

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 Recompletion Date \_\_\_\_\_ Date Reached TD \_\_\_\_\_ Completion Date or Recompletion Date \_\_\_\_\_

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

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

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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REMIT TO  
 QES Pressure Pumping 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#

814482

Invoice Date: 10/31/18

Terms: Net 30

Page 1

VAL ENERGY

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

KRISS UNIT 1-8

Tax: 60.00

Total: 3,190.88





PRESSURE PUMPING LLC  
 PO Box 884, Chanute, KS 66720  
 620-431-9210 or 800-467-8676

11941  
 11822

TICKET NUMBER 55887  
 LOCATION Ordway Ks  
 FOREMAN Walt Dinkel  
 814482

FIELD TICKET & TREATMENT REPORT  
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-30-18	8596	Kriss unit 1-8	8	8S	35W	Thomas
CUSTOMER Val Energy			Lariat			
MAILING ADDRESS			2 West			
CITY			to Rd 9			
STATE			1/2 N 1/4 S			
ZIP CODE						
TRUCK #		DRIVER		TRUCK #		DRIVER
731		Cory Davis				
693		Neil White				
697		Walt Dinkel				

JOB TYPE Squeeze HOLE SIZE \_\_\_\_\_ HOLE DEPTH \_\_\_\_\_ CASING SIZE & WEIGHT \_\_\_\_\_  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER Packer 452'  
 SLURRY WEIGHT 14.2 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT 17.8 T DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 3/4 BPM @ 1500#  
 REMARKS: 3-C

Safety Meeting Rig up on location, Put 500# on backside, Took inject  
 Rate Down taking 3/4 BPM @ 1500#, mixed 50 sks com, clear Pump + Lines  
 Displaced 12 1/4 Bbl H2O, Squeeze to 3000#, reverse out clean.  
 Pull 10 Jts, Pressure to 1000#, Shut in

Thank You  
 Walt + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CC0451 ✓	1	PUMP CHARGE	1,900 <sup>00</sup>	1,900 <sup>00</sup>
CC0002 ✓	30	MILEAGE	7.5	214.50
CC0711 ✓	2.35	Ton Mileage Delivery	1.75	660 <sup>00</sup>
CC1163 ✓	1	Squeeze manifold	400 <sup>00</sup>	400 <sup>00</sup>
CC5800A ✓	50 SKS	Class A Cement	20 <sup>00</sup>	1,000 <sup>00</sup>
				4,174.50
				Less 25% DSG
				1,043.63
				3,130.88 ✓
				SALES TAX
				60.00 ✓
				ESTIMATED TOTAL
				3,190.88 ✓

SCANNED

Ravin 3737

AUTHORIZATION Rick Smith

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



REMIT TO  
 QES Pressure Pumping 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#

814439

Invoice Date: 10/30/18

Terms: Net 30

Page 1

VAL ENERGY

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

KRISS 1-8

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0471	Cement Pump Charge 301' - 500' (Coalbed/Methane)	1.000	1,150.0000	20.000	920.00
CE0002	Equipment Mileage Charge - Heavy Equipment	30.000	7.1500	20.000	171.60
CE1163	Squeeze Manifold	1.000	400.0000	20.000	320.00

Subtotal 1,764.50

Discounted Amount 352.90

SubTotal After Discount 1,411.60

Amount Due 1,764.50 If paid after 11/29/18

Tax: 0.00

Total: 1,411.60





PRESSURE PUMPING LLC  
PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

11901  
11778

TICKET NUMBER **55909**  
LOCATION Osage KS  
FOREMAN Jerry  
W/O KS  
INVOICE # **814439**

FIELD TICKET & TREATMENT REPORT  
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY																
10-2-18	8576	Kriss 1-8	8	8S	35W	Thomas																
CUSTOMER <u>Val Energy</u>			<table border="1"> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> <tr> <td>731</td> <td>Walt D</td> <td></td> <td></td> </tr> <tr> <td>683</td> <td>Gay</td> <td></td> <td></td> </tr> <tr> <td>835</td> <td>Jerry</td> <td></td> <td></td> </tr> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	731	Walt D			683	Gay			835	Jerry		
TRUCK #	DRIVER	TRUCK #					DRIVER															
731	Walt D																					
683	Gay																					
835	Jerry																					
MAILING ADDRESS <u>125 N. Market, Ste. 1110</u>																						
CITY <u>Wichita</u>	STATE <u>KS</u>	ZIP CODE <u>67202</u>																				

JERRY W/O 9 Y2N WS

JOB TYPE Squeeze HOLE SIZE \_\_\_\_\_ HOLE DEPTH \_\_\_\_\_ CASING SIZE & WEIGHT 5 1/2  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ TUBING 2 3/8 OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting on rig upon Cheyenne Well service test backside to 5000  
take inj. rate 1661 gpm @ 2500' rig down

Thom Egan  
Jerry's crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
<u>CE0471</u>	<u>1</u>	<u>PUMP CHARGE</u>	<u>1150.00</u>	<u>1150.00</u>
<u>CE0002</u>	<u>30</u>	<u>MILEAGE</u>	<u>7.15</u>	<u>214.50</u>
<u>CE1163</u>	<u>1</u>	<u>squeeze manifold</u>	<u>400.00</u>	<u>400.00</u>
			<u>sub total</u>	<u>1764.50</u>
			<u>-208</u>	<u>352.90</u>
			<u>Sub total</u>	<u>1411.60</u>
			SALES TAX	—
			ESTIMATED TOTAL	<u>1411.60</u>

Ravin 3737

AUTHORIZATION Rick Smith TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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REMIT TO  
 QES Pressure Pumping 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# 814245

Invoice Date: 09/30/18 Terms: Net 30 Page 1

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

KRISS 1-8

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0453	Cement Pump Charge 4001' - 5000'	1.000	2,800.0000	25.000	2,100.00
CE0002	Equipment Mileage Charge - Heavy Equipment	30.000	7.1500	25.000	160.88
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	25.000	495.00
CC5862	ThixoBlend III	130.000	26.0000	25.000	2,535.00
CC6077	Kolseal	650.000	0.5000	25.000	243.75
CC6125	Mud Flush, Viscous	500.000	0.6500	25.000	243.75
CP8485	5 1/2" Float Shoe, AFU	1.000	585.0000	25.000	438.75
CP8254	5 1/2" Latch Down Plug & Assembly	1.000	400.0000	25.000	300.00
CP8554	5 1/2" Centralizer	5.000	81.0000	25.000	303.75
CP8629	5 1/2" Basket	2.000	385.0000	25.000	577.50

Subtotal 9,864.50  
 Discounted Amount 2,466.13  
 SubTotal After Discount 7,398.37

Amount Due 10,359.70 If paid after 10/30/18

Tax: 371.40  
 Total: 7,769.78





PRESSURE PUMPING LLC  
PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

11723  
11403

TICKET NUMBER 55873  
LOCATION Oakley, ks  
FOREMAN Walt Dinkoff  
Terry Yates

FIELD TICKET & TREATMENT REPORT  
CEMENT **Invoice #814245**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-26-18	857B	Kriss 1-8	8	8	35	Thomas
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Val Energy			753	Cory Davis		
Levant West-to Rd 9			566	Cory Wilson		
Mailing Address			697	Walt Dinkoff		
125 N. Market, Ste. 1110			535	Terry Yates		
CITY	STATE	ZIP CODE				
Michita	KS	67202				
JOB TYPE	HOLE SIZE	HOLE DEPTH	CASING SIZE & WEIGHT			
Procl	7 7/8	4890	5 1/2 - 15.5#			
CASING DEPTH	DRILL PIPE	TUBING	OTHER			
4879'						
SLURRY WEIGHT	SLURRY VOL	WATER gal/ek	CEMENT LEFT in CASING			
14.2			40'			
DISPLACEMENT	DISPLACEMENT PSI	MIX PSI	RATE			
115-118'			5-6 Bpm			

REMARKS: Safety Meeting, rig up on well #10, circ casing on bottom  
1 hr, mix 30 SKs in RH, mix 100 SKs Thixobland, 5# Kalsol  
Pump 500 gal Mud Flush, Clear Pump + Lines release  
Plug + Displace 115 BBL H<sub>2</sub>O @ 600 #, Land Plug @ 1160 #  
Released Pressure, Float Held

Thank You  
Walt + Cory

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CC0453	1	PUMP CHARGE	2800.00	2,800.00
CC0002	30	MILEAGE	7.15	214.50
CC0711	bill	Ton Mileage Delivery	1.75	660.00
CC5862	130 SKs	Thixobland III	26.00	3380.00
CC6099	650 #	Kalsol	1.50	325.00
CC1625	500 gal	Mud Flush	0.65	325.00
CP8495	1	5 1/2 RFU Float Shoe	585.00	585.00
CP8254	1	5 1/2 - Latchdown Plug Assy	400.00	400.00
CP8554	5	5 1/2 - Centralizers	81.00	405.00
CP8629	2	5 1/2 - Baskets	325.00	770.00
				9,864.50
		Less 75% Disc		2,466.12
				7,398.38
		SALES TAX		371.40
		ESTIMATED TOTAL		7,769.78

Ravin 3737

AUTHORIZATION Rick Smith TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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REMIT TO  
 QES Pressure Pumping 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# 814135

Invoice Date: 09/19/18 Terms: Net 30 Page 1

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

KRISS UNIT 1-8

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0471	Cement Pump Charge 301' - 500' (Coalbed/Methane)	1.000	1,150.0000	25.000	862.50
CE0002	Equipment Mileage Charge - Heavy Equipment	30.000	7.1500	25.000	160.88
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	25.000	495.00
CC5871	Surface Blend II, 2% Gel/3% CaCl	200.000	24.0000	25.000	3,600.00

Subtotal 6,824.50  
 Discounted Amount 1,706.13  
 SubTotal After Discount 5,118.37

