

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) (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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## HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.  
250 N. Water, Suite 200  
Wichita, KS 67202  
316-303-9515

Customer:  
VAL ENERGY, INC.  
125 N MARKET  
STE 1710  
Wichita, KS 67202

Invoice Date: 11/7/2020  
Invoice #: 0350301  
Lease Name: Thorne  
Well #: 1-19-20  
County: Barber, Ks  
Job Number: ICT4394  
District: Pratt

Date/Description	HRS/QTY	Rate	Total
Plug to Abandon	0.000	0.000	0.00
H-Plug	170.000	10.400	1,768.00
Cello Flake	39.000	1.400	54.60
Light Eq Mileage	15.000	1.600	24.00
Heavy Eq Mileage	15.000	3.200	48.00
Ton Mileage Minimum	1.000	240.000	240.00
Cement Pump Service	1.000	600.000	600.00

Net Invoice 2,734.60  
Sales Tax: 135.38  
**Total** 2,869.98

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

**SALES TAX:** Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

**WE APPRECIATE YOUR BUSINESS!**



Customer	VAL ENERGY, INC.	Lease & Well #	THORNE 1-19-20	Date	11/7/2020
Service District	PRATT, KS.	County & State	BARBER, KS.	Legals S/T/R	19-30S-12W
Job Type	PTA	<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Job #
Equipment #	Driver				
		Ticket#			
		ICT 4394			

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
75	LESLEY	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
267	OSBORN	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
527-533	MARTINEZ	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" type="checkbox"/> Specific Job Sequence/Expectations
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations
		<input type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	

**Comments**

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Product/Service Code	Description	Unit of Measure	Quantity	Net Amount
CP055	H-Plug	sack	170.00	\$1,768.00
CP120	Cello-flake	lb	39.00	\$54.60
M015	Light Equipment Mileage	mi	15.00	\$24.00
M010	Heavy Equipment Mileage	mi	15.00	\$48.00
M025	Ton Mileage - Minimum	each	1.00	\$240.00
C010	Cement Pump Service	ea	1.00	\$600.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?		Net:	\$2,734.60
Based on this job, how likely is it you would recommend HSI to a colleague?		Total Taxable	\$ -
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.	Tax Rate:	
Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely		Sale Tax:	\$ -
		Total:	\$ 2,734.60
HSI Representative:		<i>Kevin Lesley</i>	

**TERMS:** Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 3/4% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X *[Signature]* CUSTOMER AUTHORIZATION SIGNATURE



**CEMENT TREATMENT REPORT**

Customer: VAL ENERGY, INC.	Well: THORNE 1-19-20	Ticket: ICT 4394
City, State:	County: BARBER, KS.	Date: 11/7/2020
Field Rep: SCOTT PILAND	S-T-R: 19-30S-12W	Service: PTA

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	ft
Casing Size:	4 1/2 DP in
Casing Depth:	ft
Tubing / Liner:	in
PLUG DEPTH:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	bbls

Calculated Slurry - Lead	
Blend:	H- PLUG
Weight:	13.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.43 ft <sup>3</sup> / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	42.4 bbls
Total Sacks:	170 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft <sup>3</sup> / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	#DIV/0! sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
4:30PM			-	-	ON LOCATION - SPOT TRUCKS
5:30PM				-	RIG UP FOR JOB
7:30PM				-	* 1ST PLUG @ 700'
7:35PM	5.0	200.0	10.0	10.0	H2o AHEAD
7:37PM	5.0	200.0	12.7	22.7	MIX 50 SKS CEMENT @ 13.8 PPG
7:40PM	5.0	150.0	6.6	29.3	H2o DISPLACEMENT
				29.3	
8:10PM				29.3	* 2ND PLUG @ 400'
8:11PM	4.0	100.0	5.0	34.3	H2o AHEAD
8:12PM	4.0	100.0	12.7	47.0	MIX 50 SKS CEMENT @ 13.8 PPG
8:16PM	4.0	50.0	2.3	49.3	H2o DISPLACEMENT
				49.3	
9:20PM				49.3	* 3RD PLUG @ 60'
9:25PM	3.0	50.0	5.0	54.3	MIX 20 SKS CEMENT @ 13.8PPG
				54.3	CEMENT TO SURFACE
				54.3	
9:35PM	2.0		7.0	61.3	PLUG RATHOLE- MIX 30 SKS @ 13.8PPG
9:45PM	2.0		5.0	66.3	PLUG MOUSEHOLE- MIX 20 SKS @ 13.8PPG
				66.3	
				66.3	WASH UP PUMP TRUCK
				66.3	
				66.3	JOB COMPLETE,
				66.3	THANKS- KEVEN AND CREW
				66.3	
				66.3	
				66.3	
				66.3	

CREW		UNIT	SUMMARY		
Cementer:	LESLEY	75	Average Rate	Average Pressure	Total Fluid
Pump Operator:	OSBORN	267	3.8 bpm	121 psi	66 bbls
Bulk #1:	MARTINEZ	527-533			
Bulk #2:					



## HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.  
250 N. Water, Suite 200  
Wichita, KS 67202  
316-303-9515

**Customer:**

VAL ENERGY, INC.  
125 N MARKET  
STE 1710  
Wichita, KS 67202

Invoice Date: 10/29/2020  
Invoice #: 0350071  
Lease Name: Thorne  
Well #: 1-19-20 (New)  
County: Barber, Ks  
Job Number: ICT4359  
District: Pratt

