

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1004409	1718	05/13/2019
INVOICE NUMBER			
92968813			

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 FLYING S 1-10
 O LOCATION
 B COUNTY THOMAS
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.		TERMS	DUE DATE
41174764	19570			Net - 30 days	06/12/2019
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 05/10/2019 to 05/10/2019</i>					
0041174764					
171819457L Cement-New Well Casing/Pi 05/10/2019 CEMENT SURFACE CASING					
50/50 Poz		150.00	SK	4.95	742.50 T
A-Con Blend		430.00	EA	8.37	3,599.10 T
810 LBS Calcium Chloride		1.00	LB	380.70	380.70 T
102 LBS Celloflake		1.00	LB	170.34	170.34 T
741 LBS Salt		1.00	LB	170.43	170.43 T
671 LBS Giisonite		1.00	LB	201.30	201.30 T
630 LBS Gypsum		1.00	LB	214.20	214.20 T
C-17		63.00	LB	9.00	567.00 T
C-41P		32.00	LB	1.80	57.60 T
Auto Fill Float Shoe 5 1/2" (Blue)		1.00	EA	162.00	162.00
Two Stage Cement Collar, 5 1/2" (Blue)		1.00	EA	2,025.00	2,025.00
5 1/2" Basket (Blue)		2.00	EA	130.50	261.00
Turbolizer, 5 1/2" (Blue)		6.00	EA	49.50	297.00
Depth Charge, 4001'-5000'		1.00	HR	1,134.00	1,134.00
Additional Stage Charge		1.00	HR	972.00	972.00
100 Light Vehicle Mileage		1.00	MI	203.00	203.00
300 Heavy Equipment Mileage		1.00	MI	1,014.00	1,014.00
Proppant and Bulk Delivery Charges		1.00	MI	3,000.15	3,000.15
Blending & Mixing Service Charge		580.00	SK	0.63	365.40
Plug Container Utilization Charge		1.00	EA	112.50	112.50
Cement Data Acquisition Monitor Strip		1.00	EA	247.50	247.50
Service Supervisor Charge		1.00	EA	75.00	75.00
Driver Charge		3.00	EA	35.00	105.00

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	16,076.72
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	488.25
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	16,564.97
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



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

PRESSURE PUMPING Job Log

Customer:	Val Energy, INC	Cement Pump No.:	38119-19570 13 HRS	Operator TRK No.:	96815
Address:	125 N Market	Ticket #:	1718-19457 L	Bulk TRK No.:	30463-19578 27808-19883
City, State, Zip:	Wichita Ks 67202	Job Type:	Z-42 Cement Surface Casing		
Service District:		Well Type:	OIL		
Well Name and No.:	Flying S # 1-10	Well Location:	10-08S-35W	County:	Thomas State: Kansas

Type of Cmt	Sacks	Additives	Truck Loaded On		
50/50 POZ	150	2%GEL, 10%SALT, 5%GYPSUM, .5%FLUID LOSS, 1/4#DEFOAMER, 5#GILSONITE	30463-19578	Front	Back
A-CON BLEND	430	2%CaCl, 1/4#POLYFLAKE	27808-19883	Front	Back
				Front	Back

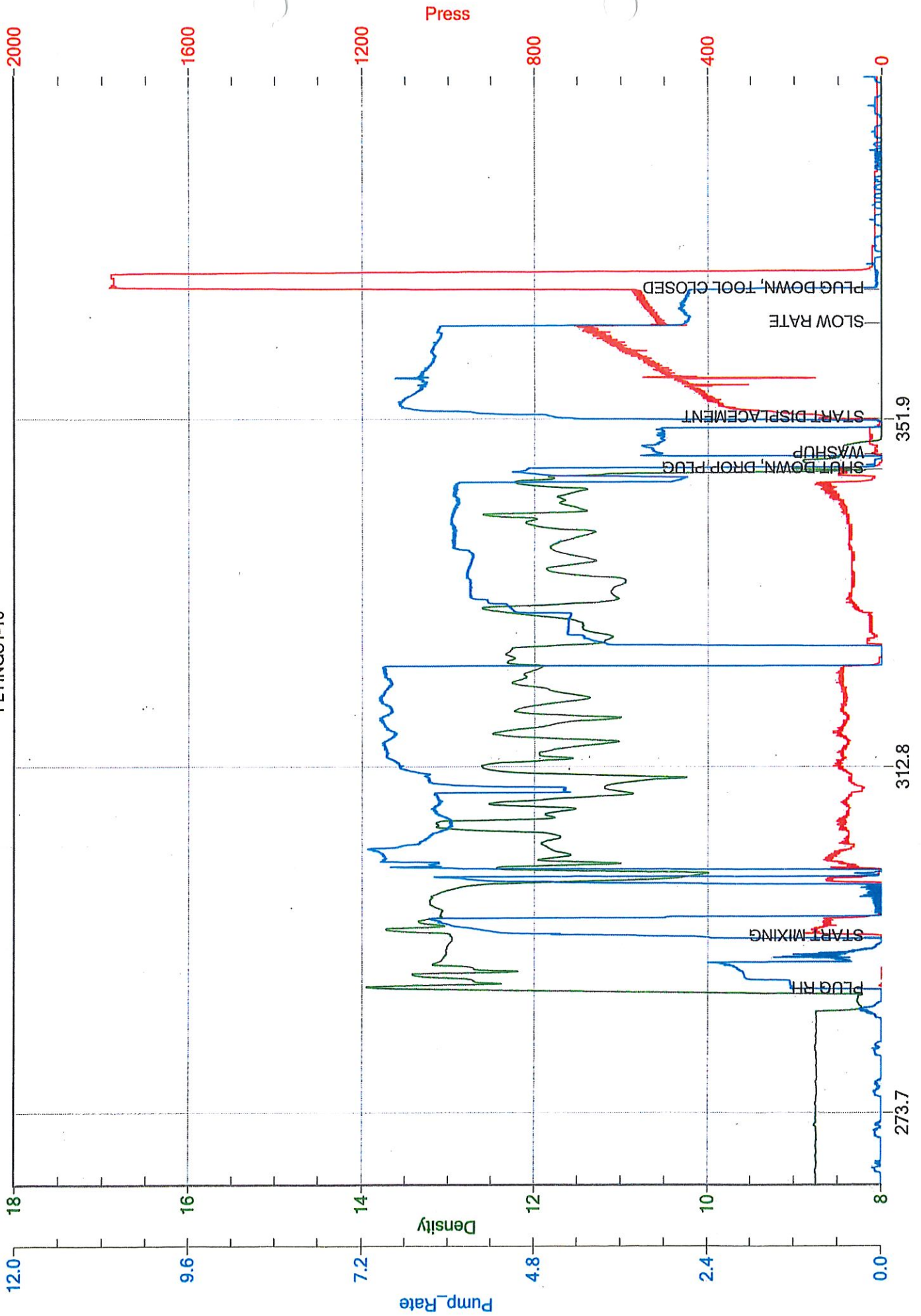
Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	13.8	1.49	6.53	223.5	Man Hours:	72
Tail:	11.8	2.59	15.48	1113.7	# of Men on Job:	4

Time (am/pm)	(BPM)	Volume (BBLS)	Pumps		Pressure(Psi)		Description of Operation and Materials
			T	C	Tubing	Casing	
6:00							ON LOC, SAFTEY MTG, R.U.
13:33						3000	TEST LINES
1:42 PM	3.7					80	PUMP SUPERFLUSH
1:46 PM	3.7	12				80	H2O SPACER
1:46 PM	6.5	5				120	START MIXING 50/50 @13.8#
13:58		39					SHUT DOWN, DROP PLUG, WASHUP
14:03	6.7					80	START DISPLACEMENT
2:12 PM	6.7	45				110	ON MUD
14:25	3	105				400	SLOW RATE
14:28		115				400-1120	PLUG DOWN
14:30							DROP BOMB
14:50	3	10				800-100	OPEN TOOL
15:00							CIRC W/ RIG
17:22							PLUG RH
17:28	6					140	START MIXING A-CON@ 11.8#
18:21		185					SHUT DOWN, DROP CLOSING PLUG, WASHUP
18:26	7					80	START DISPLACEMENT
18:37	2.7	60				520	SLOW RATE
18:41		70				600-1740	PLUG DOWN, CLOSED TOOL
18:44							RELEASE PSI
							JOB COMPLETE
							THANK YOU FOR YOUR BUSINESS!!!

