

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](mailto: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) (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	GMK KRISS UNIT 1-8
Doc ID	1388199

All Electric Logs Run

Porosity
Micro
Dual Induction
Sonic



## Summary of Changes

Lease Name and Number: GMK KRISS UNIT 1-8

API/Permit #: 15-193-20990-00-00

Doc ID: 1388199

Correction Number: 1

Approved By: Karen Ritter

Field Name	Previous Value	New Value
Approved Date	05/22/2017	02/12/2018
Geologist Report / Mud Logs?		Yes
Method Of Completion - Perf	No	Yes
Perf_perf1bottom		4508
Perf_perf1top		4492
Perf_perf2bottom		4586
Perf_perf2top		4563
Perf_shots1		4
Perf_shots2		4
PerforationsRevised		[[dataGrid]]

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Producing Formation	PAWNEE	PAWNEE & ALTAMONT
Production - Barrels Oil		39.66
Production - Barrels of Water		0
Production - Gas-Oil Ratio		0
Production - MCF Gas		0
Production Interval #1		4492
Production Interval #3		4586

## Summary of Attachments

Lease Name and Number: GMK KRISS UNIT 1-8

API: 15-193-20990-00-00

Doc ID: 1388199

Correction Number: 1

Attachment Name

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1350449  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

**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: \_\_\_\_\_



**GEOLOGIST'S REPORT**  
**DRILLING TIME AND SAMPLE LOG**

COMPANY **VAM ENERGY, INC.** EL EVATIONS  
 LEASE **GML Krebs Unit #1-8** KG 3334'  
 FIELD **Wildcat** 1660' FEL  
 LOCATION **2618' FUL** 1660' FEL  
 COUNTY **8 TMSB** 8SS ROE 35W  
 COUNTY **Thomas** STATE **Kansas** Measurements Are All From **KB**

CONTRACTOR **WW Drilling, Rig #10**  
 SPUD **3-17-17** COMP **3-27-17**  
 RTD **4900'** LTD **4900'** CASING  
 MUD UP **3600'** TYPE MUD **Chemical** CONDUCTOR **N/A**  
 SAMPLES SAVED FROM **3850'** to **RTD** SURFACE **8-5/8" @ 260'**  
 DRILLING TIME KEPT FROM **3850'** to **RTD** PRODUCTION **5-1/2" @ '**  
 SAMPLES EXAMINED FROM **3850'** to **RTD**  
 GEOLOGICAL SUPERVISION FROM **4080'** to **RTD**  
 GEOLOGIST ON WELL **Tim Priest**

FORMATION TOPS ELECTRIC LOG SAMPLE  
 Anydrite 2870 (-464) 2872 (+462)  
 Heebner Shale 4126 (-792) 4126 (-792)  
 Lansing 4168 (-834) 4168 (-834)  
 Stark 4379 (-1045) 4381 (-1047)  
 Marmaton 4466 (-1335) 4470 (-1336)  
 Fort Scott 4617 (-1283) 4618 (-1284)  
 Cherokee Shale 4652 (-1318) 4653 (-1319)  
 Mississippian 4802 (-1468) 4801 (-1467)

REMARKS Due to the positive drill stem results, it was decided to set production casing to further test the well.

Respectfully Submitted,  
 Tim Priest  
 Petroleum Geologist

API #15-193-20990-00-00

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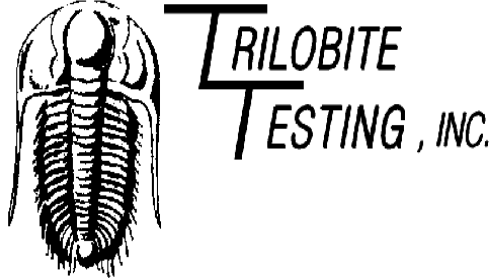
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## DRILL STEM TEST REPORT

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

125 Market St. Ste 1110  
Wichita, KS 67202

ATTN: Tim Priest

### **GMK Kriss Unit #1-8**

### **8-8s-35w Thomas,KS**

Start Date: 2017.03.22 @ 03:11:00

End Date: 2017.03.22 @ 12:22:15

Job Ticket #: 63758                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.03.27 @ 14:53:55



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**8-8s-35w Thomas,KS**  
**GMK Kriss Unit #1-8**  
 Job Ticket: 63758 **DST#: 1**  
 Test Start: 2017.03.22 @ 03:11:00

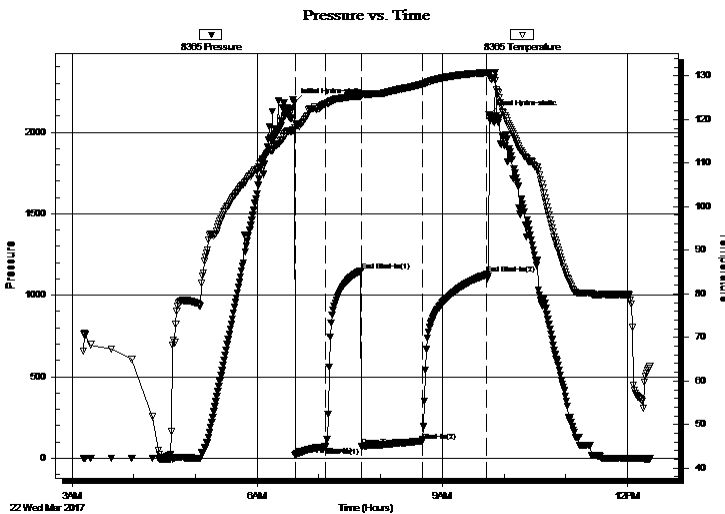
## GENERAL INFORMATION:

Formation: **LKC H - J**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 06:36:45 Tester: Bradley Walter  
 Time Test Ended: 12:22:15 Unit No: 78  
 Interval: **4310.00 ft (KB) To 4390.00 ft (KB) (TVD)** Reference Elevations: 3334.00 ft (KB)  
 Total Depth: 4390.00 ft (KB) (TVD) 3329.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

**Serial #: 8365 Inside**  
 Press@RunDepth: 106.09 psig @ 4311.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.03.22 End Date: 2017.03.22 Last Calib.: 2017.03.22  
 Start Time: 03:11:05 End Time: 12:22:15 Time On Btm: 2017.03.22 @ 06:35:45  
 Time Off Btm: 2017.03.22 @ 09:45:30

**TEST COMMENT:** IF: 8 1/2" Blow.  
 IS: Surface return.  
 FF: BOB @ 29 min.  
 FS: 1" return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2179.50	117.65	Initial Hydro-static
1	19.66	118.20	Open To Flow (1)
31	69.49	123.60	Shut-In(1)
66	1150.42	125.40	End Shut-In(1)
66	75.18	125.66	Open To Flow (2)
125	106.09	128.10	Shut-In(2)
188	1128.47	130.73	End Shut-In(2)
190	2107.48	130.81	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
100.00	gocm 5g 20o 75m	0.49
150.00	gsmco 10g 5m 85o	1.92
0.00	240' GIP	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Val Energy, Inc.

**8-8s-35w Thomas,KS**

125 Market St. Ste 1110  
Wichita, KS 67202

**GMK Kriss Unit #1-8**

Job Ticket: 63758

**DST#: 1**

ATTN: Tim Priest

Test Start: 2017.03.22 @ 03:11:00

## Tool Information

Drill Pipe:	Length: 4190.00 ft	Diameter: 3.80 inches	Volume: 58.77 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	69000.00 lb
			<u>Total Volume: 59.36 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	57000.00 lb
Depth to Top Packer:	4310.00 ft			Final	57000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	80.00 ft				
Tool Length:	100.00 ft				
Number of Packers:	2	Diameter: 6.65 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4291.00	
Shut In Tool	5.00			4296.00	
Hydraulic tool	5.00			4301.00	
Packer	5.00			4306.00	20.00 Bottom Of Top Packer
Packer	4.00			4310.00	
Stubb	1.00			4311.00	
Recorder	0.00	8365	Inside	4311.00	
Recorder	0.00	8845	Outside	4311.00	
Perforations	11.00			4322.00	
Change Over Sub	1.00			4323.00	
Drill Pipe	63.00			4386.00	
Change Over Sub	1.00			4387.00	
Bullnose	3.00			4390.00	80.00 Bottom Packers & Anchor

**Total Tool Length: 100.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Val Energy, Inc.

**8-8s-35w Thomas,KS**

125 Market St. Ste 1110  
Wichita, KS 67202

**GMK Kriss Unit #1-8**

Job Ticket: 63758

**DST#: 1**

ATTN: Tim Priest

Test Start: 2017.03.22 @ 03:11:00

## 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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	gocm 5g 20o 75m	0.492
150.00	gsmco 10g 5m 85o	1.922
0.00	240' GIP	0.000

Total Length: 250.00 ft      Total Volume: 2.414 bbl

Num Fluid Samples: 0

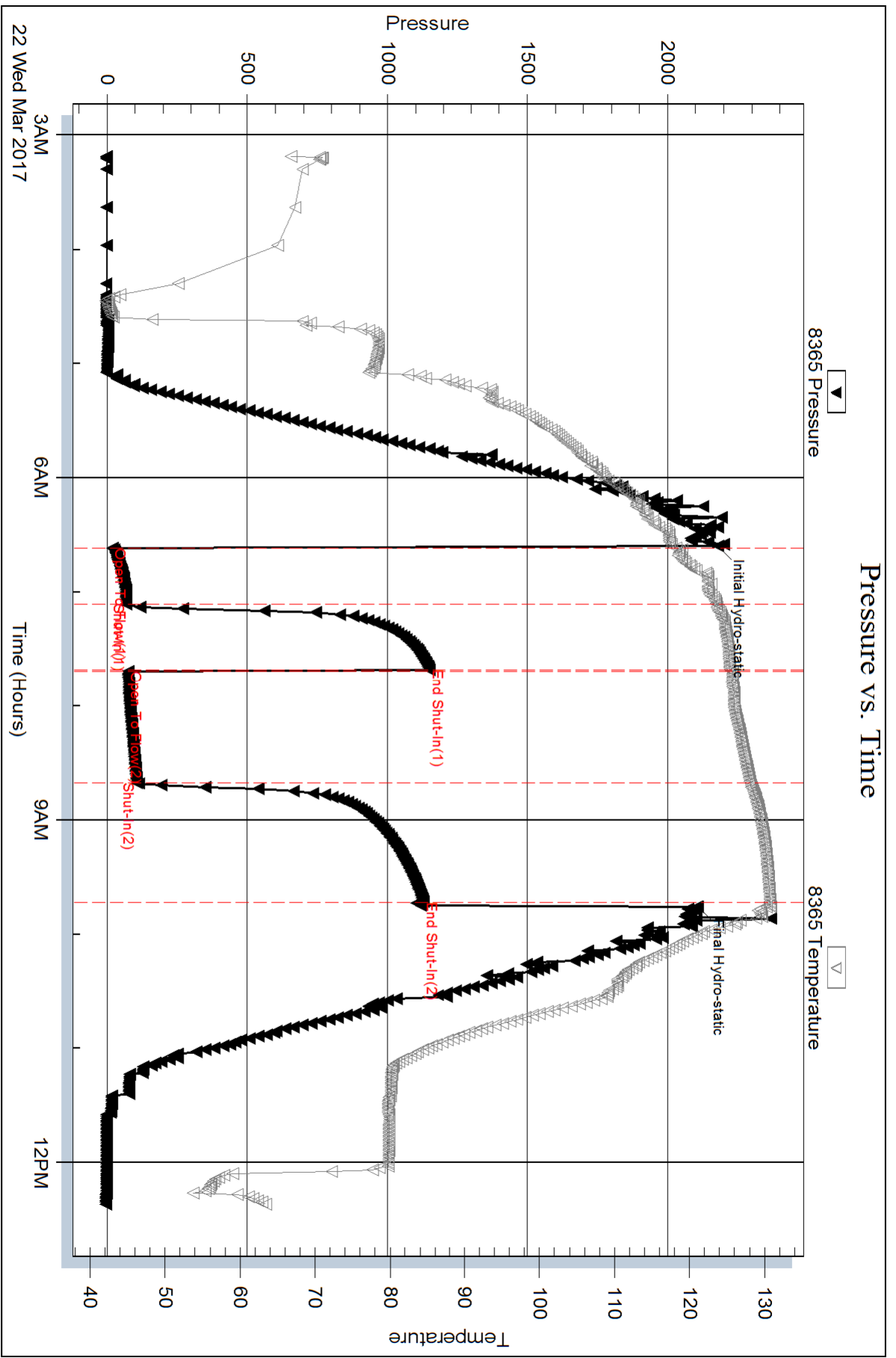
Num Gas Bombs: 0

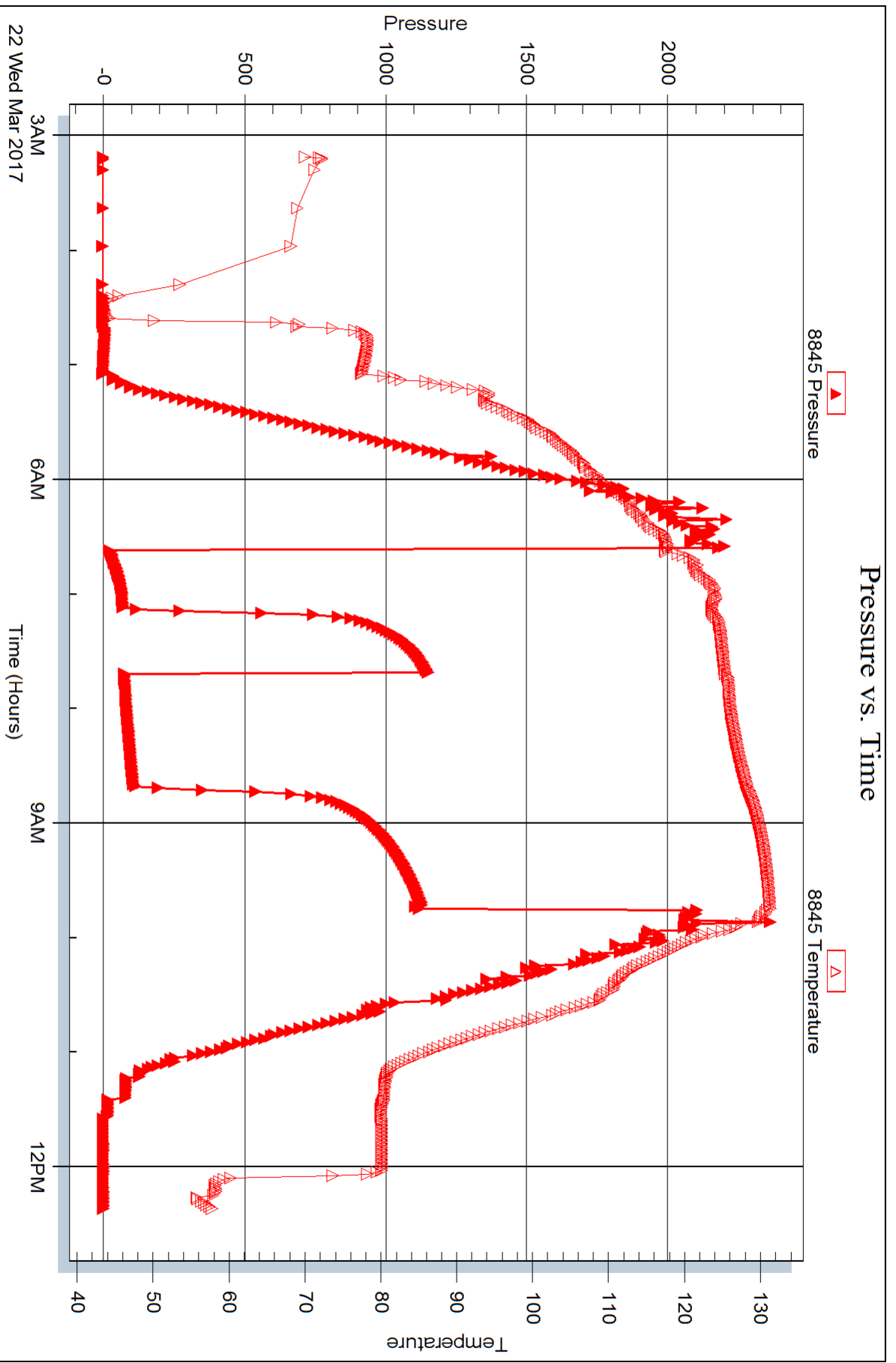
Serial #:

Laboratory Name:

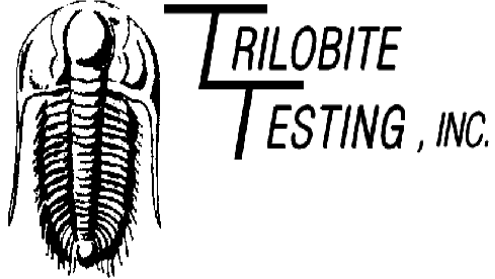
Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

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

125 Market St. Ste 1110  
Wichita, KS 67202

ATTN: Tim Priest

### **GMK Kriss Unit #1-8**

### **8-8s-35w Thomas,KS**

Start Date: 2017.03.22 @ 18:30:00

End Date: 2017.03.23 @ 01:08:00

Job Ticket #: 63759                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.03.27 @ 14:53:32



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**8-8s-35w Thomas,KS**  
**GMK Kriss Unit #1-8**  
Job Ticket: 63759 **DST#: 2**  
Test Start: 2017.03.22 @ 18:30:00

## GENERAL INFORMATION:

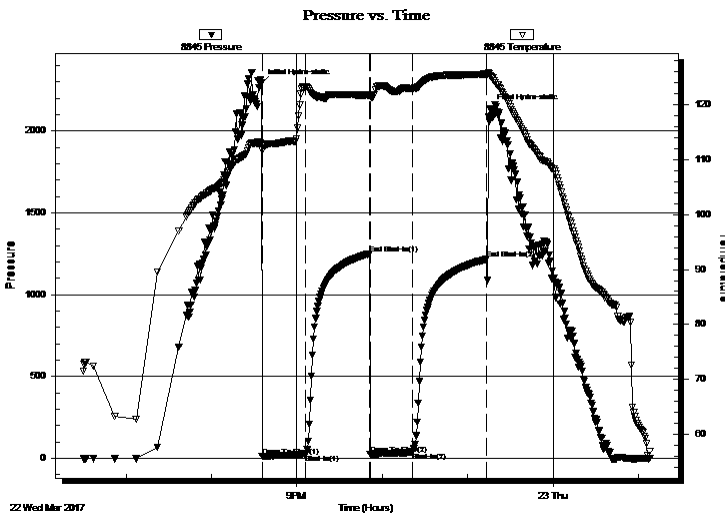
Formation: **LKC K**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 20:35:30  
Time Test Ended: 01:08:00  
Interval: **4386.00 ft (KB) To 4410.00 ft (KB) (TVD)**  
Total Depth: 4410.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Bradley Walter  
Unit No: 78  
Reference Elevations: 3334.00 ft (KB)  
3329.00 ft (CF)  
KB to GR/CF: 5.00 ft

## Serial #: 8845 Outside

Press@RunDepth: 36.33 psig @ 4387.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2017.03.22 End Date: 2017.03.23 Last Calib.: 2017.03.23  
Start Time: 18:30:05 End Time: 01:07:59 Time On Btm: 2017.03.22 @ 20:35:15  
Time Off Btm: 2017.03.22 @ 23:16:00

TEST COMMENT: IF: 2" Blow.  
IS: No return.  
FF: 1" Blow.  
FS: Surface return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2291.11	112.94	Initial Hydro-static
1	13.14	111.71	Open To Flow (1)
31	24.09	123.32	Shut-In(1)
76	1251.34	121.72	End Shut-In(1)
77	26.92	121.49	Open To Flow (2)
106	36.33	122.95	Shut-In(2)
158	1217.27	125.56	End Shut-In(2)
161	2137.19	125.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	gsocm 5g 2o 93m	0.30

\* 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 Market St. Ste 1110  
Wichita, KS 67202  
ATTN: Tim Priest

**8-8s-35w Thomas,KS**  
**GMK Kriss Unit #1-8**  
Job Ticket: 63759 **DST#: 2**  
Test Start: 2017.03.22 @ 18:30:00

**Tool Information**

Drill Pipe:	Length: 4250.00 ft	Diameter: 3.80 inches	Volume: 59.62 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 60.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4386.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.65 inches		

Tool Comments:

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

Change Over Sub	1.00			4367.00	
Shut In Tool	5.00			4372.00	
Hydraulic tool	5.00			4377.00	
Packer	5.00			4382.00	20.00 Bottom Of Top Packer
Packer	4.00			4386.00	
Stubb	1.00			4387.00	
Recorder	0.00	8365	Inside	4387.00	
Recorder	0.00	8845	Outside	4387.00	
Perforations	20.00			4407.00	
Bullnose	3.00			4410.00	24.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>44.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Val Energy, Inc.

**8-8s-35w Thomas,KS**

125 Market St. Ste 1110  
Wichita, KS 67202

**GMK Kriss Unit #1-8**

Job Ticket: 63759

**DST#: 2**

ATTN: Tim Priest

Test Start: 2017.03.22 @ 18:30:00

### 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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	gsocm 5g 2o 93m	0.295

Total Length: 60.00 ft      Total Volume: 0.295 bbl

Num Fluid Samples: 0

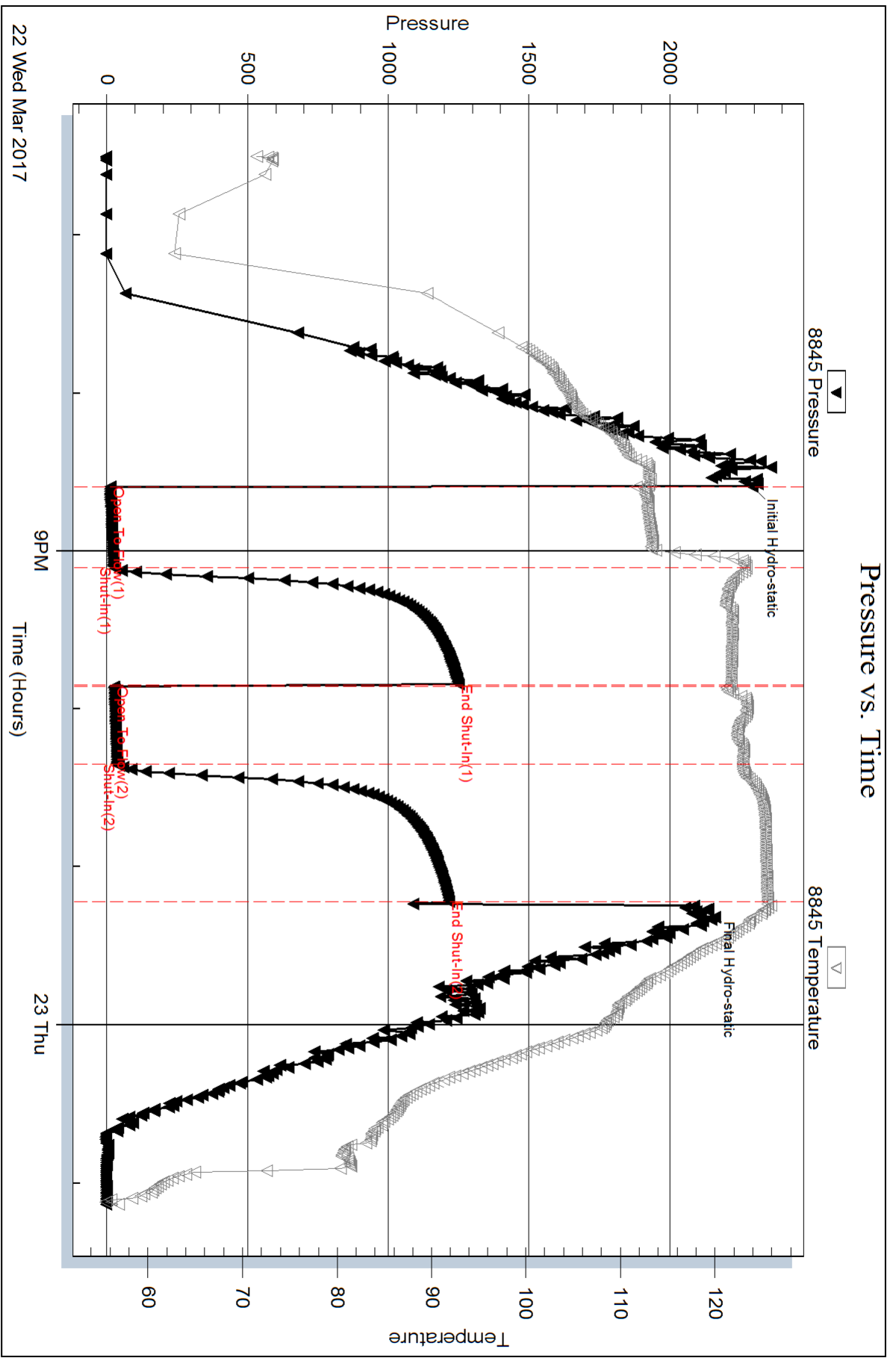
Num Gas Bombs: 0

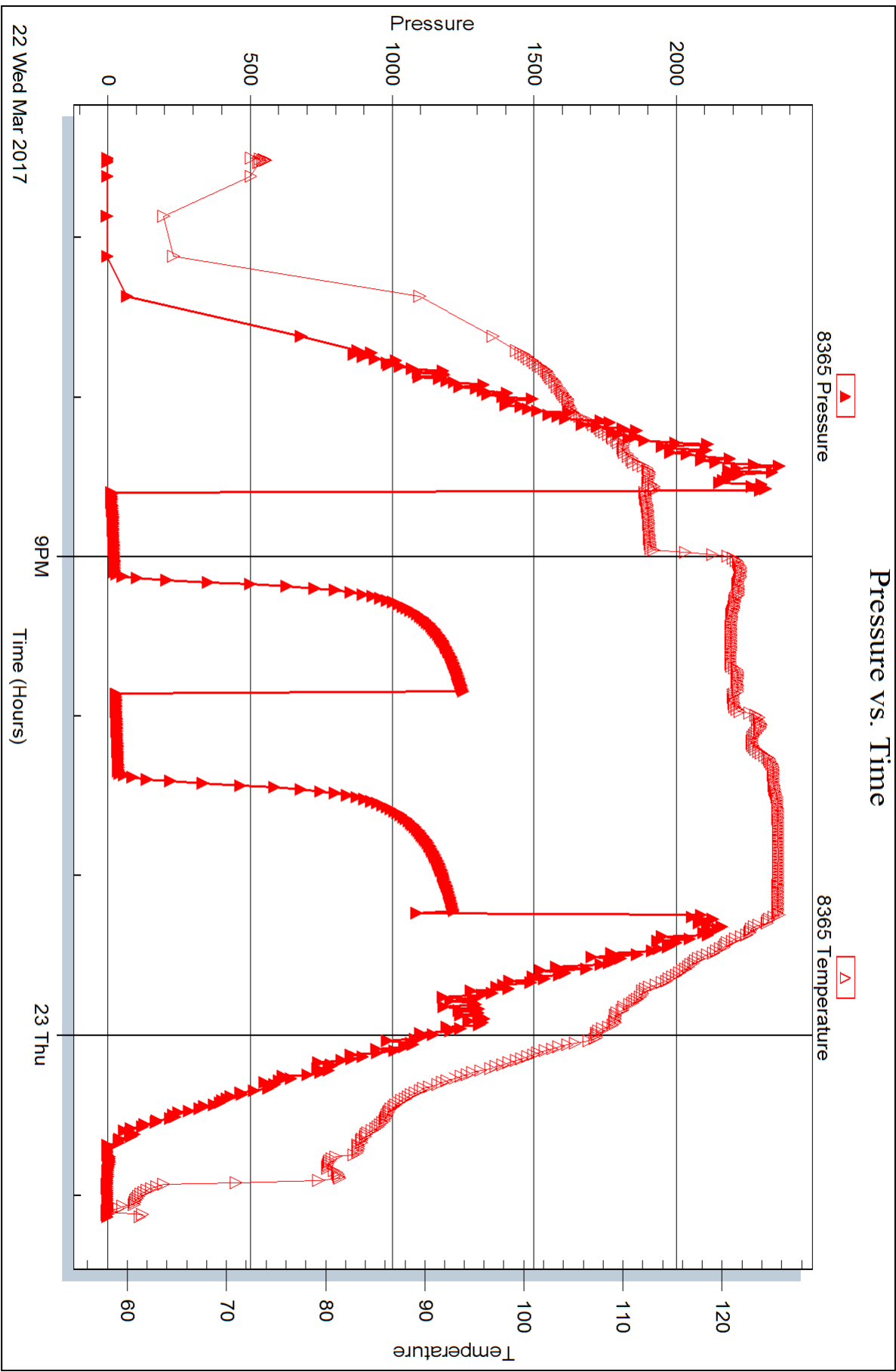
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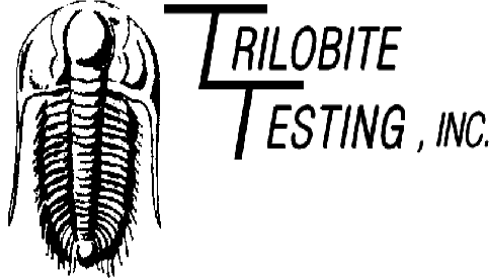
Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

