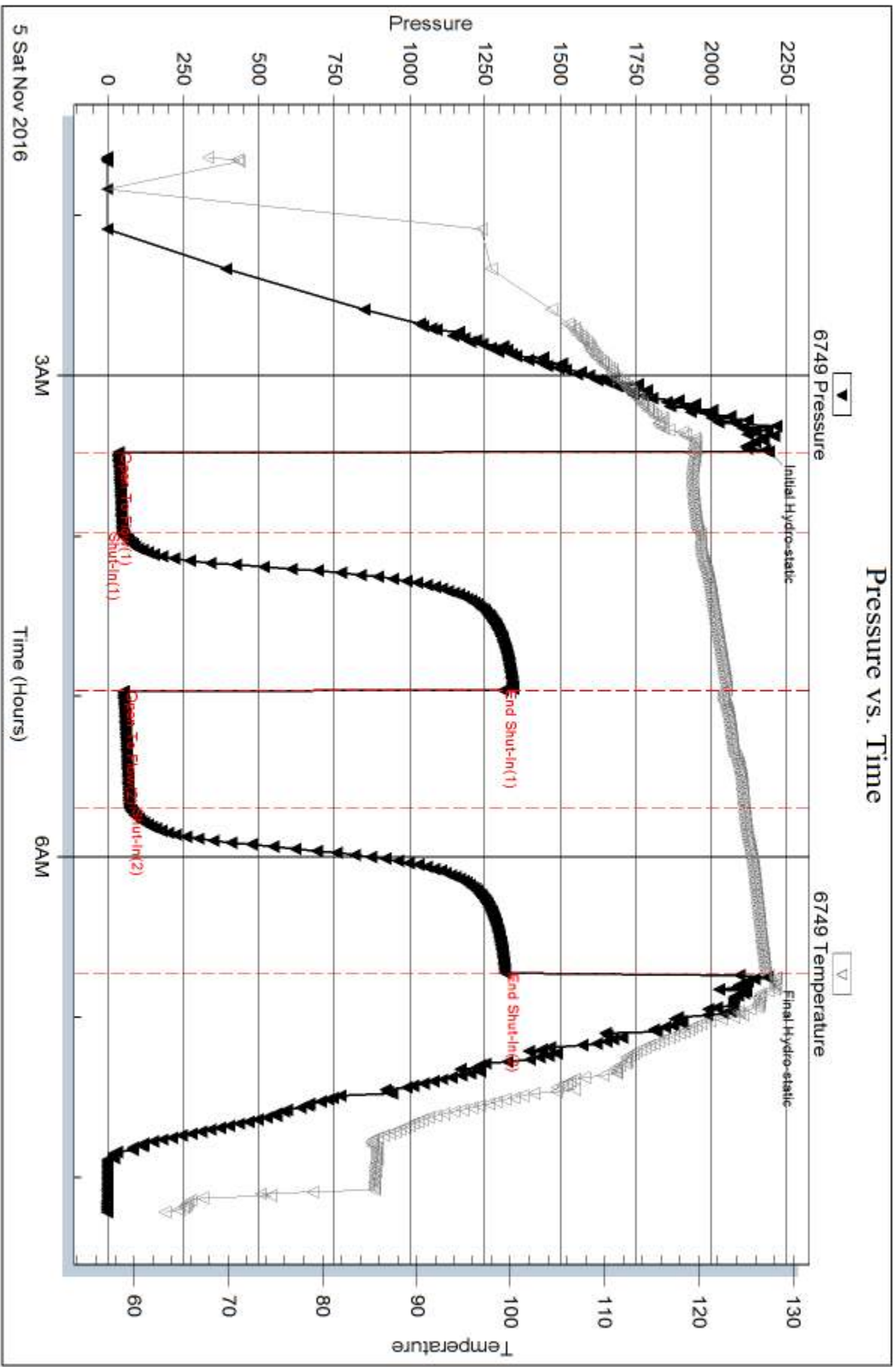
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



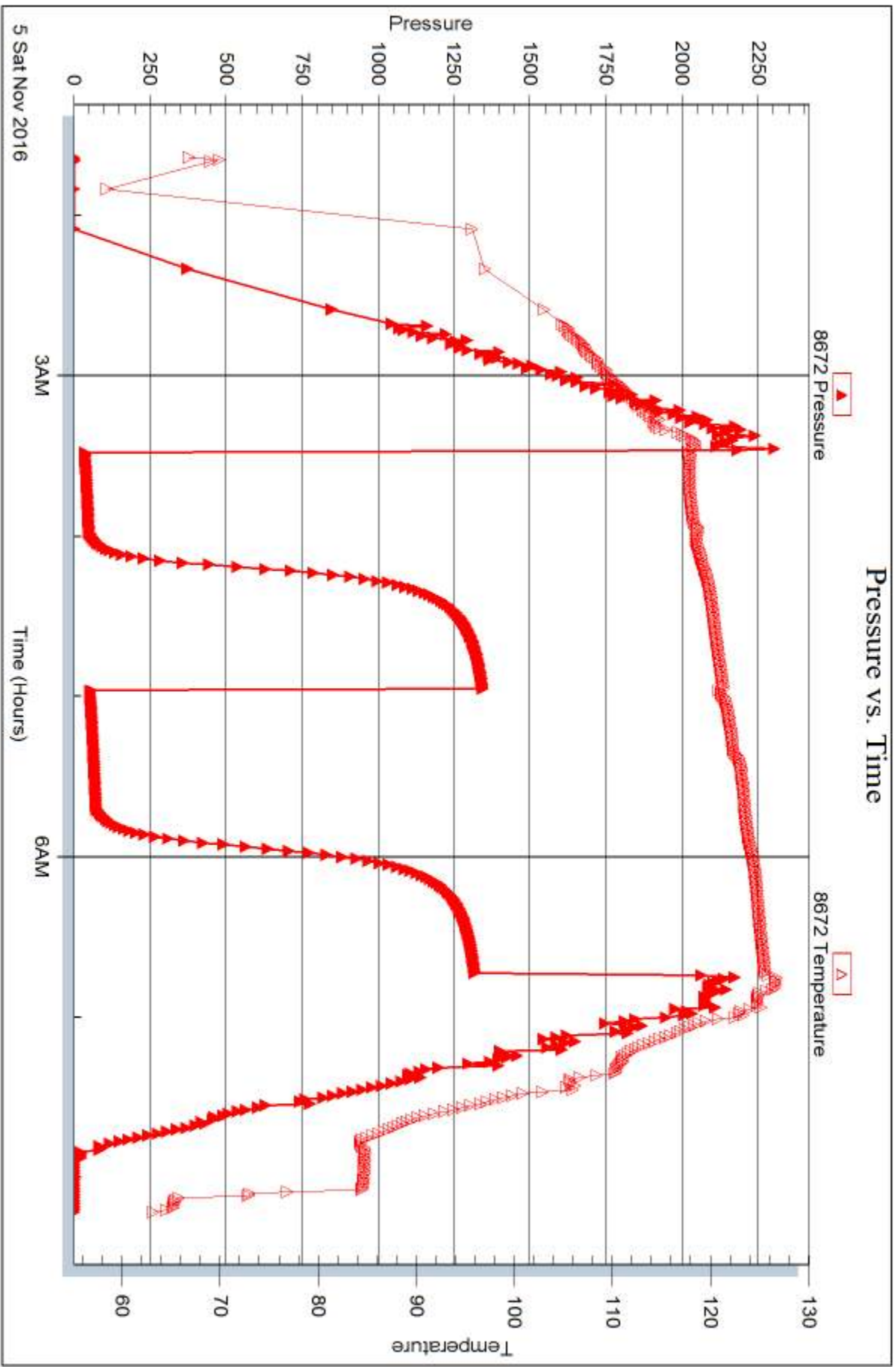
Serial #: 8672

Inside

Val Energy Inc.

Hornek #1-2

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc.**

125 N. Market STE 1110
Wichita KS 67202

ATTN: Tim Priest

Horinek #1-2

2-8s-36w Thomas,KS

Start Date: 2016.11.05 @ 00:38:00

End Date: 2016.11.05 @ 06:23:00

Job Ticket #: 65586 DST #: 3

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

Printed: 2016.11.09 @ 13:35:47

Val Energy Inc. 2-8s-36w Thomas,KS Horinek #1-2 DST # 3 Marmaton A-C 2016.11.05



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

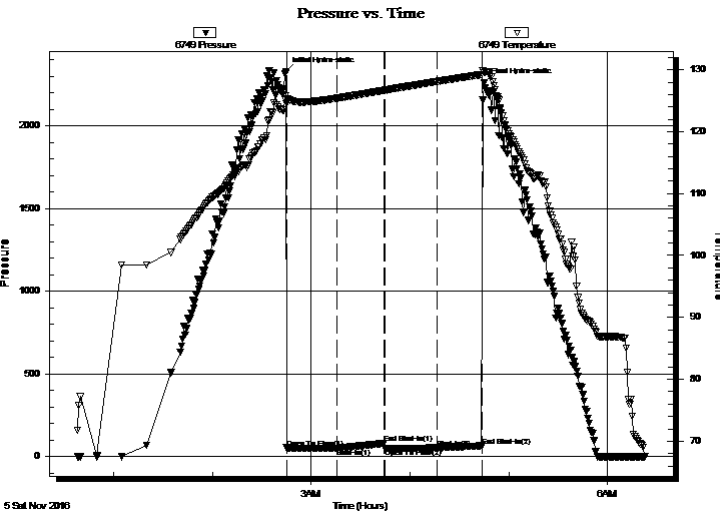
2-8s-36w Thomas,KS
Horinek #1-2
 Job Ticket: 65586 **DST#: 3**
 Test Start: 2016.11.05 @ 00:38:00

GENERAL INFORMATION:

Formation: **Marmaton A-C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:45:15
 Time Test Ended: 06:23:00
 Interval: **4418.00 ft (KB) To 4510.00 ft (KB) (TVD)**
 Total Depth: 4510.00 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: 3326.00 ft (KB)
 3321.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6749 Outside
 Press@RunDepth: 51.66 psig @ 4490.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.11.05 End Date: 2016.11.05 Last Calib.: 2016.11.06
 Start Time: 00:38:15 End Time: 06:23:00 Time On Btm: 2016.11.05 @ 02:44:45
 Time Off Btm: 2016.11.05 @ 04:45:00

TEST COMMENT: IF: Built to 1/8" blow
 IS: No return blow
 FF: No blow
 FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2327.50	125.79	Initial Hydro-static
1	49.13	125.23	Open To Flow (1)
31	50.62	125.39	Shut-In(1)
60	80.56	126.67	End Shut-In(1)
60	49.90	126.67	Open To Flow (2)
92	51.66	128.09	Shut-In(2)
119	63.73	129.21	End Shut-In(2)
121	2261.33	129.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud w ith oil spots	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Val Energy Inc.

2-8s-36w Thomas,KS

125 N. Market STE 1110
Wichita KS 67202

Horinek #1-2

Job Ticket: 65586

DST#: 3

ATTN: Tim Priest

Test Start: 2016.11.05 @ 00:38:00

Tool Information

Drill Pipe:	Length: 4303.00 ft	Diameter: 3.80 inches	Volume: 60.36 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4418.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	116.00 ft			
Number of Packers:	2	Diameter: 7.88 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4395.00	
Shut In Tool	5.00			4400.00	
Hydraulic tool	5.00			4405.00	
Jars	5.00			4410.00	
Safety Joint	3.00			4413.00	
Packer	5.00			4418.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			4418.00	
Stubb	1.00			4419.00	
Perforations	5.00			4424.00	
Change Over Sub	1.00			4425.00	
Drill Pipe	64.00			4489.00	
Change Over Sub	1.00			4490.00	
Recorder	0.00	8672	Inside	4490.00	
Recorder	0.00	6749	Outside	4490.00	
Perforations	15.00			4505.00	
Bullnose	5.00			4510.00	92.00 Anchor Tool
Total Tool Length:	116.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy Inc.