Date/Description	HRS/QTY	Rate	Total
8 5/8" Surface	0.000	0.000	0.00
H-325	250.000	16.000	4,000.00
Sugar	100.000	2.400	240.00
Light Eq Mileage	15.000	1.600	24.00
Heavy Eq Mileage	15.000	3.200	48.00
Ton Mileage	176.000	1.200	211.20
Cement Pump Service	1.000	600.000	600.00

**Total** 5,123.20

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

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**WE APPRECIATE YOUR BUSINESS!**



Customer	VAL ENERGY, INC.	Lease & Well #	THORNE 1-19-20	Date	10/29/2020
Service District	PRATT, KS.	County & State	BARBER, KS.	Legals S/T/R	19-30S-12W
Job Type	8 5/8" SURFACE	<input checked="checked" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	
		<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well?	<input checked="checked" type="checkbox"/> YES <input type="checkbox"/> No
Job #				Ticket #	ICT 4359

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
75	LESLEY	<input checked="checked" type="checkbox"/> Hard hat	<input checked="checked" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
526-521	McGRAW	<input checked="checked" type="checkbox"/> H2S Monitor	<input checked="checked" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
181-532	WHITFIELD	<input checked="checked" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="checked" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="checked" type="checkbox"/> Specific Job Sequence/Expectations
		<input checked="checked" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="checked" type="checkbox"/> Overhead Hazards	<input checked="checked" type="checkbox"/> Muster Point/Medical Locations
		<input type="checkbox"/> Hearing Protection	<input checked="checked" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
CP015	H-325	sack	250.00	\$4,000.00
CP180	Sugar	lb	100.00	\$240.00
M015	Light Equipment Mileage	mi	15.00	\$24.00
M010	Heavy Equipment Mileage	mi	15.00	\$48.00
M020	Ton Mileage	tm	176.00	\$211.20
C010	Cement Pump Service	ea	1.00	\$600.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?			Net:	\$5,123.20
Based on this job, how likely is it you would recommend HSI to a colleague?			Total Taxable	\$ -
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely</small>			Tax Rate:	
			Sale Tax:	\$ -
			Total:	\$ 5,123.20
HSI Representative:			<i>Kevin Lesley</i>	

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X *Stuart P. Leonard*

CUSTOMER AUTHORIZATION SIGNATURE





**CEMENT TREATMENT REPORT**

Customer: VAL ENERGY, INC.	Well: THORNE 1-19-20	Ticket: ICT 4359
City, State:	County: BARBER, KS.	Date: 10/29/2020
Field Rep: SCOTT PILAND	S-T-R: 19-30S-12W	Service: 8 5/8" SURFACE

Downhole Information		24 #	Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	12 1/4 in		Blend:	H-325	Blend:	
Hole Depth:	344 ft		Weight:	14.8 ppg	Weight:	ppg
Casing Size:	8 5/8 in		Water / Sx:	6.5 gal / sx	Water / Sx:	gal / sx
Casing Depth:	330 ft		Yield:	1.38 ft <sup>3</sup> / sx	Yield:	ft <sup>3</sup> / sx
Tubing / Liner:	N/A in		Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
PLUG DEPTH:	310 ft		Depth:	ft	Depth:	ft
Tool / Packer:	N/A		Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool Depth:	N/A ft		Excess:		Excess:	
Displacement:	19.7 bbls		Total Slurry:	61.5 bbls	Total Slurry:	0.0 bbls
			Total Sacks:	250 sx	Total Sacks:	#DIV/0! sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
5:30PM			-	-	ON LOCATION - SPOT TRUCKS
6:50PM				-	RIG UP FOR JOB
8:30PM				-	RUN 8 JTS 8 5/8" CASING
9:45PM				-	CASING ON BOTTOM
9:50PM				-	BREAK CIRCULATION WITH RIG PUMP
10:03PM	6.0	200.0	10.0	10.0	H2o AHEAD
10:05PM	6.0	100.0	61.5	71.5	MIX 250 SKS H-325 @ 14.8 PPG
10:15PM	4.0	50.0	-	71.5	START DISPLACEMENT
10:25 PM	3.0	200.0	15.0	86.5	SLOW RATE
10:30PM	3.0	250.0	19.7	106.2	CEMENT @ DESIRED DEPTH
				106.2	CIRCULATION THRU JOB
				106.2	CIRCULATED 10 BBL TO PIT
10:45PM				106.2	WASH UP PUMP TRUCK
				106.2	
				106.2	JOB COMPLETE,
				106.2	THANK YOU - KEVEN AND CREW
				106.2	
				106.2	
				106.2	
				106.2	
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				106.2	
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				106.2	

CREW		UNIT	SUMMARY		
Cementer:	LESLEY	75	Average Rate	Average Pressure	Total Fluid
Pump Operator:	McGRAW	526-521	4.4 bpm	160 psi	106 bbls
Bulk #1:	WHITFIELD	181-532			
Bulk #2:					



**Company: Val Energy, Inc.**  
**Lease: Thorne #1-19-20**

SEC: 19 TWN: 30S RNG: 12W  
 County: BARBER  
 State: Kansas  
 Drilling Contractor: Murfin Drilling  
 Company, Inc - Rig 114  
 Elevation: 1685 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 457  
 API #: 15-007-24372

