

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 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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Form	ACO1 - Well Completion
Operator	Satchell Creek Petroleum, LLC
Well Name	CATHEDRAL A-1
Doc ID	1713131

All Electric Logs Run

DI
Sonic
PE
Micro

Sean Deenihan

Petroleum Geologist

GEOLOGIST'S REPORT

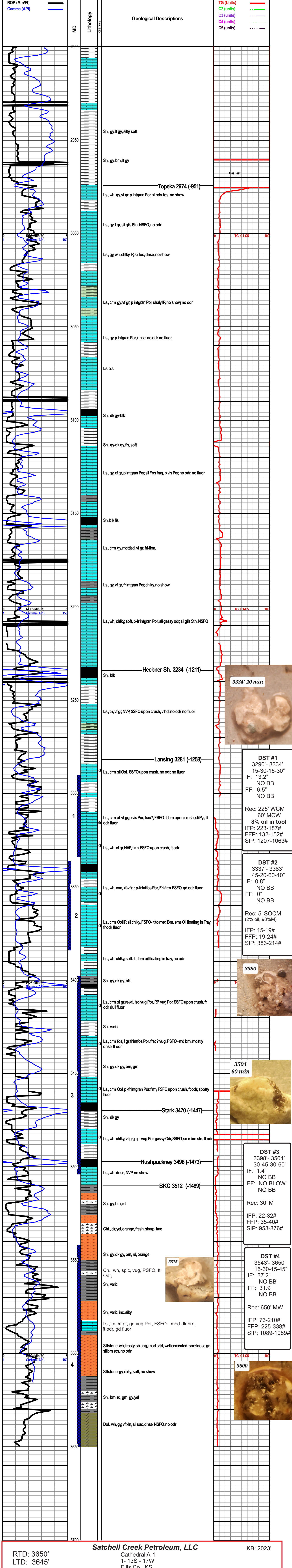
DRILLING TIME AND SAMPLE LOG

COMPANY	Satchell Creek Petroleum, LLC.	ELEVATIONS	KB 2023'
LEASE	Cathedral #A-1	DF	
FIELD	Catherine	GL	2016'
LOCATION	2060' FSL & 425' FEL	Measurements Are All From Kelly Bushing	
SEC	1 TWSP 13 S RGE 17 W	CASING	CONDUCTOR SURFACE 8-5/8" at 264' PRODUCTION 5.5"
COUNTY	Ellis STATE Kansas		
CONTRACTOR	Feature Drilling Rig #1		
SPUD	1/17/23 COMP 1/17/23		
RTD	3650' LTD 3645'		
MUD UP	TYPE MUD Chemical		
SAMPLES SAVED FROM	3000' TO RTD		
DRILLING TIME KEPT FROM	3000' TO RTD		
SAMPLES EXAMINED FROM	3000' TO RTD		
GEOLOGICAL SUPERVISION FROM	2950'		
REFERENCE WELL	CND/DIL MIC/SON		

REMARKS Based on sample, log, and DST analysis, the Cathedral #A-1 will be further evaluated through production casing.

Respectfully Submitted,

Sean P. Deenihan



RTD: 3650'
LTD: 3645'

Satchell Creek Petroleum, LLC
Cathedral A-1
1- 13S - 17W
Ellis Co., KS

KB: 2023'



**Company: Satchell Creek
Petroleum, LLC
Lease: Cathedral #A-1**

SEC: 1 TWN: 13S RNG: 17W
County: ELLIS
State: Kansas
Drilling Contractor: Feature Drilling
LLC - Rig 1
Elevation: 2016 GL
Field Name: Catharine
Pool: Pool Ext
Job Number: 635
API #: 15-051-27057

Operation:
Well Complete

DATE
January
13
2023

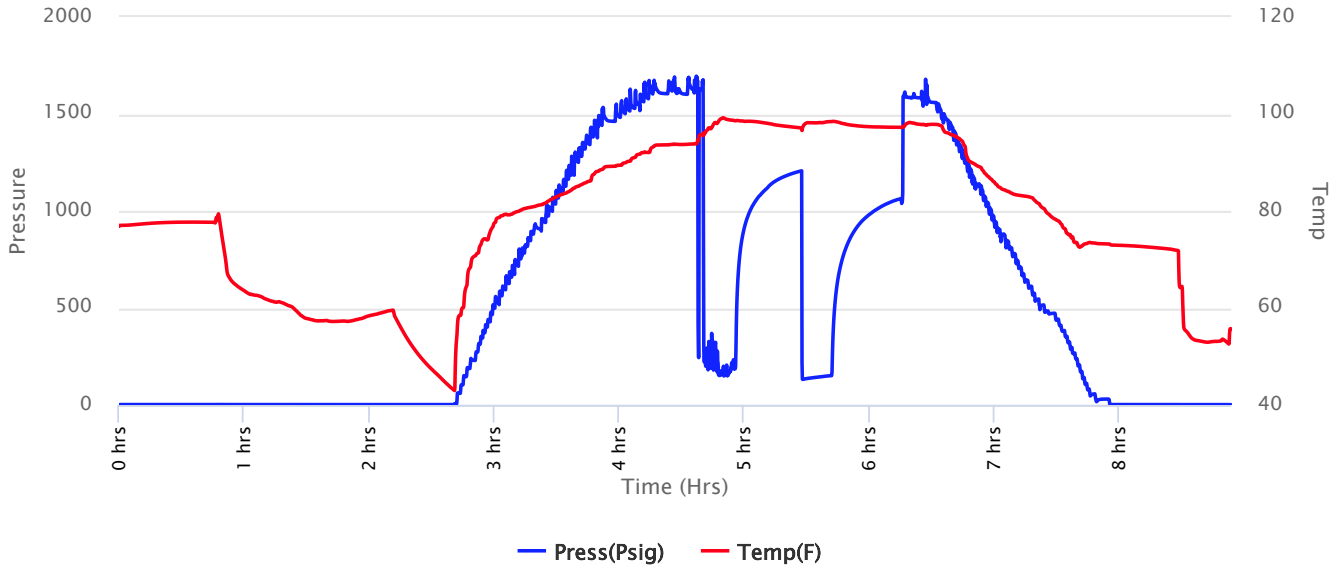
DST #1 Formation: Lans "B-D" Test Interval: 3290 - 3334' Total Depth: 3334'