Amount Due 7,208.50 If paid after 10/19/18

Tax: 288.00  
 Total: 5,406.38



PRESSURE PUMPING LLC  
PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

11598  
11485

TICKET NUMBER 55866  
LOCATION Oakley Ks  
FOREMAN Jerry J

FIELD TICKET & TREATMENT REPORT  
CEMENT

Invoice # 814135 / KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
9-17-18	8576	Kriss Unit 1-8	8	8S	35W	Thomas	
CUSTOMER <u>Val Energy</u>		Levant W to 9 1/4 N W 3/4 S		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>125 N. Market, Ste. 1110</u>				<u>731</u>	<u>Cory D</u>		
CITY <u>Wichita</u>		STATE <u>KS</u>	ZIP CODE <u>67202</u>	<del>535</del>	<u>Jerry J</u>		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 299 CASING SIZE & WEIGHT 8 7/8 24#  
CASING DEPTH 299 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
SLURRY WEIGHT 14.8 SLURRY VOL 1.24 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 20'  
DISPLACEMENT 17 3/4 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting & rig up on 6610 circulate casing mix 200 sks  
com 30 cc 10 gal wash up + displace with 17 3/4 bbl fresh water + shut in  
1 bbl top it

cement did  
circulate

Thank you

Jerry + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
<u>CE0471</u>	<u>1</u>	<u>PUMP CHARGE</u>	<u>1150.00</u>	<u>1150.00</u>
<u>CE0002</u>	<u>30</u>	<u>MILEAGE</u>	<u>7.15</u>	<u>214.50</u>
<u>CE0711</u>	<u>9.4</u>	<u>van mileage delivery</u>	<u>660.00</u>	<u>660.00</u>
<u>CC5871</u>	<u>200 sks</u>	<u>sur face blend II</u>	<u>24.00</u>	<u>4800.00</u>
			<u>subtotal</u>	<u>6824.50</u>
			<u>-258</u>	<u>1706.13</u>
			<u>subtotal</u>	<u>518.38</u>
			SALES TAX	<u>288.00</u>
			ESTIMATED TOTAL	<u>5406.38</u>

SCANNED

Ravin 3737

AUTHORIZATION [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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

COMPANY: **KAL ENERGY, INC.**  
 LEASE: **Kalis Unit #1-8**  
 FIELD: **Wildcat**  
 LOCATION: **2157 F&L 1667 FEL**  
 SEC: **8 T1MSP 8S** ROE: **35W**  
 COUNTY: **Thomas** STATE: **Kansas**

CONTRACTOR: **WW Drilling, Rig #10**  
 SPUD: **9-17-18** COMP: **9-26-18**  
 RTD: **4890'** LTD: **4891'**  
 MUD UP: **3600'** TYPE MUD: **Chemical**

SAMPLES SAVED FROM: **3900'** to RTD  
 DRILLING TIME KEPT FROM: **3900'** to RTD  
 SAMPLES EXAMINED FROM: **3900'** to RTD  
 GEOLOGICAL SUPERVISION FROM: **4100'** to RTD  
 GEOLOGIST ON WELL: **Tim Priest**

FORMATION TOPS: **ELECTRIC LOG** SAMPLE: \_\_\_\_\_  
 Anyvrite: **2882 (+451)** 2882 (+451)  
 Heebner Shale: **4141 (-809)** 4142 (-809)  
 Heebner Shale: **4185 (-852)** 4184 (-851)  
 Stark: **4394 (-1061)** 4394 (-1061)  
 Marmaton: **4479 (-1146)** 4479 (-1146)  
 Fort Scott: **4629 (-1296)** 4628 (-1295)  
 Cherokee Shale: **4663 (-1330)** 4663 (-1330)  
 Mississippian: **4813 (-1480)** 4812 (-1479)

EL EVATIONS: **KG 3333'**  
 DF: \_\_\_\_\_  
 GL: **3328'**

Measurements Are All From: **KB**  
 CASING: \_\_\_\_\_  
 CONDUCTION: **N/A**  
 SURFACE: **8-5/8" @ 299'**  
 PRODUCTION: **5-1/2" @ 487'**

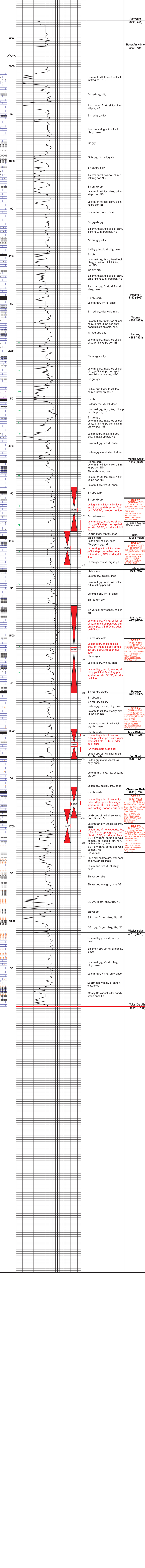
SAMPLES EXAMINED FROM: **3900'** to RTD  
 DRILLING TIME KEPT FROM: **3900'** to RTD  
 SAMPLES EXAMINED FROM: **3900'** to RTD  
 GEOLOGICAL SUPERVISION FROM: **4100'** to RTD  
 GEOLOGIST ON WELL: **Tim Priest**

ELECTRIC LOG SAMPLES  
 CND: D/SP: P/E  
 Micro

REMARKS: Due to the results of DSTs, it was decided to run production casing to further test the well.

Respectfully Submitted,  
 Tim Priest  
 Petroleum Geologist

API #15-193-21030-00-00





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

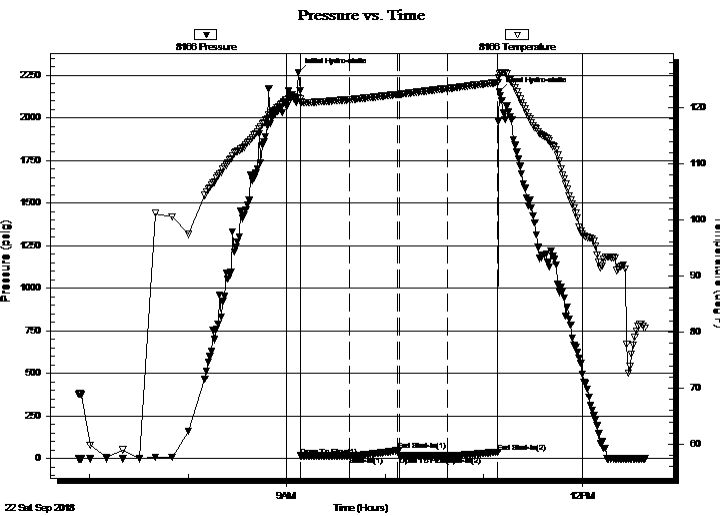
**8-8-35 Thomas Ks**  
**Kriss Unit 1-8**  
Job Ticket: 63924      **DST#: 1**  
Test Start: 2018.09.22 @ 06:53:04

## GENERAL INFORMATION:

Formation: **I-J**  
Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Initial)**  
Time Tool Opened: **09:08:34** Tester: **Brandon Turley**  
Time Test Ended: **12:38:04** Unit No: **79**  
**Interval: 4343.00 ft (KB) To 4390.00 ft (KB) (TVD)** Reference Elevations: **3333.00 ft (KB)**  
Total Depth: **4390.00 ft (KB) (TVD)** **3328.00 ft (CF)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good** KB to GR/CF: **5.00 ft**

**Serial #: 8166**      **Outside**  
Press@RunDepth: **14.86 psig @ 4348.00 ft (KB)** Capacity: **8000.00 psig**  
Start Date: **2018.09.22** End Date: **2018.09.22** Last Calib.: **2018.09.22**  
Start Time: **06:53:09** End Time: **12:38:03** Time On Btm: **2018.09.22 @ 09:07:04**  
Time Off Btm: **2018.09.22 @ 11:09:34**

TEST COMMENT: IF: 1/4 blow built to 3/4.  
IS: No return.  
FF: No blow.  
FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2266.31	121.71	Initial Hydro-static
2	15.01	121.03	Open To Flow (1)
31	15.62	121.43	Shut-In(1)
61	46.63	122.37	End Shut-In(1)
62	15.63	122.38	Open To Flow (2)
91	14.86	123.40	Shut-In(2)
122	37.78	124.48	End Shut-In(2)
123	2153.27	126.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

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

**8-8-35 Thomas Ks**  
**Kriss Unit 1-8**  
Job Ticket: 63924      **DST#: 1**  
Test Start: 2018.09.22 @ 06:53:04

### 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: 68.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.40 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 3000.00 ppm		
Filter Cake: 1.00 inches		