2-8s-36w Thomas,KS

125 N. Market STE 1110
Wichita KS 67202

Horinek #1-2

Job Ticket: 65586

DST#: 3

ATTN: Tim Priest

Test Start: 2016.11.05 @ 00:38:00

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: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.52 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud w ith oil spots	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

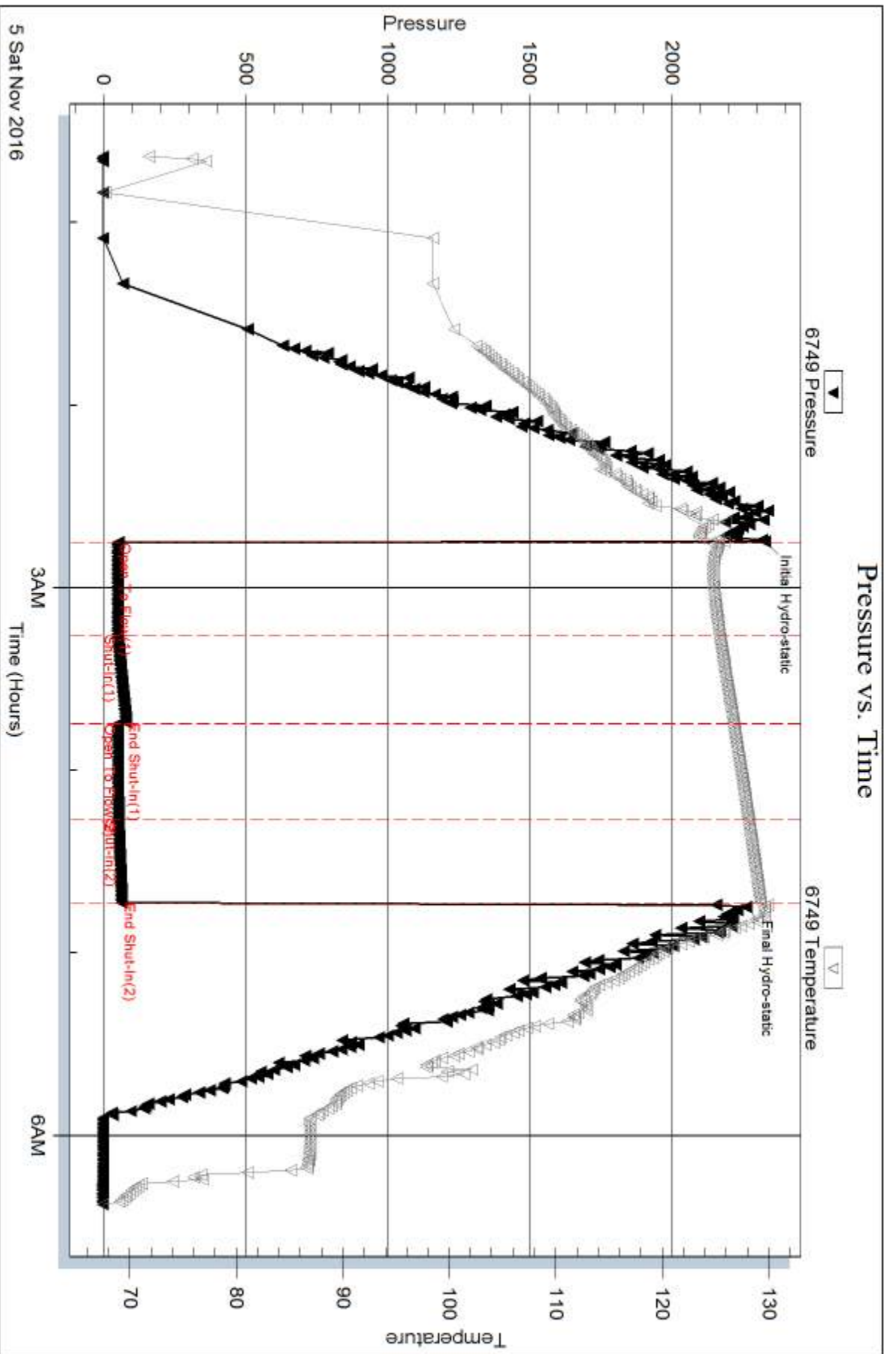
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



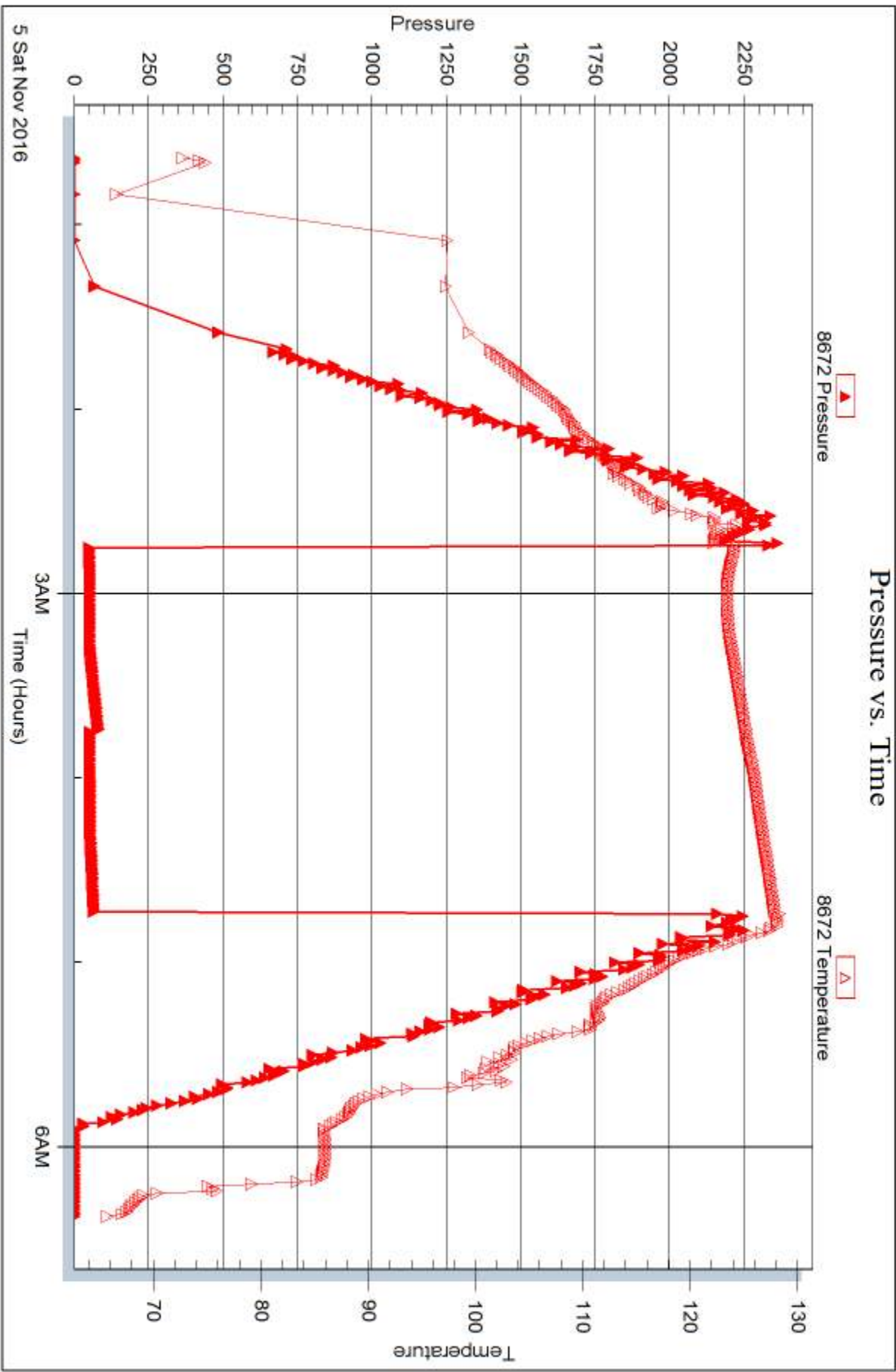
Serial #: 8672

Inside

Val Energy Inc.

Hornek #1-2

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65586

Printed: 2016.11.09 @ 13:35:48



DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc.**

125 N. Market STE 1110
Wichita KS 67202

ATTN: Tim Priest

Horinek #1-2

2-8s-36w Thomas,KS

Start Date: 2016.11.06 @ 12:55:15

End Date: 2016.11.06 @ 20:50:15

Job Ticket #: 65587 DST #: 4

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

Printed: 2016.11.09 @ 13:35:22



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

2-8s-36w Thomas,KS
Horinek #1-2
 Job Ticket: 65587 **DST#: 4**
 Test Start: 2016.11.06 @ 12:55:15

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:43:45
 Time Test Ended: 20:50:15
 Interval: **4505.00 ft (KB) To 4550.00 ft (KB) (TVD)**
 Total Depth: 4550.00 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: 3326.00 ft (KB)
 3321.00 ft (CF)
 KB to GR/CF: 5.00 ft

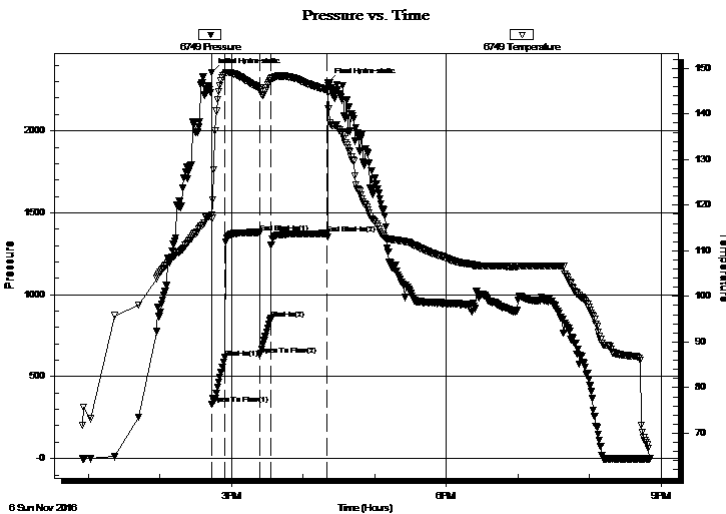
Serial #: 6749

Outside

Press@RunDepth: 853.46 psig @ 4545.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.11.06 End Date: 2016.11.06 Last Calib.: 2016.11.06
 Start Time: 12:55:15 End Time: 20:50:15 Time On Btm: 2016.11.06 @ 14:43:30
 Time Off Btm: 2016.11.06 @ 16:21:00

TEST COMMENT: IF:BOB in 1 min.
 IS:BOB in 4 min.
 FF:BOB instantly
 FS:BOB in 4 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2354.41	117.90	Initial Hydro-static
1	329.83	117.11	Open To Flow (1)
11	615.31	148.71	Shut-In(1)
40	1379.18	145.69	End Shut-In(1)
40	630.33	145.35	Open To Flow (2)
50	853.46	147.35	Shut-In(2)
97	1373.02	145.27	End Shut-In(2)
98	2292.29	144.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2101.00	gco 50%g 50%o	28.41
0.00	GIP= 1984	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.

2-8s-36w Thomas,KS

125 N. Market STE 1110
Wichita KS 67202

Horinek #1-2

Job Ticket: 65587

DST#: 4

ATTN: Tim Priest

Test Start: 2016.11.06 @ 12:55:15

Tool Information

Drill Pipe:	Length: 4370.00 ft	Diameter: 3.80 inches	Volume: 61.30 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 61.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4505.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	69.00 ft			
Number of Packers:	2	Diameter: 7.88 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4482.00	
Shut In Tool	5.00			4487.00	
Hydraulic tool	5.00			4492.00	
Jars	5.00			4497.00	
Safety Joint	3.00			4500.00	
Packer	5.00			4505.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			4505.00	
Stubb	1.00			4506.00	
Perforations	5.00			4511.00	
Change Over Sub	1.00			4512.00	
Drill Pipe	32.00			4544.00	
Change Over Sub	1.00			4545.00	
Recorder	0.00	8672	Inside	4545.00	
Recorder	0.00	6749	Outside	4545.00	
Bullnose	5.00			4550.00	45.00 Anchor Tool

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy Inc.