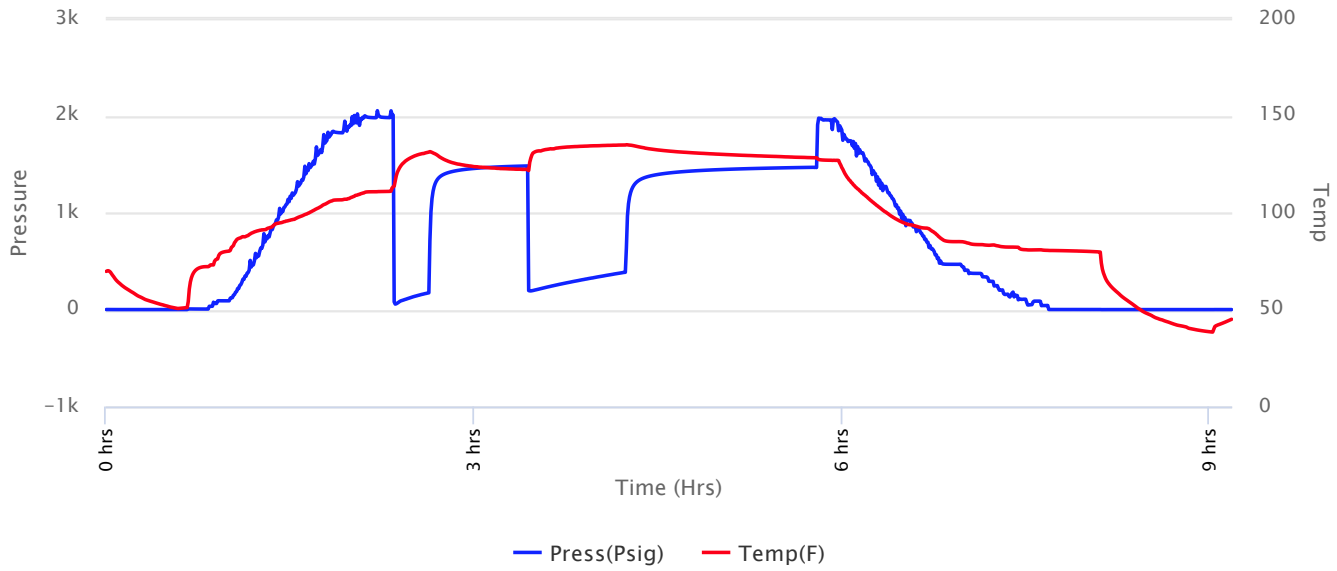
**Operation:**  
 Test Complete

**DATE**  
 November  
**02**  
 2020

**DST #1**      **Formation: Lans/Swope**      **Test Interval: 4034 - 4054'**      **Total Depth: 4054'**  
 Time On: 20:21 11/02      Time Off: 04:15 11/03  
 Time On Bottom: 21:36 11/02      Time Off Bottom: 00:51 11/03

Electronic Volume Estimate: 815'	<u>1st Open</u> Minutes: 15 Current Reading: 31" at 15 min Max Reading: 31"	<u>1st Close</u> Minutes: 45 Current Reading: 1.2" at 45 min Max Reading: 1.4"	<u>2nd Open</u> Minutes: 45 Current Reading: 39.3" at 45 min Max Reading: 39.3"	<u>2nd Close</u> Minutes: 90 Current Reading: .25" at 90 min Max Reading: .5"
-------------------------------------	-----------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------

Inside Recorder





**Company: Val Energy, Inc.**  
**Lease: Thorne #1-19-20**

SEC: 19 TWN: 30S RNG: 12W  
 County: BARBER  
 State: Kansas  
 Drilling Contractor: Murfin Drilling  
 Company, Inc - Rig 114  
 Elevation: 1685 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 457  
 API #: 15-007-24372

**Operation:**  
 Test Complete

**DATE**  
 November  
**02**  
 2020

**DST #1**      **Formation:**  
 Lans/Swope      **Test Interval: 4034 - 4054'**      **Total Depth: 4054'**

Time On: 20:21 11/02      Time Off: 04:15 11/03  
 Time On Bottom: 21:36 11/02      Time Off Bottom: 00:51 11/03

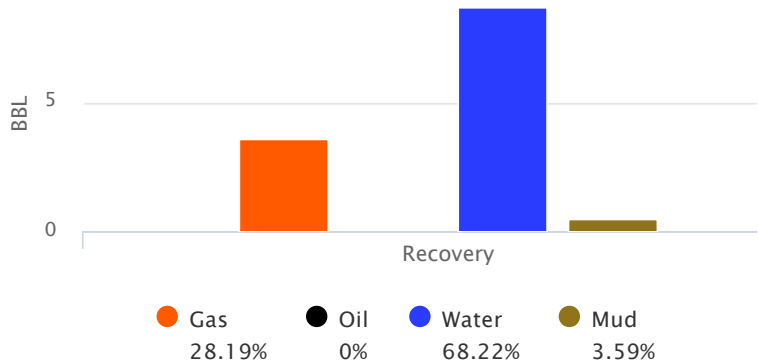
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
252	3.58596	G	100	0	0	0
756	9.1338436	SLMCW	0	0	95	5

Total Recovered: 1008 ft  
 Total Barrels Recovered: 12.7198036

Reversed Out  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	1980	PSI
Initial Flow	57 to 173	PSI
<b>Initial Closed in Pressure</b>	<b>1481</b>	<b>PSI</b>
Final Flow Pressure	193 to 385	PSI
<b>Final Closed in Pressure</b>	<b>1466</b>	<b>PSI</b>
Final Hydrostatic Pressure	1975	PSI
Temperature	135	°F
Pressure Change Initial Close / Final Close	1.1	%

GIP cubic foot volume: 20.13337



**Company: Val Energy, Inc.**  
**Lease: Thorne #1-19-20**

SEC: 19 TWN: 30S RNG: 12W  
County: BARBER  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 114  
Elevation: 1685 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 457  
API #: 15-007-24372

**Operation:**  
Test Complete

**DATE**  
November  
**02**  
2020

<b>DST #1</b>	<b>Formation:</b> Lans/Swope	<b>Test Interval: 4034 -</b> <b>4054'</b>	<b>Total Depth: 4054'</b>
	Time On: 20:21 11/02	Time Off: 04:15 11/03	
	Time On Bottom: 21:36 11/02	Time Off Bottom: 00:51 11/03	

**BUCKET MEASUREMENT:**

1st Open: 1/2 in. blow building. BOB in 4 1/4 mins.  
1st Close: 1 1/4 in. blow back.  
2nd Open: 1/4 in. blow building. BOB in 10 mins.  
2nd Close: 1/2 in. blow back.