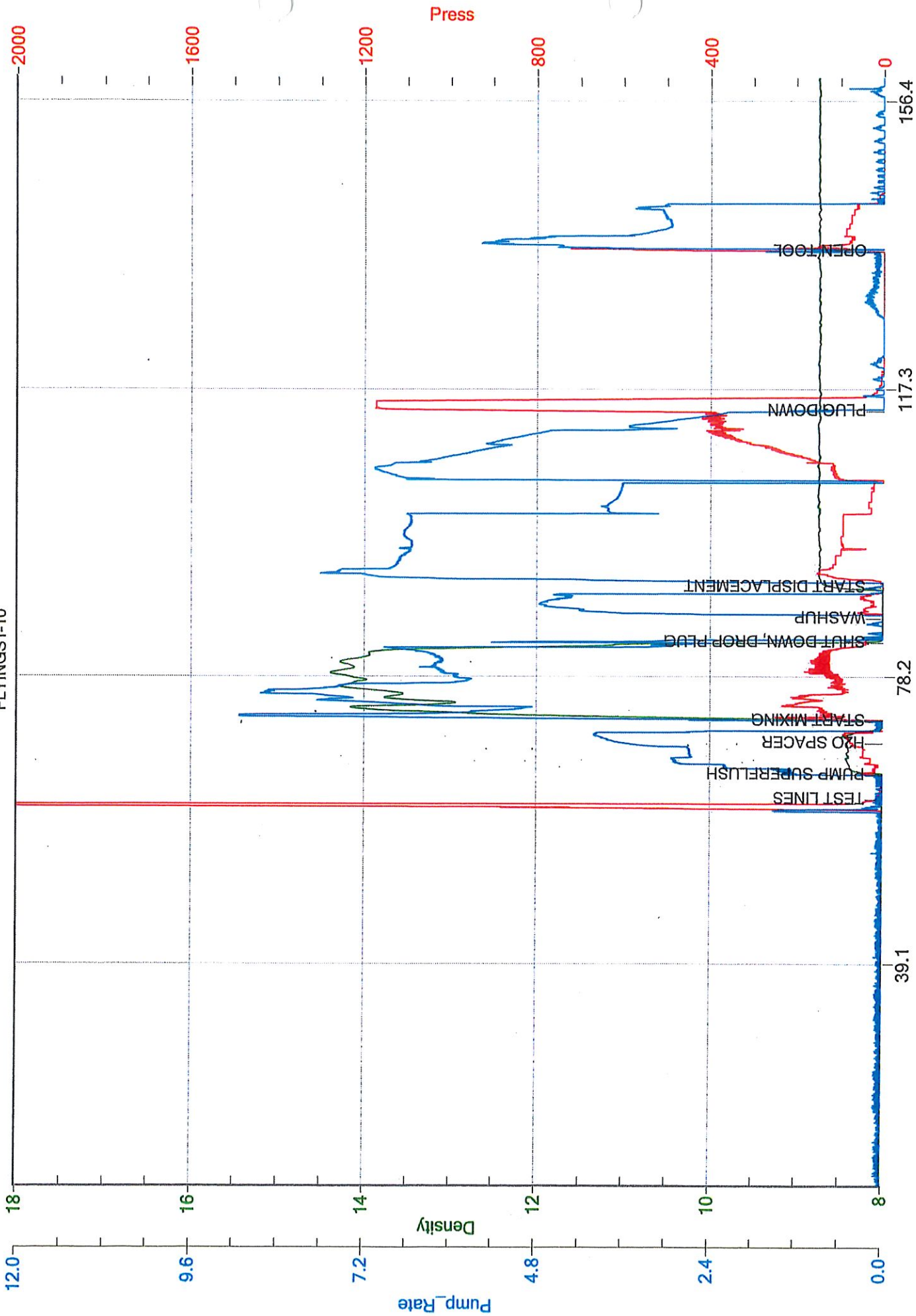
Size Hole	7 7/8	Depth	4840'		TYPE			
Size & Wt. Csg.	5 1/2 15.5	Depth	4830'	New / Used	D.V. TOOL	YES	Depth	2943'
lbg.		Depth			Retainer		Depth	
Top Plugs		Type			Perfs		CIBP	

Customer Signature:		Basic Representative:	CHAD HINZ
		Basic Signature:	
		Date of Service:	5/10/2019

VAL ENERGY
FLYINGS1-10



VAL ENERGY FLYINGS1-10





PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1004409	1718	04/30/2019
INVOICE NUMBER			
92961651			

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 FLYING S 1-10
 O LOCATION
 B COUNTY THOMAS
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE		
41172887	19570		Net - 30 days	05/30/2019		
			QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 04/29/2019 to 04/29/2019</i>						
0041172887						
171819451L Cement-New Well Casing/Pi 04/29/2019 CEMENT SURFACE CASING						
60/40 Poz		170.00	SK	5.40	918.00	T
441 LBS Calcium Chloride		1.00	LB	212.65	212.65	T
43 LBS Celloflake		1.00	LB	71.60	71.60	T
100 Light Vehicle Mileage		1.00	MI	202.50	202.50	T
200 Heavy Equipment Mileage		1.00	MI	675.00	675.00	T
Proppant and Bulk Delivery Charges		1.00	MI	826.88	826.88	T
Blending & Mixing Service Charge		170.00	SK	0.63	107.10	T
Depth Charge, 0'-1000'		1.00	HR	450.00	450.00	T
Service Supervisor Charge		1.00	EA	75.00	75.00	T
Driver Charge		2.00	EA	35.00	70.00	T

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	3,608.73
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	96.18
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	3,704.91
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



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

PRESSURE PUMPING Job Log

Customer:	Val Energy, INC	Cement Pump No.:	37712-19570 2HRS	Operator TRK No.:	96815
Address:	125 N Market	Ticket #:	1718-19451 L	Bulk TRK No.:	27808-19883
City, State, Zip:	Wichita Ks 67202	Job Type:	Z-42 Cement Surface Casing		
Service District:		Well Type:	OIL		
Well Name and No.:	Flying S # 1-10	Well Location:	10-08S-35W	County:	Thomas State: Kansas

Type of Cmt	Sacks	Additives	Truck Loaded On		
60/40 POZ	170	3%CaCl, 2%GEL, 1/4# POLYFLAKE	27808-19883	Front	Back
				Front	Back
				Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	14.8	1.21	5.18	205.7	Man Hours:	23
Tail:					# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLS)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
20:00							ON LOC, SAFTEY MTG, R.U.
20:44	4					140	START MIXING @ 14.8#
8:57 PM	4	37					START DISPLACEMENT
9:05 PM		16				120	SHUT DOWN, SHUT IN
9:06 PM							RELEASE PSI, R.D.
							JOB COMPLETE
							THANK YOU FOR YOUR BUSINESS!!!

Size Hole	12 1/4	Depth	262'		TYPE	
Size & Wt. Csg.	8 5/8 24	Depth	272'	New / Used	Packer	Depth
tbg.		Depth			Retainer	Depth
Top Plugs		Type			Perfs	CIBP

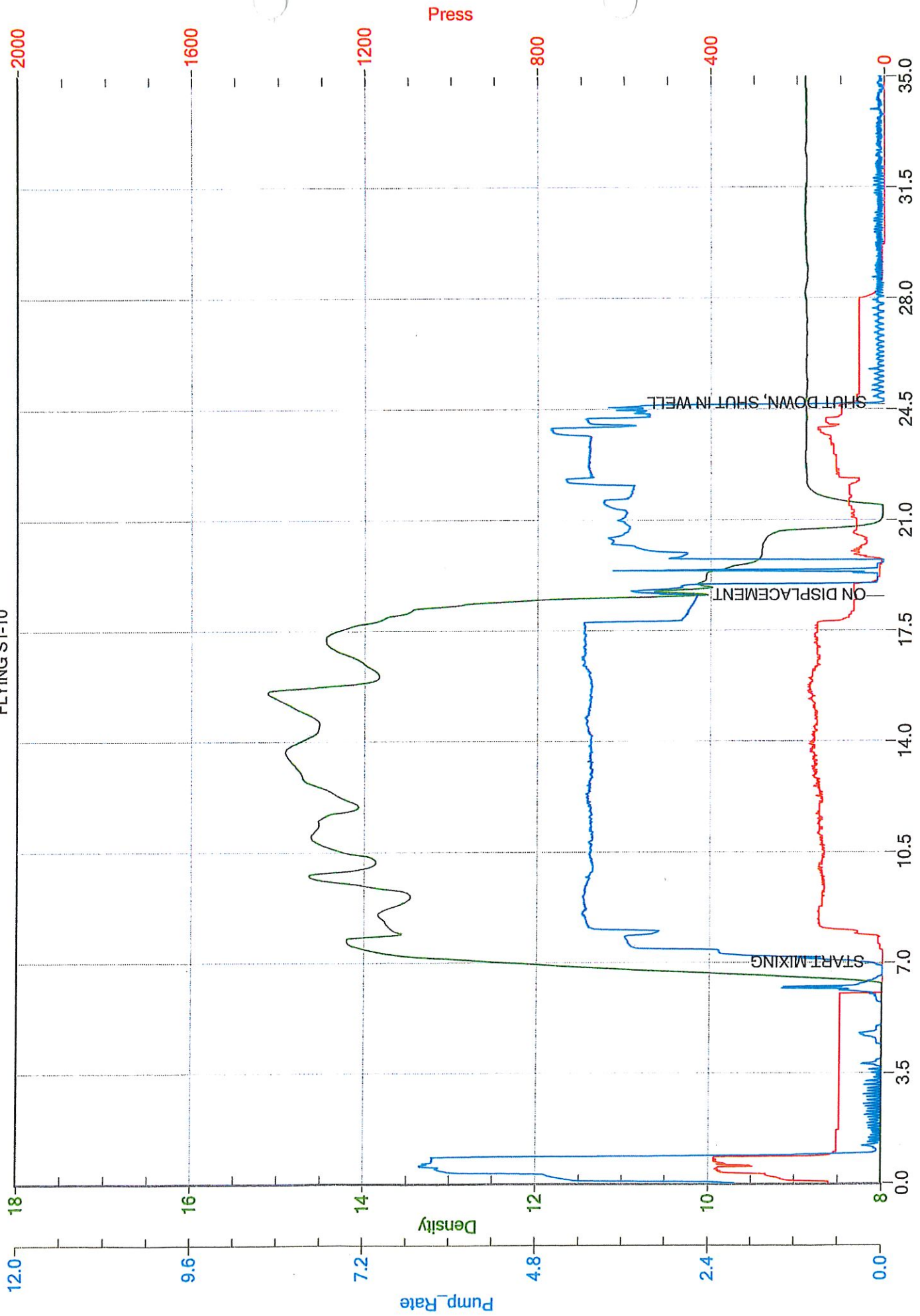
Customer Signature:

Basic Representative: CHAD HINZ

Basic Signature:

Date of Service: 4/29/2019

VAL ENERGY FLYING S1-10



GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY: VAL ENERGY, INC.
LEASE: Wildcat
FIELD: Wildcat
LOCATION: 4751 TNW, 15977 FWL
SEC: 10 T1MSP 8S
RWE: POE 35W
COUNTY: Thomas STATE Kansas
CONTRACTOR: W.W. Drilling, Rig #10
SPUD: 4-29-19 **COMP:** 5-9-19
RTD: 4870' **LTD:** 4872'
MUD UP: 3500' **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: 4000' to RTD
GEOLOGIST ON WELL: Tim Priest

CONDUCTIONS: N/A
CASING: 8-5/8" @ 262'
PRODUCTION: 5-1/2" @ 4835'
SURFACE: 8-5/8" @ 262'

ELEVATIONS: KB 3317'
DF:
GL: 3312'
Measurements Are All From KB

FORMATION TOPS **ELECTRIC LOG** **SAMPLE**

Anydrite	2870 (+447)	2868 (+449)
Heebner Shale	4129 (+812)	4126 (+809)
Austin	4177 (+857)	4171 (+854)
Sark	4379 (+1062)	4378 (+1062)
Marmaton	4476 (+1159)	4478 (+1161)
Fort Scott	4622 (+1305)	4617 (+1300)
Cherokee Shale	4655 (+1338)	4652 (+1335)
Mississippian	4806 (+1489)	4802 (+1485)