2-8s-36w Thomas,KS

125 N. Market STE 1110
Wichita KS 67202

Horinek #1-2

Job Ticket: 65587

DST#: 4

ATTN: Tim Priest

Test Start: 2016.11.06 @ 12:55:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.15 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2101.00	gco 50%g 50%o	28.406
0.00	GIP= 1984	0.000

Total Length: 2101.00 ft Total Volume: 28.406 bbl

Num Fluid Samples: 0

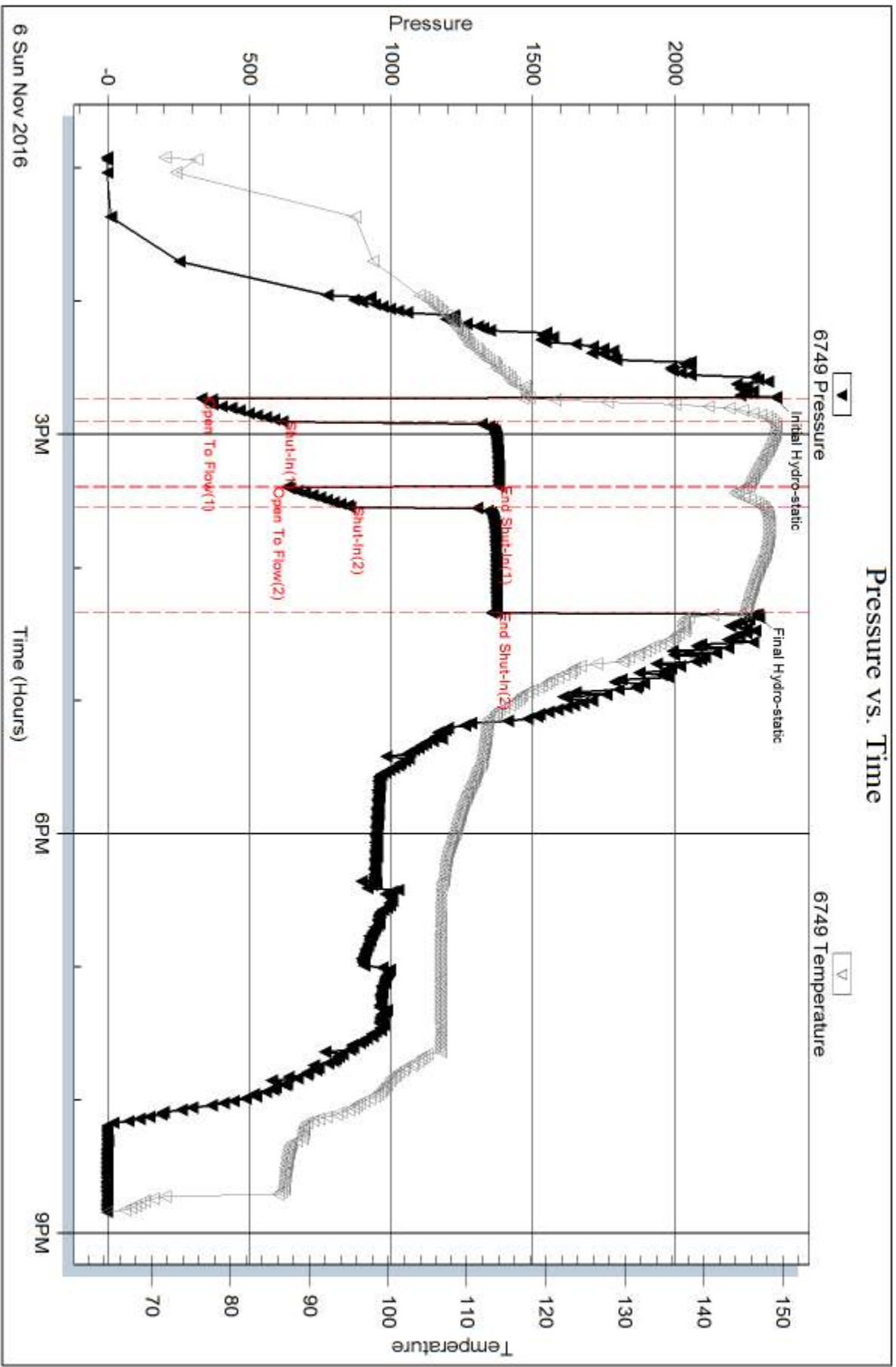
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API 35@60 corrected to 35



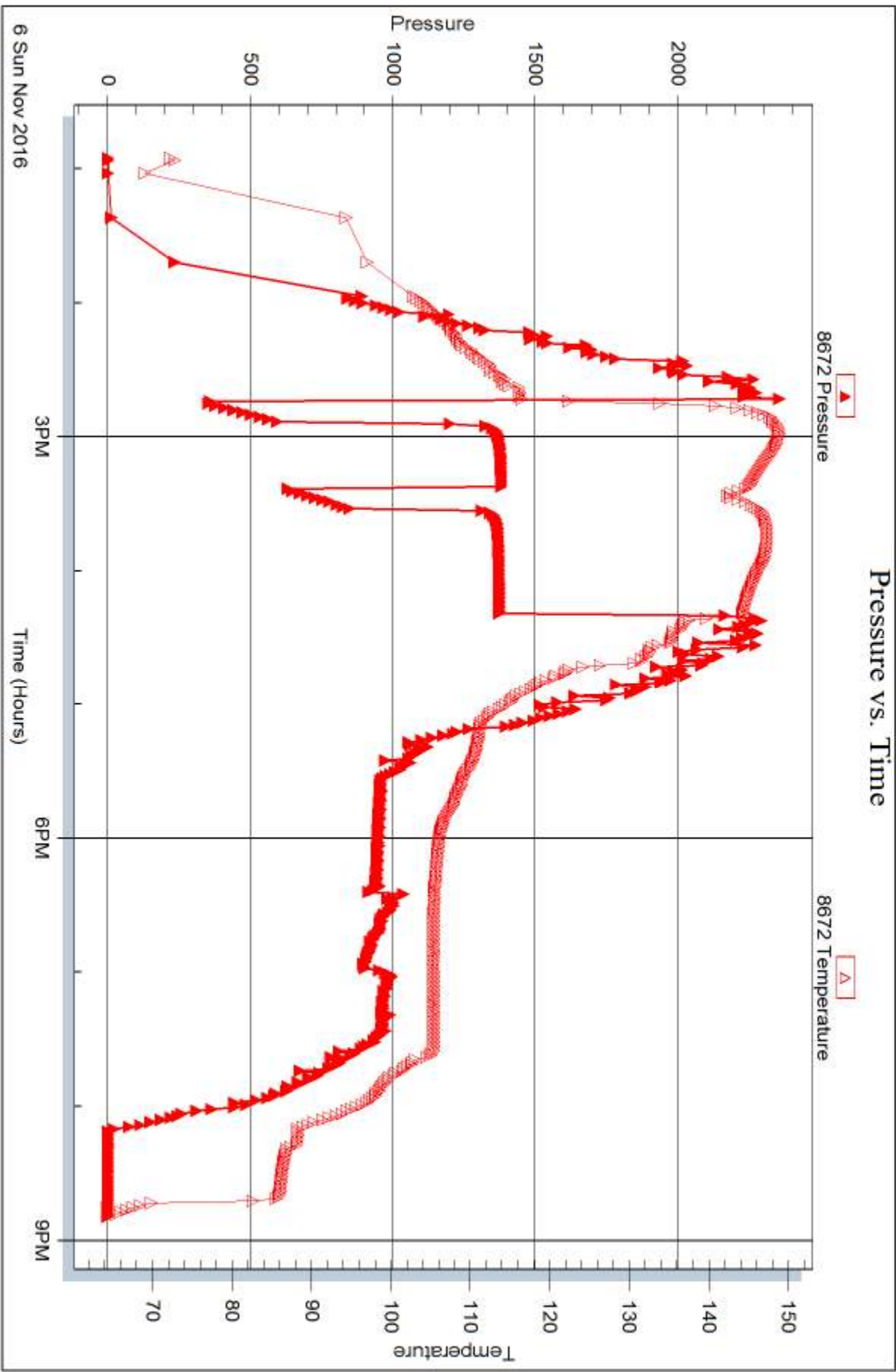
Serial #: 8672

Inside

Val Energy Inc.

Hornek #1-2

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 65587

Printed: 2016.11.09 @ 13:35:23



DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc.**

125 N. Market STE 1110
Wichita KS 67202

ATTN: Tim Priest

Horinek #1-2

2-8s-36w Thomas,KS

Start Date: 2016.11.07 @ 03:58:15

End Date: 2016.11.07 @ 09:47:45

Job Ticket #: 65588 DST #: 5

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

Printed: 2016.11.09 @ 13:34:52



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

2-8s-36w Thomas,KS
Horinek #1-2
 Job Ticket: 65588 **DST#: 5**
 Test Start: 2016.11.07 @ 03:58:15

GENERAL INFORMATION:

Formation: **Myrick Station**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:01:30
 Time Test Ended: 09:47:45
 Interval: **4552.00 ft (KB) To 4580.00 ft (KB) (TVD)**
 Total Depth: 4580.00 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: 3326.00 ft (KB)
 3321.00 ft (CF)
 KB to GR/CF: 5.00 ft

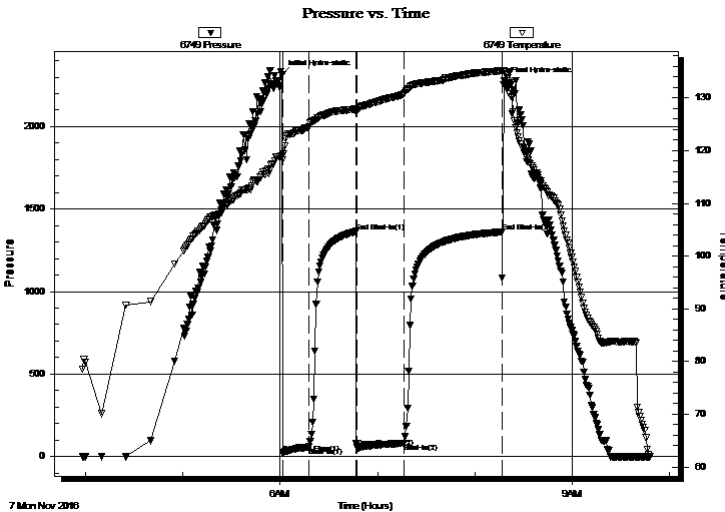
Serial #: 6749

Outside

Press@RunDepth: 81.18 psig @ 4555.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.11.07 End Date: 2016.11.07 Last Calib.: 2016.11.07
 Start Time: 03:58:15 End Time: 09:47:45 Time On Btm: 2016.11.07 @ 06:01:15
 Time Off Btm: 2016.11.07 @ 08:18:00

TEST COMMENT: IF:BOB in 10 min
 IS:No return blow
 FF:BOB in 8 min.
 FS:Return blow built to 1/8" blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2317.06	119.00	Initial Hydro-static
1	21.26	118.32	Open To Flow (1)
17	54.71	124.36	Shut-In(1)
46	1364.54	127.92	End Shut-In(1)
46	54.48	127.65	Open To Flow (2)
75	81.18	130.80	Shut-In(2)
136	1362.02	135.21	End Shut-In(2)
137	2275.56	134.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
117.00	mcco 20% m 40% g 40% o	0.58
94.00	gcmo 5% g 30% m 65% o	1.32
0.00	GIP= 590 ft	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.

2-8s-36w Thomas,KS

125 N. Market STE 1110
Wichita KS 67202

Horinek #1-2

Job Ticket: 65588

DST#: 5

ATTN: Tim Priest

Test Start: 2016.11.07 @ 03:58:15

Tool Information

Drill Pipe:	Length: 4439.00 ft	Diameter: 3.80 inches	Volume: 62.27 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 62.85 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4552.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	28.00 ft				
Tool Length:	52.00 ft				
Number of Packers:	2	Diameter: 7.88 inches			

Tool Comments:

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

Change Over Sub	1.00			4529.00	
Shut In Tool	5.00			4534.00	
Hydraulic tool	5.00			4539.00	
Jars	5.00			4544.00	
Safety Joint	3.00			4547.00	
Packer	5.00			4552.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			4552.00	
Stubb	1.00			4553.00	
Perforations	2.00			4555.00	
Recorder	0.00	8672	Inside	4555.00	
Recorder	0.00	6749	Outside	4555.00	
Perforations	20.00			4575.00	
Bullnose	5.00			4580.00	28.00 Anchor Tool

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy Inc.