**REMARKS:**

Ph: 7

Measured RW: 6 @ 60 degrees °F

RW at Formation Temp: 2.826 @ 135 °F

Chlorides: 135,000 ppm



**Company: Val Energy, Inc.**  
**Lease: Thorne #1-19-20**

SEC: 19 TWN: 30S RNG: 12W  
 County: BARBER  
 State: Kansas  
 Drilling Contractor: Murfin Drilling  
 Company, Inc - Rig 114  
 Elevation: 1685 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 457  
 API #: 15-007-24372

**Operation:**  
 Test Complete

**DATE**  
 November  
**02**  
 2020

**DST #1**      **Formation:**      **Test Interval: 4034 -**      **Total Depth: 4054'**  
 Lans/Swope      **4054'**  
 Time On: 20:21 11/02      Time Off: 04:15 11/03  
 Time On Bottom: 21:36 11/02      Time Off Bottom: 00:51 11/03

**Down Hole Makeup**

<b>Heads Up:</b> 17.09 FT	<b>Packer 1:</b> 4029 FT
<b>Drill Pipe:</b> 3844.08 FT ID-3 1/2	<b>Packer 2:</b> 4034 FT
<b>Weight Pipe:</b> FT ID-2 7/8	<b>Top Recorder:</b> 4018.42 FT
<b>Collars:</b> 174.44 FT ID-2 1/4	<b>Bottom Recorder:</b> 1 FT
<b>Test Tool:</b> 33.57 FT ID-3 1/2-FH Jars Safety Joint	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 20	<b>Surface Choke:</b> 1"
<u><b>Anchor Makeup</b></u>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> FT 4 1/2-FH	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT ID-3 1/2	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 19 FT 4 1/2-FH	



**Company: Val Energy, Inc.**  
**Lease: Thorne #1-19-20**

SEC: 19 TWN: 30S RNG: 12W  
County: BARBER  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 114  
Elevation: 1685 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 457  
API #: 15-007-24372

**Operation:**  
Test Complete

**DATE**  
November  
**02**  
2020

**DST #1**      **Formation:**      **Test Interval: 4034 -**      **Total Depth: 4054'**  
**Lans/Swope**      **4054'**  
Time On: 20:21 11/02      Time Off: 04:15 11/03  
Time On Bottom: 21:36 11/02      Time Off Bottom: 00:51 11/03

**Mud Properties**

**Mud Type:** Chemical      **Weight:** 9.3      **Viscosity:** 50      **Filtrate:** 8.8      **Chlorides:** 4,500 ppm



**Company: Val Energy, Inc.**  
**Lease: Thorne #1-19-20**

SEC: 19 TWN: 30S RNG: 12W  
 County: BARBER  
 State: Kansas  
 Drilling Contractor: Murfin Drilling  
 Company, Inc - Rig 114  
 Elevation: 1685 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 457  
 API #: 15-007-24372

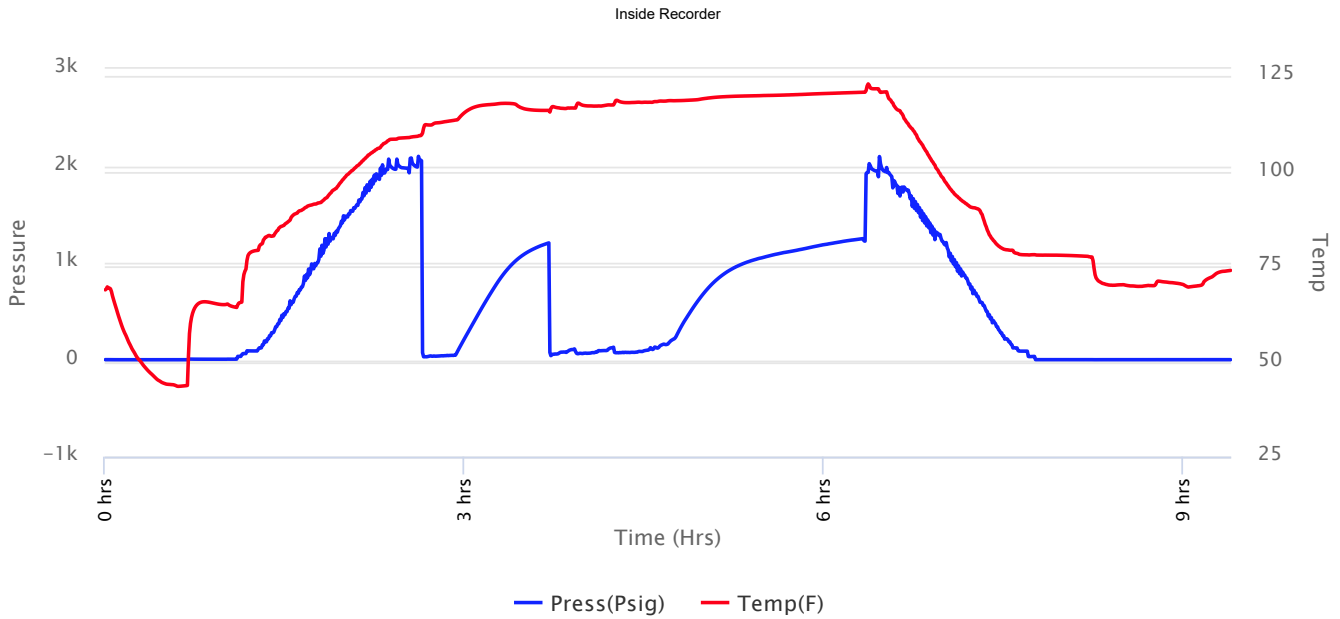
**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 November  
**05**  
 2020