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

125 Market St. Ste 1110  
Wichita, KS 67202

ATTN: Tim Priest

### **GMK Kriss Unit #1-8**

### **8-8s-35w Thomas,KS**

Start Date: 2017.03.23 @ 16:58:00

End Date: 2017.03.24 @ 04:30:30

Job Ticket #: 63760                      DST #: 3

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

Printed: 2017.03.27 @ 14:51:17





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

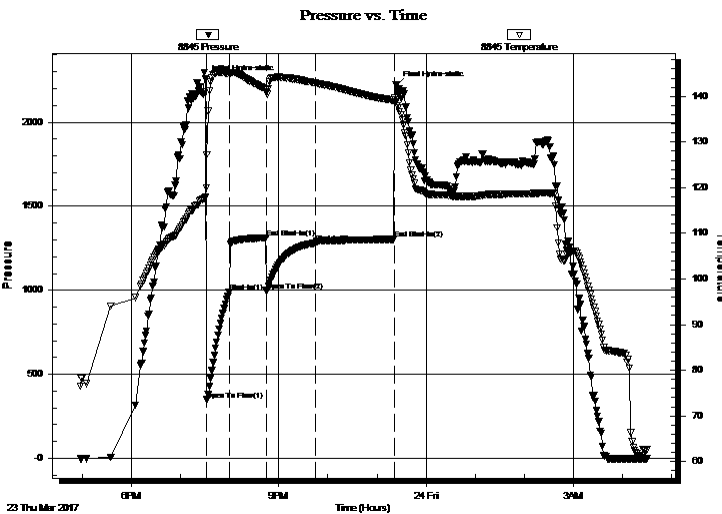
**8-8s-35w Thomas,KS**  
**GMK Kriss Unit #1-8**  
 Job Ticket: 63760 **DST#: 3**  
 Test Start: 2017.03.23 @ 16:58:00

## GENERAL INFORMATION:

Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:31:30  
 Time Test Ended: 04:30:30  
 Interval: **4482.00 ft (KB) To 4540.00 ft (KB) (TVD)**  
 Total Depth: 4540.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 3334.00 ft (KB)  
 3329.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8845 Outside**  
 Press@RunDepth: 1281.76 psig @ 4483.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.03.23 End Date: 2017.03.24 Last Calib.: 2017.03.24  
 Start Time: 16:58:05 End Time: 04:30:30 Time On Btm: 2017.03.23 @ 19:30:45  
 Time Off Btm: 2017.03.23 @ 23:23:15

**TEST COMMENT:** IF: BOB @ 30 sec.  
 IS: BOB @ 4 min. Gas to surface.  
 FF: BOB @ open.  
 FSI 1" return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2256.71	117.86	Initial Hydro-static
1	348.62	119.99	Open To Flow (1)
29	989.92	144.97	Shut-In(1)
74	1312.71	141.58	End Shut-In(1)
75	996.53	141.46	Open To Flow (2)
135	1281.76	142.86	Shut-In(2)
230	1303.80	139.12	End Shut-In(2)
233	2221.03	138.92	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	gocm 20g 30o 50m	1.01
3300.00	go 30g 70o	46.29
0.00	GTS	0.00

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Val Energy, Inc.

**8-8s-35w Thomas,KS**

125 Market St. Ste 1110  
Wichita, KS 67202

**GMK Kriss Unit #1-8**

Job Ticket: 63760

**DST#: 3**

ATTN: Tim Priest

Test Start: 2017.03.23 @ 16:58:00

## Tool Information

Drill Pipe:	Length: 4346.00 ft	Diameter: 3.80 inches	Volume: 60.96 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 61.55 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4482.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.65 inches		

Tool Comments:

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

Change Over Sub	1.00			4463.00	
Shut In Tool	5.00			4468.00	
Hydraulic tool	5.00			4473.00	
Packer	5.00			4478.00	20.00 Bottom Of Top Packer
Packer	4.00			4482.00	
Stubb	1.00			4483.00	
Recorder	0.00	8365	Inside	4483.00	
Recorder	0.00	8845	Outside	4483.00	
Perforations	21.00			4504.00	
Change Over Sub	1.00			4505.00	
Drill Pipe	31.00			4536.00	
Change Over Sub	1.00			4537.00	
Bullnose	3.00			4540.00	58.00 Bottom Packers & Anchor

**Total Tool Length: 78.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Val Energy, Inc.

**8-8s-35w Thomas,KS**

125 Market St. Ste 1110  
Wichita, KS 67202

**GMK Kriss Unit #1-8**

Job Ticket: 63760

**DST#: 3**

ATTN: Tim Priest

Test Start: 2017.03.23 @ 16:58:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	gocm 20g 30o 50m	1.011
3300.00	go 30g 70o	46.290
0.00	GTS	0.000

Total Length: 3450.00 ft

Total Volume: 47.301 bbl

Num Fluid Samples: 0

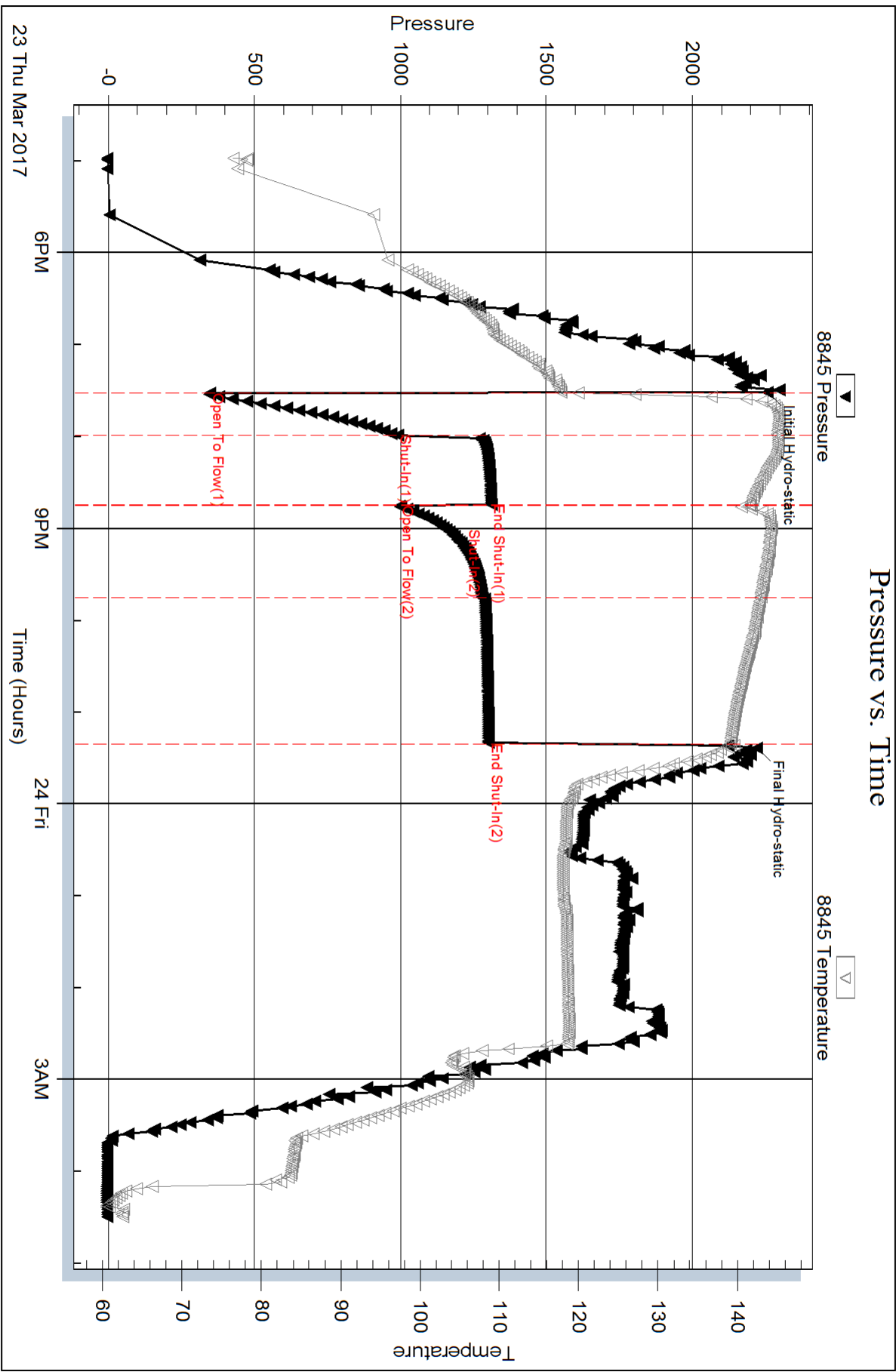
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



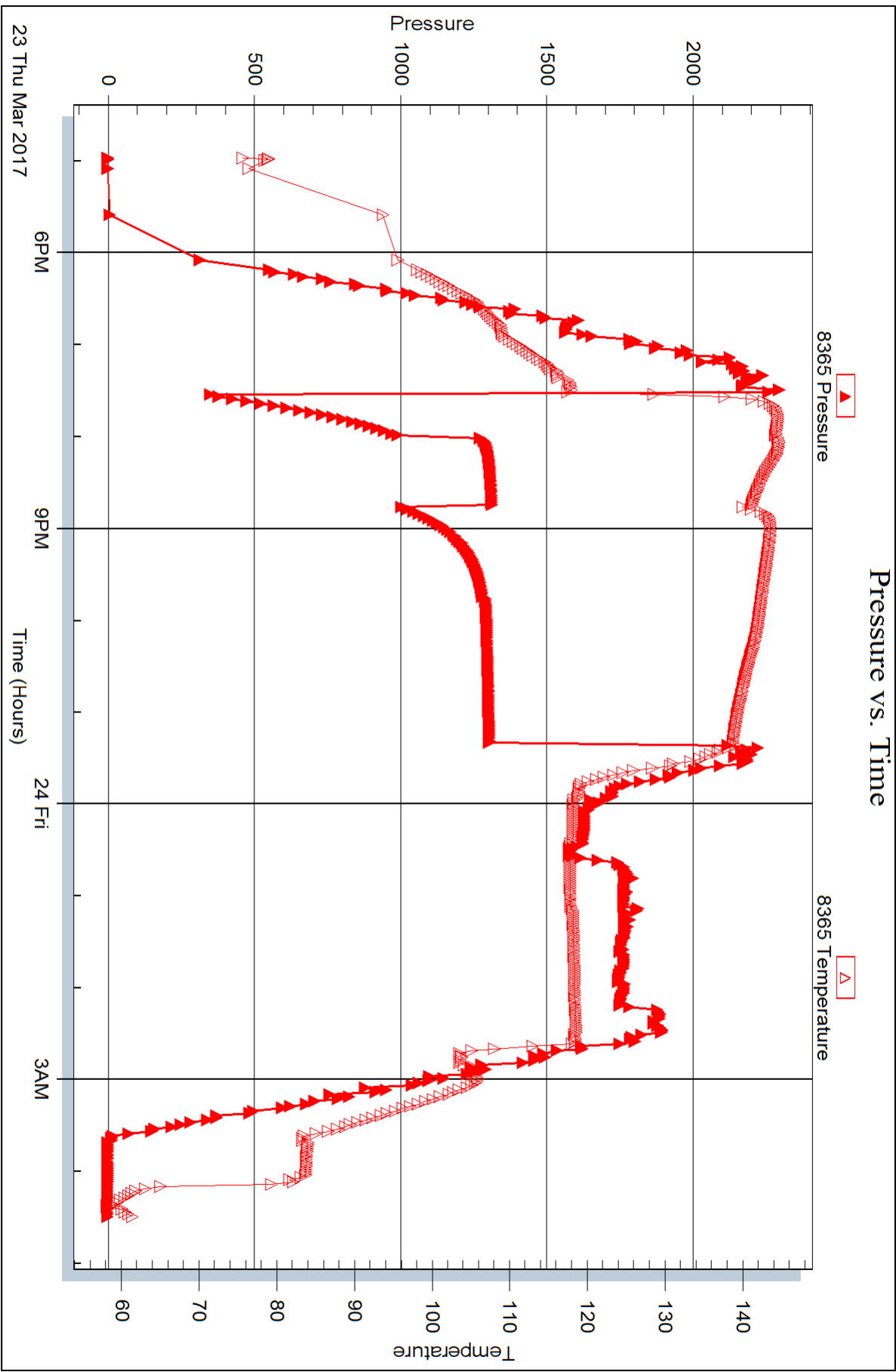
Serial #: 8365

Inside

Val Energy, Inc.

GMK Kriss Unit #1-8

DST Test Number: 3





## DRILL STEM TEST REPORT

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

125 Market St. Ste 1110  
Wichita, KS 67202

ATTN: Tim Priest

### **GMK Kriss Unit #1-8**

### **8-8s-35w Thomas,KS**

Start Date: 2017.03.24 @ 12:09:00

End Date: 2017.03.24 @ 22:07:00

Job Ticket #: 63761                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.03.27 @ 14:50:34



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

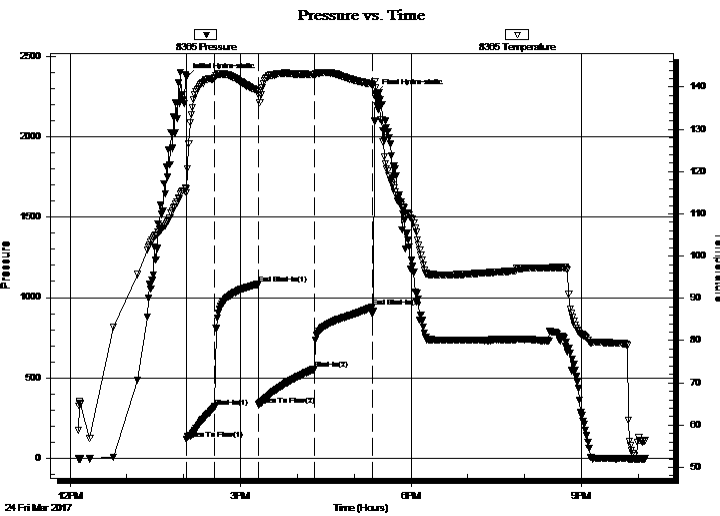
**8-8s-35w Thomas,KS**  
**GMK Kriss Unit #1-8**  
 Job Ticket: 63761 **DST#: 4**  
 Test Start: 2017.03.24 @ 12:09:00

## GENERAL INFORMATION:

Formation: **Pawnee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:03:00  
 Time Test Ended: 22:07:00  
 Interval: **4532.00 ft (KB) To 4590.00 ft (KB) (TVD)**  
 Total Depth: 4590.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 3334.00 ft (KB)  
 3329.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8365 Inside**  
 Press@RunDepth: 553.87 psig @ 4533.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.03.24 End Date: 2017.03.24 Last Calib.: 2017.03.24  
 Start Time: 12:09:05 End Time: 22:07:00 Time On Btm: 2017.03.24 @ 14:02:45  
 Time Off Btm: 2017.03.24 @ 17:22:15

**TEST COMMENT:** IF: BOB @ 2 min.  
 IS: BOB @ 7 min. Gas to surface.  
 FF: BOB @ open.  
 FS: 7" return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2369.07	115.95	Initial Hydro-static
1	118.37	115.02	Open To Flow (1)
31	319.96	142.22	Shut-In(1)
76	1082.46	139.04	End Shut-In(1)
77	332.94	138.22	Open To Flow (2)
136	553.87	142.99	Shut-In(2)
197	941.33	140.65	End Shut-In(2)
200	2265.02	139.77	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	gmco 15g 30m 55o	1.43
1670.00	go 35g 65o	23.43
0.00	GTS	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.