2-8s-36w Thomas,KS

125 N. Market STE 1110
Wichita KS 67202

Horinek #1-2

Job Ticket: 65588

DST#: 5

ATTN: Tim Priest

Test Start: 2016.11.07 @ 03:58:15

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
117.00	mcgo 20%m 40%g 40%o	0.575
94.00	gcmo 5%g 30%m 65%o	1.319
0.00	GIP= 590 ft	0.000

Total Length: 211.00 ft Total Volume: 1.894 bbl

Num Fluid Samples: 0

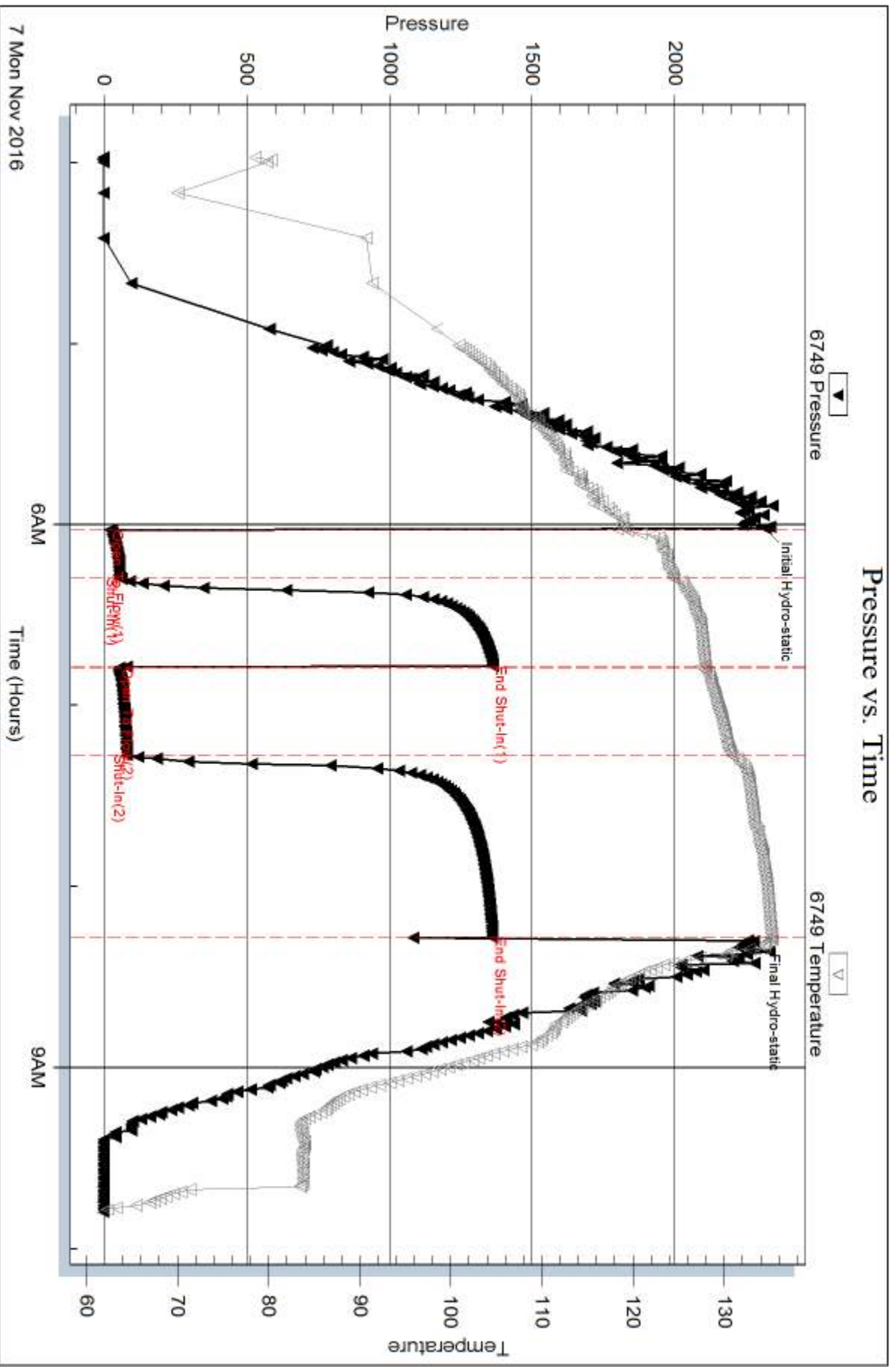
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



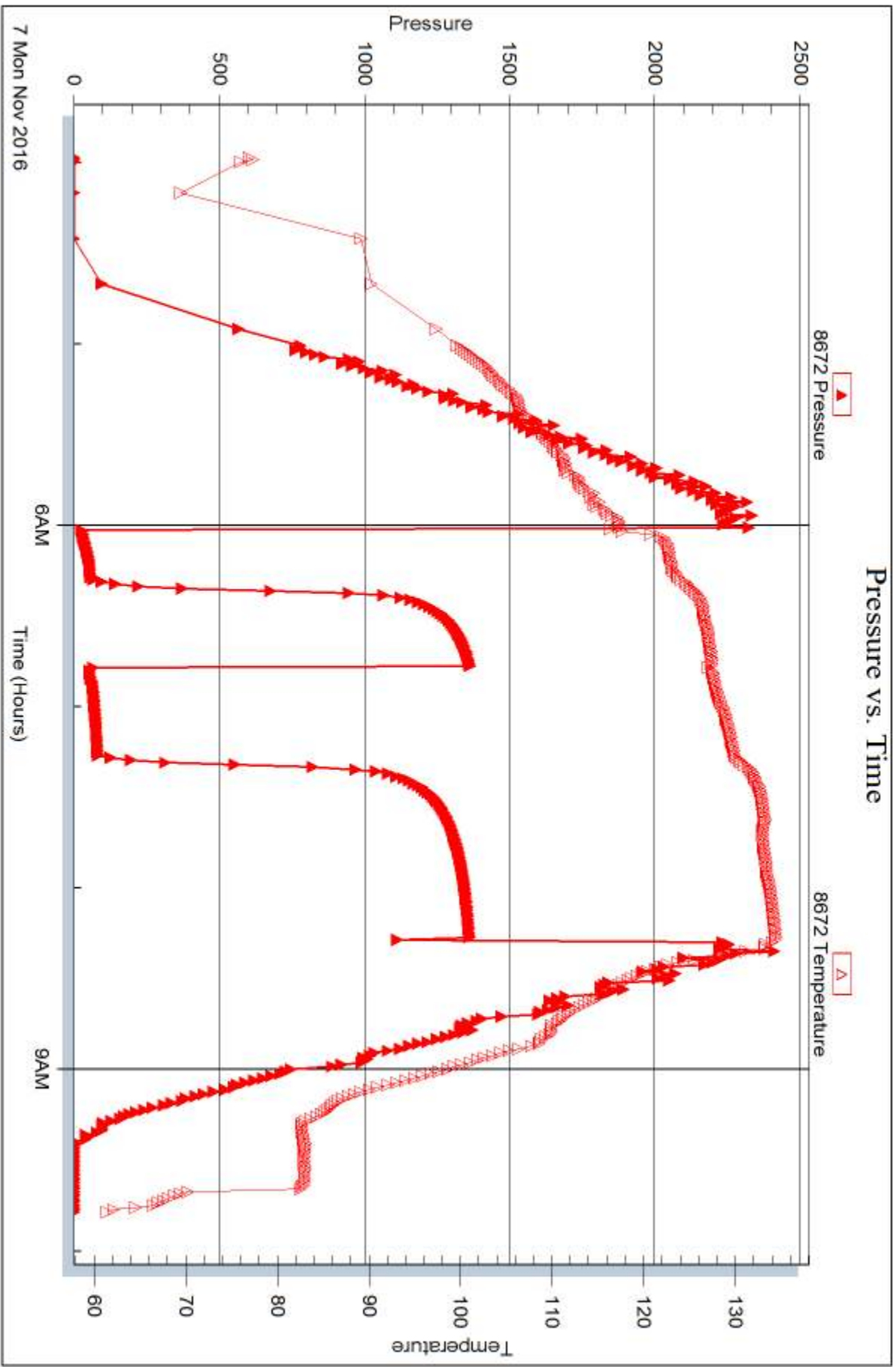
Serial #: 8672

Inside

Val Energy Inc.

Hornek #1-2

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 65588

Printed: 2016.11.09 @ 13:34:54



DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc.**

125 N. Market STE 1110
Wichita KS 67202

ATTN: Tim Priest

Horinek #1-2

2-8s-36w Thomas,KS

Start Date: 2016.11.07 @ 19:01:15

End Date: 2016.11.08 @ 02:54:00

Job Ticket #: 65589 DST #: 6

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

Printed: 2016.11.09 @ 13:31:49



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

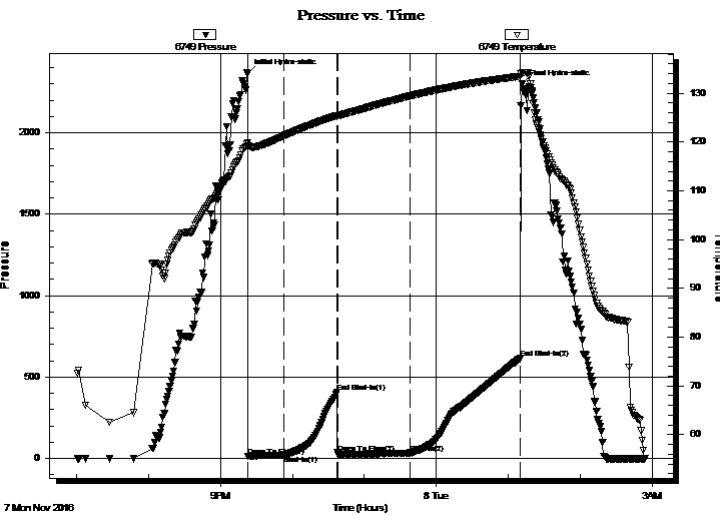
2-8s-36w Thomas,KS
Horinek #1-2
Job Ticket: 65589 **DST#: 6**
Test Start: 2016.11.07 @ 19:01:15

GENERAL INFORMATION:

Formation: **Ft.Scott Cherokee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:23:00
 Time Test Ended: 02:54:00
 Interval: **4604.00 ft (KB) To 4645.00 ft (KB) (TVD)**
 Total Depth: 4545.00 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: 3326.00 ft (KB)
 3321.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6749 Outside
 Press@RunDepth: 33.05 psig @ 4640.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.11.07 End Date: 2016.11.08 Last Calib.: 2016.11.08
 Start Time: 19:01:15 End Time: 02:54:00 Time On Btm: 2016.11.07 @ 21:22:45
 Time Off Btm: 2016.11.08 @ 01:11:15

TEST COMMENT: IF:Built to 2 1/2" 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	2365.64	119.86	Initial Hydro-static
1	14.37	119.08	Open To Flow (1)
31	22.04	121.23	Shut-In(1)
75	406.78	125.45	End Shut-In(1)
75	34.91	125.30	Open To Flow (2)
135	33.05	129.39	Shut-In(2)
227	615.10	133.47	End Shut-In(2)
229	2299.14	134.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	ocm 40%o 60%m	0.10

* 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.

2-8s-36w Thomas,KS

125 N. Market STE 1110
Wichita KS 67202

Horinek #1-2

Job Ticket: 65589

DST#: 6

ATTN: Tim Priest

Test Start: 2016.11.07 @ 19:01:15

Tool Information

Drill Pipe:	Length: 4470.00 ft	Diameter: 3.80 inches	Volume: 62.70 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 63.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4604.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 7.88 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4581.00	
Shut In Tool	5.00			4586.00	
Hydraulic tool	5.00			4591.00	
Jars	5.00			4596.00	
Safety Joint	3.00			4599.00	
Packer	5.00			4604.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			4604.00	
Stubb	1.00			4605.00	
Perforations	1.00			4606.00	
Change Over Sub	1.00			4607.00	
Drill Pipe	32.00			4639.00	
Change Over Sub	1.00			4640.00	
Recorder	0.00	8672	Inside	4640.00	
Recorder	0.00	6749	Outside	4640.00	
Bullnose	5.00			4645.00	41.00 Anchor Tool

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy Inc.