**DST #2      Formation: Miss      Test Interval: 4138 - 4233'      Total Depth: 4233'**  
 Time On: 03:22 11/05      Time Off: 12:32 11/05  
 Time On Bottom: 05:59 11/05      Time Off Bottom: 09:29 11/05

Electronic Volume  
 Estimate:  
 N/A

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 15	Minutes: 45	Minutes: 60	Minutes: 50
Current Reading: 81.2" at 15 min	Current Reading: 0" at 45 min	Current Reading: 67.1" at 60 min	Current Reading: 0" at 50 min
Max Reading: 81.2"	Max Reading: .6"	Max Reading: 102"	Max Reading: 7"





**Company: Val Energy, Inc.**  
**Lease: Thorne #1-19-20**

SEC: 19 TWN: 30S RNG: 12W  
 County: BARBER  
 State: Kansas  
 Drilling Contractor: Murfin Drilling  
 Company, Inc - Rig 114  
 Elevation: 1685 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 457  
 API #: 15-007-24372

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 November  
**05**  
 2020

**DST #2**      **Formation: Miss**      **Test Interval: 4138 - 4233'**      **Total Depth: 4233'**  
 Time On: 03:22 11/05      Time Off: 12:32 11/05  
 Time On Bottom: 05:59 11/05      Time Off Bottom: 09:29 11/05

Recovered

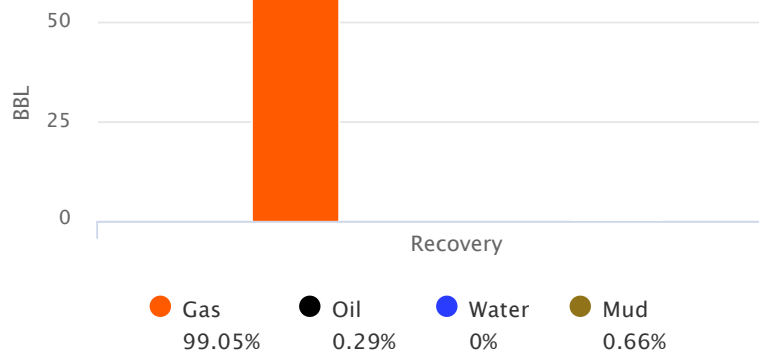
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
3963	56.1659536	G	100	0	0	0
30	0.1476	SLOCM	0	7	0	93
60	0.2952	OCGCM	25	25	0	50
60	0.2952	OCHMCG	42	28	0	30

Total Recovered: 4113 ft  
 Total Barrels Recovered: 56.9039536

Reversed Out  
 NO

Initial Hydrostatic Pressure	1987	PSI
Initial Flow	31 to 46	PSI
<b>Initial Closed in Pressure</b>	<b>1205</b>	<b>PSI</b>
Final Flow Pressure	42 to 129	PSI
<b>Final Closed in Pressure</b>	<b>1249</b>	<b>PSI</b>
Final Hydrostatic Pressure	1982	PSI
Temperature	121	°F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**



GIP cubic foot volume: 316.4542





**Company: Val Energy, Inc.**

**Lease: Thorne #1-19-20**

SEC: 19 TWN: 30S RNG: 12W  
County: BARBER  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 114  
Elevation: 1685 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 457  
API #: 15-007-24372

<p><b>Operation:</b> Uploading recovery &amp; pressures</p>
---------------------------------------------------------------------

<p><b>DATE</b> November <b>05</b> 2020</p>
--------------------------------------------------------

<b>DST #2</b>	<b>Formation: Miss</b>	<b>Test Interval: 4138 -</b>	<b>Total Depth: 4233'</b>
		<b>4233'</b>	
	Time On: 03:22 11/05	Time Off: 12:32 11/05	
	Time On Bottom: 05:59 11/05	Time Off Bottom: 09:29 11/05	

**BUCKET MEASUREMENT:**

1st Open: 1/4" Blow. BOB in 45 secs  
1st Close: 1/2" Blow Back  
2nd Open: BOB instantly  
2nd Close: 7" Blow Back

**REMARKS:**

Tool Sample: 0% Gas 97% Oil 0% Water 3% Mud



**Company: Val Energy, Inc.**  
**Lease: Thorne #1-19-20**

SEC: 19 TWN: 30S RNG: 12W  
 County: BARBER  
 State: Kansas  
 Drilling Contractor: Murfin Drilling  
 Company, Inc - Rig 114  
 Elevation: 1685 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 457  
 API #: 15-007-24372

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 November  
**05**  
 2020

**DST #2**      **Formation: Miss**      **Test Interval: 4138 - 4233'**      **Total Depth: 4233'**  
 Time On: 03:22 11/05      Time Off: 12:32 11/05  
 Time On Bottom: 05:59 11/05      Time Off Bottom: 09:29 11/05

**Down Hole Makeup**

<b>Heads Up:</b> 8.46 FT	<b>Packer 1:</b> 4132.74 FT
<b>Drill Pipe:</b> 3939.19 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4137.74 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4122.16 FT
<b>Collars:</b> 174.44 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4206 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 95.26	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 1 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 1 FT	
<b>Drill Pipe: (in anchor):</b> 63.76 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> .5 FT	
<b>Perforations: (below):</b> 28 FT <i>4 1/2-FH</i>	