### Recovery Information

Recovery Table

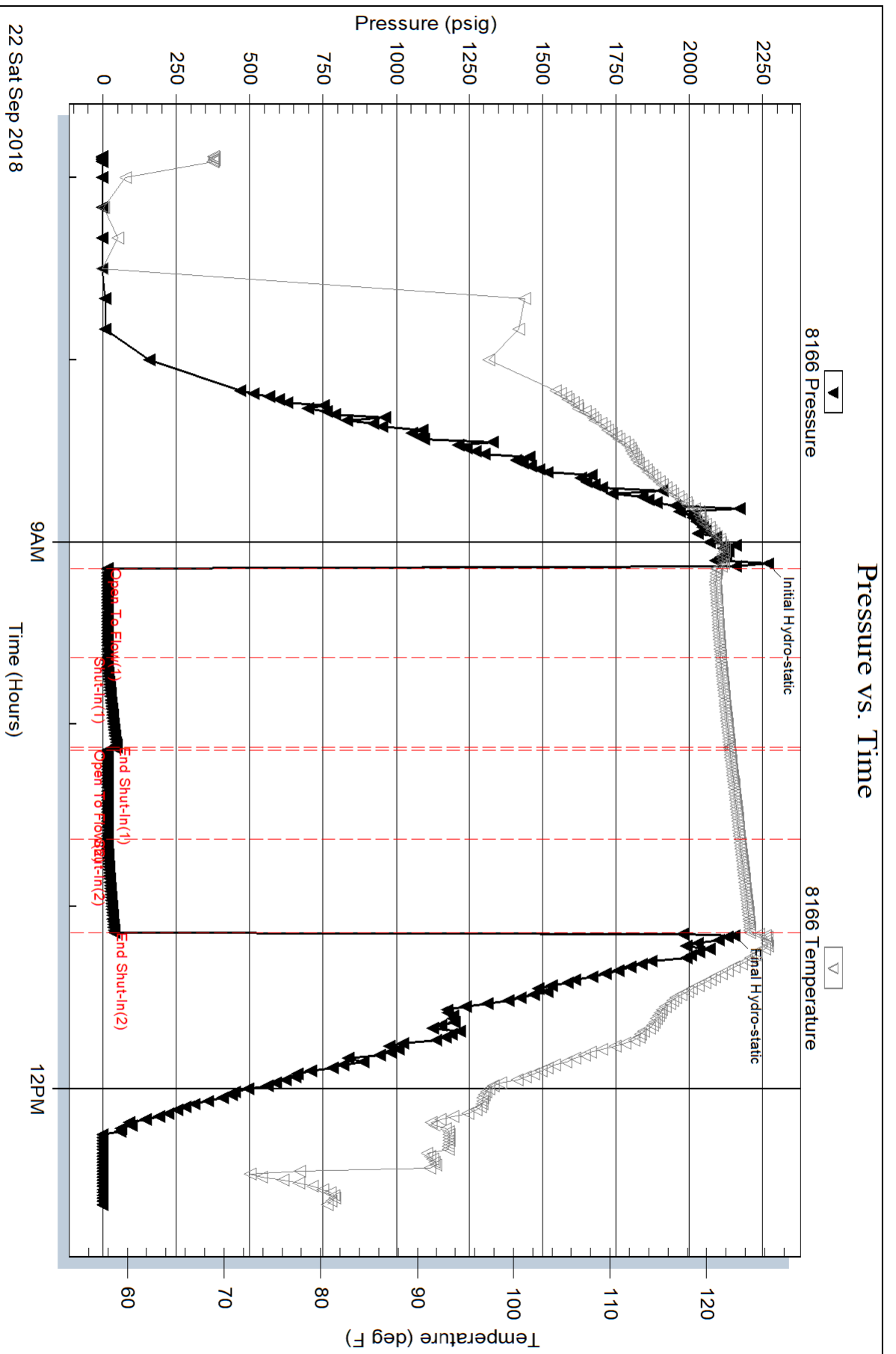
Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

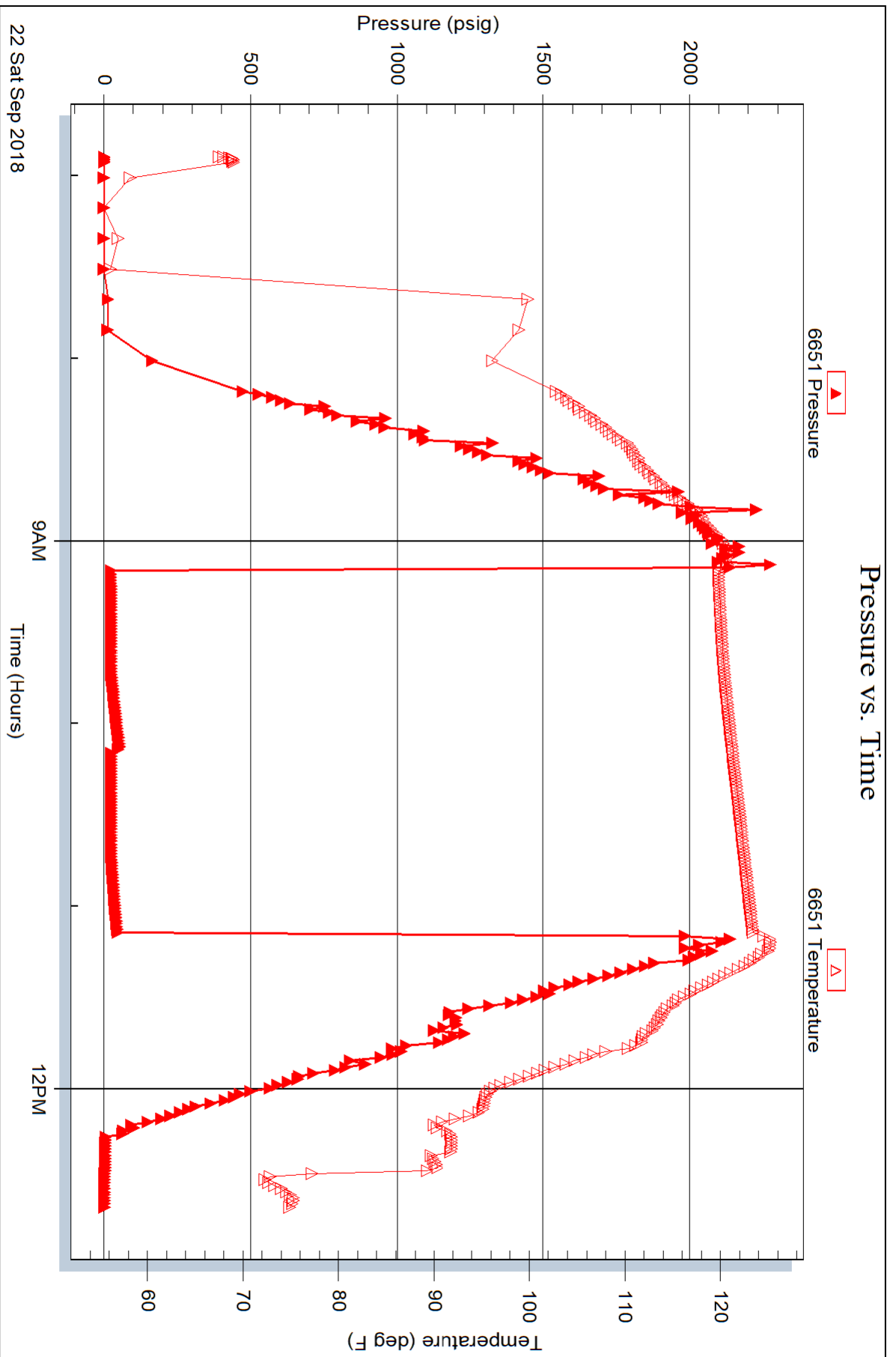
Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:









**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

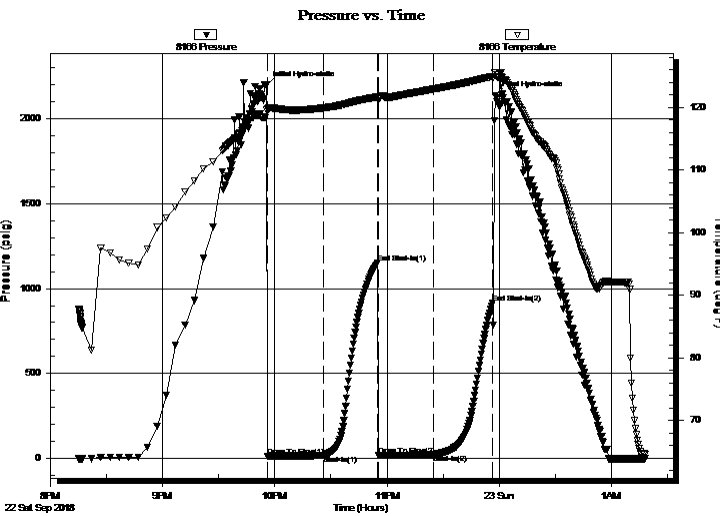
**8-8-35 Thomas Ks**  
**Kriss Unit 1-8**  
 Job Ticket: 63925 **DST#: 2**  
 Test Start: 2018.09.22 @ 20:14:53

## GENERAL INFORMATION:

Formation: **K**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:55:53  
 Time Test Ended: 01:17:53  
 Interval: **4389.00 ft (KB) To 4425.00 ft (KB) (TVD)**  
 Total Depth: 4425.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 3333.00 ft (KB)  
 3328.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8166 Outside**  
 Press@RunDepth: 21.37 psig @ 4394.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.09.22 End Date: 2018.09.23 Last Calib.: 2018.09.23  
 Start Time: 20:14:58 End Time: 01:17:52 Time On Btm: 2018.09.22 @ 21:55:23  
 Time Off Btm: 2018.09.22 @ 23:57:53

**TEST COMMENT:** IF: 1/4 blow built to 1 1/4  
 IS: No return.  
 FF: Surface blow built to 1/4  
 FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2196.77	119.54	Initial Hydro-static
1	14.14	119.33	Open To Flow (1)
31	18.04	119.88	Shut-In(1)
60	1148.77	121.65	End Shut-In(1)
60	19.04	121.27	Open To Flow (2)
90	21.37	122.89	Shut-In(2)
121	916.33	124.89	End Shut-In(2)
123	2134.77	125.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud oil spots 100%m	0.05