**8-8s-35w Thomas,KS**

125 Market St. Ste 1110  
Wichita, KS 67202

**GMK Kriss Unit #1-8**

Job Ticket: 63761

**DST#: 4**

ATTN: Tim Priest

Test Start: 2017.03.24 @ 12:09:00

## Tool Information

Drill Pipe:	Length: 4410.00 ft	Diameter: 3.80 inches	Volume: 61.86 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 62.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4532.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.65 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4513.00	
Shut In Tool	5.00			4518.00	
Hydraulic tool	5.00			4523.00	
Packer	5.00			4528.00	20.00 Bottom Of Top Packer
Packer	4.00			4532.00	
Stubb	1.00			4533.00	
Recorder	0.00	8365	Inside	4533.00	
Recorder	0.00	8845	Outside	4533.00	
Perforations	21.00			4554.00	
Change Over Sub	1.00			4555.00	
Drill Pipe	31.00			4586.00	
Change Over Sub	1.00			4587.00	
Bullnose	3.00			4590.00	58.00 Bottom Packers & Anchor

**Total Tool Length: 78.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Val Energy, Inc.

**8-8s-35w Thomas,KS**

125 Market St. Ste 1110  
Wichita, KS 67202

**GMK Kriss Unit #1-8**

Job Ticket: 63761

**DST#: 4**

ATTN: Tim Priest

Test Start: 2017.03.24 @ 12:09:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	gmco 15g 30m 55o	1.432
1670.00	go 35g 65o	23.426
0.00	GTS	0.000

Total Length: 1850.00 ft      Total Volume: 24.858 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

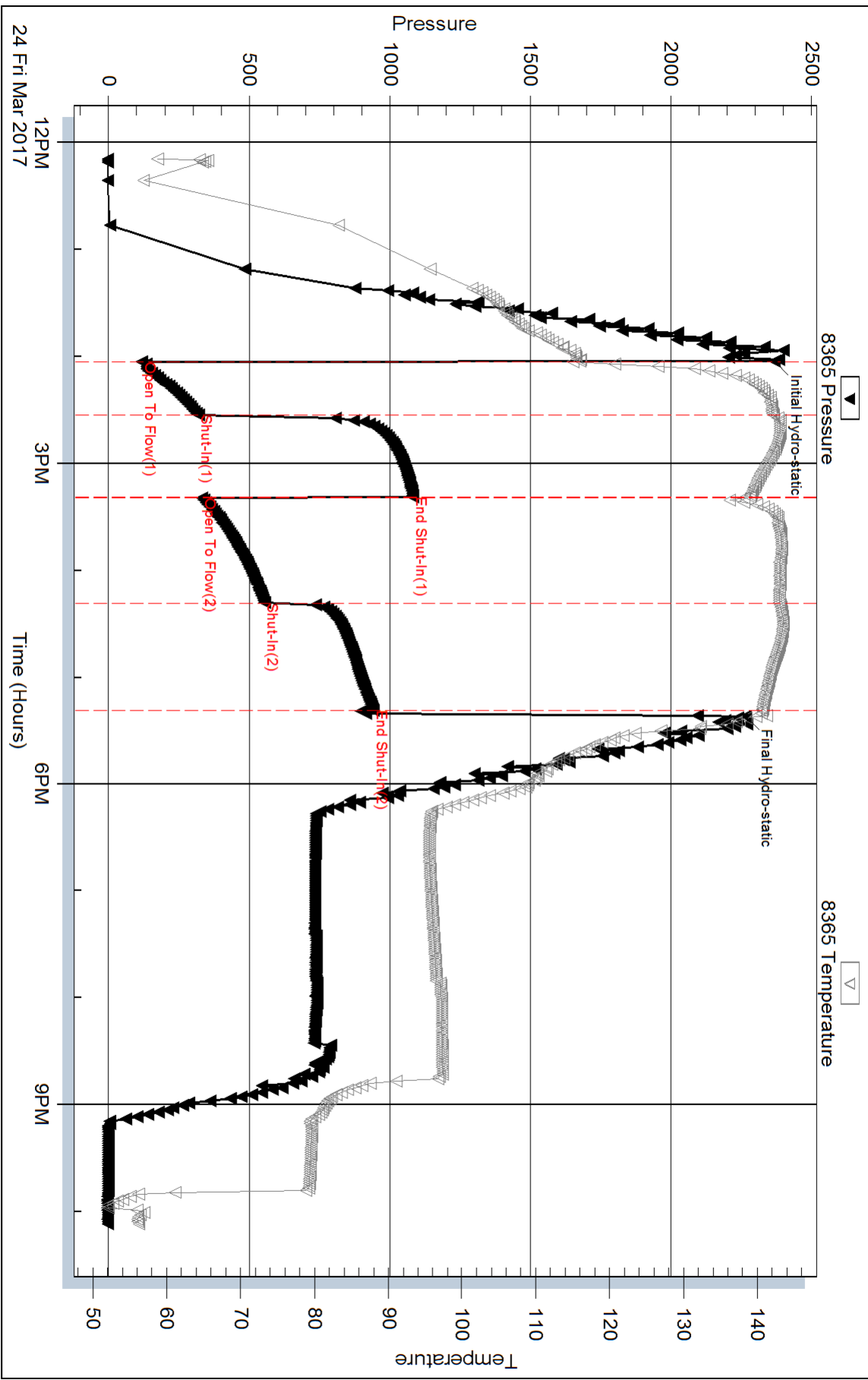
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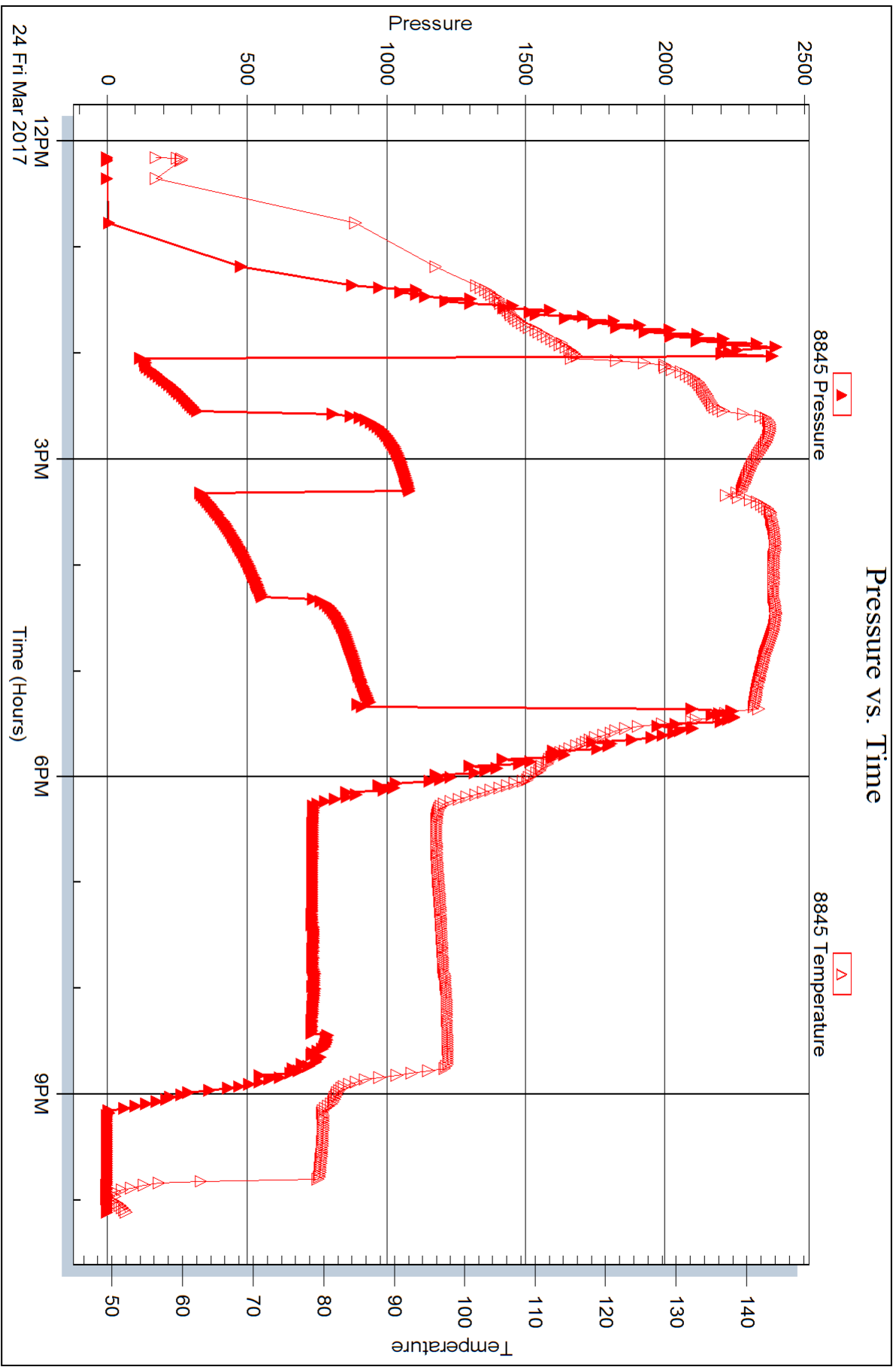
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

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

125 Market St. Ste 1110  
Wichita, KS 67202

ATTN: Tim Priest

### **GMK Kriss Unit #1-8**

### **8-8s-35w Thomas,KS**

Start Date: 2017.03.24 @ 22:57:00

End Date: 2017.03.25 @ 08:10:45

Job Ticket #: 63762                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.03.27 @ 14:50:03



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**8-8s-35w Thomas,KS**  
**GMK Kriss Unit #1-8**  
 Job Ticket: 63762 **DST#: 5**  
 Test Start: 2017.03.24 @ 22:57:00

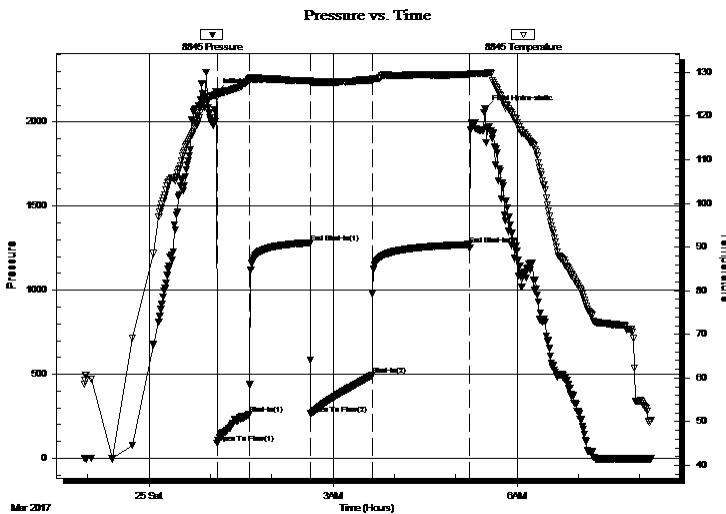
## GENERAL INFORMATION:

Formation: **Upper LKC**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:06:45  
 Time Test Ended: 08:10:45  
 Interval: **4106.00 ft (KB) To 4226.00 ft (KB) (TVD)**  
 Total Depth: 4226.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 3334.00 ft (KB)  
 3329.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8845** **Inside**  
 Press@RunDepth: 493.73 psig @ 4107.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.03.24 End Date: 2017.03.25 Last Calib.: 2017.03.25  
 Start Time: 22:57:05 End Time: 08:10:45 Time On Btm: 2017.03.25 @ 01:06:00  
 Time Off Btm: 2017.03.25 @ 05:28:45

TEST COMMENT: IF: BOB @ 10 min.  
 IS: No return.  
 FF: BOB @ 11 min.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2175.81	124.98	Initial Hydro-static
1	87.53	124.46	Open To Flow (1)
33	262.06	128.41	Shut-In(1)
92	1282.49	128.11	End Shut-In(1)
92	264.89	127.76	Open To Flow (2)
153	493.73	128.23	Shut-In(2)
248	1272.13	129.52	End Shut-In(2)
263	2076.68	129.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	smcw 2m 98w	1.43
650.00	somcw 2o 40m 58w	9.12

\* 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.