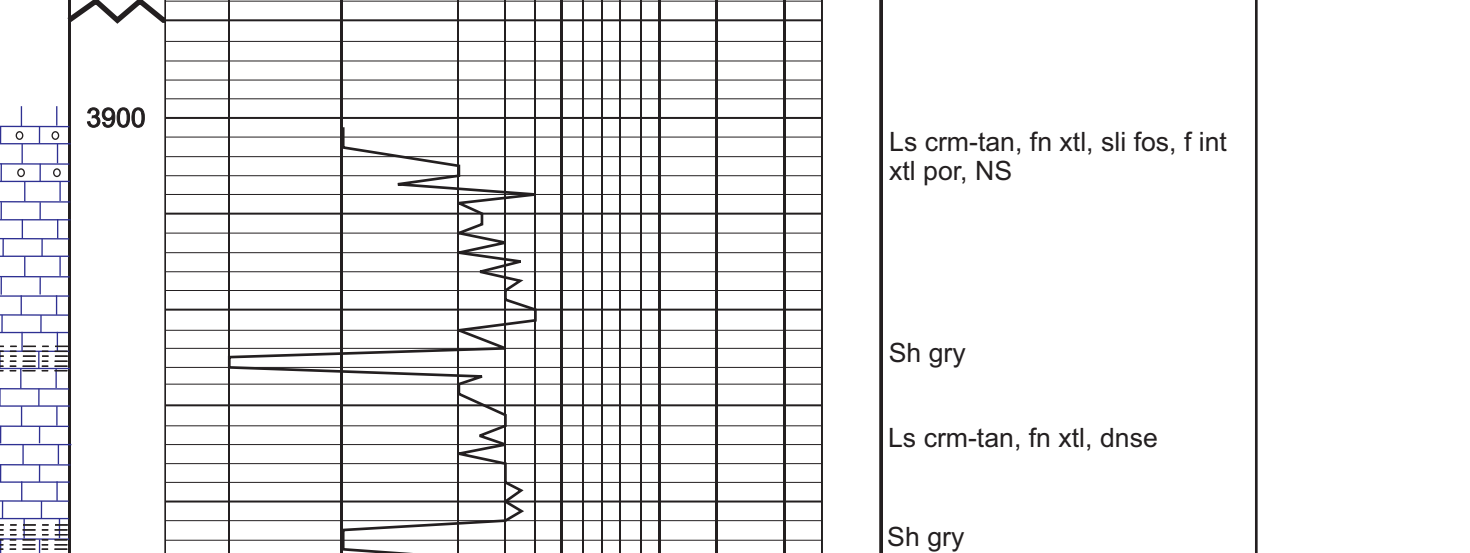
FORMATION TOPS **ELECTRIC LOG** **SAMPLE**

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

Respectfully Submitted,

API #15-193-21041 Tim Priest
Petroleum Geologist

LEGEND



DEPTH	LITHOLOGY	DESCRIPTION	REMARKS
2900	Anydrite		2868(+449)
3900	Base/Anydrite		2901(+416)
4000	Shale	LS crm-tan, fn xtl, sli fos, f int xtl por, NS	
4000	Shale	Sh gry	
4000	Shale	LS crm-tan, fn xtl, dnse	
4000	Shale	Sh gry	
4000	Shale	LS crm-tan-it gry, fn xtl, sli chry, dnse	
4000	Shale	LS crm-tan, fn xtl, sli fos, f int xtl por, NS	
4000	Shale	Sh gry	
4000	Shale	Sills gry, mic, w/rgy sh	
4000	Shale	Sh dk gry, silty	
4000	Shale	LS crm, fn xtl, fos-ool, chky, f int frag por, NS	
4000	Shale	Sh gry-dk gry	
4000	Shale	Sh dk gry, silty	
4000	Shale	LS crm, fn xtl, fos, chky, p-f int xtl-pp por, NS	
4000	Shale	LS crm-tan, fn xtl, dnse	
4000	Shale	Sh blk	
4000	Shale	LS crm-tan, fn xtl, dnse	
4000	Shale	Sh gry-dk gry	
4000	Shale	LS crm, fn xtl, fos-sli ool, chky, p int frag por, NS	
4000	Shale	Sh tan-gry, silty	
4000	Shale	LS lt gry, fn xtl, sli chty, dnse	
4000	Shale	Sh blk	
4000	Shale	LS crm-it gry, fn xtl, fos-sli ool, chky, sme p-f int xtl & int frag por, NS	
4000	Shale	Sh gry, silty	
4000	Shale	LS crm, fn xtl, fos-sli ool, chky, p int xtl & int frag por, NS	
4000	Shale	LS crm-it gry, fn xtl, sli fos, sli chky, dnse	
4000	Shale	Sh blk, carb	Heebner 4126 (-809)
4000	Shale	LS crm-tan, vfn xtl, dnse	
4000	Shale	Sh red-gry, silty, calc in prt	
4000	Shale	LS crm-tan, fn xtl, fos-ool, chky p pp & int frag por, spdt-sli sat dk stn, SSFO, f odor, dull-f floor	Toronto 4154 (-837)
4000	Shale	Sh red-gry, silty	
4000	Shale	LS crm-it gry, fn xtl, fos-ool, sli chky, p-f int frag por w/ few vugs, spdt-sli sat dk stn, SSFO, v sil odor, dull-f floor	Lansing 4171 (-854)
4000	Shale	Sh red-grn-gry	
4000	Shale	LS crm-it gry, fn xtl, fos-ool, chky, p-f int frag por w/ few vugs, spdt-sli sat stn, SSFO, f odor, dull-f floor	
4000	Shale	LS crm, vfn xtl, sli chty, dnse	
4000	Shale	Sh gry	
4000	Shale	LS/Dol crm, fn-med xtl, f int xtl-pp por, NS	
4000	Shale	LS crm-it gry, fn xtl, fos-ool, sli chky, p-f int xtl-pp por w/ few vugs, spdt-sli sat stn, SSFO, f odor, dull-f floor	
4000	Shale	LS crm-it gry, fn xtl, fos, chky, p-f int xtl-pp por w/ few vugs, spdt-sat blk stn, SSFO, f odor, dull-f floor	
4000	Shale	LS crm-it gry, fn xtl, fos, v chky, p-f int xtl-pp por w/ few vugs, spdt-sat blk stn, SSFO, sli odor, dull-f floor	
4000	Shale	LS crm-it gry, vfn xtl, dnse	
4000	Shale	LS/Dol crm, fn-med xtl, chky, p-f int xtl-pp por, NS	
4000	Shale	Sh blk, carb	Muncie Creek 4301 (-984)
4000	Shale	Sh red-brn-gry-blk, calc	
4000	Shale	LS/Dol crm, fn-med xtl, chky, p-f int xtl-pp por, NS	
4000	Shale	LS crm-it gry, vfn xtl, dnse	
4000	Shale	Sh blk	
4000	Shale	Sh red-grn-gry	
4000	Shale	LS crm-it gry, fn xtl, fos, p int xtl-pp por, spdt-sli sat stn, SSFO, f odor, dull-f floor	
4000	Shale	Sh red-grn-gry	
4000	Shale	LS crm-it gry, fn xtl, fos-ool, p int xtl & int frag por, spdt-sli sat stn, SSFO, f odor, dull-f floor	
4000	Shale	Sh blk, carb	Stark 4379 (-1062)
4000	Shale	Sh gry-dk gry, calc	
4000	Shale	LS crm-it gry, fn xtl, fos-ool, sli chky, p-f int xtl-pp por w/ few vugs, spdt-sli sat stn, SSFO, strong odor, dull-f floor	
4000	Shale	LS crm-it gry, fos, v chky, p int xtl-pp por, NS	
4000	Shale	Sh blk, carb	
4000	Shale	Sh crm-gry, mic xtl, dnse	
4000	Shale	Sh red-gry	
4000	Shale	LS crm-it gry, fn xtl, fos, chky, p-f int xtl-pp por, NS	
4000	Shale	LS crm-it gry, vfn xtl, dnse	
4000	Shale	Sh red-gry, silty	B/K.C. 4442 (-1125)
4000	Shale	LS crm-it gry, vfn xtl, dnse	
4000	Shale	Sh var col, silty-sli sandy	
4000	Shale	Sh var col, calc	
4000	Shale	Sh most red, silty	
4000	Shale	LS crm-it gry, mic xtl, dnse	Marmaton 4478 (-1161)
4000	Shale	Sh red-gry	
4000	Shale	LS crm-it gry, vfn xtl, fos-ool, sli chky, p-f pp-vug por, spdt-sli sat stn, SSFO, f odor, dull-f floor	
4000	Shale	Sh red-grn-gry	
4000	Shale	LS crm-tan-gry, fn xtl, fos-ool, p-f pp-vug por, spdt-sat dk stn, SSFO, sli odor, dull-f floor	
4000	Shale	Sh var col, calc	
4000	Shale	LS crm-it gry, vfn xtl, dnse	
4000	Shale	Sh blk, carb	Pawnee 4560 (-1233)
4000	Shale	LS tan-gry, mic xtl, chty, dnse	
4000	Shale	Sh gry-dk gry, calc	
4000	Shale	LS crm-it gry, fn xtl, fos-ool, chky, p-f int xtl-pp & int ool por, spdt-most sat lt stn, SSFO, strong odor, f-bri floor	
4000	Shale	LS crm-tan-gry, vfn xtl, chty, dnse	
4000	Shale	Sh blk, carb	Myrc Station 4586 (-1271)
4000	Shale	LS crm-it gry, fn xtl, fos, p int xtl-pp por, spdt-sli sat stn, SSFO, sli odor, dull-f floor	
4000	Shale	LS crm-it gry, fn xtl, fos, chky, p-f int xtl-pp por w/ few vugs, spdt-sat stn, SSFO, f odor, dull-f floor	
4000	Shale	Sh blk, carb	
4000	Shale	LS lt gry-gry, vfn xtl, dnse	
4000	Shale	LS crm-it gry, fn xtl, sli fos, p int xtl-pp por, NS	
4000	Shale	LS crm-it gry, fn xtl, sli chty, dnse	
4000	Shale	Sh blk, carb	Cherokee Shale 4652 (-1335)
4000	Shale	LS tan-gry, vfn xtl, fos, chty, dnse	
4000	Shale	LS crm-it gry, fn xtl, fos, p-f int xtl-pp por w/ few vugs, spdt-sli sat stn on several pcs, VSSFO sli odor, dull-f floor	
4000	Shale	LS gry, fn xtl, dnse, w/blk Sh	
4000	Shale	LS crm-it gry, fn xtl, dnse, p-f pp-vug por, spdt dk stn, SSFO, v sil odor, dull-f floor	
4000	Shale	SS lt gry, fn-med gm, ang, sli fria, mostly tite, spdt dead stn, nfo	
4000	Shale	Sh red-gry	
4000	Shale	SS gry, fn-med gm, ang, sli fria, mostly tite, spdt dead stn, nfo	
4000	Shale	SS lt gry, fn gm, sli chky, fria, w/ var col shale	
4000	Shale	LS crm-tan, vfn xtl, sli chky, dnse	
4000	Shale	Sh var col, silty	
4000	Shale	Sh var col, w/ fn grn, dnse SS	
4000	Shale	Sh blk, carb	
4000	Shale	SS wh, fn gm, chky, soft, fria	
4000	Shale	SS lt gry, fn gm, chky, soft, fria	
4000	Shale	Sh var col, silty	
4000	Shale	LS crm, vfn xtl, sandy, chky, dnse	Mississippian 4802 (-1485)
4000	Shale	LS crm-it gry, vfn xtl, sandy, dnse	
4000	Shale	LS crm-it gry, vfn xtl, sli sandy, dnse	
4000	Shale	LS crm-it gry, vfn xtl, chky, chty, dnse	
4000	Shale	LS crm-tan, vfn xtl, chty, dnse	
4000	Shale	LS crm-tan, vfn xtl, sli sandy, chty, dnse	Total Depth 4870 (-1553)