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

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

**8-8-35 Thomas Ks**  
**Kriss Unit 1-8**  
Job Ticket: 63925      **DST#: 2**  
Test Start: 2018.09.22 @ 20:14:53

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

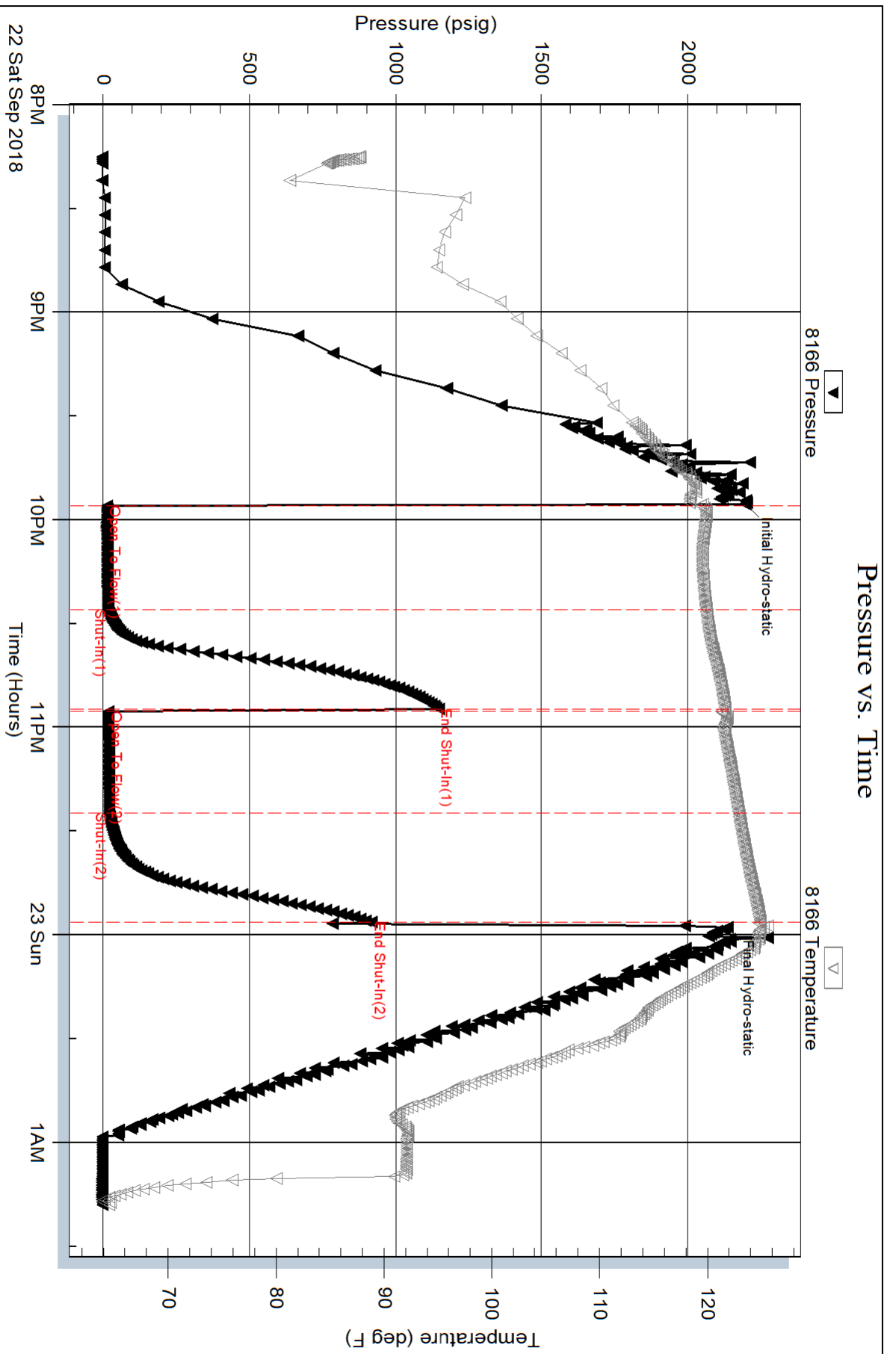
Length ft	Description	Volume bbl
10.00	mud oil spots 100%m	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

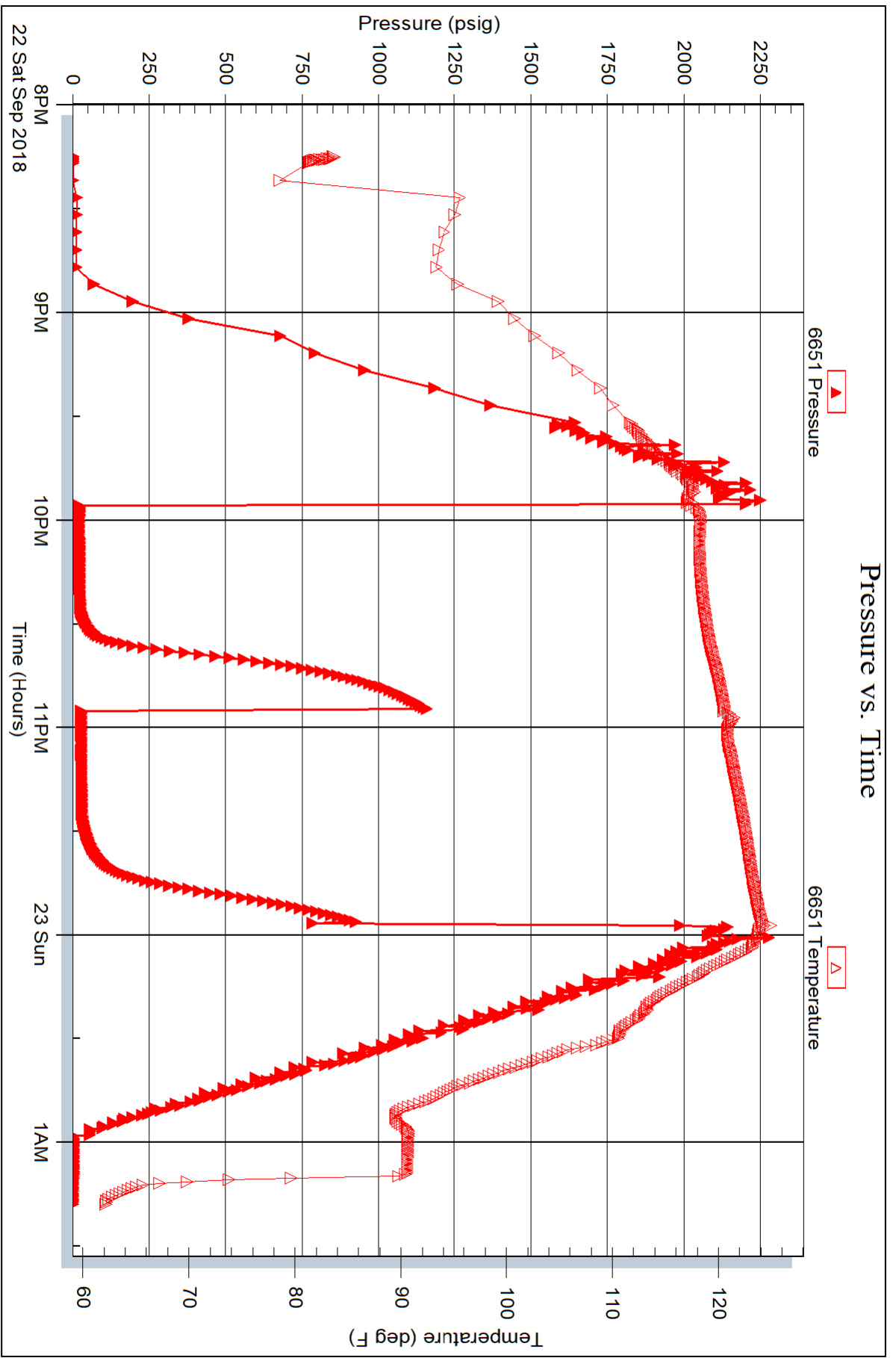
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:









**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

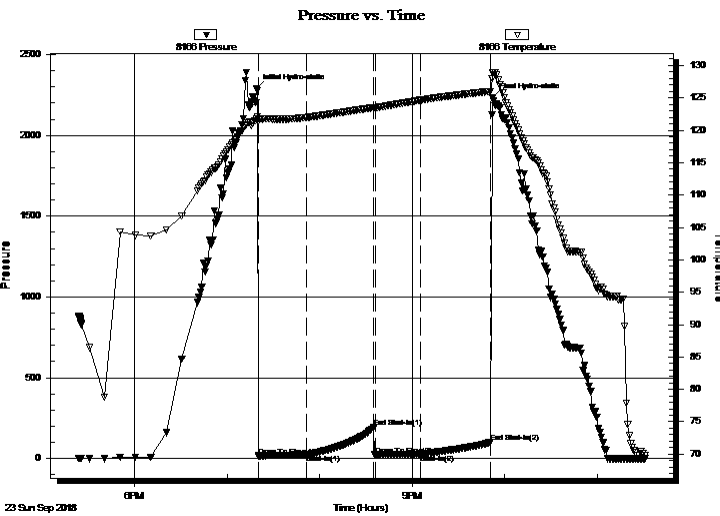
**8-8-35 Thomas Ks**  
**Kriss Unit 1-8**  
 Job Ticket: 64251 **DST#: 3**  
 Test Start: 2018.09.23 @ 17:23:48

## GENERAL INFORMATION:

Formation: **Marmaton A-C**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:20:18  
 Time Test Ended: 23:30:48  
 Interval: **4468.00 ft (KB) To 4560.00 ft (KB) (TVD)**  
 Total Depth: 4560.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 3333.00 ft (KB)  
 3328.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8166 Outside**  
 Press@RunDepth: 27.65 psig @ 4473.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.09.23 End Date: 2018.09.23 Last Calib.: 2018.09.23  
 Start Time: 17:23:53 End Time: 23:30:47 Time On Btm: 2018.09.23 @ 19:19:18  
 Time Off Btm: 2018.09.23 @ 21:52:18

**TEST COMMENT:** IF: 1/4 blow built to 1 1/4.  
 IS: No return.  
 FF: Surface blow built to 1.  
 FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2286.19	121.75	Initial Hydro-static
1	15.78	121.32	Open To Flow (1)
32	24.40	121.97	Shut-In(1)
76	195.35	123.50	End Shut-In(1)
77	23.37	123.51	Open To Flow (2)
106	27.65	124.64	Shut-In(2)
152	99.12	126.00	End Shut-In(2)
153	2231.05	128.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	ocm 20%o 80%m	0.10