**8-8s-35w Thomas,KS**

125 Market St. Ste 1110  
Wichita, KS 67202

**GMK Kriss Unit #1-8**

Job Ticket: 63762

**DST#: 5**

ATTN: Tim Priest

Test Start: 2017.03.24 @ 22:57:00

## Tool Information

Drill Pipe:	Length: 3997.00 ft	Diameter: 3.80 inches	Volume: 56.07 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 56.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4106.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	484.00 ft			
Tool Length:	504.00 ft			
Number of Packers:	2	Diameter: 6.65 inches		

Tool Comments:

## Tool Description

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

Change Over Sub	1.00			4087.00	
Shut In Tool	5.00			4092.00	
Hydraulic tool	5.00			4097.00	
Packer	5.00			4102.00	20.00 Bottom Of Top Packer
Packer	4.00			4106.00	
Stubb	1.00			4107.00	
Recorder	0.00	8845	Inside	4107.00	
Recorder	0.00	8365	Outside	4107.00	
Perforations	2.00			4109.00	
Change Over Sub	1.00			4110.00	
Drill Pipe	95.00			4205.00	
Change Over Sub	1.00			4206.00	
Perforations	16.00			4222.00	
Blank Off Sub	1.00			4223.00	484.00 Tool Interval
Packer	3.00			4226.00	
Blank Spacing	1.00			4227.00	
Perforations	10.00			4237.00	
Change Over Sub	1.00			4238.00	
Recorder	0.00	8522	Below	4238.00	
Drill Pipe	348.00			4586.00	
Change Over Sub	1.00			4587.00	
Bullnose	3.00			4590.00	1000503.00 Bottom Packers & Anchor

**Total Tool Length: 504.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Val Energy, Inc.

**8-8s-35w Thomas,KS**

125 Market St. Ste 1110  
Wichita, KS 67202

**GMK Kriss Unit #1-8**

Job Ticket: 63762

**DST#: 5**

ATTN: Tim Priest

Test Start: 2017.03.24 @ 22:57:00

## 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:

41000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	smcw 2m 98w	1.432
650.00	somcw 2o 40m 58w	9.118

Total Length: 830.00 ft      Total Volume: 10.550 bbl

Num Fluid Samples: 0

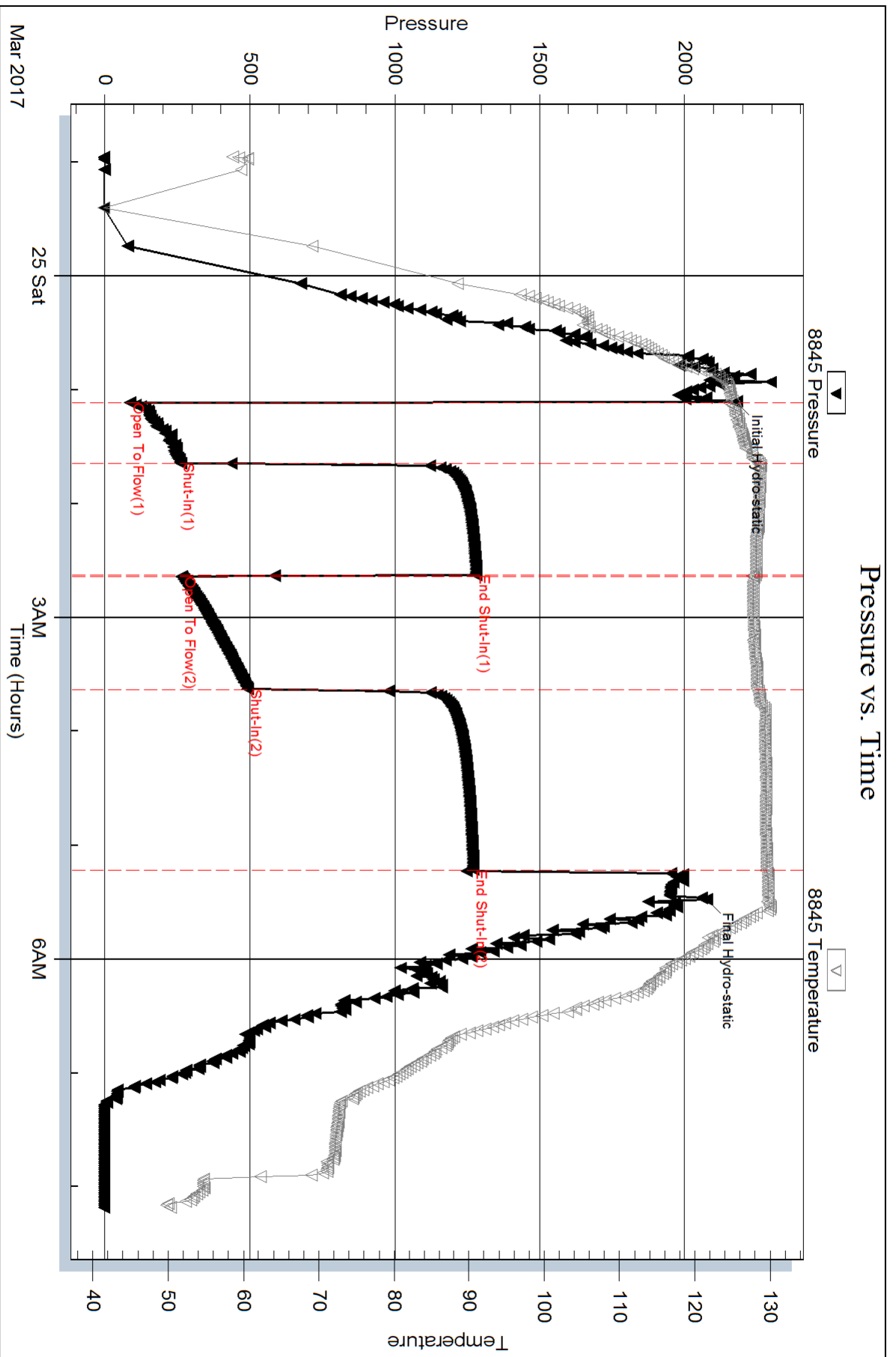
Num Gas Bombs: 0

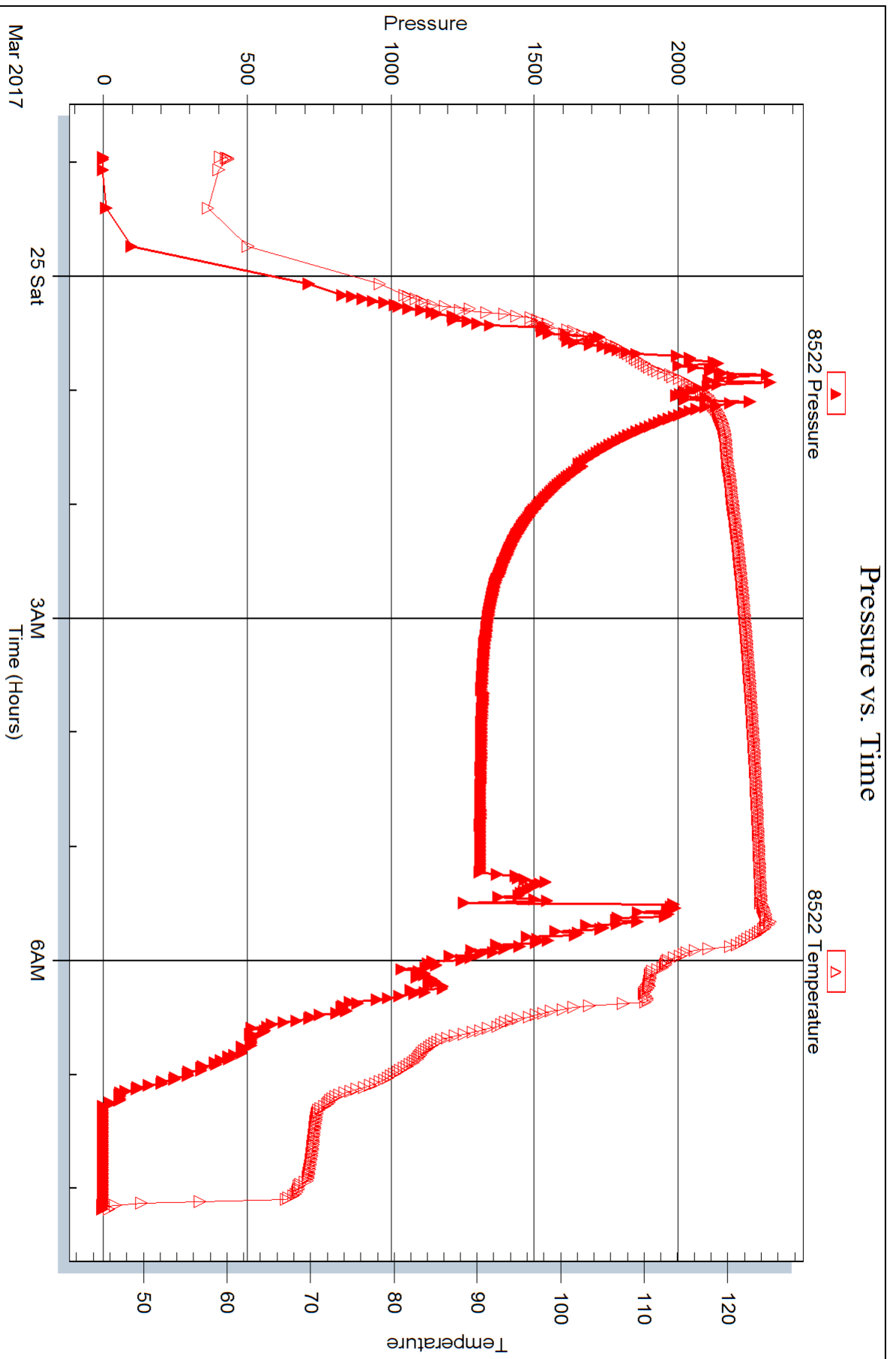
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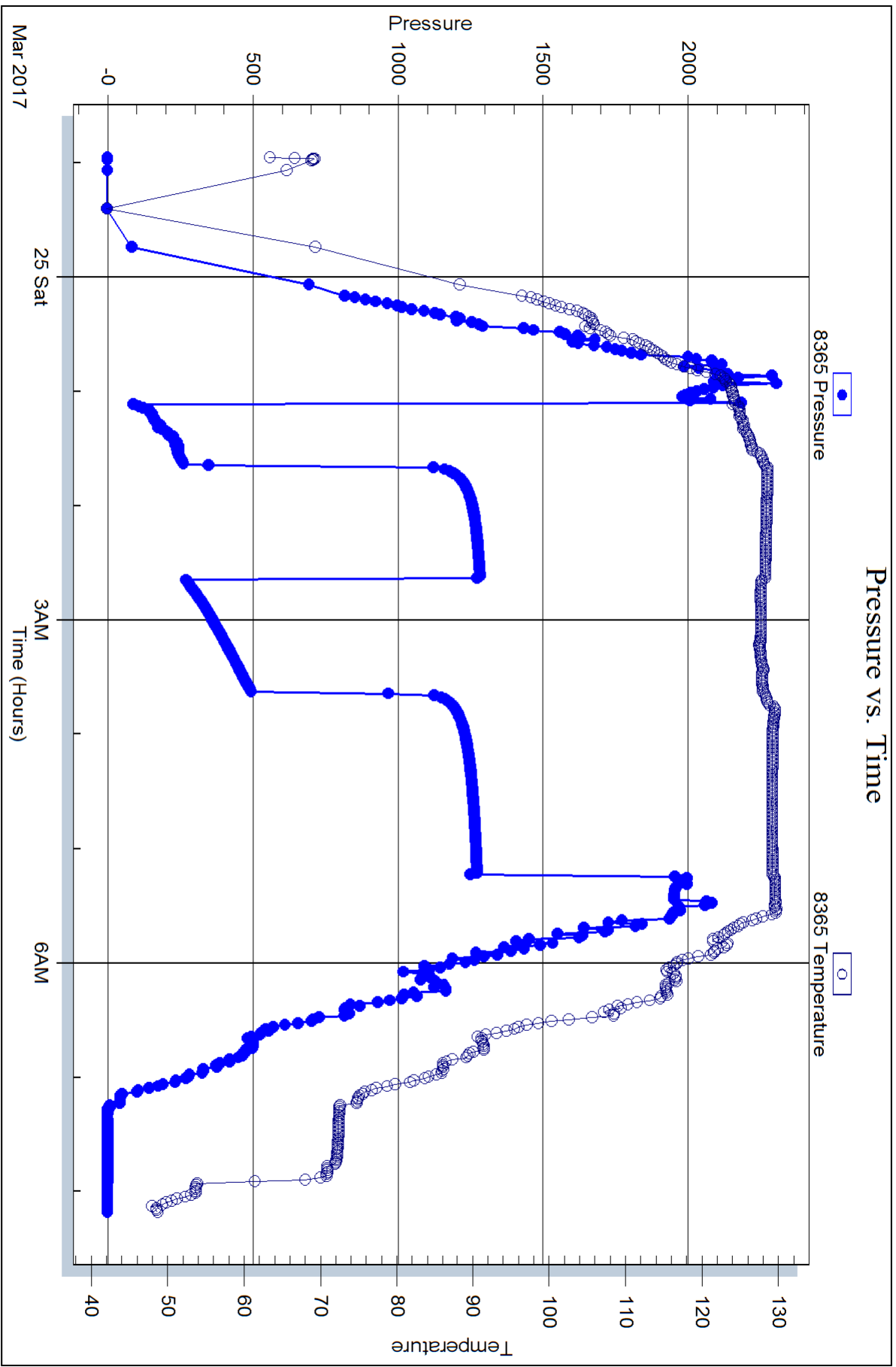
Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .295 @ 41f = 41000ppm









## DRILL STEM TEST REPORT

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

125 Market St. Ste 1110  
Wichita, KS 67202

ATTN: Tim Priest

### **GMK Kriss Unit #1-8**

### **8-8s-35w Thomas,KS**

Start Date: 2017.03.25 @ 20:59:00

End Date: 2017.03.26 @ 05:34:15

Job Ticket #: 63763                      DST #: 6

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

Printed: 2017.03.27 @ 14:48:06



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**8-8s-35w Thomas,KS**  
**GMK Kriss Unit #1-8**  
Job Ticket: 63763 **DST#: 6**  
Test Start: 2017.03.25 @ 20:59:00

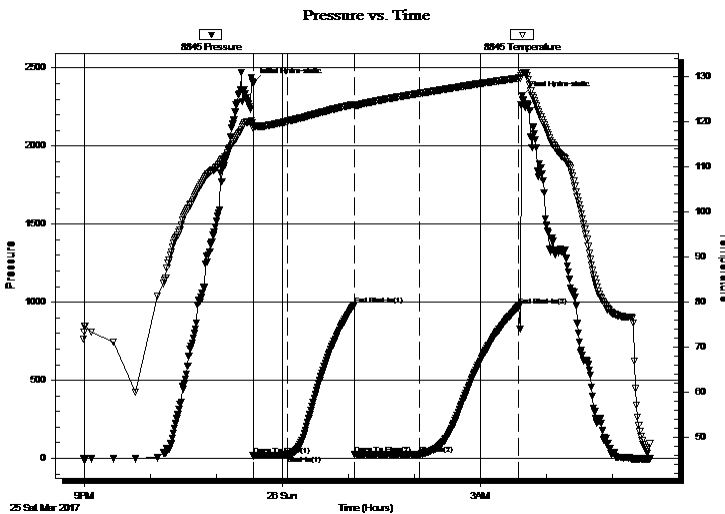
## GENERAL INFORMATION:

Formation: **Myric Station - Cher**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:33:15  
 Time Test Ended: 05:34:15  
 Interval: **4589.00 ft (KB) To 4690.00 ft (KB) (TVD)**  
 Total Depth: 4690.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 3334.00 ft (KB)  
 3329.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8845 Outside**  
 Press@RunDepth: 27.82 psig @ 4590.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.03.25 End Date: 2017.03.26 Last Calib.: 2017.03.26  
 Start Time: 20:59:05 End Time: 05:34:15 Time On Btm: 2017.03.25 @ 23:33:00  
 Time Off Btm: 2017.03.26 @ 03:38:00

TEST COMMENT: IF: 1" blow .  
 IS: No return.  
 FF: 1/4" blow .  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2404.07	119.86	Initial Hydro-static
1	16.49	118.57	Open To Flow (1)
32	20.07	120.14	Shut-In(1)
92	983.21	123.89	End Shut-In(1)
93	23.09	123.52	Open To Flow (2)
152	27.82	126.33	Shut-In(2)
242	972.98	129.69	End Shut-In(2)
245	2322.68	130.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
55.00	mud (oil spots)	0.27

\* 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.