DRILLING TIME IN MINUTES PER FOOT
Rate of Penetration Decreases →

DEPTH **LITHOLOGY**



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

10-8-35W
Flying S #1-10
Job Ticket: 65357 **DST#: 1**
Test Start: 2019.05.05 @ 18:33:00

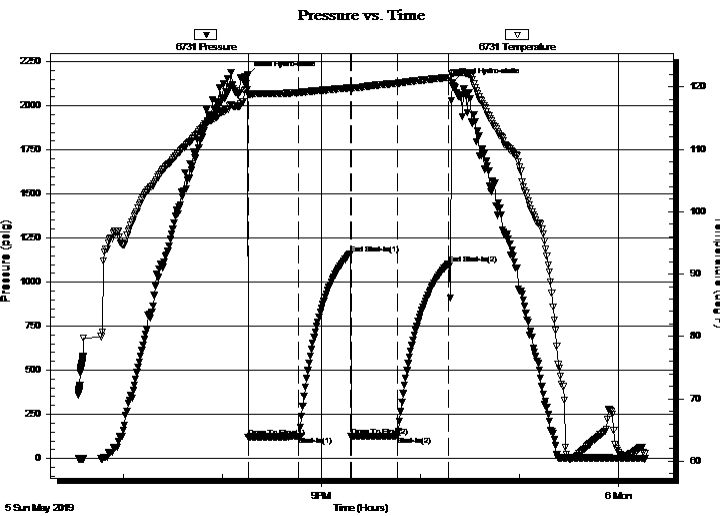
GENERAL INFORMATION:

Formation: KC I-K		Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)		Tester: Shaw n Wheelbarger
Time Tool Opened: 20:15:33		Unit No: 76
Time Test Ended: 00:16:17		
Interval: 4326.00 ft (KB) To 4410.00 ft (KB) (TVD)		Reference Elevations: 3317.00 ft (KB)
Total Depth: 4410.00 ft (KB) (TVD)		3312.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair		KB to GR/CF: 5.00 ft

Serial #: 6731

Press@RunDepth: 127.12 psig @ ft (KB)	Capacity: 8000.00 psig
Start Date: 2019.05.05 End Date: 2019.05.06	Last Calib.: 2019.05.05
Start Time: 18:33:01 End Time: 00:16:18	Time On Btm: 2019.05.05 @ 20:15:18
	Time Off Btm: 2019.05.05 @ 22:19:18

TEST COMMENT: 30-IF-Blow built to 1"
30-ISI-No blow back
30-FF-No Blow
30-FSI-No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2173.76	119.50	Initial Hydro-static
1	120.52	118.84	Open To Flow (1)
31	123.43	119.09	Shut-In(1)
63	1159.91	119.85	End Shut-In(1)
63	122.75	119.47	Open To Flow (2)
91	127.12	120.57	Shut-In(2)
122	1101.18	121.51	End Shut-In(2)
124	2129.18	122.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
217.00	100% M	1.93

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy **10-8-35W**
 125 N Market St STE 1110 Wichita KS 67202 **Flying S #1-10**
 Job Ticket: 65357 **DST#: 1**
 ATTN: Tim Priest Test Start: 2019.05.05 @ 18:33:00

Mud and Cushion Information

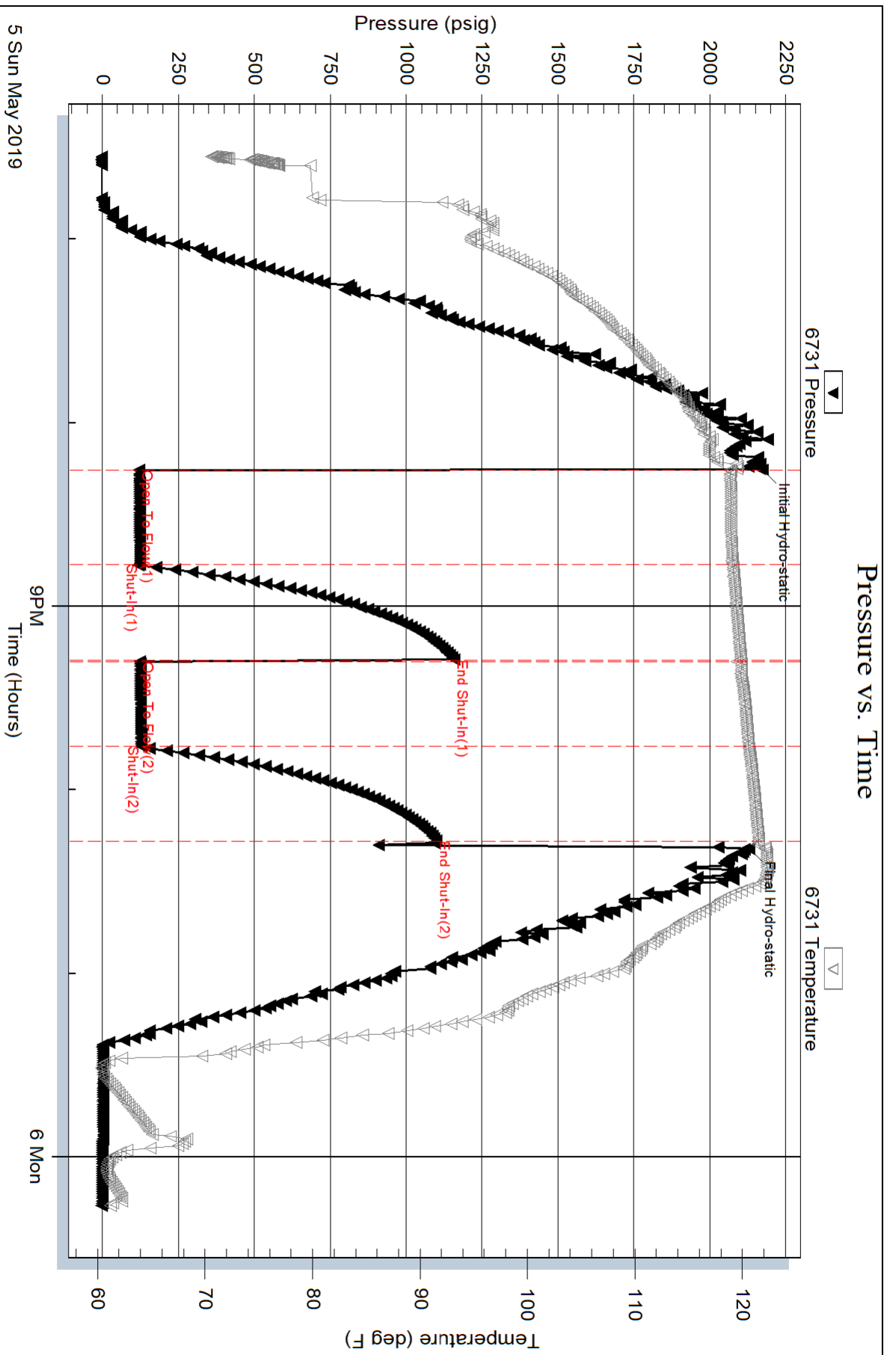
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3300.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
217.00	100% M	1.933

Total Length: 217.00 ft Total Volume: bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