**Company: Val Energy, Inc.**  
**Lease: Thorne #1-19-20**

SEC: 19 TWN: 30S RNG: 12W  
County: BARBER  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 114  
Elevation: 1685 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 457  
API #: 15-007-24372

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**05**  
2020

**DST #2**      **Formation: Miss**      **Test Interval: 4138 -**  
**4233'**      **Total Depth: 4233'**  
Time On: 03:22 11/05      Time Off: 12:32 11/05  
Time On Bottom: 05:59 11/05      Time Off Bottom: 09:29 11/05

**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.2      **Viscosity:** 57      **Filtrate:** 10.4      **Chlorides:** 7000 ppm



**Company: Val Energy, Inc.**  
**Lease: Thorne #1-19-20**

SEC: 19 TWN: 30S RNG: 12W  
County: BARBER  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 114  
Elevation: 1685 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 457  
API #: 15-007-24372

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**05**  
2020

**DST #2      Formation: Miss      Test Interval: 4138 -      Total Depth: 4233'**  
**4233'**  
Time On: 03:22 11/05      Time Off: 12:32 11/05  
Time On Bottom: 05:59 11/05      Time Off Bottom: 09:29 11/05

**Gas Volume Report**

**Remarks:** Caught gas sample 25 minutes into final shut in

1st Open

Time	Orifice	PSI	MCF/D
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2nd Open

Time	Orifice	PSI	MCF/D
60	0.0625	Too weak to measure	Weak

MCF/D



**Company: Val Energy, Inc.**  
**Lease: Thorne #1-19-20**

SEC: 19 TWN: 30S RNG: 12W  
 County: BARBER  
 State: Kansas  
 Drilling Contractor: Murfin Drilling  
 Company, Inc - Rig 114  
 Elevation: 1685 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 457  
 API #: 15-007-24372

**Operation:**  
 Uploading recovery &  
 pressures

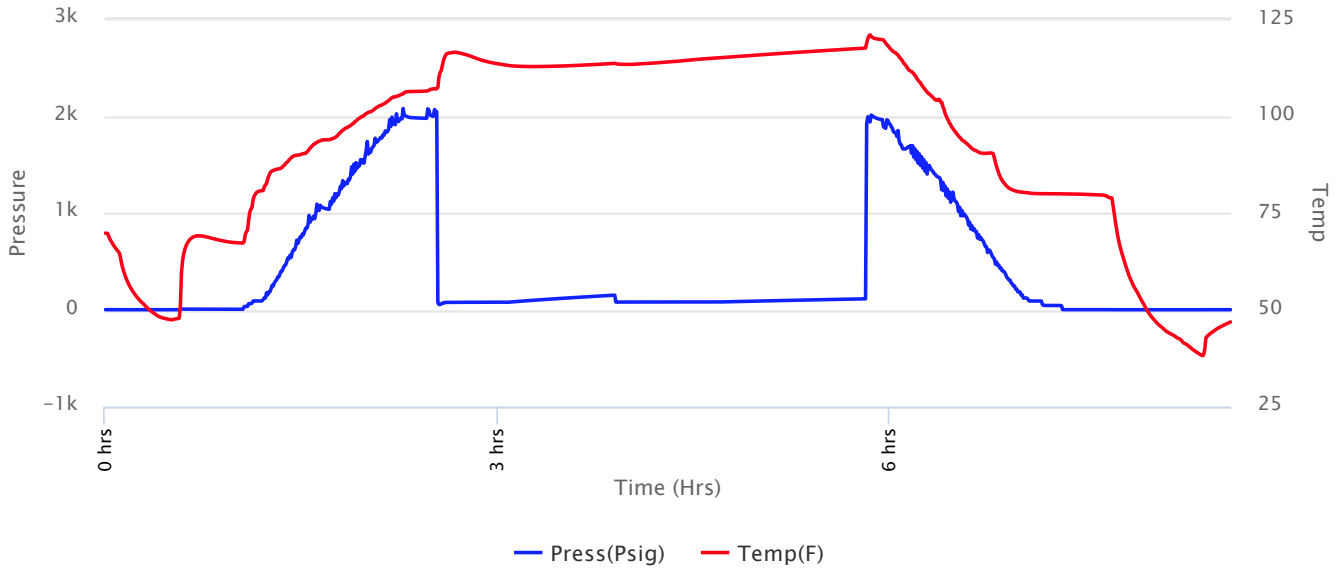
**DATE**  
 November  
**05**  
 2020

**DST #3      Formation: Miss      Test Interval: 4233 - 4287'      Total Depth: 4287'**  
 Time On: 21:14 11/05      Time Off: 05:36 11/06  
 Time On Bottom: 23:42 11/05      Time Off Bottom: 02:42 11/06

Electronic Volume  
 Estimate:  
 173'

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 30	Minutes: 45	Minutes: 45	Minutes: 60
Current Reading: 4.2" at 30 min	Current Reading: 0" at 45 min	Current Reading: 0" at 45 min	Current Reading: 0" at 60 min
Max Reading: 5.5"	Max Reading: 0"	Max Reading: .1"	Max Reading: 0"

Inside Recorder





**Company: Val Energy, Inc.**  
**Lease: Thorne #1-19-20**

SEC: 19 TWN: 30S RNG: 12W  
 County: BARBER  
 State: Kansas  
 Drilling Contractor: Murfin Drilling  
 Company, Inc - Rig 114  
 Elevation: 1685 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 457  
 API #: 15-007-24372