**8-8s-35w Thomas,KS**

125 Market St. Ste 1110  
Wichita, KS 67202

**GMK Kriss Unit #1-8**

Job Ticket: 63763

**DST#: 6**

ATTN: Tim Priest

Test Start: 2017.03.25 @ 20:59:00

## Tool Information

Drill Pipe:	Length: 4474.00 ft	Diameter: 3.80 inches	Volume: 62.76 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 63.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4589.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	101.00 ft			
Tool Length:	121.00 ft			
Number of Packers:	2	Diameter: 6.65 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4570.00	
Shut In Tool	5.00			4575.00	
Hydraulic tool	5.00			4580.00	
Packer	5.00			4585.00	20.00 Bottom Of Top Packer
Packer	4.00			4589.00	
Stubb	1.00			4590.00	
Recorder	0.00	8365	Inside	4590.00	
Recorder	0.00	8845	Outside	4590.00	
Perforations	32.00			4622.00	
Change Over Sub	1.00			4623.00	
Drill Pipe	63.00			4686.00	
Change Over Sub	1.00			4687.00	
Bullnose	3.00			4690.00	101.00 Bottom Packers & Anchor

**Total Tool Length: 121.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Val Energy, Inc.

**8-8s-35w Thomas,KS**

125 Market St. Ste 1110  
Wichita, KS 67202

**GMK Kriss Unit #1-8**

Job Ticket: 63763

**DST#: 6**

ATTN: Tim Priest

Test Start: 2017.03.25 @ 20:59:00

## 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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	mud (oil spots)	0.270

Total Length: 55.00 ft      Total Volume: 0.270 bbl

Num Fluid Samples: 0

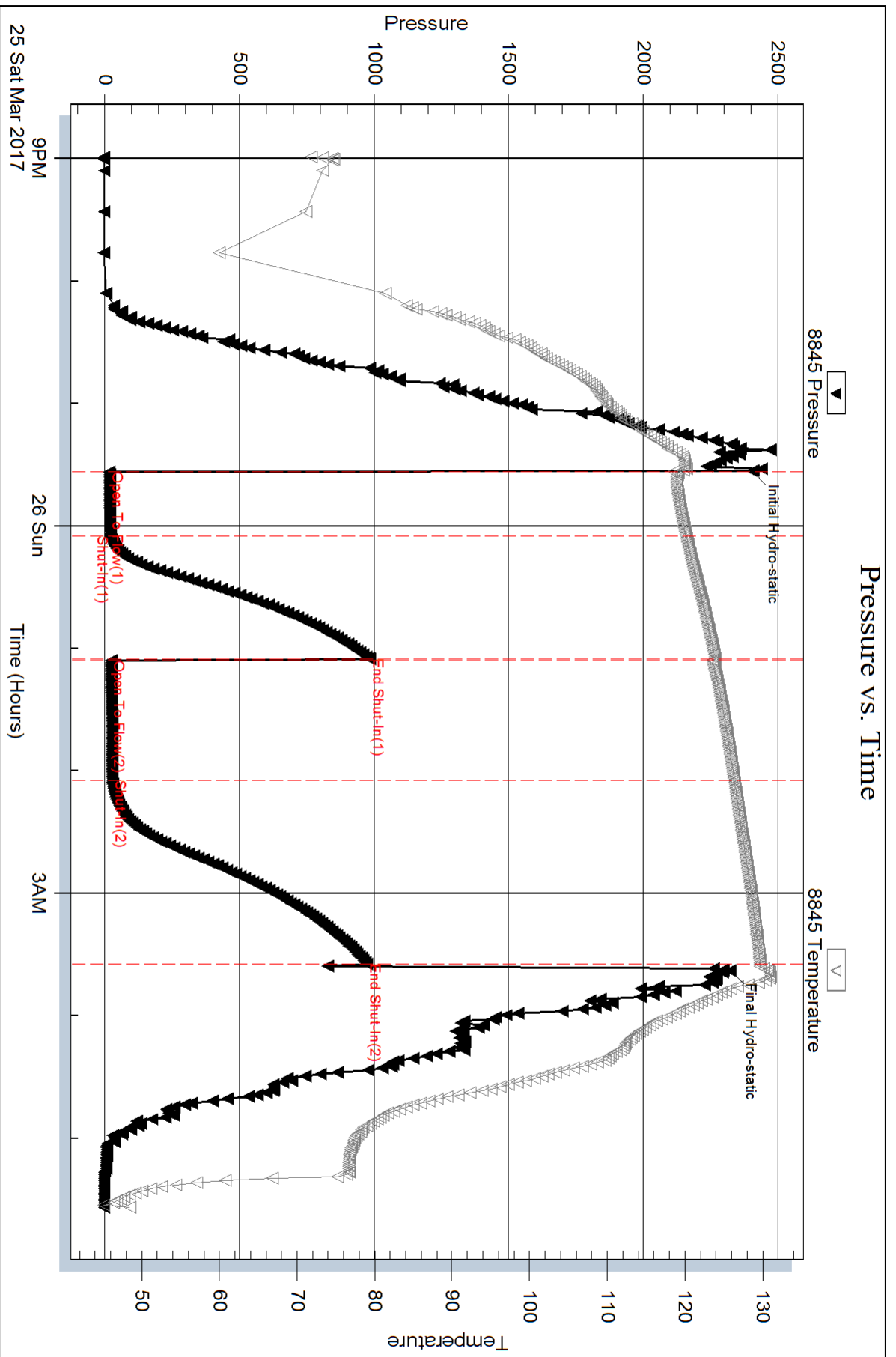
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



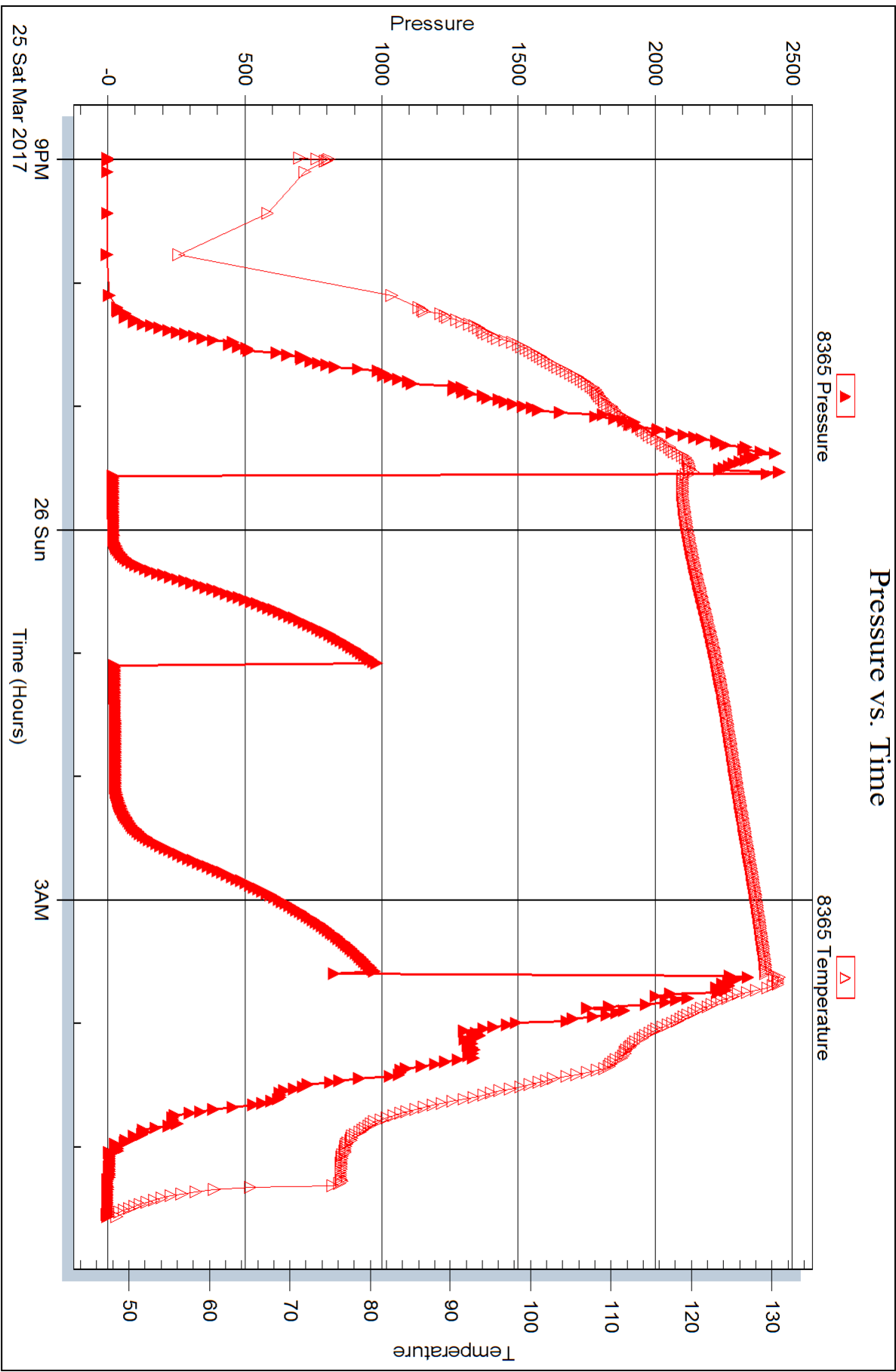
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Inside

Val Energy, Inc.

GMK Kriss Unit #1-8

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 63763

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## DRILL STEM TEST REPORT

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

125 Market St. Ste 1110  
Wichita, KS 67202

ATTN: Tim Priest

### **GMK Kriss Unit #1-8**

### **8-8s-35w Thomas,KS**

Start Date: 2017.03.26 @ 14:10:00

End Date: 2017.03.26 @ 18:23:45

Job Ticket #: 64764                      DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.03.27 @ 14:47:22



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

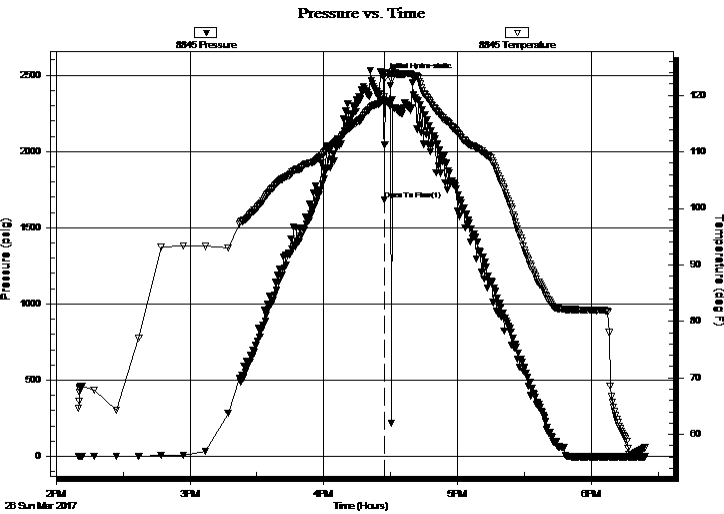
**8-8s-35w Thomas,KS**  
**GMK Kriss Unit #1-8**  
 Job Ticket: 64764 **DST#: 7**  
 Test Start: 2017.03.26 @ 14:10:00

## GENERAL INFORMATION:

Formation: **Johnson**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:27:00  
 Time Test Ended: 18:23:45  
 Interval: **4693.00 ft (KB) To 4740.00 ft (KB) (TVD)**  
 Total Depth: 4740.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 3334.00 ft (KB)  
 3329.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8845 Outside**  
 Press@RunDepth: psig @ 4694.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.03.26 End Date: 2017.03.26 Last Calib.: 2017.03.26  
 Start Time: 14:10:05 End Time: 18:23:45 Time On Btm: 2017.03.26 @ 16:26:45  
 Time Off Btm:

TEST COMMENT: Misrun - Packer did not seat



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2487.66	119.13	Initial Hydro-static
1	1682.79	119.72	Open To Flow (1)

## Recovery

Length (ft)	Description	Volume (bbl)
300.00	Mud 100m - Misrun	3.12

\* 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.