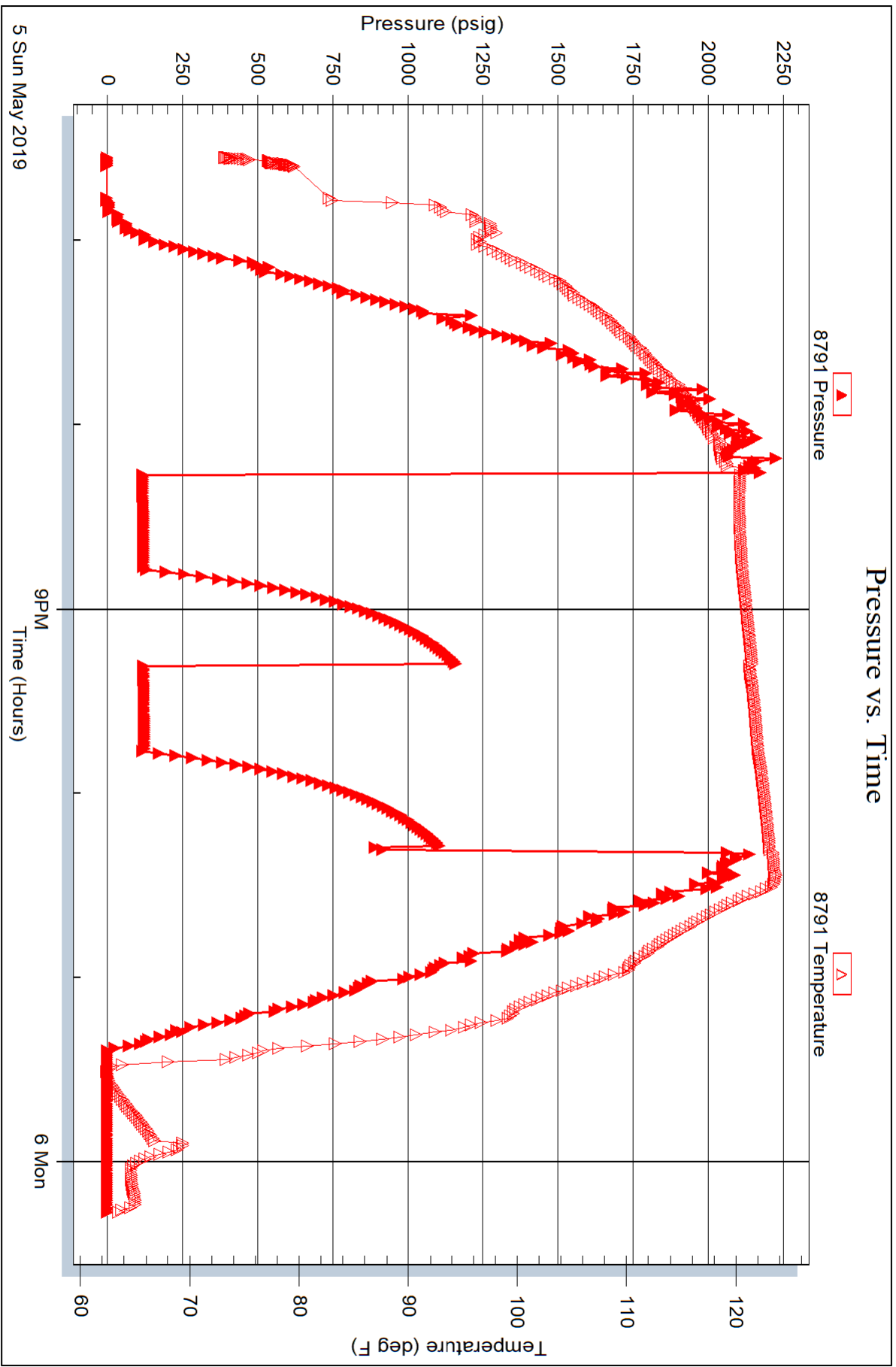


Serial #: 8791

Val Energy

Flying S#1-10

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

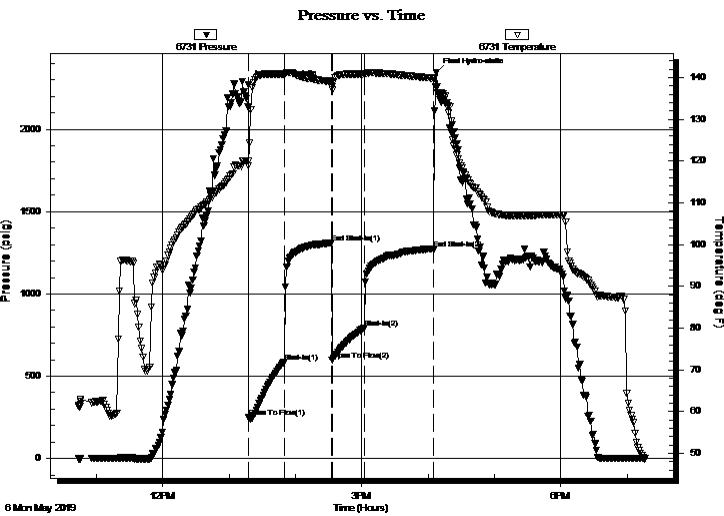
10-8-35W
Flying S #1-10
Job Ticket: 65358 **DST#: 2**
Test Start: 2019.05.06 @ 10:44:00

GENERAL INFORMATION:

Formation: **Marmaton A-B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:17:46
Time Test Ended: 19:16:31
Interval: **4486.00 ft (KB) To 4516.00 ft (KB) (TVD)**
Total Depth: 4516.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 3317.00 ft (KB)
3312.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6731 Inside
Press@RunDepth: 794.46 psig @ 4487.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2019.05.06 End Date: 2019.05.06 Last Calib.: 2019.05.06
Start Time: 10:44:01 End Time: 19:16:31 Time On Btm: 2019.05.06 @ 13:17:31
Time Off Btm: 2019.05.06 @ 16:07:31

TEST COMMENT: 30-IF-BOB @ open built to 443
45-ISI-Blow built to BOB in 2 mins
30-FF-Gas to surface in 30 secs BOB in 1 min
60-FSI-Blow built to BOB in 4 mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2269.77	120.03	Initial Hydro-static
1	248.38	118.89	Open To Flow (1)
33	586.69	140.88	Shut-In(1)
76	1310.69	138.99	End Shut-In(1)
76	598.24	137.82	Open To Flow (2)
105	794.46	140.78	Shut-In(2)
168	1270.75	139.75	End Shut-In(2)
170	2345.54	137.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
128.00	GOCM 34%G, 21%O, 45%M	0.68
2029.00	CGO 0-30 Mins Rev 13%G, 87%O	28.46
63.00	CO (Dumped) 100%O	0.88
0.00	2280' 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 **10-8-35W**
 125 N Market St STE 1110 Wichita KS 67202 **Flying S #1-10**
 Job Ticket: 65358 **DST#: 2**
 ATTN: Tim Priest Test Start: 2019.05.06 @ 10:44:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 39.2 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 63.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.79 in ³	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
128.00	GOCM 34%G, 21%O, 45%M	0.684
2029.00	CGO 0-30 Mins Rev 13%G, 87%O	28.462
63.00	CO (Dumped) 100%O	0.884
0.00	2280' GIP	0.000

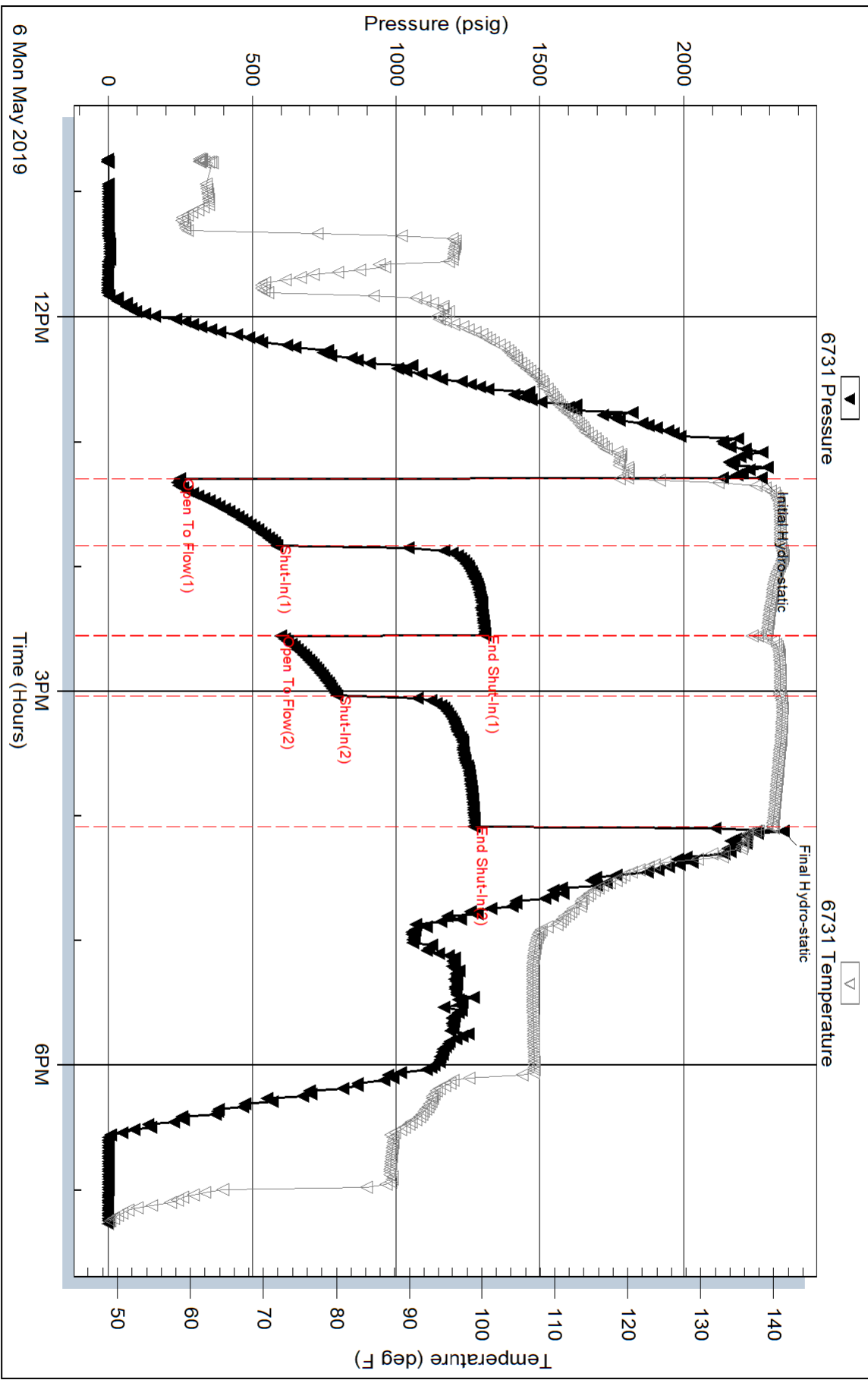
Total Length: 2220.00 ft Total Volume: 30.030 bbl