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

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

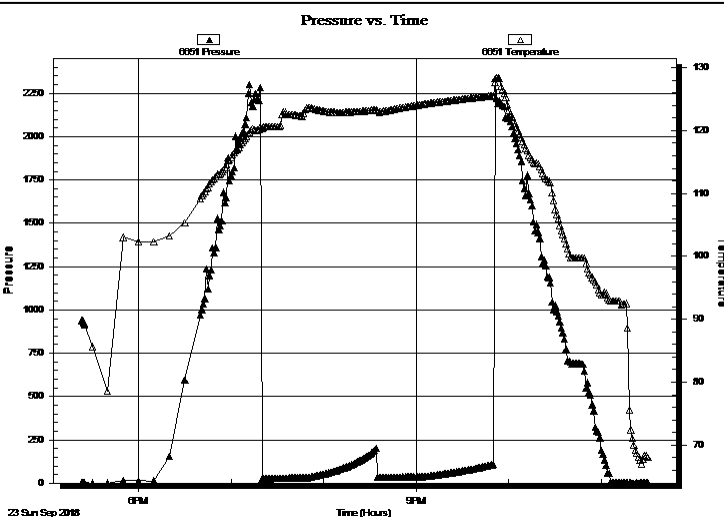
**8-8-35 Thomas Ks**  
**Kriss Unit 1-8**  
Job Ticket: 64251      **DST#: 3**  
Test Start: 2018.09.23 @ 17:23:48

### GENERAL INFORMATION:

Formation: **Marmaton A-C**  
Deviated: No      Whipstock:                      ft (KB)  
Time Tool Opened: 19:20:18  
Time Test Ended: 23:30:48  
Interval: **4468.00 ft (KB) To 4560.00 ft (KB) (TVD)**  
Total Depth: 4560.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Brandon Turley  
Unit No: 79  
Reference Elevations: 3333.00 ft (KB)  
3328.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 6651**      **Inside**  
Press@RunDepth:                      psig @ 4473.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2018.09.23      End Date: 2018.09.23      Last Calib.: 2018.09.23  
Start Time: 17:23:13      End Time: 23:30:07      Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IF: 1/4 blow built to 1 1/4.  
IS: No return.  
FF: Surface blow built to 1.  
FS: No return.



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
20.00	ocm 20%o 80%m	0.10

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**8-8-35 Thomas Ks**  
**Kriss Unit 1-8**  
Job Ticket: 64251      **DST#: 3**  
Test Start: 2018.09.23 @ 17:23:48

## 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:	73.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	7.20 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5000.00 ppm				
Filter Cake:	1.00 inches				

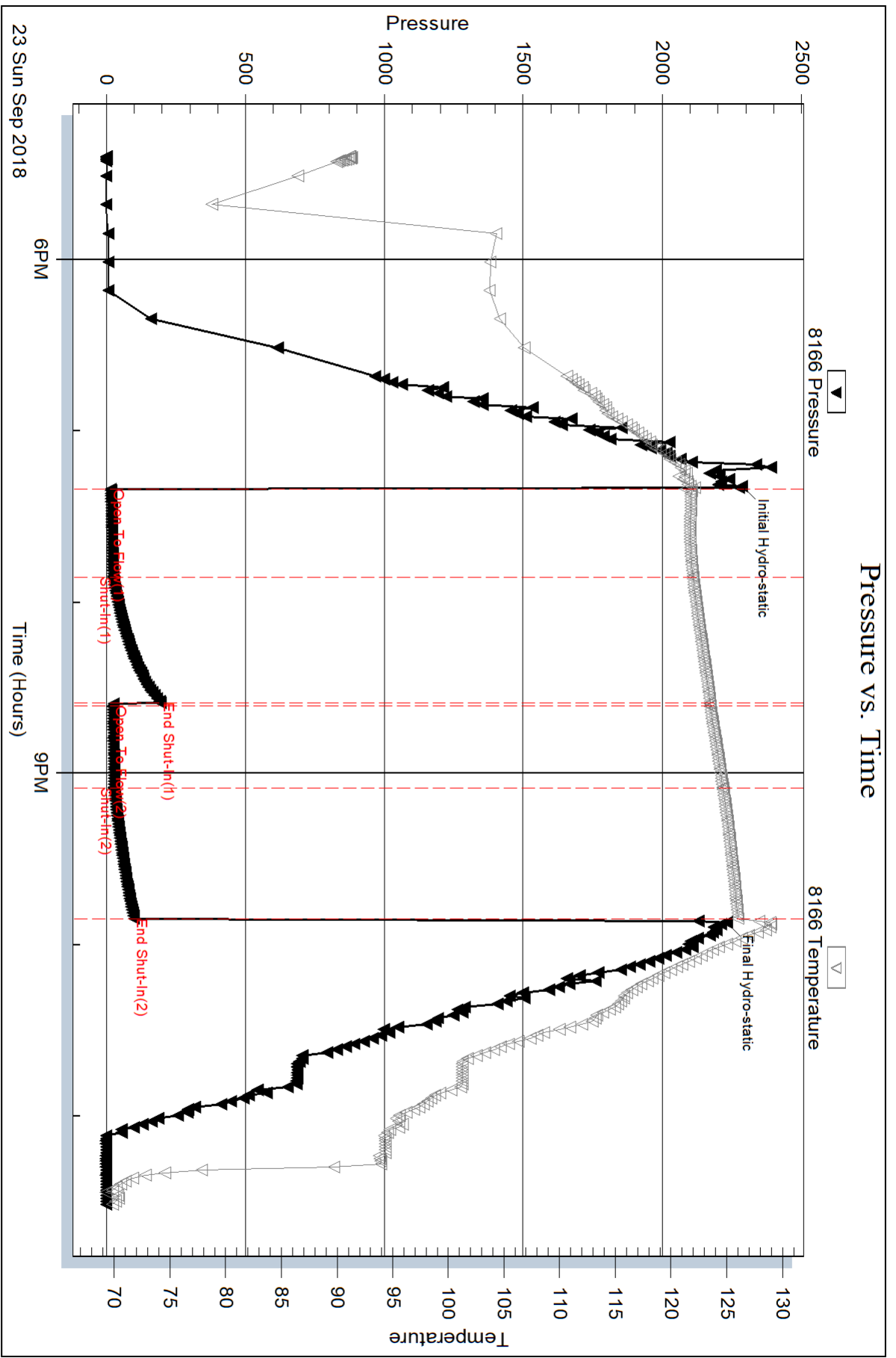
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	ocm 20%o 80%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:





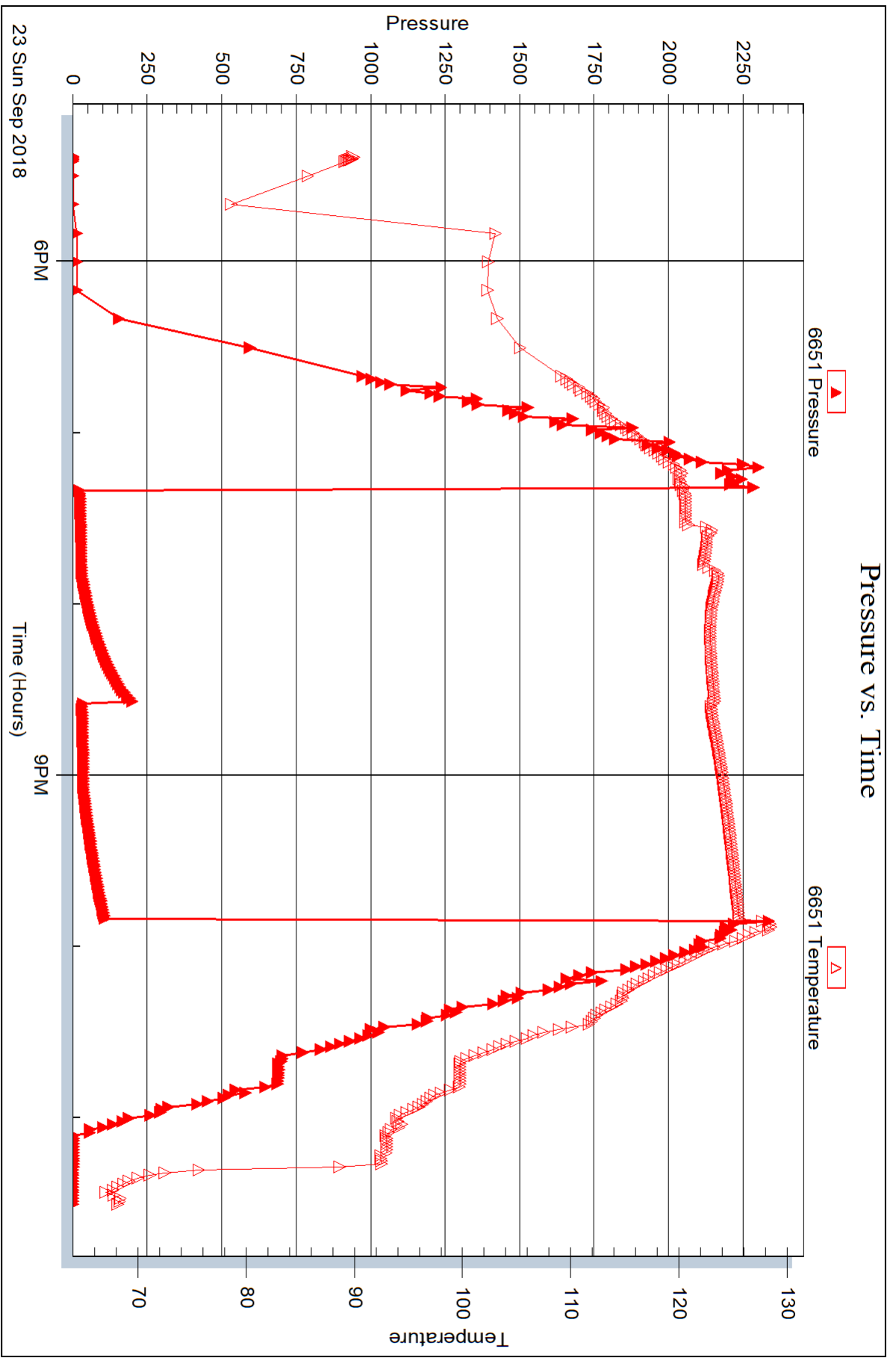
Serial #: 6651

Inside

Val Energy Inc

Kriss Unit 1-8

DST Test Number: 3





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

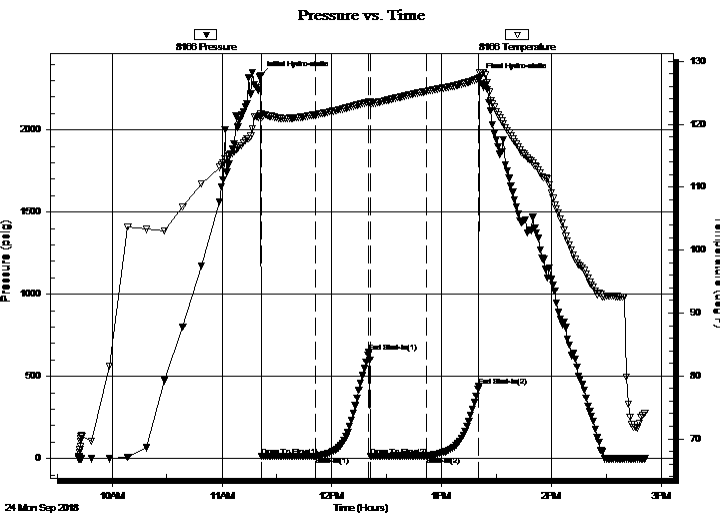
**8-8-35 Thomas Ks**  
**Kriss Unit 1-8**  
 Job Ticket: 64252      **DST#: 4**  
 Test Start: 2018.09.24 @ 09:41:42

## GENERAL INFORMATION:

Formation: **Myric Station**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:21:42  
 Time Test Ended: 14:51:12  
**Interval: 4598.00 ft (KB) To 4630.00 ft (KB) (TVD)**  
 Total Depth: 4630.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 3333.00 ft (KB)  
 3328.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8166      Outside**  
 Press@RunDepth: 16.55 psig @ 4603.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2018.09.24      End Date: 2018.09.24      Last Calib.: 2018.09.24  
 Start Time: 09:41:47      End Time: 14:51:11      Time On Btm: 2018.09.24 @ 11:21:12  
 Time Off Btm: 2018.09.24 @ 13:20:42

**TEST COMMENT:** IF: Surface blow built to 1.  
 IS: No return.  
 FF: No blow.  
 FS: No retrun



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2328.33	121.59	Initial Hydro-static
1	13.91	121.07	Open To Flow (1)
30	14.97	121.51	Shut-In(1)
59	646.51	123.51	End Shut-In(1)
60	15.15	123.33	Open To Flow (2)
91	16.55	125.24	Shut-In(2)
119	441.95	127.23	End Shut-In(2)
120	2315.44	128.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud oil spots 100%m	0.02

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

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

**8-8-35 Thomas Ks**  
**Kriss Unit 1-8**  
Job Ticket: 64252      **DST#: 4**  
Test Start: 2018.09.24 @ 09:41:42

### 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: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5500.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud oil spots 100%m	0.025

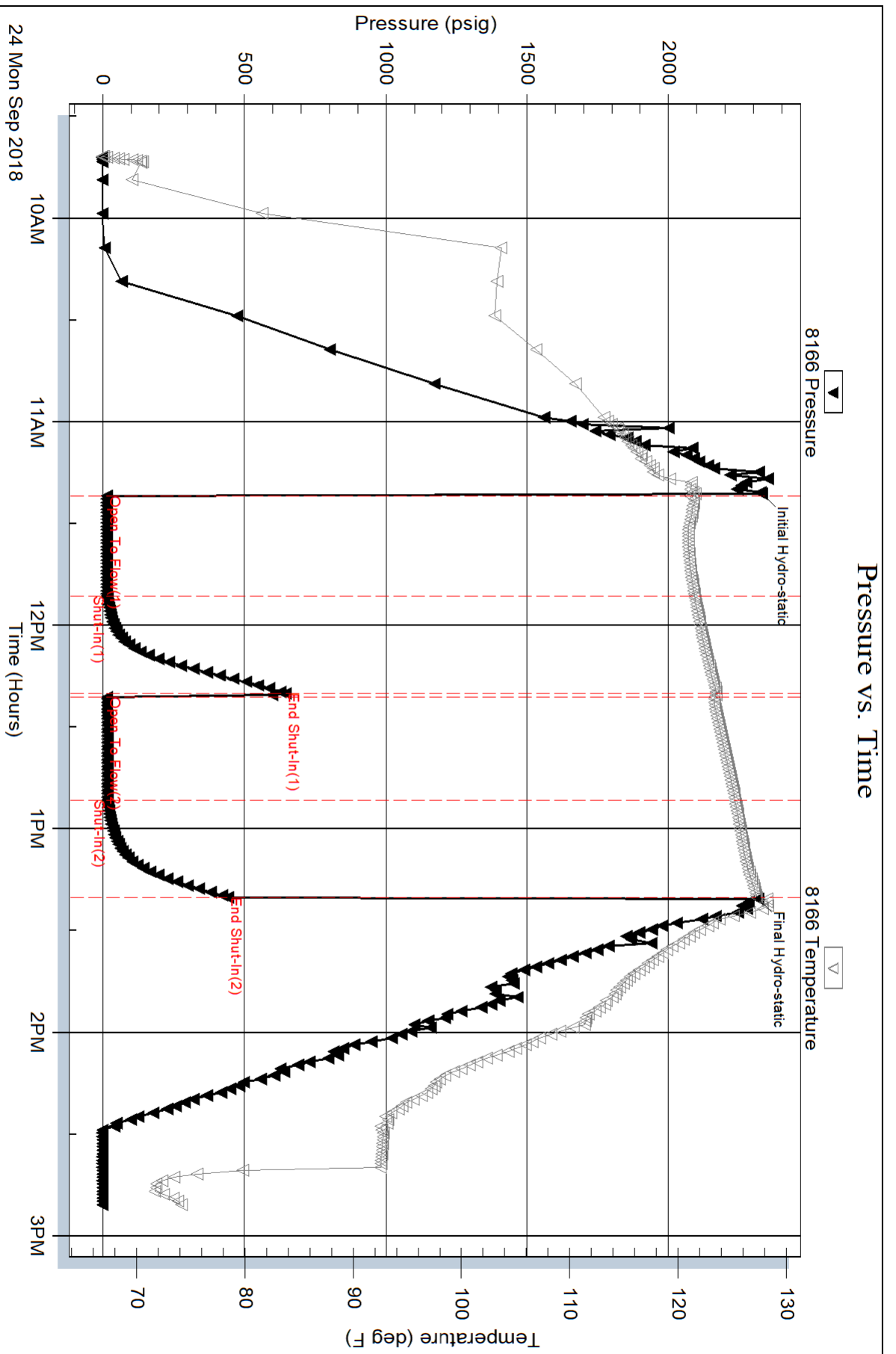
Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:





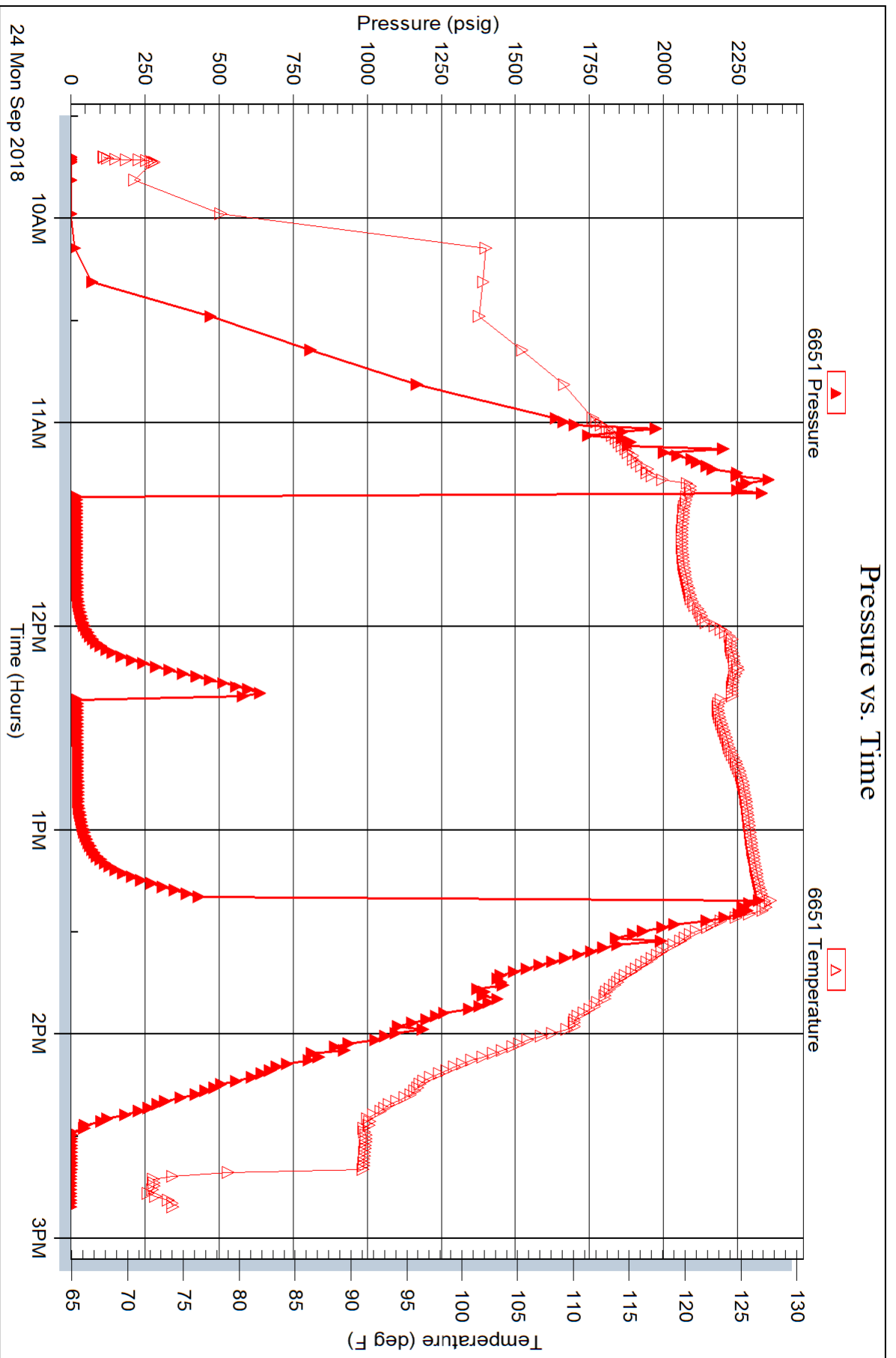
Serial #: 6651

Inside

Val Energy Inc

Kriss Unit 1-8

DST Test Number: 4





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**8-8-35 Thomas Ks**  
**Kriss Unit 1-8**  
 Job Ticket: 64253      **DST#: 5**  
 Test Start: 2018.09.25 @ 00:22:18

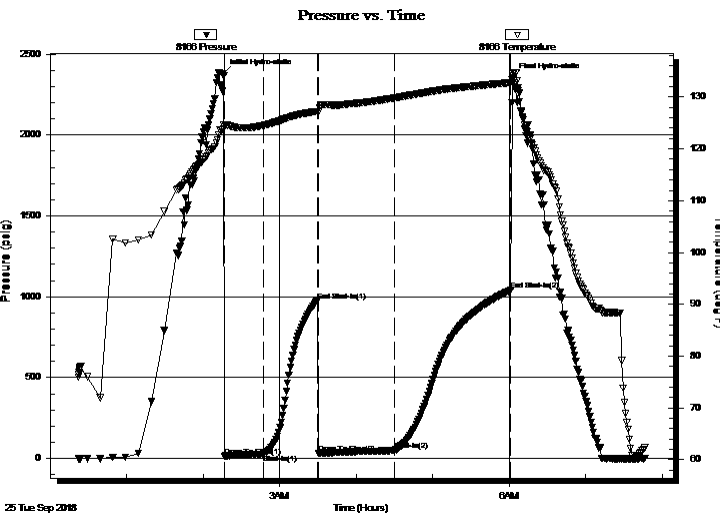
## GENERAL INFORMATION:

Formation: **Cherokee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:16:48  
 Time Test Ended: 07:46:48  
 Interval: **4659.00 ft (KB) To 4692.00 ft (KB) (TVD)**  
 Total Depth: 4692.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 3333.00 ft (KB)  
 3328.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8166 Outside

Press@RunDepth: 49.70 psig @ 4664.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2018.09.25      End Date: 2018.09.25      Last Calib.: 2018.09.25  
 Start Time: 00:22:23      End Time: 07:46:47      Time On Btm: 2018.09.25 @ 02:15:48  
 Time Off Btm: 2018.09.25 @ 06:02:48

TEST COMMENT: IF: 1/4 blow built to 6 1/4.  
 IS: Surface blow built to 1/2.  
 FF: 1/2 blow built to 8.  
 FS: Surface blow built to 1/2 died in 35 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2378.53	123.79	Initial Hydro-static
1	15.43	124.30	Open To Flow (1)
32	26.80	124.51	Shut-In(1)
74	974.21	127.24	End Shut-In(1)
75	32.59	127.07	Open To Flow (2)
135	49.70	129.82	Shut-In(2)
226	1040.82	132.78	End Shut-In(2)
227	2352.65	134.53	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	gocm 10%g 40%o 50%m	0.30
30.00	go 10%g 90%o	0.15
0.00	156 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**8-8-35 Thomas Ks**  
**Kriss Unit 1-8**  
Job Ticket: 64253      **DST#: 5**  
Test Start: 2018.09.25 @ 00:22:18

## Mud and Cushion Information

Mud Type: Invert	Cushion Type:	Oil API:	30 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5500.00 ppm			
Filter Cake: 1.00 inches			