**8-8s-35w Thomas,KS**

125 Market St. Ste 1110  
Wichita, KS 67202

**GMK Kriss Unit #1-8**

Job Ticket: 64764

**DST#: 7**

ATTN: Tim Priest

Test Start: 2017.03.26 @ 14:10:00

## Tool Information

Drill Pipe:	Length: 4568.00 ft	Diameter: 3.80 inches	Volume: 64.08 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 64.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4693.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	67.00 ft			
Number of Packers:	2	Diameter: 6.65 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4674.00	
Shut In Tool	5.00			4679.00	
Hydraulic tool	5.00			4684.00	
Packer	5.00			4689.00	20.00 Bottom Of Top Packer
Packer	4.00			4693.00	
Stubb	1.00			4694.00	
Recorder	0.00	8365	Inside	4694.00	
Recorder	0.00	8845	Outside	4694.00	
Perforations	10.00			4704.00	
Change Over Sub	1.00			4705.00	
Drill Pipe	31.00			4736.00	
Change Over Sub	1.00			4737.00	
Bullnose	3.00			4740.00	47.00 Bottom Packers & Anchor

**Total Tool Length: 67.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Val Energy, Inc.

**8-8s-35w Thomas,KS**

125 Market St. Ste 1110  
Wichita, KS 67202

**GMK Kriss Unit #1-8**

Job Ticket: 64764

**DST#: 7**

ATTN: Tim Priest

Test Start: 2017.03.26 @ 14:10:00

## 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:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	Mud 100m - Misrun	3.115

Total Length: 300.00 ft      Total Volume: 3.115 bbl

Num Fluid Samples: 0

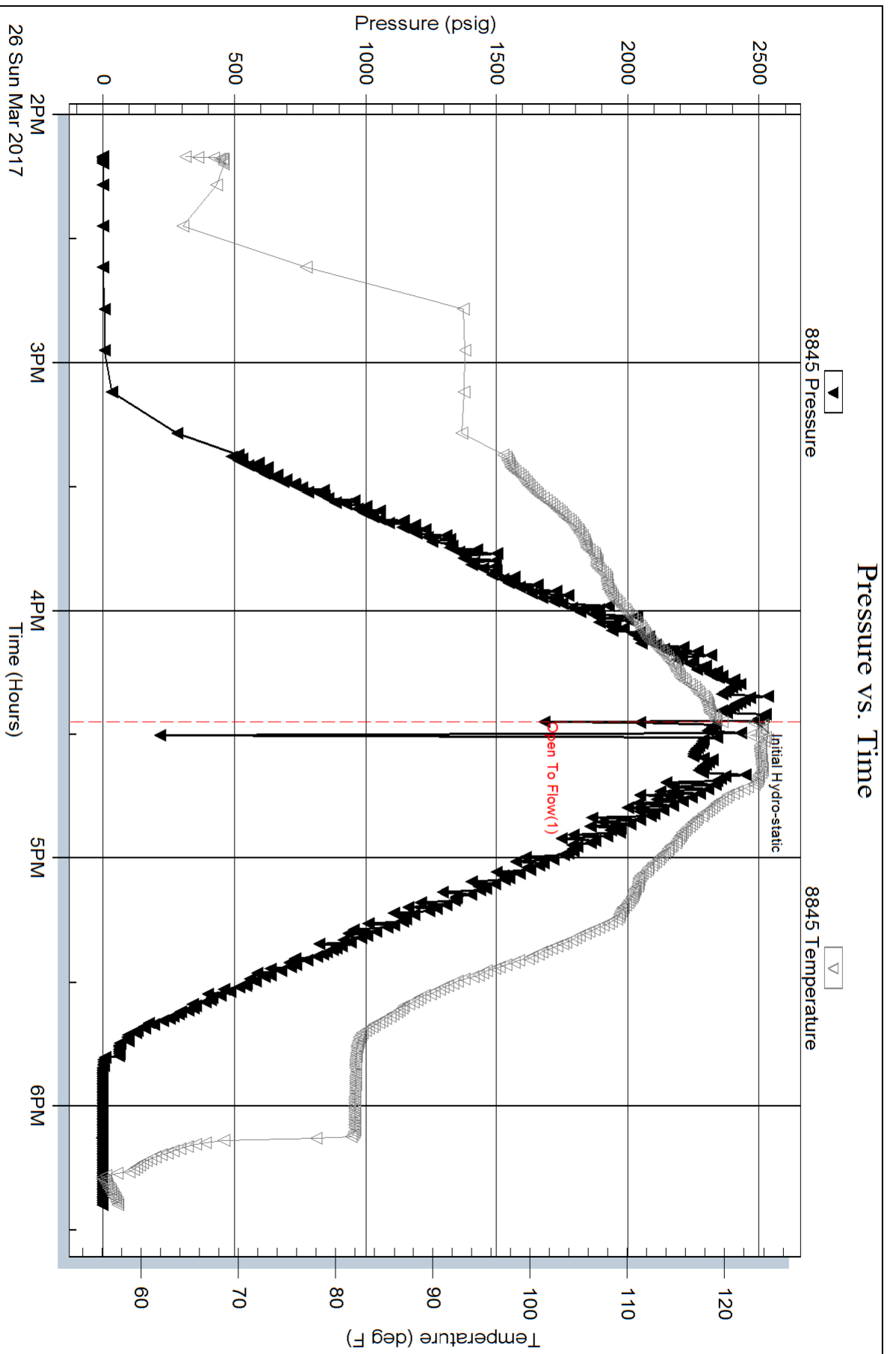
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



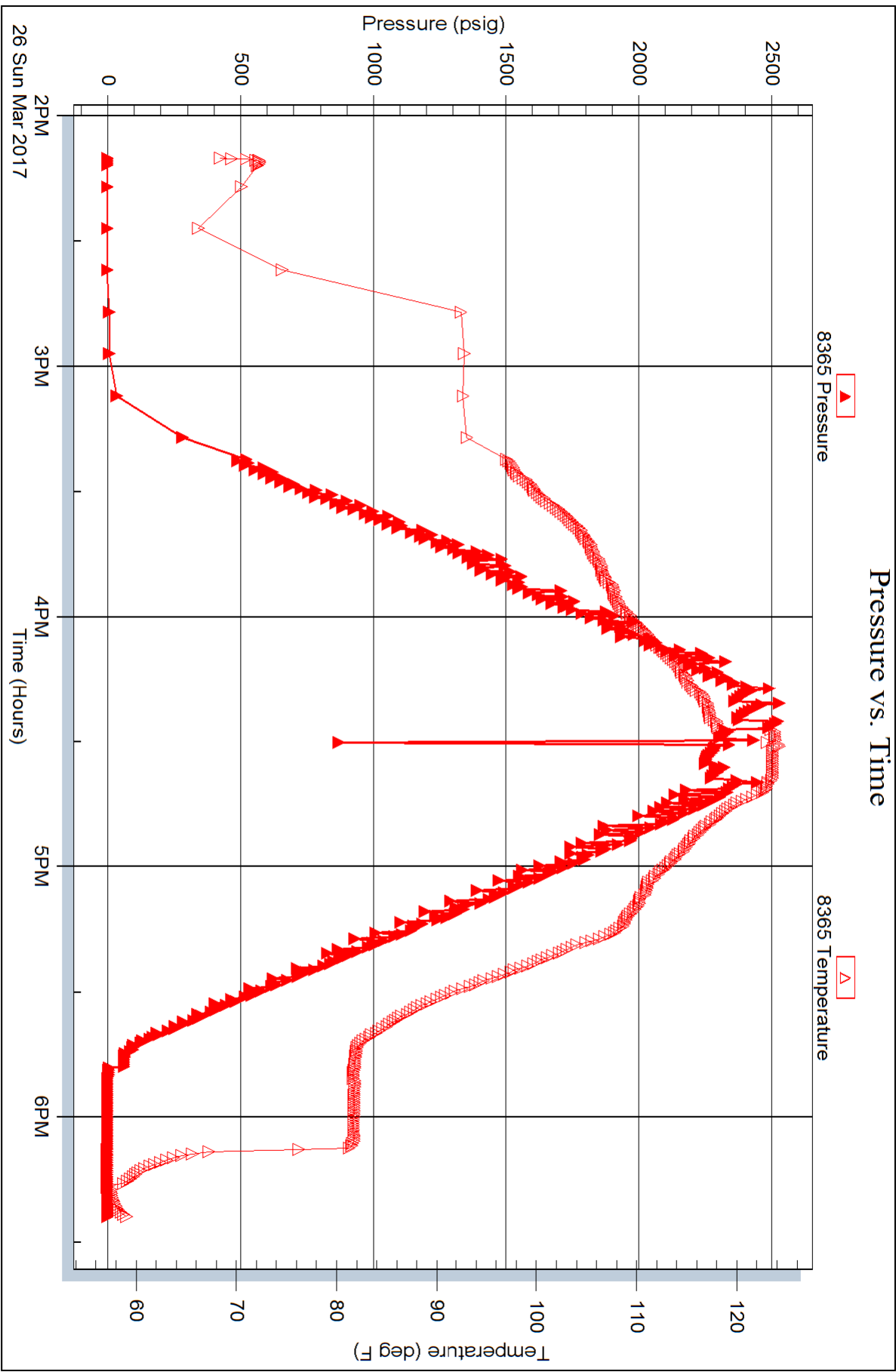
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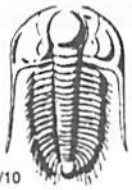
Inside

Val Energy, Inc.

GMK Kriss Unit #1-8

DST Test Number: 7





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **63758**

Well Name & No. GMK Kniss Unit #1-8 Test No. 1 Date 3/22/2017  
 Company Val Energy, Inc Elevation 8334 KB 3329 GL  
 Address 125 Market St. Ste 1110 Wichita, Ks 67202  
 Co. Rep / Geo. Tim Priest Rig \_\_\_\_\_  
 Location: Sec. 8 Twp. 8 Rge. 35 w Co. Thomas State Ks

Interval Tested 4310 - 4390 Zone Tested Lkc H, I & J  
 Anchor Length 80 Drill Pipe Run 4190 Mud Wt. 8.9  
 Top Packer Depth 4305 Drill Collars Run 120 Vis 56  
 Bottom Packer Depth 4310 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4390 Chlorides 5,000 ppm System LCM 1#

Blow Description IF 8 1/2" blow.  
IST Surface return.  
FF BOB @ 28 min.  
FSI 1" return.

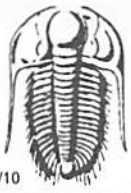
Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>65000</u>	<u>10</u>	<u>85</u>	<u>5</u>	
<u>100</u>	<u>6000</u>	<u>5</u>	<u>20</u>	<u>75</u>	
	<u>240' GIP</u>				

Rec Total 250 BHT 130 Gravity 21 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2180  Test 1150 T-On Location 0206  
 (B) First Initial Flow 20  Jars \_\_\_\_\_ T-Started 0311  
 (C) First Final Flow 69  Safety Joint \_\_\_\_\_ T-Open 0626  
 (D) Initial Shut-In 1150  Circ Sub NC T-Pulled 0941  
 (E) Second Initial Flow 75  Hourly Standby \_\_\_\_\_ T-Out 1222  
 (F) Second Final Flow 106  Mileage 163 Rt 122.25  
 (G) Final Shut-In 1128  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2107  Straddle \_\_\_\_\_  
 Shale Packer 250  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 36  Day Standby \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 45  Accessibility \_\_\_\_\_ Total 1522.25  
 Final Flow 60  Sub Total 1522.25 MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60

Approved By \_\_\_\_\_ Our Representative [Signature]

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



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **63759**

Well Name & No. G.M.K. Kriss Unit #1-8 Test No. 2 Date 3/23/2017  
 Company Kal Energy, Inc Elevation 8334 KB 3329 GL  
 Address 125 Market St Ste 1110 Wichita, Ks 67202  
 Co. Rep / Geo. Tin Priest Rig WW #2  
 Location: Sec. 8 Twp. 8 Rge. 35W Co. Thomas State Ks

Interval Tested 4386 - 4410 Zone Tested LKC - K  
 Anchor Length 24 Drill Pipe Run 4250 Mud Wt. 9.4  
 Top Packer Depth 4381 Drill Collars Run 120 Vis 48  
 Bottom Packer Depth 4386 Wt. Pipe Run Ø WL 8.0  
 Total Depth 4410 Chlorides 6,000 ppm System LCM Tr

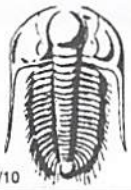
Blow Description IF: 2" blow  
ISI: No return.  
FF: 1" blow  
FSI: surface return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>650 cm</u>	<u>5</u>	<u>2</u>	<u>93</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 60 BHT 126 Gravity — API RW @ F Chlorides — ppm  
 (A) Initial Hydrostatic 2291  Test 1150 T-On Location 1815 3/22  
 (B) First Initial Flow 13  Jars \_\_\_\_\_ T-Started 1830  
 (C) First Final Flow 24  Safety Joint \_\_\_\_\_ T-Open 2036  
 (D) Initial Shut-In 1251  Circ Sub KC T-Pulled 2306  
 (E) Second Initial Flow 27  Hourly Standby \_\_\_\_\_ T-Out 0108 3/23  
 (F) Second Final Flow 36  Mileage 16.3 RT 122.25 Comments \_\_\_\_\_  
 (G) Final Shut-In 1217  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2137  Straddle \_\_\_\_\_  
 Shale Packer 250  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Day Standby \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 48  Accessibility \_\_\_\_\_ Total 1522.25  
 Final Flow 30  Sub Total 1522.25 MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 45

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **63760**

Well Name & No. GMK Kriss Unit #1-8 Test No. 3 Date 3/24/2017  
 Company Val Energy, Inc Elevation 3334 KB 3329 GL  
 Address 125 Market St Ste 110 Wichita, Ks 67202  
 Co. Rep / Geo. Tim Forest Rig WW #2  
 Location: Sec. 8 Twp. 8s Rge. 35w Co. Thomas State KS

Interval Tested 4482 4540 Zone Tested Marmaton  
 Anchor Length 56 Drill Pipe Run 4348 Mud Wt. 9.4  
 Top Packer Depth 4477 Drill Collars Run 120 Vis 52  
 Bottom Packer Depth 4482 Wt. Pipe Run Ø WL 8.0  
 Total Depth 4540 Chlorides 7,000 ppm System LCM Tr

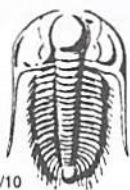
Blow Description IF: BOB @ 30 sec  
FSI: BOB @ 4 min Gas to surface  
FF: BOB @ open  
FSI: 1" return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>3300</u>	<u>60</u>	<u>30</u>	<u>70</u>		
<u>150</u>	<u>60cm</u>	<u>20</u>	<u>30</u>		<u>50</u>
	<u>Gas to surface</u>				

Rec Total 3450 BHT 139 Gravity 39 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2257</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1600</u>
(B) First Initial Flow <u>349</u>	<input type="checkbox"/> Jars	T-Started <u>1715</u>
(C) First Final Flow <u>990</u>	<input type="checkbox"/> Safety Joint	T-Open <u>1926</u>
(D) Initial Shut-In <u>1313</u>	<input checked="" type="checkbox"/> Circ Sub <u>used</u>	T-Pulled <u>2310</u>
(E) Second Initial Flow <u>997</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0431</u>
(F) Second Final Flow <u>1282</u>	<input checked="" type="checkbox"/> Mileage <u>163RT</u> 122.25	Comments
(G) Final Shut-In <u>1304</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2221</u>	<input type="checkbox"/> Straddle	
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Initial Open <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
Initial Shut-In <u>49</u>	<input type="checkbox"/> Accessibility	Total <u>1522.25</u>
Final Flow <u>60</u>	Sub Total <u>1522.25</u>	MP/DST Disc't
Final Shut-In <u>90</u>		

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **63761**

Well Name & No. GMK Kriss #1-8 Test No. 4 Date 3/24/2017  
 Company Val Energy, Inc Elevation 3334 KB 3329 GL  
 Address 125 Market St Ste 1110 Wichita, KS 67202  
 Co. Rep / Geo. Tim Priest Rig WW#2  
 Location: Sec. 8 Twp. 8 S Rge. 35 W Co. Thomas State KS

Interval Tested 4532-4590 Zone Tested Pawnee  
 Anchor Length 58' Drill Pipe Run 4410 Mud Wt. 9.1  
 Top Packer Depth 4527 Drill Collars Run 120 Vis 59  
 Bottom Packer Depth 4532 Wt. Pipe Run Ø WL 9.6  
 Total Depth 4590 Chlorides 8,000 ppm System LCM 1#