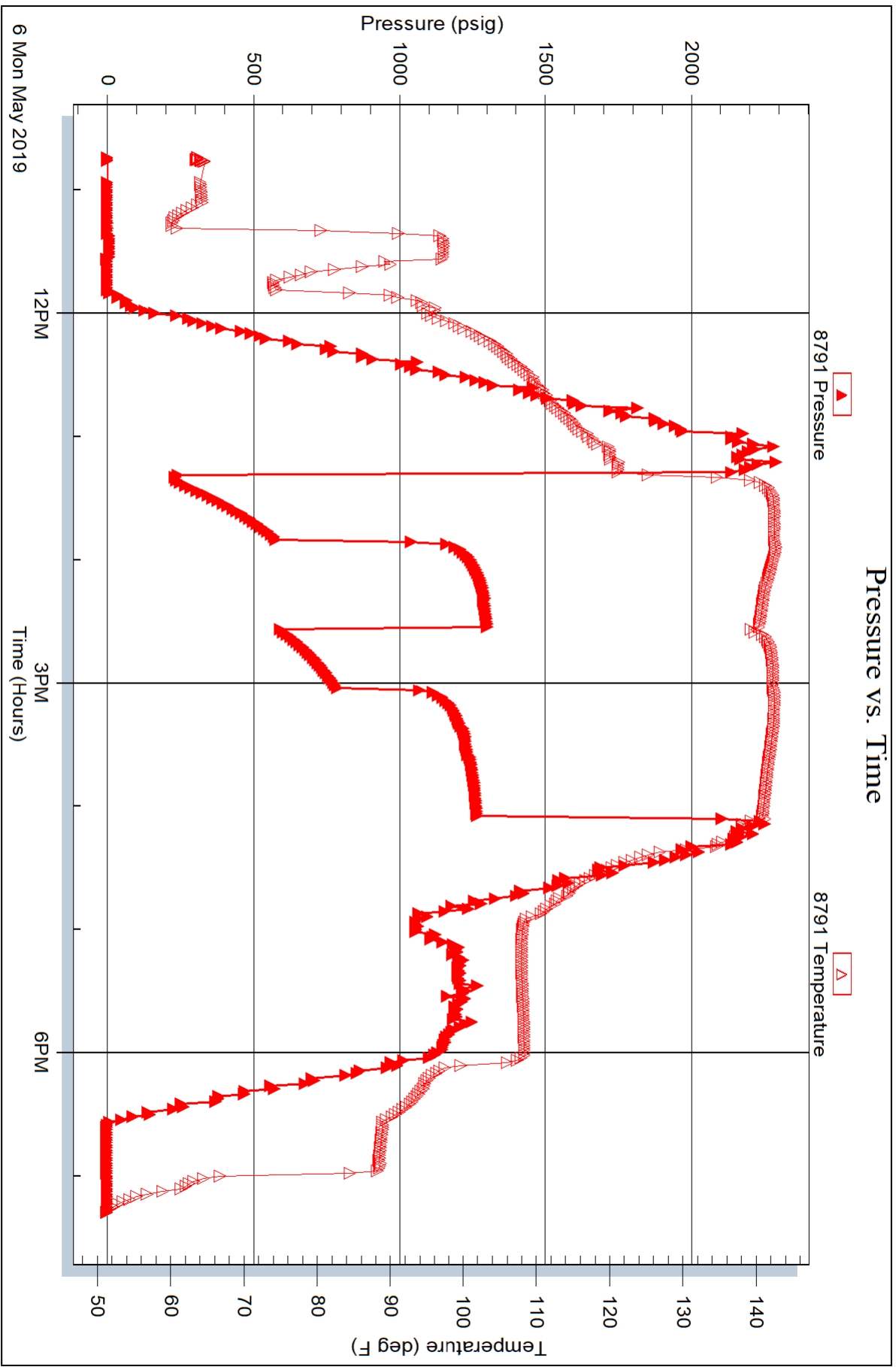
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Oil API 38.8 @56 DEG corrected to 39.2 @60 DEG

Pressure vs. Time







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

10-8-35W
Flying S #1-10
 Job Ticket: 65359 **DST#: 3**
 Test Start: 2019.05.07 @ 07:16:00

GENERAL INFORMATION:

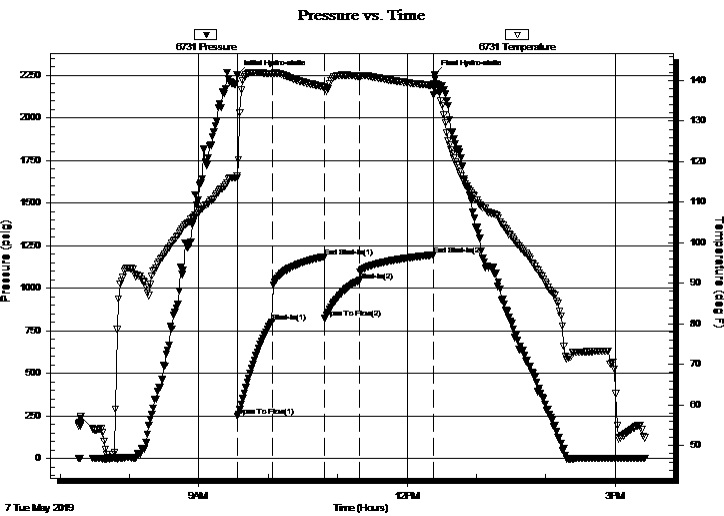
Formation: **Ma C - Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:33:31
 Time Test Ended: 15:26:01
 Interval: **4521.00 ft (KB) To 4584.00 ft (KB) (TVD)**
 Total Depth: 4410.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shawn Wheelbarger
 Unit No: 76
 Reference Elevations: 3317.00 ft (KB)
 3312.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6731

Inside

Press@RunDepth: 1045.02 psig @ 4522.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.05.07 End Date: 2019.05.07 Last Calib.: 2019.05.07
 Start Time: 07:16:01 End Time: 15:26:01 Time On Btm: 2019.05.07 @ 09:33:01
 Time Off Btm: 2019.05.07 @ 12:24:01

TEST COMMENT: 30-IF-BOB in 1 min built to 212"
 45-ISI-Blow built to 1 1/4"
 30-FF-BOB in 2 1/2 min built to 87"
 60-FSI-Surface blow gradually died



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2251.24	116.43	Initial Hydro-static
1	250.08	116.00	Open To Flow (1)
31	802.80	141.64	Shut-In(1)
76	1184.16	138.31	End Shut-In(1)
76	824.35	138.09	Open To Flow (2)
106	1045.02	140.99	Shut-In(2)
170	1193.47	138.77	End Shut-In(2)
171	2251.08	138.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
576.00	WCM 58%W, 42%M	6.97
2244.00	WCM 93%W, 7%M	31.48

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

10-8-35W
Flying S #1-10
 Job Ticket: 65359 **DST#: 3**
 Test Start: 2019.05.07 @ 07:16:00

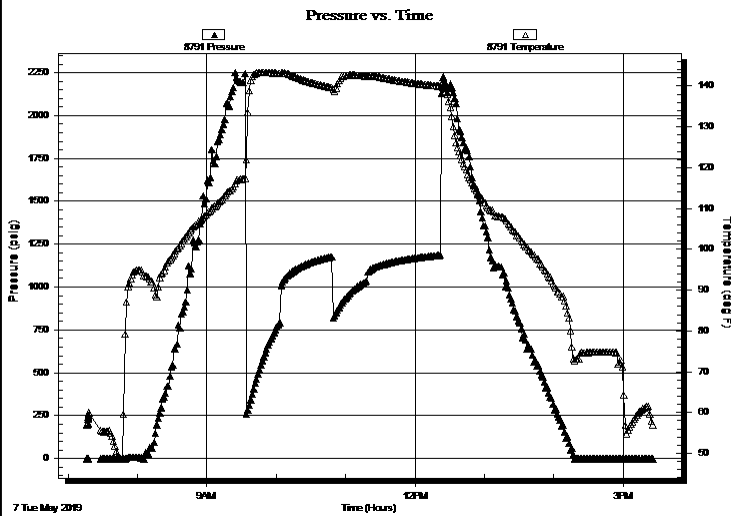
GENERAL INFORMATION:

Formation: **Ma C - Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:33:31
 Time Test Ended: 15:26:01
 Interval: **4521.00 ft (KB) To 4584.00 ft (KB) (TVD)**
 Total Depth: 4410.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shawn Wheelbarger
 Unit No: 76
 Reference Elevations: 3317.00 ft (KB)
 3312.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8791

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.05.07 End Date: 2019.05.07 Last Calib.: 2019.05.07
 Start Time: 07:16:01 End Time: 15:26:16 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-BOB in 1 min built to 212"
 45-ISI-Blow built to 1 1/4"
 30-FF-BOB in 2 1/2 min built to 87"
 60-FSI-Surface blow gradually died



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
576.00	WCM 58%W, 42%M	6.97
2244.00	WCM 93%W, 7%M	31.48

* 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 **10-8-35W**
 125 N Market St STE 1110 Wichita KS 67202 **Flying S #1-10**
 Job Ticket: 65359 **DST#: 3**
 ATTN: Tim Priest Test Start: 2019.05.07 @ 07:16:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	54000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 1.00 inches			