2-8s-36w Thomas,KS

125 N. Market STE 1110
Wichita KS 67202

Horinek #1-2

Job Ticket: 65589

DST#: 6

ATTN: Tim Priest

Test Start: 2016.11.07 @ 19:01:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.56 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	ocm 40%o 60%m	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

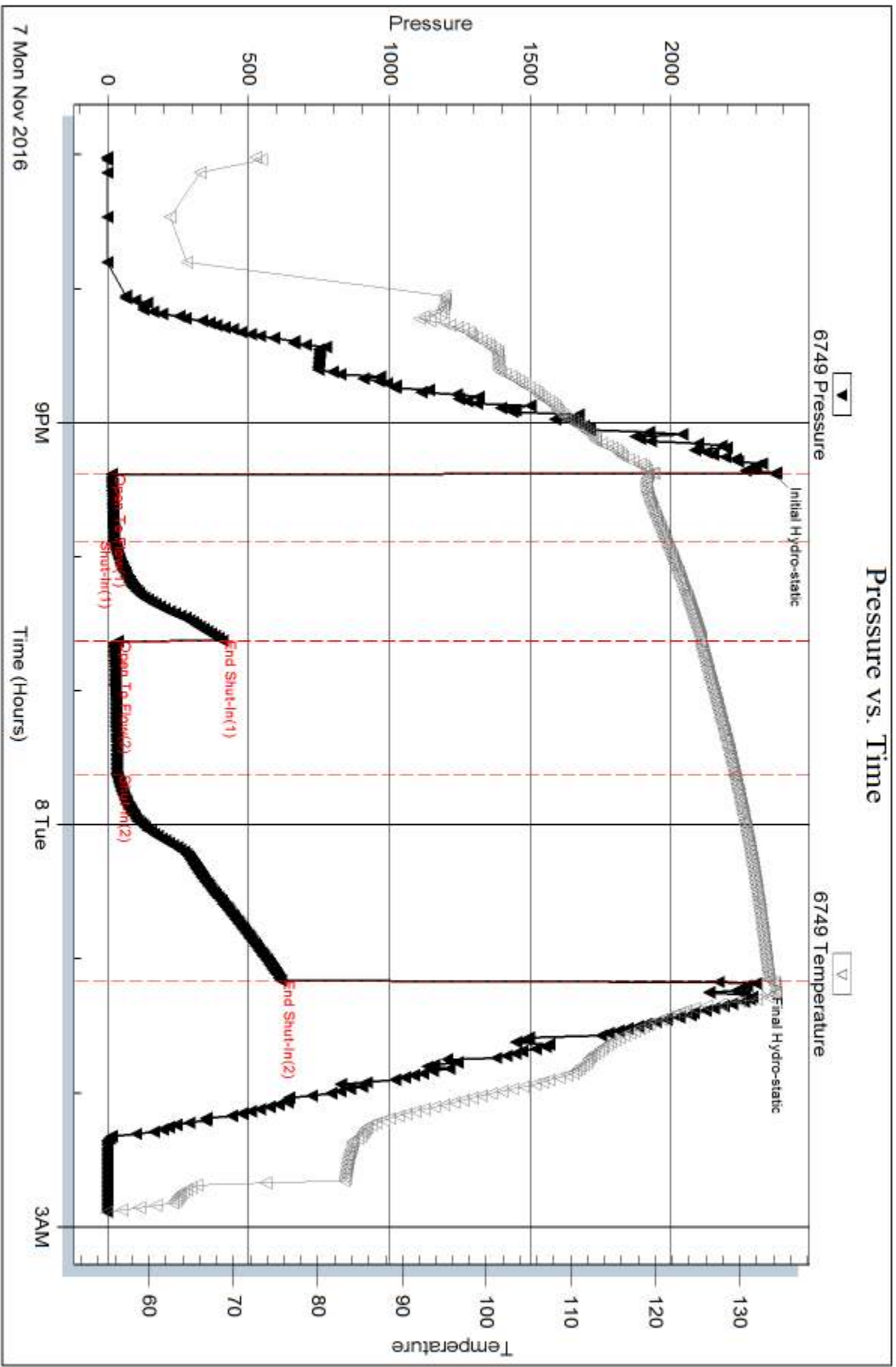
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API= 21 @ 60 corrected to 21



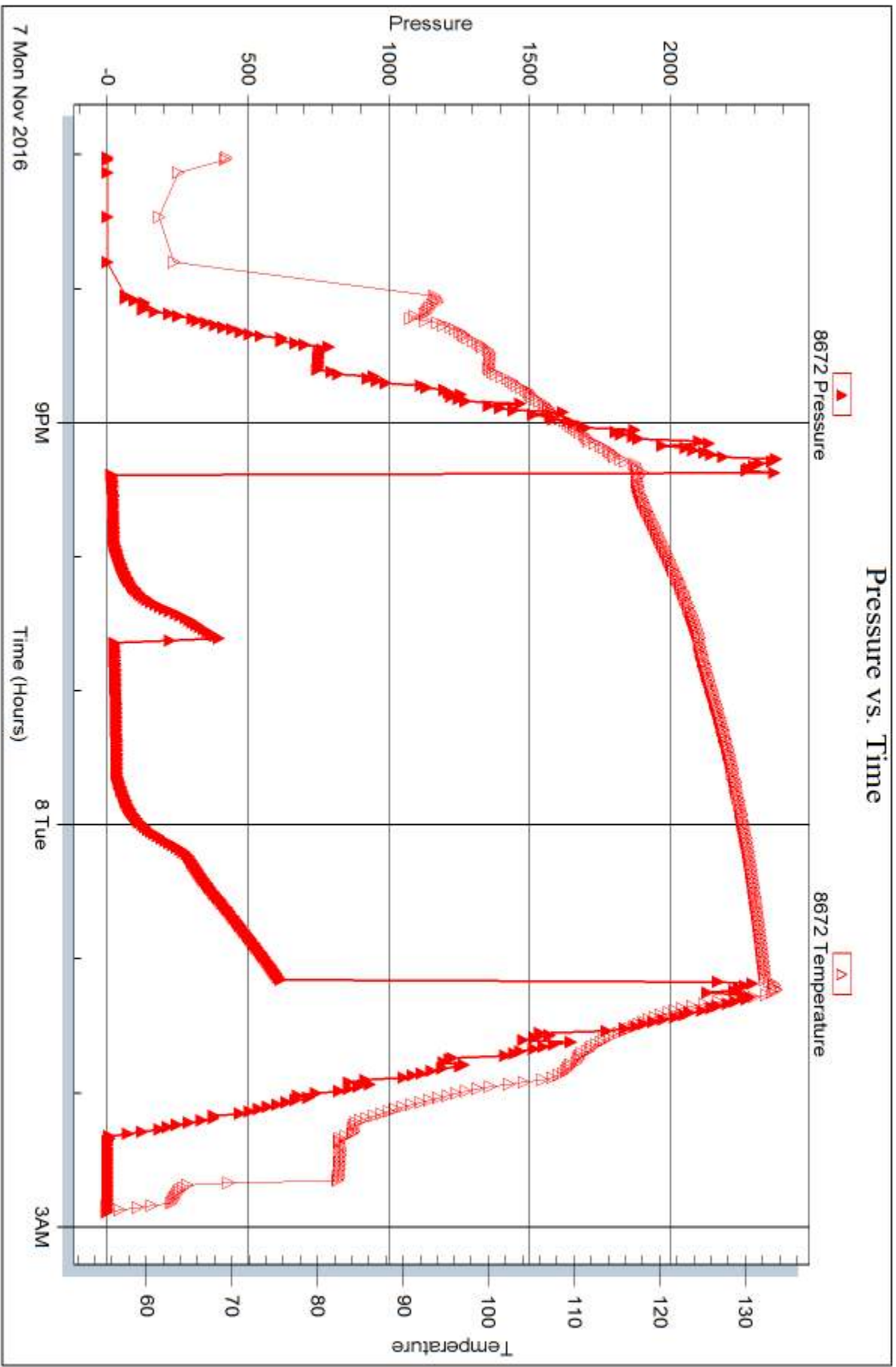
Serial #: 8672

Inside

Val Energy Inc.

Hornek #1-2

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 65589

Printed: 2016.11.09 @ 13:31:50



DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc.**

125 N. Market STE 1110
Wichita KS 67202

ATTN: Tim Priest

Horinek #1-2

2-8s-36w Thomas,KS

Start Date: 2016.11.08 @ 10:23:15

End Date: 2016.11.08 @ 18:40:15

Job Ticket #: 65590 DST #: 7

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

Printed: 2016.11.09 @ 13:31:07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

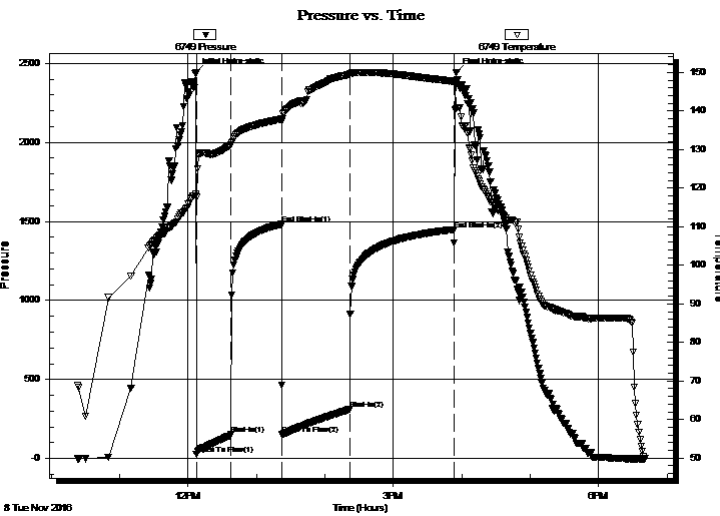
2-8s-36w Thomas,KS
Horinek #1-2
Job Ticket: 65590 **DST#: 7**
Test Start: 2016.11.08 @ 10:23:15

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:07:15
Time Test Ended: 18:40:15
Interval: **4652.00 ft (KB) To 4670.00 ft (KB) (TVD)**
Total Depth: 4670.00 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: 3326.00 ft (KB)
3321.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6749 Outside
Press@RunDepth: 311.33 psig @ 4655.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.11.08 End Date: 2016.11.08 Last Calib.: 2016.11.08
Start Time: 10:23:15 End Time: 18:40:15 Time On Btm: 2016.11.08 @ 12:07:00
Time Off Btm: 2016.11.08 @ 15:55:15

TEST COMMENT: IF:BOB in 9 min.
IS:Return blow built to 2"
FF:BOB in 11 min.
FS:Return blow built to 1"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2439.64	118.44	Initial Hydro-static
1	26.77	117.61	Open To Flow (1)
31	151.19	131.33	Shut-In(1)
75	1482.44	137.88	End Shut-In(1)
76	152.91	137.95	Open To Flow (2)
135	311.33	149.44	Shut-In(2)
226	1449.01	147.69	End Shut-In(2)
229	2442.97	140.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
117.00	mco 10% m 20% g 70% o	0.58
806.00	gco 20% g 80% o	11.31
0.00	GIP= 124 ft	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.

2-8s-36w Thomas,KS

125 N. Market STE 1110
Wichita KS 67202

Horinek #1-2

Job Ticket: 65590

DST#: 7

ATTN: Tim Priest

Test Start: 2016.11.08 @ 10:23:15

Tool Information

Drill Pipe:	Length: 4530.00 ft	Diameter: 3.80 inches	Volume: 63.54 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 64.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4652.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 7.88 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4629.00	
Shut In Tool	5.00			4634.00	
Hydraulic tool	5.00			4639.00	
Jars	5.00			4644.00	
Safety Joint	3.00			4647.00	
Packer	5.00			4652.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			4652.00	
Stubb	1.00			4653.00	
Perforations	2.00			4655.00	
Recorder	0.00	8672	Inside	4655.00	
Recorder	0.00	6749	Outside	4655.00	
Perforations	10.00			4665.00	
Bullnose	5.00			4670.00	18.00 Anchor Tool

Total Tool Length: 42.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy Inc.