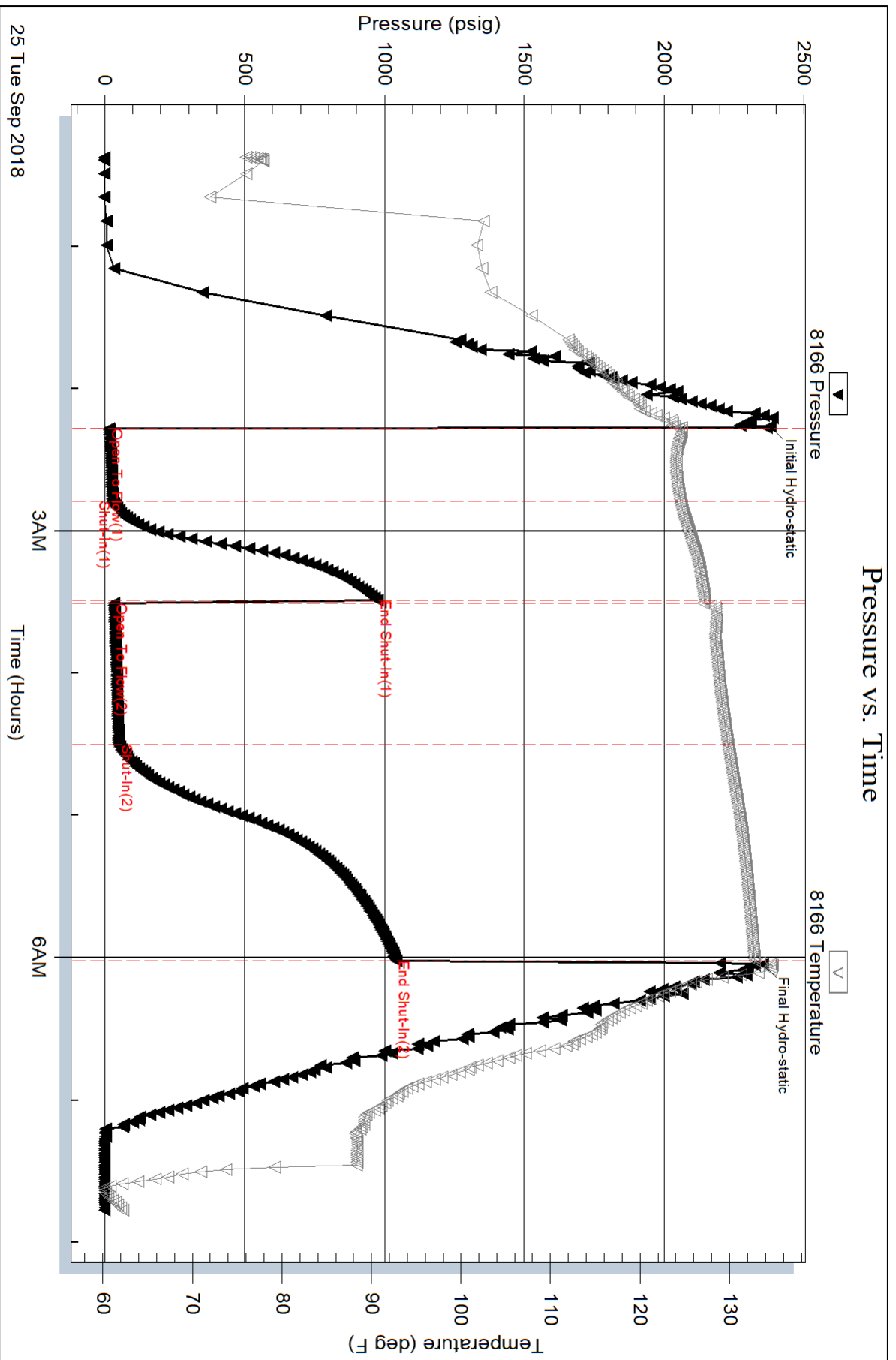
## Recovery Information

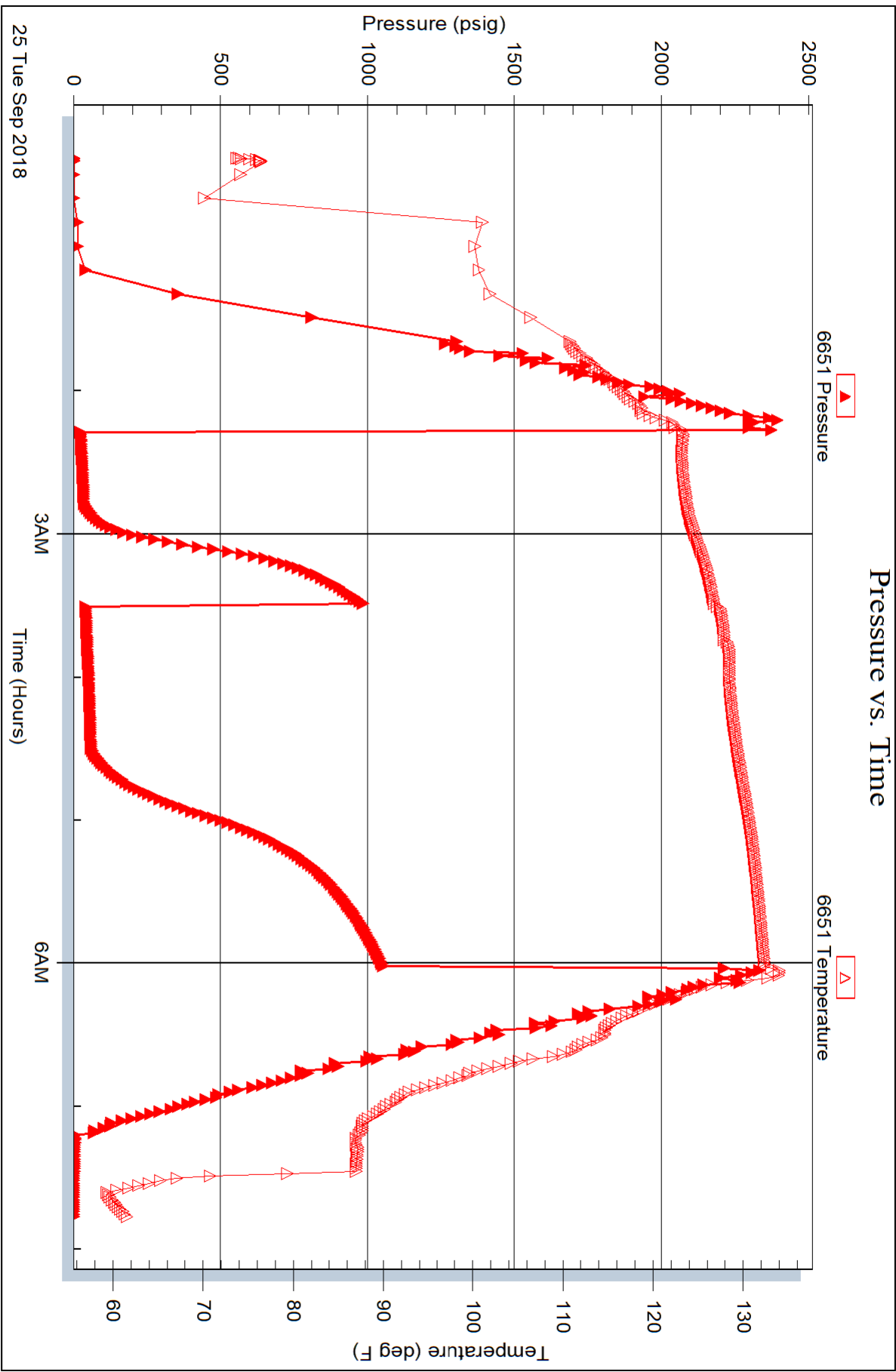
Recovery Table

Length ft	Description	Volume bbl
60.00	gocm 10%g 40%o 50%m	0.295
30.00	go 10%g 90%o	0.148
0.00	156 GIP	0.000

Total Length: 90.00 ft      Total Volume: 0.443 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: 30@60=30









**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

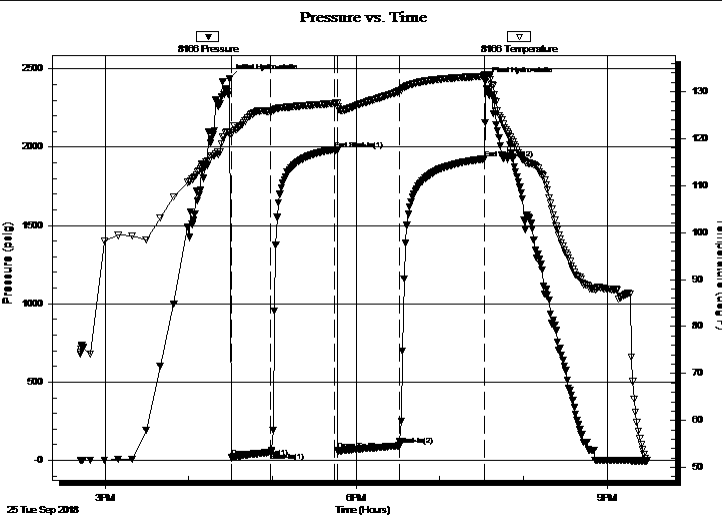
**8-8-35 Thomas Ks**  
**Kriss Unit 1-8**  
Job Ticket: 64254      **DST#: 6**  
Test Start: 2018.09.25 @ 14:42:22

## GENERAL INFORMATION:

Formation: **Johnson**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 16:30:22  
Time Test Ended: 21:28:52  
Interval: **4682.00 ft (KB) To 4718.00 ft (KB) (TVD)**  
Total Depth: 4718.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Brandon Turley  
Unit No: 79  
Reference Elevations: 3333.00 ft (KB)  
3328.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8166      Outside**  
Press@RunDepth: 93.31 psig @ 4687.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2018.09.25      End Date: 2018.09.25      Last Calib.: 2018.09.25  
Start Time: 14:42:27      End Time: 21:28:51      Time On Btm: 2018.09.25 @ 16:29:22  
Time Off Btm: 2018.09.25 @ 19:32:52

TEST COMMENT: IF: 1/4 blow built to 7.  
IS: No return.  
FF: 1/4 blow built to 7 1/4.  
FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2435.02	121.28	Initial Hydro-static
1	17.48	120.80	Open To Flow (1)
30	52.94	125.82	Shut-In(1)
75	1986.17	127.54	End Shut-In(1)
78	61.46	126.70	Open To Flow (2)
122	93.31	130.12	Shut-In(2)
183	1926.50	133.31	End Shut-In(2)
184	2419.46	133.08	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	gocm 10%g 40%o 50%m	0.31
204.00	go 10%g 90%o	2.34

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**8-8-35 Thomas Ks**  
**Kriss Unit 1-8**  
Job Ticket: 64254      **DST#: 6**  
Test Start: 2018.09.25 @ 14:42:22

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 20 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: 8.79 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 6000.00 ppm		
Filter Cake: 1.00 inches		

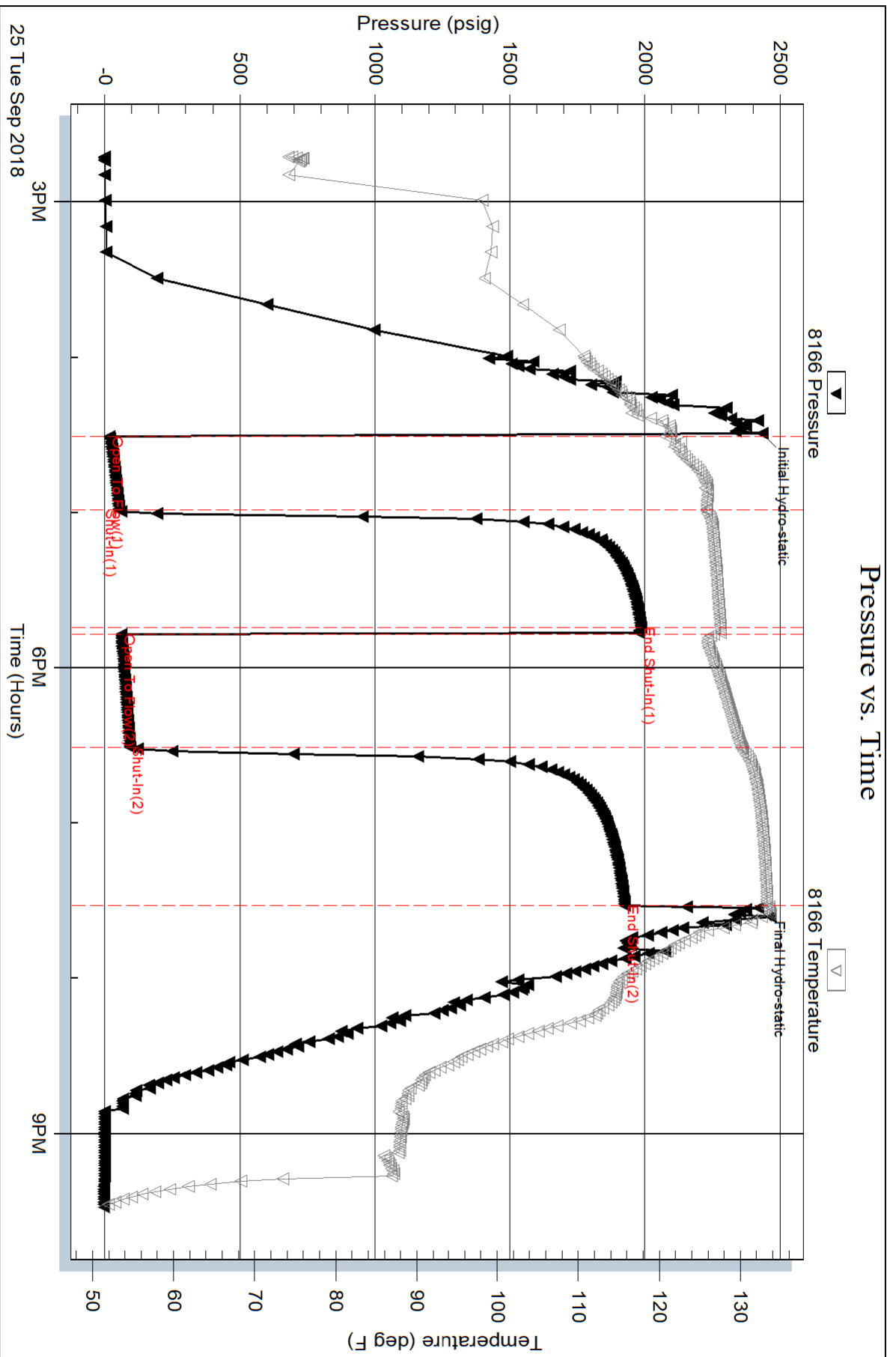
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	gocm 10%g 40%o 50%m	0.310
204.00	go 10%g 90%o	2.342

Total Length: 267.00 ft      Total Volume: 2.652 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: 20@60=20





Serial #: 6651

Inside

Val Energy Inc

Kriss Unit 1-8

DST Test Number: 6