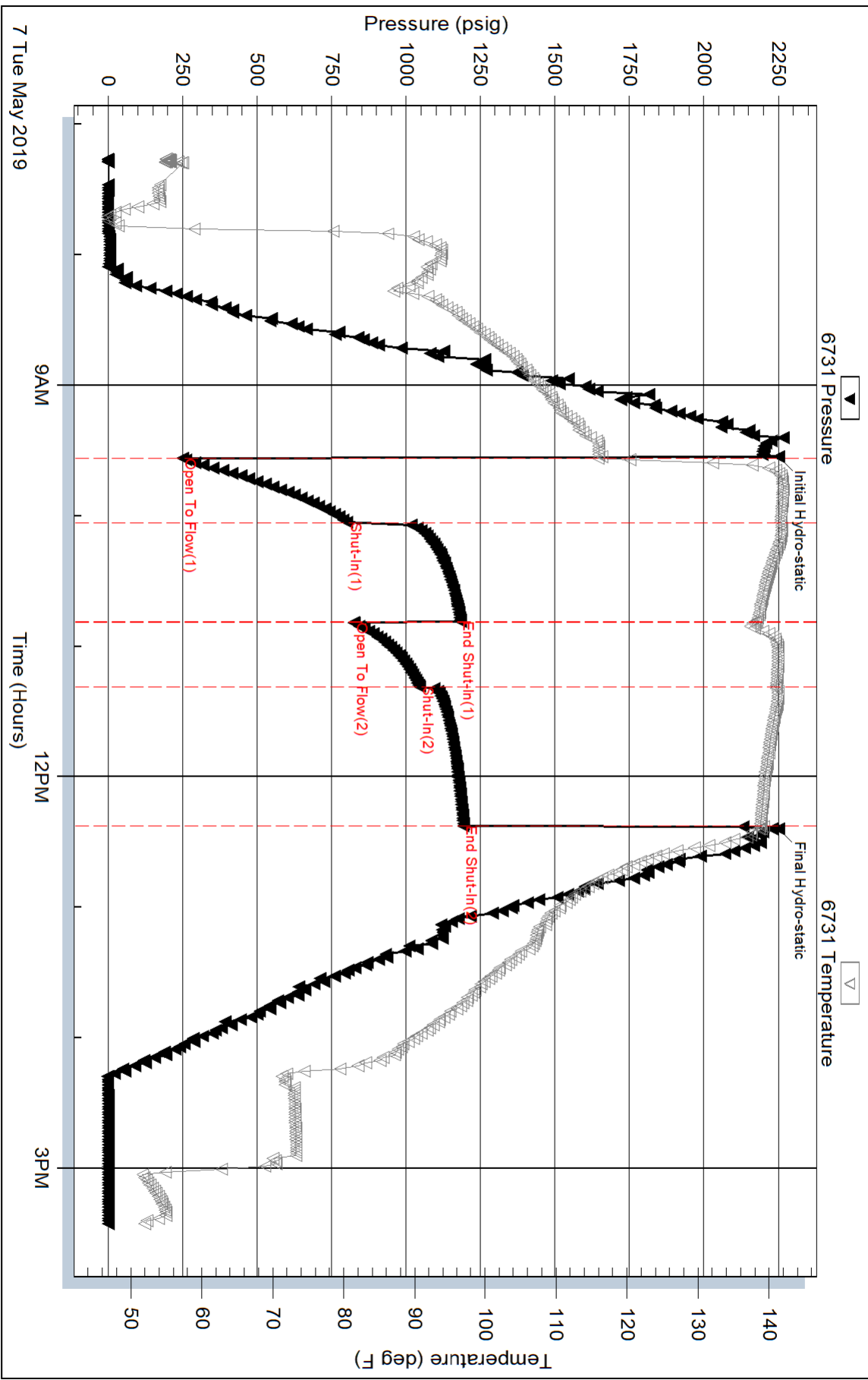
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
576.00	WCM 58%W, 42%M	6.968
2244.00	WCM 93%W, 7%M	31.477

Total Length: 2820.00 ft Total Volume: 38.445 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: API RW 1.92@47.3 DEG

Pressure vs. Time

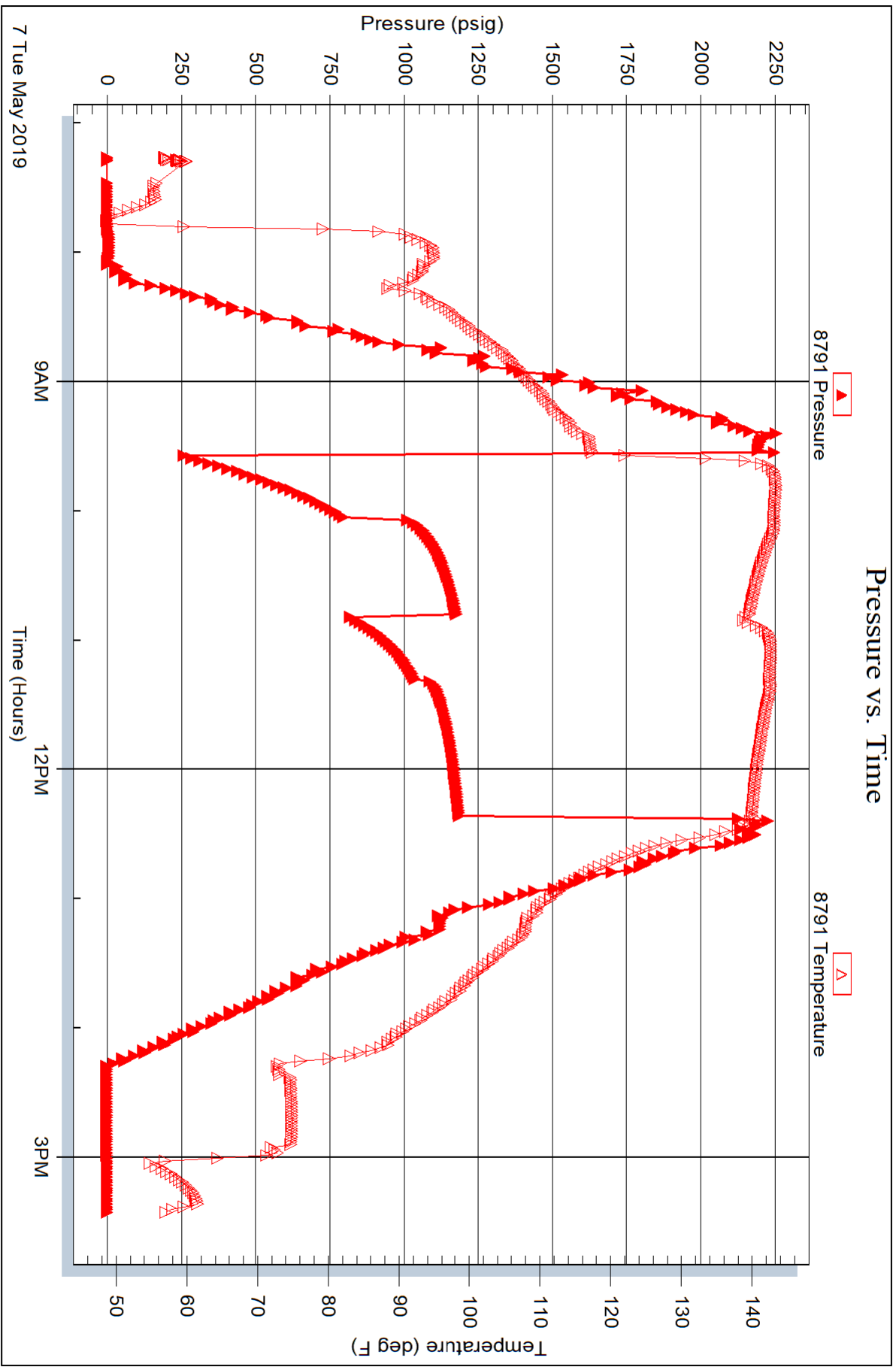


Serial #: 8791

Val Energy

Flying S#1-10

DST Test Number: 3





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

10-8-35W
Flying S #1-10
 Job Ticket: 65360 **DST#: 4**
 Test Start: 2019.05.07 @ 04:53:00

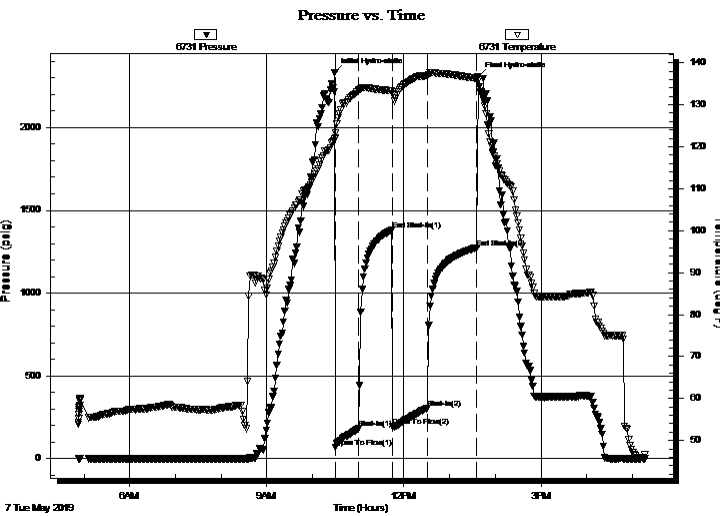
GENERAL INFORMATION:

Formation: **MS-CK**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:30:01
 Time Test Ended: 17:17:46
 Interval: **4583.00 ft (KB) To 4675.00 ft (KB) (TVD)**
 Total Depth: 4675.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shawn Wheelbarger
 Unit No: 76
 Reference Elevations: 3317.00 ft (KB)
 3312.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6731

Press@RunDepth: 306.25 psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.05.07 End Date: 2019.05.07 Last Calib.: 2019.05.08
 Start Time: 04:53:01 End Time: 17:17:46 Time On Btm: 2019.05.07 @ 10:29:31
 Time Off Btm: 2019.05.07 @ 13:37:31

TEST COMMENT: 30-IF-BOB in 8 mins built to 47"
 45-ISI-BOB in 15 3/4 mins built to 20"
 45-FF-BOB in 7 mins built to 67"
 60-FSI-BOB in 11 mins built to 18"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2332.86	121.89	Initial Hydro-static
1	68.30	122.22	Open To Flow (1)
32	181.72	133.48	Shut-In(1)
75	1379.95	133.32	End Shut-In(1)
76	196.32	132.70	Open To Flow (2)
122	306.25	136.95	Shut-In(2)
187	1273.88	136.28	End Shut-In(2)
188	2307.24	135.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
122.00	OCM, No Sample	0.60
704.00	Rev Out	9.88
0.00	30 Mins CGO, 86%O, 14%M	0.00
0.00	5 Min MCO, 67%O, 33%M	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 **10-8-35W**
 125 N Market St STE 1110 Wichita KS 67202 **Flying S #1-10**
 Job Ticket: 65360 **DST#: 4**
 ATTN: Tim Priest Test Start: 2019.05.07 @ 04:53:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	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