2-8s-36w Thomas,KS

125 N. Market STE 1110
Wichita KS 67202

Horinek #1-2

Job Ticket: 65590

DST#: 7

ATTN: Tim Priest

Test Start: 2016.11.08 @ 10:23:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

24 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
117.00	mcgo 10% m 20% g 70% o	0.575
806.00	gco 20% g 80% o	11.306
0.00	GIP= 124 ft	0.000

Total Length: 923.00 ft Total Volume: 11.881 bbl

Num Fluid Samples: 0

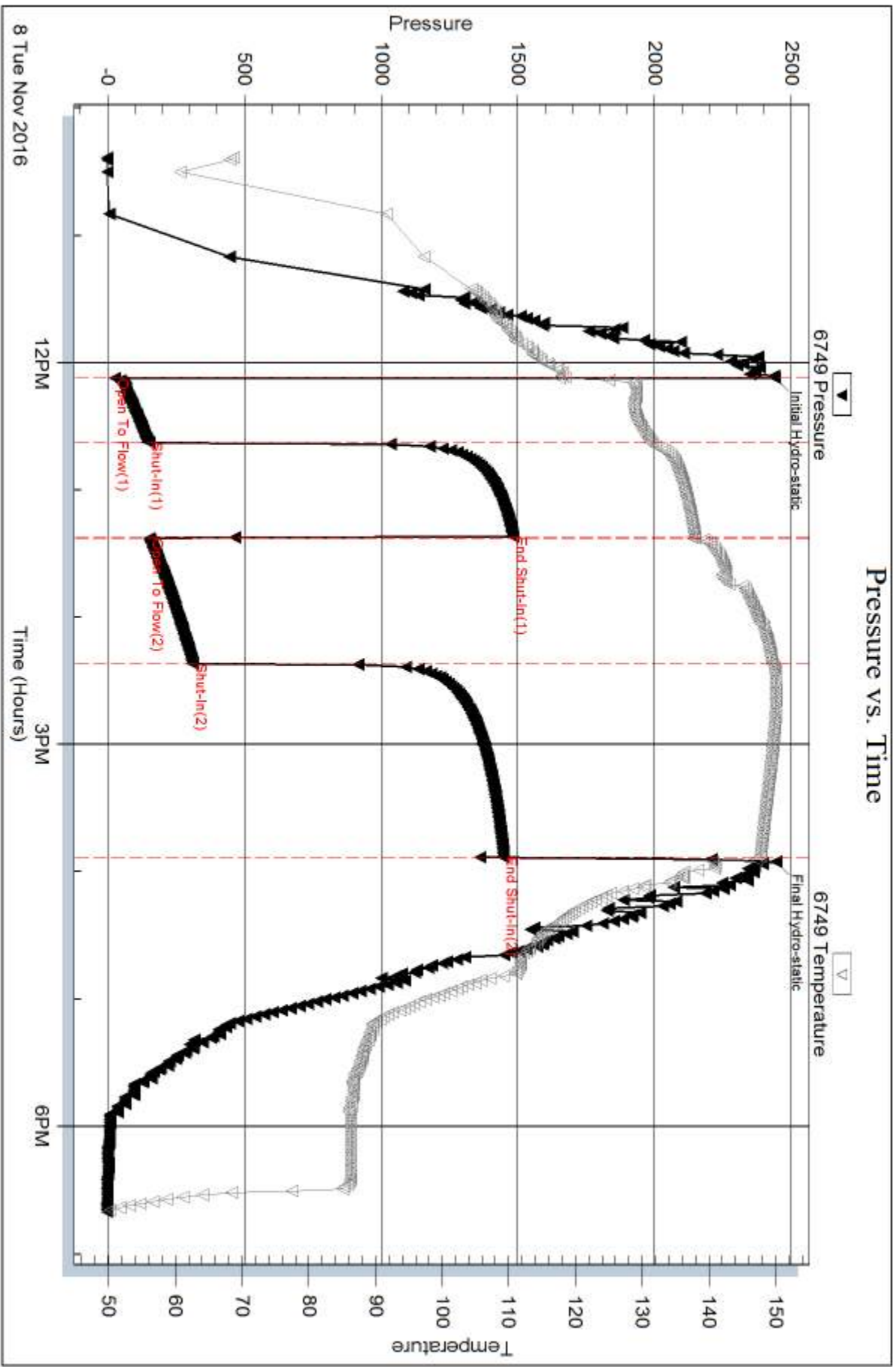
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API= 23@50 corrected to 24 @ 60



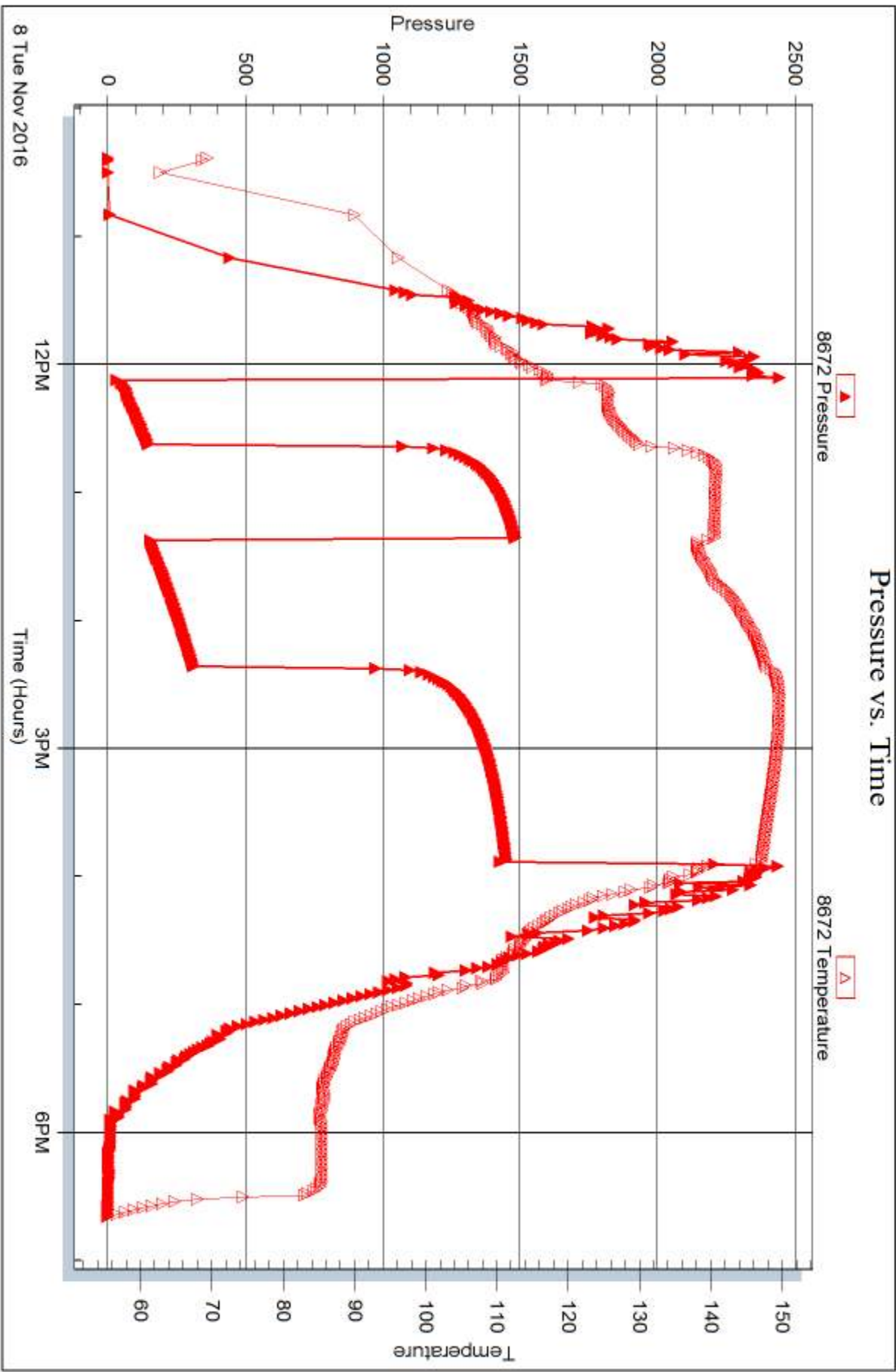
Serial #: 8672

Inside

Val Energy Inc.

Hornek #1-2

DST Test Number: 7





DRILL STEM TEST REPORT

Prepared For: **Val Energy Inc.**

125 N. Market STE 1110
Wichita KS 67202

ATTN: Tim Priest

Horinek #1-2

2-8s-36w Thomas,KS

Start Date: 2016.11.09 @ 02:00:48

End Date: 2016.11.09 @ 08:11:18

Job Ticket #: 65636 DST #: 8

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

Printed: 2016.11.09 @ 13:30:05



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

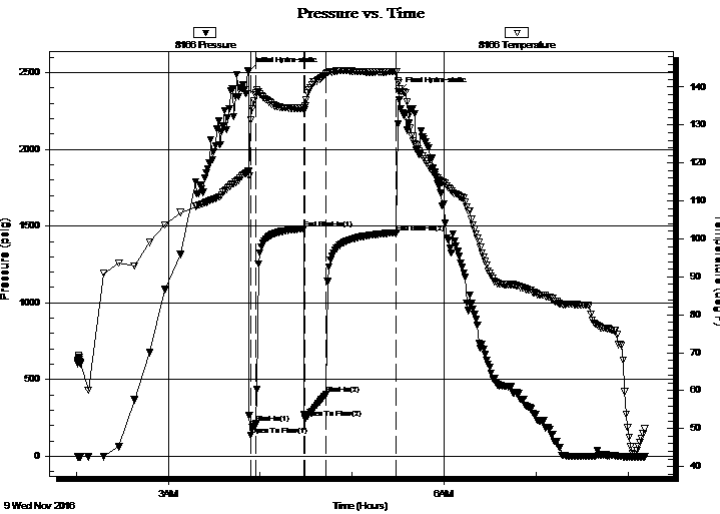
2-8s-36w Thomas,KS
Horinek #1-2
 Job Ticket: 65636 **DST#: 8**
 Test Start: 2016.11.09 @ 02:00:48

GENERAL INFORMATION:

Formation: **Johnson Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:53:48
 Time Test Ended: 08:11:18
 Interval: **4671.00 ft (KB) To 4685.00 ft (KB) (TVD)**
 Total Depth: 4685.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3326.00 ft (KB)
 3321.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8166 Outside
 Press@RunDepth: 402.73 psig @ 4676.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.11.09 End Date: 2016.11.09 Last Calib.: 2016.11.09
 Start Time: 02:00:53 End Time: 08:11:17 Time On Btm: 2016.11.09 @ 03:52:18
 Time Off Btm: 2016.11.09 @ 05:30:18

TEST COMMENT: IF: BOB in 1 1/2 min.
 IS: Surface blow built to 1 in 30 min.
 FF: BOB in 2 min.
 FS: Surface blow built to 1 in 45 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2506.77	117.81	Initial Hydro-static
2	138.17	131.32	Open To Flow (1)
5	212.95	138.64	Shut-In(1)
36	1482.19	134.44	End Shut-In(1)
37	247.42	135.01	Open To Flow (2)
51	402.73	143.42	Shut-In(2)
97	1457.46	144.02	End Shut-In(2)
98	2374.73	141.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	gocm 30%g 30%o 40%m	1.54
325.00	go 30%g 70%o	4.56
439.00	go 20%g 80%o	6.16
0.00	124 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Val Energy Inc.

2-8s-36w Thomas, KS

125 N. Market STE 1110
Wichita KS 67202

Horinek #1-2

Job Ticket: 65636

DST#: 8

ATTN: Tim Priest

Test Start: 2016.11.09 @ 02:00:48

GENERAL INFORMATION:

Formation: **Johnson Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:53:48
 Time Test Ended: 08:11:18
Interval: 4671.00 ft (KB) To 4685.00 ft (KB) (TVD)
 Total Depth: 4685.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

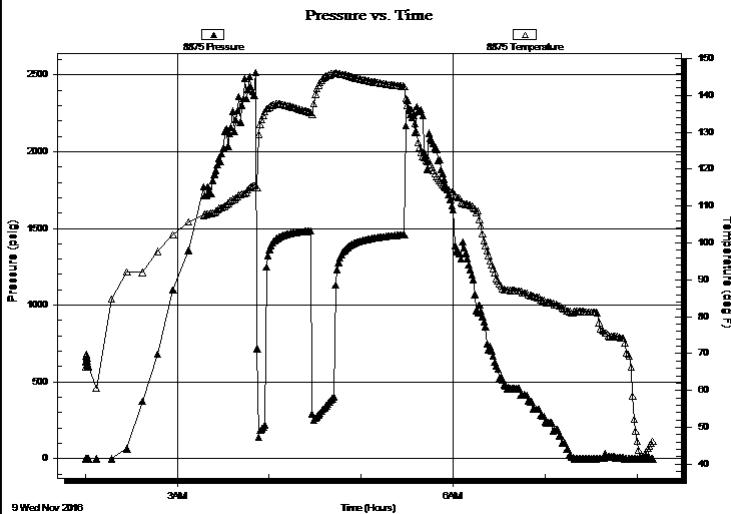
Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3326.00 ft (KB)
 3321.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8875

Inside

Press@RunDepth: psig @ 4676.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.11.09 End Date: 2016.11.09 Last Calib.: 2016.11.09
 Start Time: 02:00:19 End Time: 08:10:43 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB in 1 1/2 min.
 IS: Surface blow built to 1 in 30 min.
 FF: BOB in 2 min.
 FS: Surface blow built to 1 in 45 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
186.00	gocm 30%g 30%o 40%m	1.54
325.00	go 30%g 70%o	4.56
439.00	go 20%g 80%o	6.16
0.00	124 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.