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 November  
**05**  
 2020

**DST #3**      **Formation: Miss**      **Test Interval: 4233 - 4287'**      **Total Depth: 4287'**  
 Time On: 21:14 11/05      Time Off: 05:36 11/06  
 Time On Bottom: 23:42 11/05      Time Off Bottom: 02:42 11/06

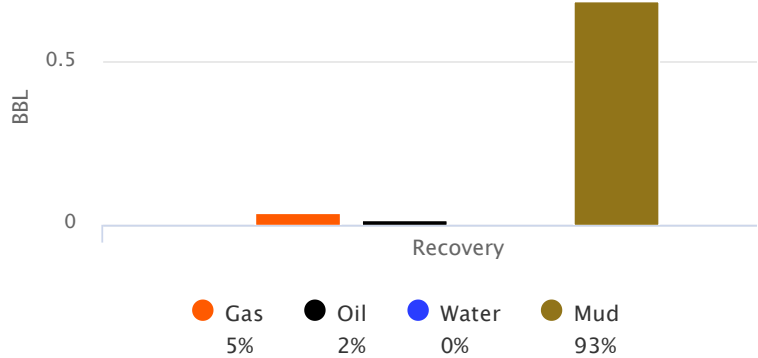
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
150	0.738	SLOCSLGCM	5	2	0	93

Total Recovered: 150 ft  
 Total Barrels Recovered: 0.738

Reversed Out  
 NO

Initial Hydrostatic Pressure	1974	PSI
Initial Flow	54 to 78	PSI
<b>Initial Closed in Pressure</b>	<b>150</b>	<b>PSI</b>
Final Flow Pressure	79 to 81	PSI
<b>Final Closed in Pressure</b>	<b>113</b>	<b>PSI</b>
Final Hydrostatic Pressure	1975	PSI
Temperature	118	°F
Pressure Change Initial Close / Final Close	24.9	%

**Recovery at a glance**



GIP cubic foot volume: 0.20718



**Company: Val Energy, Inc.**  
**Lease: Thorne #1-19-20**

SEC: 19 TWN: 30S RNG: 12W  
County: BARBER  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 114  
Elevation: 1685 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 457  
API #: 15-007-24372

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**05**  
2020

**DST #3      Formation: Miss      Test Interval: 4233 -      Total Depth: 4287'**  
**4287'**  
Time On: 21:14 11/05      Time Off: 05:36 11/06  
Time On Bottom: 23:42 11/05      Time Off Bottom: 02:42 11/06

**BUCKET MEASUREMENT:**

1st Open: 1/4" Blow. Built to 5 1/2 inches  
1st Close: NOBB  
2nd Open: Very Weak Blow. Blow died 15 mins in.  
2nd Close: NOBB

**REMARKS:**

Lost about 3 foot of fluid during the first opening. Added more weight and fixed the problem. No issue on the second opening.

Tool Sample: 5% Gas 2% Oil 0% Water 93% Mud



**Company: Val Energy, Inc.**  
**Lease: Thorne #1-19-20**

SEC: 19 TWN: 30S RNG: 12W  
 County: BARBER  
 State: Kansas  
 Drilling Contractor: Murfin Drilling  
 Company, Inc - Rig 114  
 Elevation: 1685 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 457  
 API #: 15-007-24372

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 November  
**05**  
 2020

**DST #3**      **Formation: Miss**      **Test Interval: 4233 - 4287'**      **Total Depth: 4287'**  
 Time On: 21:14 11/05      Time Off: 05:36 11/06  
 Time On Bottom: 23:42 11/05      Time Off Bottom: 02:42 11/06

**Down Hole Makeup**

<b>Heads Up:</b> 7.95 FT	<b>Packer 1:</b> 4228.12 FT
<b>Drill Pipe:</b> 4034.06 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4233.12 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4217.54 FT
<b>Collars:</b> 174.44 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4271 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 53.88	<b>Surface Choke:</b> 1"
<u><b>Anchor Makeup</b></u>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 2 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 1 FT	
<b>Drill Pipe: (in anchor):</b> 31.88 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> 1 FT	
<b>Perforations: (below):</b> 17 FT <i>4 1/2-FH</i>	





**Company: Val Energy, Inc.**  
**Lease: Thorne #1-19-20**

SEC: 19 TWN: 30S RNG: 12W  
County: BARBER  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 114  
Elevation: 1685 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 457  
API #: 15-007-24372

**Operation:**

Uploading recovery &  
pressures

**DATE**

November  
**05**  
2020

**DST #3      Formation: Miss      Test Interval: 4233 -      Total Depth: 4287'**  
**4287'**

Time On: 21:14 11/05

Time Off: 05:36 11/06

Time On Bottom: 23:42 11/05

Time Off Bottom: 02:42 11/06

**Mud Properties**

**Mud Type:** Vhem

**Weight:** 9.3

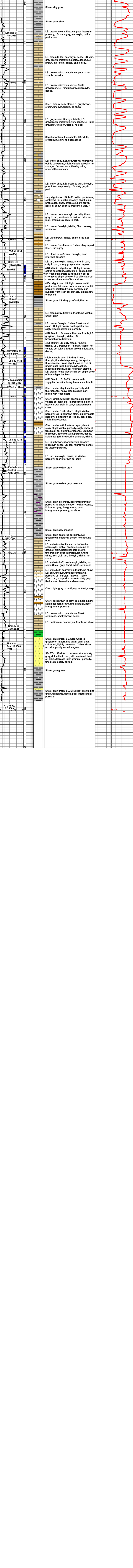
**Viscosity:** 57

**Filtrate:** 10.4

**Chlorides:** 5500 ppm







Shale: silty gray,

Shale: gray, slick

LS: gray to cream, finexyln, poor interxlyn porosity, LS: dark gray, microxlyn, oolitic packstone,

LS: cream to tan, microxlyn, dense, LS: dark gray brown, microxlyn, shaley, dense, LS: brown, microxlyn, dense. Shale: gray,

LS: brown, microxlyn, dense, poor to no visible porosity

LS: brown, microxlyn, dense, Shale: gray/green, LS: medium gray, microxlyn, dense.