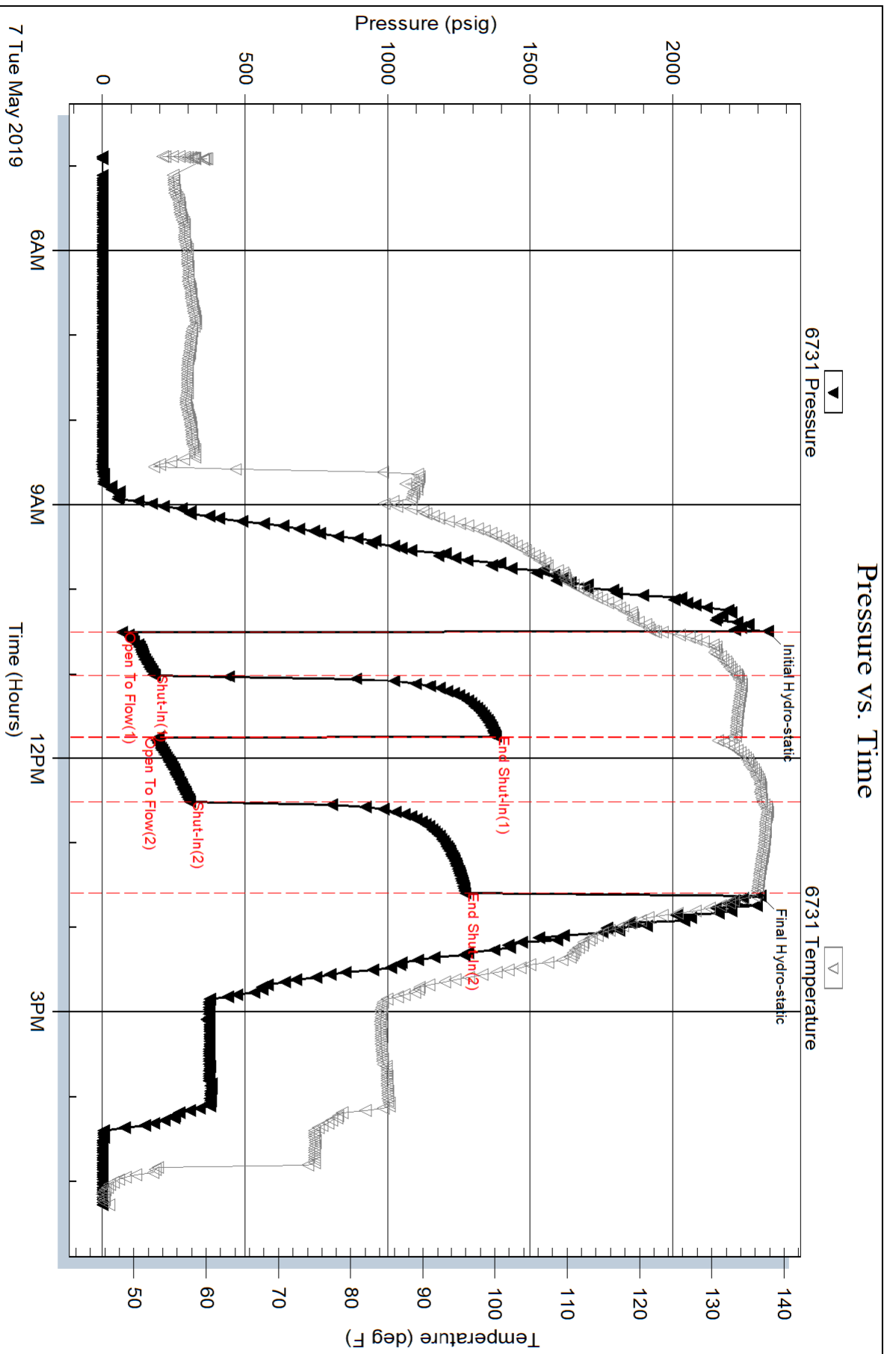
Length ft	Description	Volume bbl
122.00	OCM, No Sample	0.600
704.00	Rev Out	9.875
0.00	30 Mins CGO, 86%O, 14%M	0.000
0.00	5 Min MCO, 67%O, 33%M	0.000

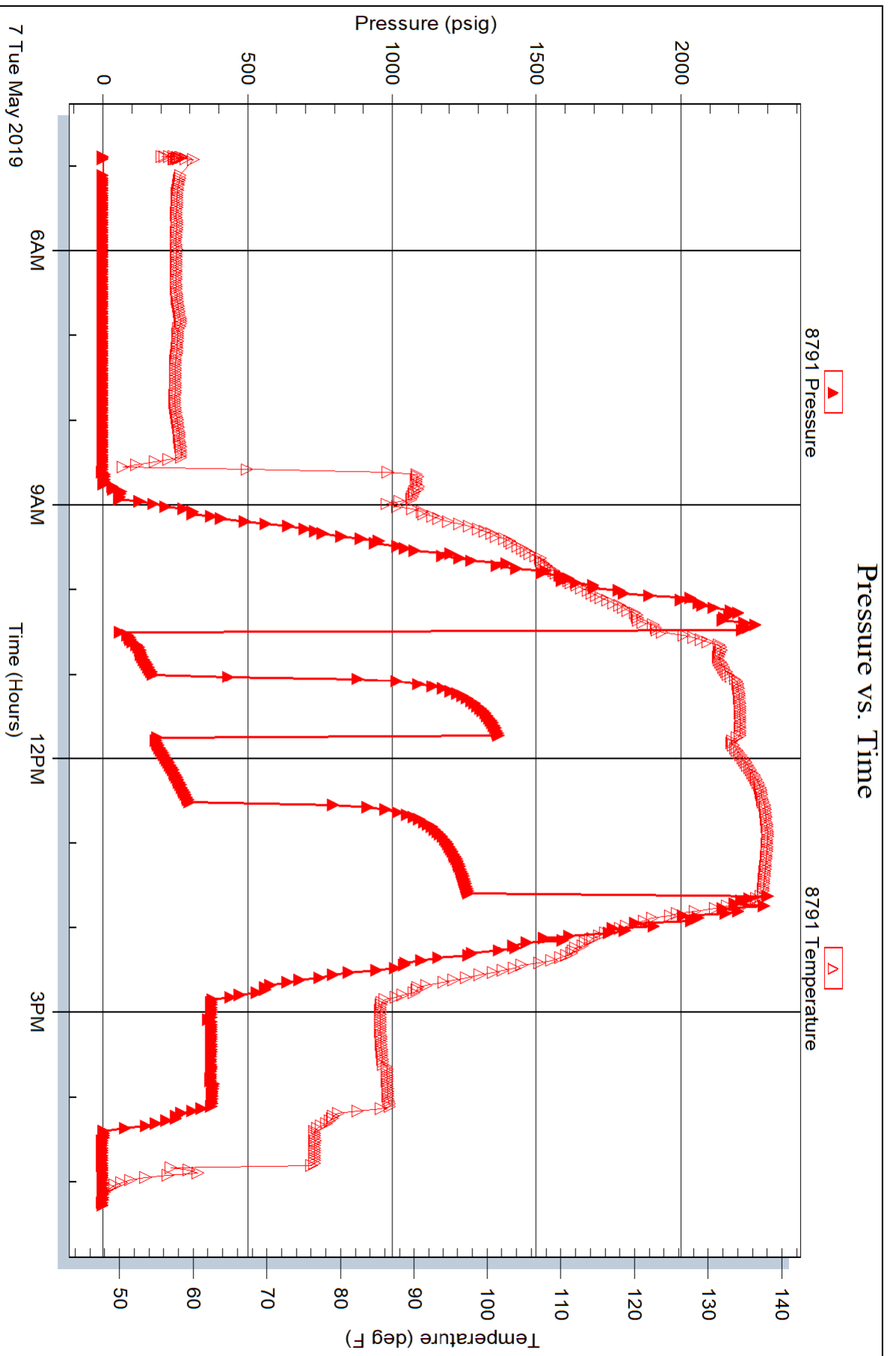
Total Length: 826.00 ft Total Volume: 10.475 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 26@90 DEG adjusted to 23@60 DEG







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

10-8-35W
Flying S #1-10
 Job Ticket: 65361 **DST#: 5**
 Test Start: 2019.05.08 @ 00:40:00

GENERAL INFORMATION:

Formation: **Johnson Zone**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:36:01
 Time Test Ended: 07:57:31
 Interval: **4672.00 ft (KB) To 4706.00 ft (KB) (TVD)**
 Total Depth: 4706.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shawn Wheelbarger
 Unit No: 76
 Reference Elevations: 3317.00 ft (KB)
 3312.00 ft (CF)
 KB to GR/CF: 5.00 ft

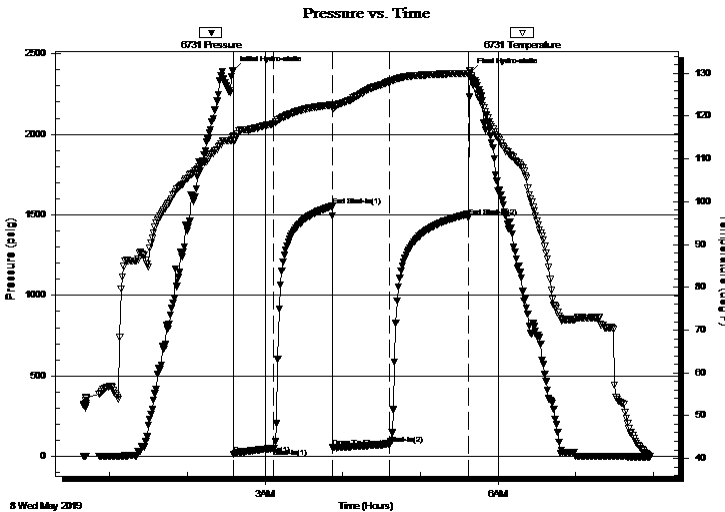
Serial #: 6731

Inside

Press@RunDepth: 77.49 psig @ 4673.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.05.08 End Date: 2019.05.08 Last Calib.: 1899.12.30
 Start Time: 00:40:01 End Time: 07:57:31 Time On Btm: 2019.05.08 @ 02:35:46
 Time Off Btm: 2019.05.08 @ 05:38:31

TEST COMMENT: 30-IS-Valve to bucket on floor manifold plugged
 45-IS-Blow built to 3/4"
 45-FF-Blow built to 3"
 60-FSI- Blow built to 1/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2395.83	115.41	Initial Hydro-static
1	14.94	114.11	Open To Flow (1)
31	49.34	118.29	Shut-In(1)
76	1553.02	122.59	End Shut-In(1)
77	54.79	121.90	Open To Flow (2)
121	77.49	128.11	Shut-In(2)
182	1485.02	129.96	End Shut-In(2)
183	2382.07	130.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	CGO, 37%G, 63%O	0.85
61.00	MCO, 70%O, 30%M	0.86

* 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 **10-8-35W**
 125 N Market St STE 1110 Wichita KS 67202 **Flying S #1-10**
 Job Ticket: 65361 **DST#: 5**
 ATTN: Tim Priest Test Start: 2019.05.08 @ 00:40:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	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
140.00	CGO, 37%G, 63%O	0.852
61.00	MCO, 70%O, 30%M	0.856

Total Length: 201.00 ft Total Volume: 1.708 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Gravity 21@80 Deg adjusted to 19@60 Deg