2-8s-36w Thomas,KS

125 N. Market STE 1110
Wichita KS 67202

Horinek #1-2

Job Ticket: 65636

DST#: 8

ATTN: Tim Priest

Test Start: 2016.11.09 @ 02:00:48

Tool Information

Drill Pipe:	Length: 4541.00 ft	Diameter: 3.80 inches	Volume: 63.70 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 64.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4671.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	41.00 ft			
Number of Packers:	2	Diameter: 7.88 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Stubb	1.00			4649.00	
Shut In Tool	5.00			4654.00	
Hydraulic tool	5.00			4659.00	
Jars	5.00			4664.00	
Safety Joint	2.00			4666.00	
Packer	5.00			4671.00	23.00 Bottom Of Top Packer
Packer - Shale	4.00			4675.00	
Stubb	1.00			4676.00	
Recorder	0.00	8875	Inside	4676.00	
Recorder	0.00	8166	Outside	4676.00	
Perforations	8.00			4684.00	
Bullnose	5.00			4689.00	18.00 Anchor Tool

Total Tool Length: 41.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy Inc.

2-8s-36w Thomas,KS

125 N. Market STE 1110
Wichita KS 67202

Horinek #1-2

Job Ticket: 65636

DST#: 8

ATTN: Tim Priest

Test Start: 2016.11.09 @ 02:00:48

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: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
186.00	gocm 30%g 30%o 40%m	1.543
325.00	go 30%g 70%o	4.559
439.00	go 20%g 80%o	6.158
0.00	124 GIP	0.000

Total Length: 950.00 ft Total Volume: 12.260 bbf

Num Fluid Samples: 0

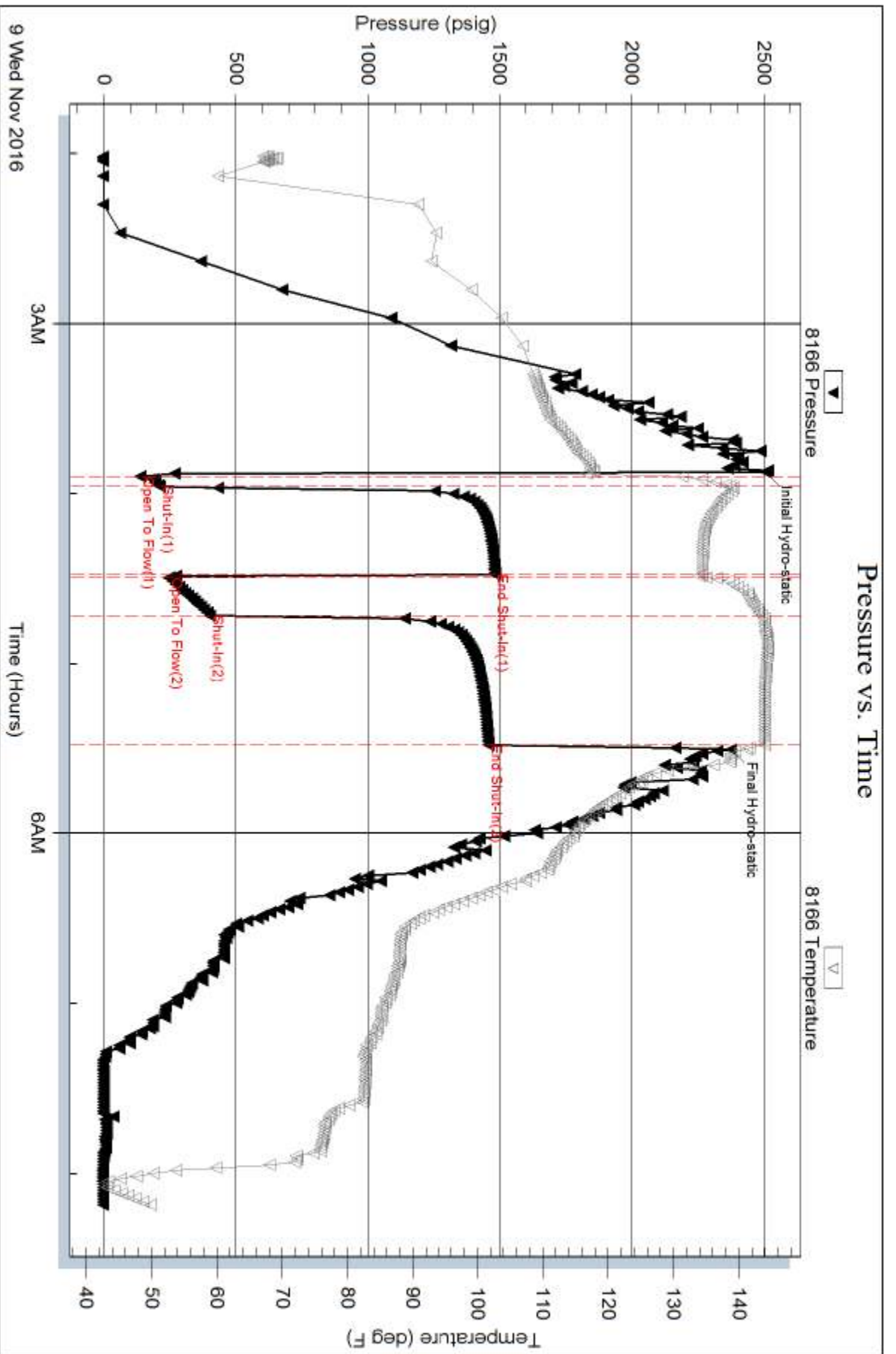
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: oil is to thick to get API



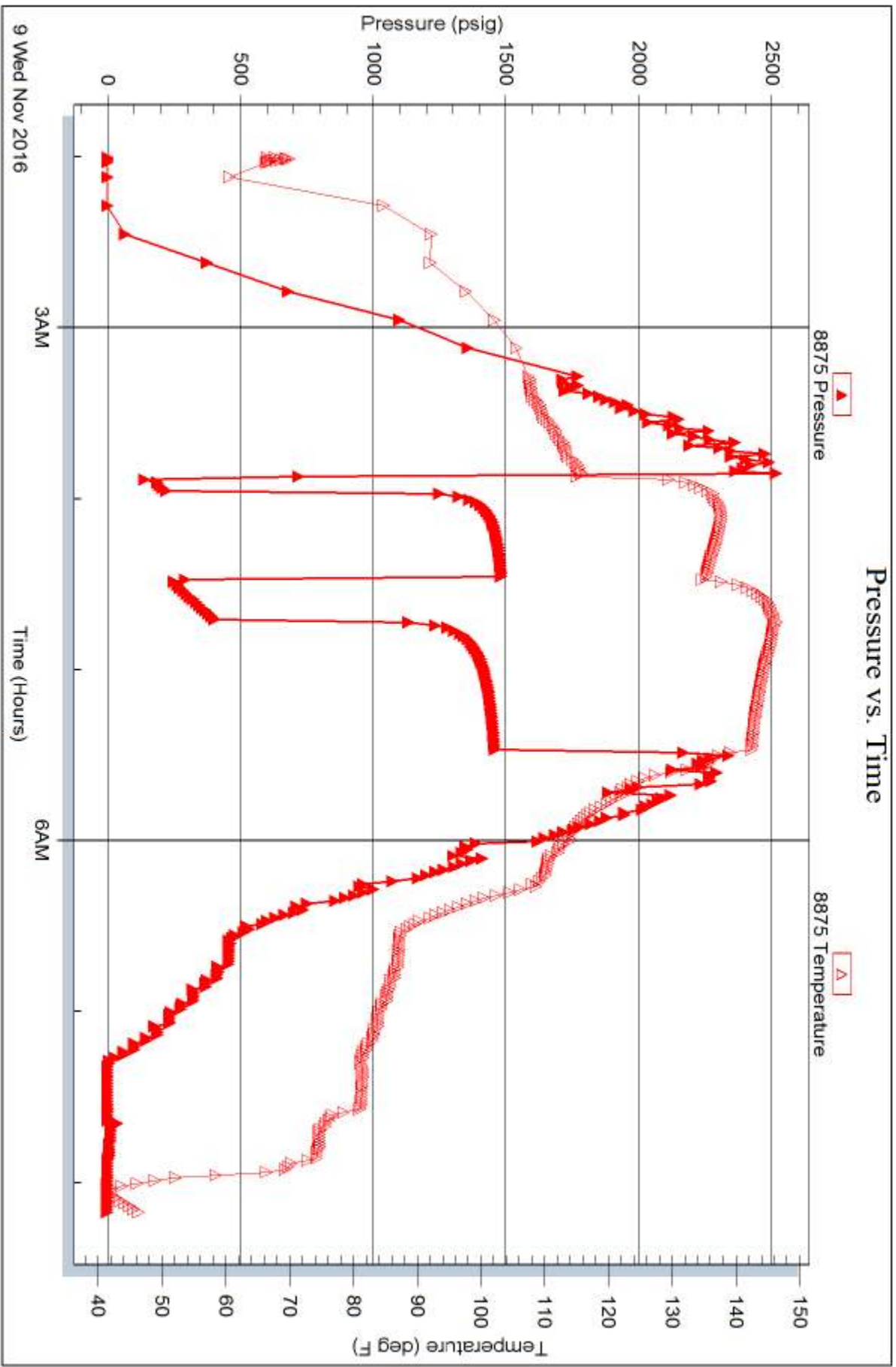
Serial #: 8875

Inside

Val Energy Inc.

Hornek #1-2

DST Test Number: 8





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65583**

Well Name & No. ~~Val Energy Inc~~ Horinek 12 Test No. 1 Date 11-4-16
 Company Val Energy Inc. Elevation 3326 KB 3321 GL
 Address 125 N. Market STE 1110 Wichita KS 67202
 Co. Rep / Geo. Tim Priest Rig WW 2
 Location: Sec. 2 Twp. 8s Rge. 36w Co. Thomas State KS

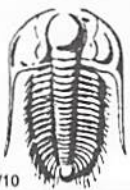
Interval Tested 4103-4210 Zone Tested Toronto-Lansing-A-C
 Anchor Length 107 Drill Pipe Run 3990 Mud Wt. 8.9
 Top Packer Depth 4098 Drill Collars Run 117 Vis 77
 Bottom Packer Depth 4103 Wt. Pipe Run 0 WL 7.2
 Total Depth 4210 Chlorides 4000 ppm System LCM 2
 Blow Description IF: Built to 6" Blow
IS: No Return Blow
FF: Built to 7" Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>365</u>	<u>MUD with Trace of O.I</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 365 BHT 131 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2156 Test \$1150.00 T-On Location 03:05
 (B) First Initial Flow 38 Jars — T-Started 03:40
 (C) First Final Flow 147 Safety Joint — T-Open 05:30
 (D) Initial Shut-In 1272 Circ Sub NC T-Pulled 08:30
 (E) Second Initial Flow 157 Hourly Standby — T-Out 10:05
 (F) Second Final Flow 212 Mileage 170 RT = 127.0 Comments —
 (G) Final Shut-In 1247 Sampler —
 (H) Final Hydrostatic 2172 Straddle —
 Shale Packer \$250.00 Ruined Shale Packer —
 Extra Packer — Ruined Packer —
 Extra Recorder — Extra Copies —
 Day Standby — Sub Total 0
 Accessibility 1527.50 Total 1527.50
 Sub Total 1527.50 ~~1150.00~~ MP/DST Disc't —

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. **65585**

Well Name & No. Hofinek 1-2 Test No. 2 Date 11-5-16
 Company Val Energy Inc. Elevation 3326 KB 3321 GL
 Address 125 N. Market STE 1110 Wichita KS 67202
 Co. Rep / Geo. Tim Priest Rig _____
 Location: Sec. 2 Twp. 8s Rge. 36w Co. Thomas State KS