Chert: smoky, semi clear, LS: gray/brown, cream, finexyln, friable, no show

LS: gray/cream, finexyln, friable, LS: gray/brown, microxlyn, very dense, LS: light gray/buff, finexyln, friable. no odor

Slight odor from the sample, LS: white, cryptoxlyn, chky, no fluorescence

LS: white, chky, LSL gray/brown, microxlyn, oolitic packstone, slight visible porosity, no show, no fluorescence, fleating odor, mineral fluorescence.

LS: white, chky, LS: cream to buff, finexyln, poor interxlyn porosity, LS: dirty gray in part.

very slight odor, LS: buff, oolitic, packstone, scattered, fair oolitic porosity, slight stain, broke slight show of free oil, light brown lazy oil show, poor fluorescence, wet??

LS: cream, poor interxlyn porosity, Chert: gray to tan, semitrans in part, no odor, sct, mott, cream/gray, chky in part.

LS: cream, finexyln, friable, Chert: smoky, semi clear

LS: Dark brown, dense, Shale: gray, LS: chky

LS: cream, fossiliferous, friable, chky in part, Chert: dirty gray

LS: blond to tan/cream, finexyln, poor interxlyn porosity,

LS: tan, microxlyn, dense, cherty in part, chky in part, spotty gray-mottled in part

4046 45 min: slight odor, LS: light brown, oolitic packstone, slight stain, gas bubbles on fresh cut sample surface, slow cut to strong cut, slight show of free oil scattered strain, small amount of black shale.

4054: slight odor, LS: light brown, oolitic packstone, fair stain, poor to fair inter oolitic porosity, scattered vuggy porosity, gas bubbles from fresh cut surface, slight show of free oil,

Shale: gray, LS: dirty gray/buff, finexln

LS: cream/gray, finexyln, friable, no visible, Shale: gray

LS: cream, finexyln, friable, Chert: semi clear, LS: light brown, oolitic packstone, slight visible oolmoldic porosity

4128 20 min: LS: cream, finexyln, friable, LS: gray/buff, finexyln, friable, LS: brownish/gray, finexyln.

4128 50 min: LS: dirty cream, finexyln, friable, LSL cream/buff, finexyln, friable, no visible porosity, LS: dark brown, microxlyn, dense,

slight sample odor, LS: dirty Cream, finexyln, fine visible porosity, fair spotty fluorescence, broke slight show of free oil under black light, LS: finexyln, oolitic, pinpoint porosity, black to brown stained, LS: cream, heavy black stain, sct slight show of free oil.gas bubbles

4192 30 min. LS: Buff to cream, with vuggular porosity, heavy black stain, friable.

Chert: white, slight visible porosity, dull fluorescence, heavy black stain in part mixed with fresh chert.

Chert: White, with light brown stain, slight visible porosity, dull fluorescence, black to heavy brown stain in part, scattered fresh chert.

Chert: white, fresh, sharp, slight visible porosity, slight show of free oil, light odor. slight fluorescence.

Chert: white, with fractured spotty black stain, slight visible porosity, slight show of free black oil, slight fluorescence, LS: bown microxlyn, poor interxlyn, porosity, dense, Dolomite: lighth brown, fine granular, friable,

LS: light brown, poor interxlyn porosity, microxlyn dense, LS: tan, microxlyn, dense, no visible porosity,

LS: tan, microxlyn, dense, no visible porosity, poor interxlyn porosity.

Shale: gray to dark gray

Shale: gray to dark gray, massive

Shale: gray, dolomitic, poor intergranular porosity, no show, no odor, no fluorescence, Dolomite: gray, fine granular, poor intergranular porosity, no show,

Shale: gray silty, massive

Shale: gray, scattered dark gray, LS: gray/brown, microyln, dense, no show, no odor,

LS: white to offwhite, and or buff/white, coarsexlyn, friable, scattered, streaks of dead oil stain, Dolomite: dark brown, finegranular, poor intergranular, Chert: white, fresh, LS: tan, finexyln, friable, no show

LS: white to buff, mediumxlyn, friable, no show, Shale: gray, Chert: white, semiclear,

LS: white/buff, coarsexlyn, friable, no show, LS: buff, finexyln, firm poor interxlyn, porosity, LS: buff/tan, finexyln, friable, Chert: tan, sharp with brown to dirty gray, flects, one piece with surface stain.

Chert: light gray to buff/gray, mottled, sharp

Chert: dark brown to gray, dolomitic in part. Dolomite: dark brown, fine granular, poor intergranular porosity

LS: brown, microxlyn, dense, Chert: semitrans, smoky brown flects

LS: buff/cream, coarsexlyn, friable, no show,

Shale: blue green, SD, STN: white to gray/green in part, fine grain, semi clear, subround, lightly cemented, friable, show, no odor, poorly sorted, angular.

SD, STN: off white to brown scattered dirty gray, dolomitic in part, with scattered dead oil stain, decrease inter granular porosity, fine grain, poorly sorted,

Shale: gray green

Shale: gray/green, SD, STN: light brown, fine grain, galconitic, dense, poor intergranular porosity

10. C1C5

10. C1C5

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