Blow Description IF BOB @ 2 min.  
ISI BOB @ 7 min. Gas to surface  
FF BOB @ open.  
FST 7" return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1670</u>	<u>60</u>	<u>35</u>	<u>65</u>		
<u>180</u>	<u>GMCO</u>	<u>15</u>	<u>55</u>		<u>30</u>
	<u>Gas to surface</u>				

Rec Total 1850 BHT 140 Gravity 40 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2369</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1130</u>
(B) First Initial Flow <u>118</u>	<input type="checkbox"/> Jars	T-Started <u>1209</u>
(C) First Final Flow <u>320</u>	<input type="checkbox"/> Safety Joint	T-Open <u>1403</u>
(D) Initial Shut-In <u>1082</u>	<input checked="" type="checkbox"/> Circ Sub <u>used</u> 50	T-Pulled <u>1718</u>
(E) Second Initial Flow <u>333</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2207</u>
(F) Second Final Flow <u>554</u>	<input checked="" type="checkbox"/> Mileage <u>103 RT</u> 122.25	Comments
(G) Final Shut-In <u>941</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2265</u>	<input type="checkbox"/> Straddle	
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Accessibility	Total <u>1572.25</u>
Final Shut-In <u>60</u>	Sub Total <u>1572.25</u>	MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **63762**

Well Name & No. GMK Kriss #1-8 Test No. 5 Date 3/25/2017  
 Company Val Energy, Inc Elevation 3334 KB 3329 GL  
 Address 125 Market St Ste 110 Wichita, Ks 67202  
 Co. Rep / Geo. Tim Priest Rig WW #2  
 Location: Sec. 8 Twp. 8S Rge. 35W Co. Thomas State Ks

Interval Tested 4106 4226 Zone Tested Upper LKC  
 Anchor Length 120' / 364 Tail Drill Pipe Run 3999 Mud Wt. 9.2  
 Top Packer Depth 4101 - 4106 Drill Collars Run 120 Vis 58  
 Bottom Packer Depth 4226 Wt. Pipe Run 0 WL 10.4  
 Total Depth 4590 Chlorides 9500 ppm System LCM 1#

Blow Description IF: BOB @ 10 min  
ISI: No return  
PF: BOB @ 11 min  
PSI: No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>650</u>	<u>50 MCW</u>	<u>2</u>	<u>58</u>	<u>40</u>	
<u>180</u>	<u>5 MCW</u>		<u>98</u>	<u>2</u>	

Rec Total 830 BHT 130 Gravity — API RW 1295 @ 41 °F Chlorides 41000 ppm  
 (A) Initial Hydrostatic 2175  Test 1150 T-On Location 2210  
 (B) First Initial Flow 68  Jars \_\_\_\_\_ T-Started 2257  
 (C) First Final Flow 262  Safety Joint \_\_\_\_\_ T-Open 0109  
 (D) Initial Shut-In 1282  Circ Sub 4C T-Pulled 0509  
 (E) Second Initial Flow 265  Hourly Standby \_\_\_\_\_ T-Out 0811  
 (F) Second Final Flow 494  Mileage 163 Rt 122.25  
 (G) Final Shut-In 1272  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2077  Straddle 600  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer 250  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 60  Day Standby \_\_\_\_\_ Total 2122.25  
 Final Flow 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 90 Sub Total 2122.25

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

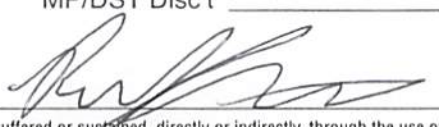
NO. **63763**

Well Name & No. GMK Kniss #1-8 Test No. 6 Date 3/26/2017  
 Company Val Energy Inc Elevation 3334 KB 3329 GL  
 Address 125 Marled St Ste 110 Wichita, KS 67202  
 Co. Rep / Geo. Tom Priest Rig WW #2  
 Location: Sec. 9 Twp. 8s Rge. 35 W Co. Thomas State KS

Interval Tested 4589 4690 Zone Tested Myric Station, Ft Scott, Cherokee  
 Anchor Length 101 Drill Pipe Run 4474 Mud Wt. 9.5  
 Top Packer Depth 4584 Drill Collars Run 120 Vis 57  
 Bottom Packer Depth 4589 Wt. Pipe Run 0 WL 7.2  
 Total Depth 4690 Chlorides 6000 ppm System LCM 1.5 #  
 Blow Description IF 1" blow  
ISI No return  
FF 1/4" blow  
FSI No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>SS</u>	<u>MUD</u>			<u>100</u>	
	<u>OIL SANDS</u>				

Rec Total 55 BHT 130 Gravity — API RW — @ — °F Chlorides — ppm  
 (A) Initial Hydrostatic 2404  Test 1150 T-On Location 2038 3/25  
 (B) First Initial Flow 16  Jars \_\_\_\_\_ T-Started 2059  
 (C) First Final Flow 20  Safety Joint \_\_\_\_\_ T-Open 2334  
 (D) Initial Shut-In 983  Circ Sub 4/c T-Pulled 0334 3/24  
 (E) Second Initial Flow 23  Hourly Standby \_\_\_\_\_ T-Out 0534  
 (F) Second Final Flow 28  Mileage 163 Rr 122.25 Comments \_\_\_\_\_  
 (G) Final Shut-In 973  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2323  Straddle \_\_\_\_\_  Ruined Shale Packer 320  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 320  
 Day Standby \_\_\_\_\_ Total 1842.25  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1522.25

Approved By \_\_\_\_\_ Our Representative 

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **63764**

Well Name & No. GMK Kniss # 1-8 Test No. 7 Date 3/27/2017  
 Company Val Energy, Inc Elevation 3384 KB 3529 GL  
 Address 125 Market St Ste 1110 Wichita, Ks 67202  
 Co. Rep / Geo. Tim Priest Rig WW #2  
 Location: Sec. 8 Twp. 8s Rge. 35 w Co. Thomas State Ks

Interval Tested 4693 - 4740 Zone Tested Johnson  
 Anchor Length 47' Drill Pipe Run 4524 Mud Wt. 9.5  
 Top Packer Depth 4688 Drill Collars Run 120 Vis 57  
 Bottom Packer Depth 4693 Wt. Pipe Run 0 WL 7.2  
 Total Depth 4740 Chlorides 6,000 ppm System LCM 1.5

Blow Description FE  
ISI  
F  
MIS RUN  
Packer did not seat

Rec	Feet of	%gas	%oil	%water	%mud

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

(A) Initial Hydrostatic \_\_\_\_\_  Test 950 T-On Location 12 15  
 (B) First Initial Flow MIS RUN  Jars \_\_\_\_\_ T-Started 14 10  
 (C) First Final Flow \_\_\_\_\_  Safety Joint \_\_\_\_\_ T-Open 16 37  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub 1/2 T-Pulled 16 45  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 18 27  
 (F) Second Final Flow \_\_\_\_\_  Mileage 163 Rt 122.25 Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic \_\_\_\_\_  Straddle \_\_\_\_\_  
 Shale Packer 250  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1322.25  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1322.25

Approved By \_\_\_\_\_ Our Representative

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PAGE 1 of 1	CUST NO 1004409	YARD # 1718	INVOICE DATE 04/03/2017
<b>INVOICE NUMBER</b> <b>92390152</b>			

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 GMX Kriss Unit 1-8  
 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
41012873	19919		Net - 30 days	05/03/2017

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 03/28/2017 to 03/28/2017</i>				
0041012873				
171814316L Cement-New Well Casing/Pi 03/28/2017 Cement Production Casing				
AA2 Cement	125.00	EA	7.99	998.75 T
A-Con' Blend	400.00	EA	8.46	3,384.00 T
60/40 POZ	30.00	EA	5.64	169.20 T
Celloflake	132.00	EA	1.74	229.68 T
C-41P	30.00	EA	1.88	56.40 T
Salt	492.00	EA	0.24	118.08 T
Mag Chem 10CR	352.00	EA	1.27	447.04 T
C-15	94.00	EA	5.88	552.72 T
Super Flush II	500.00	EA	0.72	360.00 T
Gilsonite	625.00	EA	0.31	193.75 T
Calcium Chloride	1,128.00	EA	0.49	552.72 T
"Two Stage Cement Collar, 5 1/2" (Blue)	1.00	EA	2,115.00	2,115.00
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	169.20	169.20
5 1/2 x 7 7/8 W/Fins(green)	7.00	EA	35.25	246.75
"5 1/2" Basket (Blue)"	1.00	EA	136.30	136.30
"Unit Mileage Chg (PU, cars one way)"	100.00	MI	2.12	212.00
Heavy Equipment Mileage	300.00	MI	3.53	1,059.00
"Proppant & Bulk Del. Chgs., per ton mil	2,596.00	EA	1.18	3,063.28
Blending & Mixing Service Charge	555.00	BAG	0.66	366.30
Plug Container Util. Chg.	1.00	EA	117.50	117.50
High Head Charge (Over 6')	1.00	EA	141.00	141.00
Depth Charge; 4001'-5000'	1.00	EA	1,184.40	1,184.40
"Service Supervisor, first 8 hrs on loc.	1.00	EA	82.25	82.25

<b>PLEASE REMIT TO:</b>	<b>SEND OTHER CORRESPONDENCE TO:</b>	<b>SUB TOTAL</b>	<b>15,955.32</b>
<b>BASIC ENERGY SERVICES, LP</b>	<b>BASIC ENERGY SERVICES, LP</b>	<b>TAX</b>	<b>564.99</b>
<b>PO BOX 841903</b>	<b>801 CHERRY ST, STE 2100</b>	<b>INVOICE TOTAL</b>	<b>16,520.31</b>
<b>DALLAS, TX 75284-1903</b>	<b>FORT WORTH, TX 76102</b>		





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

**PRESSURE PUMPING**

**Job Log**

Customer:	Val Energy Inc.	Cement Pump No.:	37223, 19919 9Hrs.	Operator TRK No.:	78938
Address:	125 N. Market Ste 1710	Ticket #:	1718 14316 L	Bulk TRK No.:	70897, 19578 Santiago
City, State, Zip:	Wichita Ks 67206	Job Type:	Z42 - Cement Production Casing		
Service District:	1718 - Liberal, Ks.	Well Type:	OIL		
Well Name and No.:	GMX Kriss Unit 1-8	Well Location:	8,8,35	County:	Thomas
				State:	Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
AA2	125	1/4 Polyflake, 1/4# Defoamer, 10% Salt, .8% C-15, 5# Gilsonte, 3% Mag Chem 10CR	70897, 19578 Santiago	Front	Back
A-CON	400	3% CC, 1/4# Polyflake	14355, 37724 Willie	Front	Back
60/40 POZ	30		70897, 19578	Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
<b>Lead:</b>	15	1.41	5.78	176.25	TT Man Hours:	72
<b>Tail:</b>	11.6	2.77	16.75	1108	# of Men on Job:	4

Time (am/pm)	(BPM)	Volume (BBLS)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
20:00							ON LOCATION & SAFETY MEETING
20:30							RIG UP
11:00 PM							RIG TO CIRCULATE
11:30 PM							CIRCULATE
12:35 AM		8.8 slurry					PUMP RAT HOLE 30SX 60/40
0:52							PRESSURE TEST TO 3200PSI
							RIG TO P.T.
12:53 AM	3	11.9				80	PUMP 500GALLONS SUPER FLUSH
0:59	3.1	5				80	PUMP 5BBL SPACER
1:04	3.3	31.3 slurry				120	PUMP TAIL 125SX @ 15#
1:14							SHUTDOWN / DROP PLUG / W.P.
1:30	4.5	10				60	DISPLACE W/ 47BBL WATER
	4.5	20				60	
	7	30				160	
	7	40				170	
	7	47				170	SWITCH TO MUDD
	5.8	60				130	
	6.1	70				160	
	6.7	80				150	
	6.6	90				190	
	6.5	100				130	
	6.4	106				400	SLOW RATE TO 2.1 @ 200BPM
2:00	2	116.1				430	LAND PLUG PRESSURE UP TO 1500PSI
Size Hole	7 7/8"	Depth					TYPE
Size & Wt. Csg.	5 1/2" 15.5#	Depth	4900'	New / Used			Plug Container
D.V. TOOL	2900'	Depth					Depth
Top Plugs		Type					Depth
							CIBP

Customer Signature: <i>X</i>	Basic Representative:	Daniel Beck
	Basic Signature:	<i>Daniel Beck</i>
	Date of Service:	3/28/2017



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

**PRESSURE PUMPING**

**Job Log**

Customer:	Val Energy Inc.	Cement Pump No.:	37223, 19919 9Hrs.	Operator TRK No.:	78938	
Address:		Ticket #:	1718 14316 L	Bulk TRK No.:	70897, 19578 Santiago	14355, 37724 Willie
City, State, Zip:		Job Type:	Z42 - Cement Production Casing			
Service District:	1718-Liberal Ks	Well Type:	OIL			
Well Name and No.:	GMX Kriss Unit 1-8	Well Location:	8,8,35	County:	Thomas	State: Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
			70897, 19578 Santiago	Front	Back
			14355, 37724 Willie	Front	Back
				Front	Back

Lead/Tail:	Weight #1 Gal.	Yield	Water Requirements	CU. FT.	Man Hours / Personnel
<b>Lead:</b>					Man Hours:
<b>Tail:</b>					# of Men on Job:

Time (am/pm)	(BPM)	Volume (BBS)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
2:03							RELEASE BACK -- FLOAT HELD
2:10							DROP OPENING TOOL
2:25 AM		1			1500		PUMP OPENING TOOL OPEN @ 1500PSI
2:27 AM							SHUTDOWN / SWITCH TO RIG TO CIRCULATE
3:00 AM							RIG TO P.T.
3:10	6.9	197.3 slurry			260		PUMP TAIL 400SX @ 11.6#
3:37							SHUTDOWN / DROP PLUG / W.P.
3:53 AM	2.5	10			130		DISPLACE
	7	20			400		
	6.9	30			470		
	6.9	40			540		
	6.9	50			580		
	6.9	59			580		SLOW RATE TO 2.3BPM @ 500PSI
4:10	2.3	69			550		LAND PLUG PRESSURE UP TO 1550PSI
4:13							RELEASE BACK -- FLOAT HELD
							JOB COMPLETE

Size Hole	7 7/8"	Depth			TYPE	
Size & Wt. Csg.	5 1/2" 15.5#	Depth	4900'	New / Used	Packer	Depth
tbg.		Depth			Retainer	Depth
Top Plugs	2900'	Type			Perfs	CIBP

Customer Signature: <i>[Signature]</i>	Basic Representative:	Daniel Beck
	Basic Signature:	<i>Daniel Beck</i>
	Date of Service:	3/28/2017



Val Energy Inc.  
GMXKRISUNIT#1-8