Interval Tested 4283-4350 Zone Tested H-I-J
 Anchor Length 67' Drill Pipe Run 4149 Mud Wt. 9.0
 Top Packer Depth 4278 Drill Collars Run 117 Vis 61
 Bottom Packer Depth 4283 Wt. Pipe Run Ø WL 8.8
 Total Depth 4350 Chlorides 4400 ppm System LCM 1
 Blow Description IF: Built to 3" Blow
IS: No Return Blow
FF: Built to 3 1/2" Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>117</u>	<u>DCM</u>	<u>15</u>		<u>85</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 117 BHT 127 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2190 Test \$1150.00/- T-On Location 00:40
 (B) First Initial Flow 34 Jars _____ T-Started 01:38
 (C) First Final Flow 48 Safety Joint _____ T-Open 03:28
 (D) Initial Shut-In 1310 Circ Sub _____ T-Pulled 06:43
 (E) Second Initial Flow 54 Hourly Standby _____ T-Out 08:13
 (F) Second Final Flow 71 Mileage 170 RT = \$127.50/- Comments _____
 (G) Final Shut-In 1318 Sampler _____
 (H) Final Hydrostatic 2184 Straddle _____ Ruined Shale Packer _____
 Shale Packer \$250.00/- Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1527.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total \$1527.50/-

Approved By _____ Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65586**

Well Name & No. Horinek 1-2 Test No. 3 Date 11-5-14
 Company Val Energy Inc. Elevation 3326 KB 3321 GL
 Address 125 N. Market STE 1110 Wichita KS 67202
 Co. Rep / Geo. Tim Priest Rig WW2
 Location: Sec. 2 Twp. 8s Rge. 36w Co. Thomas State KS

Interval Tested 4418-4510 Zone Tested Marmaton A-C
 Anchor Length 92 Drill Pipe Run 4303 Mud Wt. 9.3
 Top Packer Depth 4413 Drill Collars Run 117 Vis 56
 Bottom Packer Depth 4418 Wt. Pipe Run Ø WL 9.6
 Total Depth 4510 Chlorides 5300 ppm System LCM 1
 Blow Description IF: Built to 1/8" Blow
IS: No Return Blow
FF: No Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
77 78	Feet of <u>mud with oil spots</u>				<u>100%</u>
79	Feet of				
80	Feet of				
81	Feet of				
82	Feet of				

Rec Total 10 BHT 129 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2327</u>	<input checked="" type="checkbox"/> Test <u>\$ 1150.00/-</u>	T-On Location <u>23:34</u>
(B) First Initial Flow <u>49</u>	<input type="checkbox"/> Jars	T-Started <u>12:38</u>
(C) First Final Flow <u>50</u>	<input type="checkbox"/> Safety Joint	T-Open <u>02:46</u> <i>Trade change</i>
(D) Initial Shut-In <u>80</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>04:46</u>
(E) Second Initial Flow <u>49</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>06:23</u>
(F) Second Final Flow <u>51</u>	<input checked="" type="checkbox"/> Mileage <u>170 RT = \$ 127.50/-</u>	Comments
(G) Final Shut-In <u>63</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2261</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>\$ 250.00/-</u>	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1527.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>\$ 1527.50/-</u>	

Approved By _____

Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

25 BBLs

Test Ticket

NO. 65587

Well Name & No. Horinek 1-2 Test No. 4 Date 11-6-16
 Company Val Energy Inc Elevation 3326 KB 3321 GL
 Address 125 N. Market STE 1110 Wichita KS 67202
 Co. Rep / Geo. Tim Priest Rig WW2
 Location: Sec. 2 Twp. Bs Rge. 36w Co. Thomas State KS

Interval Tested 4505-4550 Zone Tested Pawnee
 Anchor Length 45 Drill Pipe Run 4370 Mud Wt. 9.3
 Top Packer Depth 4500 Drill Collars Run 117 Vis 51
 Bottom Packer Depth 4505 Wt. Pipe Run ∅ WL 7.2
 Total Depth 4550 Chlorides 4500 ppm System LCM 1

Blow Description IF: BOB in 1 Min
IS: BOB in 4 Min
FF: BOB instantly
FS: BOB in 4 Min

Rec	Feet of	%gas	%oil	%water	%mud
<u>∅</u>	Feet of <u>GIP = 1984</u>				
<u>210</u>	Feet of <u>∅</u>	<u>50</u>	<u>50</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total ~~2101~~ 2101 BHT 147 Gravity 35 API RW — @ — ° F Chlorides — ppm
 Test #1150.00/- T-On Location 12:10
 Jars _____ T-Started 12:55
 Safety Joint _____ T-Open 14:43
 Circ Sub Dropped Bar T-Pulled 16:18
 Hourly Standby _____ T-Out 20:50
 Mileage 170 RT = #127.50/- Comments _____
 Sampler _____
 Straddle _____
 Shale Packer #250.00/- Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 10
 Initial Shut-In 30
 Final Flow 10
 Final Shut-In 45
 Sub Total 0
 Total 1577.50
 MP/DST Disc't _____
 Sub Total #1577.50/-

Approved By _____ Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65588**

Well Name & No. Horinek 1-2 Test No. 5 Date 11-7-16
 Company Val Energy Inc. Elevation 3326 KB 3321 GL
 Address 125 N. Market STE 1110 Wichita KS 67202
 Co. Rep / Geo. Tim Priest Rig WW2
 Location: Sec. 2 Twp. 8s Rge. 36w Co. THOMAS State KS

Interval Tested 4552-4580 Zone Tested Myrick Station
 Anchor Length 28 Drill Pipe Run 4439 Mud Wt. 9.3
 Top Packer Depth 4547 Drill Collars Run 117 Vis 51
 Bottom Packer Depth 4552 Wt. Pipe Run φ WL 7.2
 Total Depth 4580 Chlorides 4500 ppm System LCM 1
 Blow Description IF: BOB in 10 Min
IS: NO Return Blow
FF: BOB in 8 Min
FS: Return Built to 1/8"

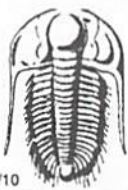
Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>590 GIP</u>	<u>100</u>			
<u>94</u>	<u>gem o</u>	<u>5</u>	<u>65</u>		<u>30</u>
<u>117</u>	<u>mcgo</u>	<u>40</u>	<u>40</u>		<u>20</u>

Rec Total 211 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2317 Test \$1150.00/- T-On Location 03:05
 (B) First Initial Flow 21 Jars _____ T-Started 03:58
 (C) First Final Flow 54 Safety Joint _____ T-Open 06:01
 (D) Initial Shut-In 1364 Circ Sub NC T-Pulled 08:16
 (E) Second Initial Flow 54 Hourly Standby _____ T-Out 09:47
 (F) Second Final Flow 81 Mileage 170 RT = \$127.50/- Comments _____
 (G) Final Shut-In 1362 Sampler _____
 (H) Final Hydrostatic 2275 Straddle _____
 Shale Packer \$1250.00/- Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1527.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total \$1527.50/-

Approved By _____ Our Representative Mike Rohats

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65589**

Well Name & No. Hornick 1-2 Test No. 6 Date 11-7-16
 Company Val Energy Inc. Elevation 3326 KB 3321 GL
 Address 125 N. Market STE 1110 Wichita KS 67202
 Co. Rep / Geo. Tim Priest Rig WW2
 Location: Sec. 2 Twp. 8S Rge. 36w Co. THOMAS State KS

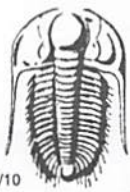
Interval Tested 4604-4645 Zone Tested Ft. Scott - Cherokee
 Anchor Length 41 Drill Pipe Run _____ Mud Wt. 9.4
 Top Packer Depth 4599 Drill Collars Run 117 Vis 60
 Bottom Packer Depth 4604 Wt. Pipe Run Ø WL 9.6
 Total Depth 4645 Chlorides 6000 ppm System LCM 1
 Blow Description IF: Built to 2 1/2" Blow
IS: No Return Blow
FF: Built to 2" Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>OCM</u>	<u>40</u>		<u>60</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 20 BHT 133 Gravity 24 API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic 2365 Test #1150. T-On Location 18:00
 (B) First Initial Flow 14 Jars _____ T-Started 19:01
 (C) First Final Flow 22 Safety Joint _____ T-Open 21:23
 (D) Initial Shut-In 406 Circ Sub NC T-Pulled 01:08
 (E) Second Initial Flow 34 Hourly Standby _____ T-Out 02:54
 (F) Second Final Flow 33 Mileage 170 RT #127.50 Comments _____
 (G) Final Shut-In 615 Sampler _____
 (H) Final Hydrostatic 2299 Straddle _____
 Shale Packer \$250.00/- Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1527.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1527.50/-

Approved By _____ Our Representative Mike Roberts

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Test Ticket

NO. **65590**

Well Name & No. Horinek 1-2 Test No. 7 Date 11-8-16
 Company Val Energy Inc Elevation 3326 KB 3321 GL
 Address 125 N. Market STE 1110 Wichita KS 67202
 Co. Rep / Geo. Tim Priest Rig WW2
 Location: Sec. 2 Twp. 8s Rge. 36w Co. Thomas State KS

Interval Tested 4652 - 4670 Zone Tested Johnson
 Anchor Length 18 Drill Pipe Run 4530 Mud Wt. 9.3
 Top Packer Depth 4647 Drill Collars Run 117 Vis 58
 Bottom Packer Depth 4652 Wt. Pipe Run Ø WL 9.6
 Total Depth 4670 Chlorides 7000 ppm System LCM 1
 Blow Description IF: BOB IN 9 MIN
IS: Return Blow Built to 2"
FF: BOB IN 11 MIN
FS: Return Blow Built to 1"

Rec	Feet of	%gas	%oil	%water	%mud
806	<u>gco</u>	<u>20</u>	<u>80</u>		
<u>117</u>	<u>mcgo</u>	<u>20</u>	<u>70</u>	<u>10</u>	
117	<u>Ø GIP=124</u>	<u>100</u>			

Rec Total BHT 150 Gravity 24 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2439 Test \$1150.00/- T-On Location 09:40
 (B) First Initial Flow 26 Jars — T-Started 10:23
 (C) First Final Flow 151 Safety Joint — T-Open 12:06
 (D) Initial Shut-In 1482 Circ Sub NC T-Pulled 15:51
 (E) Second Initial Flow 152 Hourly Standby — T-Out 18:40
 (F) Second Final Flow 311 Mileage 170RF = \$127.50/- Comments —
 (G) Final Shut-In 1449 Sampler —
 (H) Final Hydrostatic 2442 Straddle — Ruined Shale Packer —
 Shale Packer \$250.00/- Ruined Packer —
 Extra Packer — Extra Copies —
 Extra Recorder — Sub Total 0
 Day Standby — Total 1527.50
 Accessibility — MP/DST Disc't —
 Sub Total \$1527.50/-

Approved By _____ Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65636**

Well Name & No. Horinek 1-2 Test No. 8 Date 11-9-16
 Company U91 Energy Elevation 3326 KB 3321 GL
 Address _____
 Co. Rep / Geo. Tim Priest Rig WW #2
 Location: Sec. 2 Twp. 85 Rge. 36W Co. THOMAS State KS

Interval Tested 4671 4685 Zone Tested Johnson sand
 Anchor Length _____ Drill Pipe Run 4541 Mud Wt. 9.3
 Top Packer Depth _____ Drill Collars Run 118 Vis 58
 Bottom Packer Depth _____ Wt. Pipe Run _____ WL 9.6
 Total Depth 4685 Chlorides 7000 ppm System LCM 1

Blow Description #F: BoB in 1 1/2 min.
FS: surface blow built to 1 in 30 min.
FK: BoB in 2 min.
FS: surface blow built to 1 in 45 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>439</u>	<u>90</u>	<u>20</u>	<u>80</u>		
<u>325</u>	<u>90</u>	<u>30</u>	<u>70</u>		
<u>186</u>	<u>90cm</u>	<u>30</u>	<u>30</u>		<u>40</u>
Rec _____	Feet of <u>124 GIP</u>	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 950 BHT 144 Gravity to thick API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2506</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1:30</u>
(B) First Initial Flow <u>138</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2:00</u>
(C) First Final Flow <u>212</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>3:52</u>
(D) Initial Shut-In <u>1482</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>5:27</u>
(E) Second Initial Flow <u>247</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>8:10</u>
(F) Second Final Flow <u>402</u>	<input checked="" type="checkbox"/> Mileage <u>178-</u> 127.50	Comments _____
(G) Final Shut-In <u>1457</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>2374</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>5</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1852.50</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1852.50</u>	

Approved By [Signature] Our Representative [Signature]

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