Time On: 05:45 01/13 Time Off: 14:32 01/13
Time On Bottom: 10:18 01/13 Time Off Bottom: 11:48 01/13

Electronic Volume
Estimate:
223'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 15	Minutes: 30	Minutes: 15	Minutes: 30
Current Reading: 13.2" at 15 min	Current Reading: 0" at 30 min	Current Reading: 6.5" at 15 min	Current Reading: 0" at 30 min
Max Reading: 13.2"	Max Reading: 0"	Max Reading: 6.5"	Max Reading: 0"

Inside Recorder





**Company: Satchell Creek
Petroleum, LLC
Lease: Cathedral #A-1**

SEC: 1 TWN: 13S RNG: 17W
County: ELLIS
State: Kansas
Drilling Contractor: Feature Drilling
LLC - Rig 1
Elevation: 2016 GL
Field Name: Catharine
Pool: Pool Ext
Job Number: 635
API #: 15-051-27057

Operation:
Well Complete

DATE
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DST #1 **Formation: Lans "B-D"** **Test Interval: 3290 - 3334'** **Total Depth: 3334'**
Time On: 05:45 01/13 Time Off: 14:32 01/13
Time On Bottom: 10:18 01/13 Time Off Bottom: 11:48 01/13

Recovered

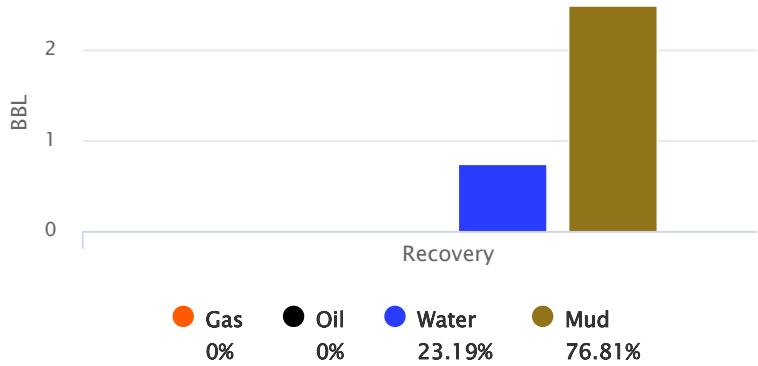
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
35	0.49805	WCM	0	0	20	80
190	2.4454406	WCM	0	0	20	80
60	0.2952	HMCW	0	0	55	45

Total Recovered: 285 ft
Total Barrels Recovered: 3.2386906

Reversed Out
NO

Initial Hydrostatic Pressure	1677	PSI
Initial Flow	223 to 187	PSI
Initial Closed in Pressure	1207	PSI
Final Flow Pressure	132 to 152	PSI
Final Closed in Pressure	1063	PSI
Final Hydrostatic Pressure	1593	PSI
Temperature	99	°F
Pressure Change Initial Close / Final Close	11.9	%

Recovery at a glance



GIP cubic foot volume: 0



**Company: Satchell Creek
Petroleum, LLC
Lease: Cathedral #A-1**

SEC: 1 TWN: 13S RNG: 17W
County: ELLIS
State: Kansas
Drilling Contractor: Feature Drilling
LLC - Rig 1
Elevation: 2016 GL
Field Name: Catharine
Pool: Pool Ext
Job Number: 635
API #: 15-051-27057

Operation:
Well Complete

DATE
January
13
2023

**DST #1 Formation: Lans "B-
D" Test Interval: 3290 - Total Depth: 3334'**
3334'
Time On: 05:45 01/13 Time Off: 14:32 01/13
Time On Bottom: 10:18 01/13 Time Off Bottom: 11:48 01/13

BUCKET MEASUREMENT:

1st Open: 3 1/2 in. blow building. BOB in 11 mins. 15 secs.

1st Close: No blow back.

2nd Open: 1 in. blow building to 6 ins.

2nd Close: No blow back.

REMARKS:

Tool slid 10 ft.

Tool Sample: 0% Gas 8% Oil 82% Water 10% Mud

Ph: 7

Measured RW: .38 @ 58 degrees °F

RW at Formation Temp: 0.233 @ 99 °F

Chlorides: 21,000 ppm



**Company: Satchell Creek
Petroleum, LLC
Lease: Cathedral #A-1**

SEC: 1 TWN: 13S RNG: 17W
County: ELLIS
State: Kansas
Drilling Contractor: Feature Drilling
LLC - Rig 1
Elevation: 2016 GL
Field Name: Catharine
Pool: Pool Ext
Job Number: 635
API #: 15-051-27057

Operation:
Well Complete

DATE
January
13
2023

DST #1 **Formation: Lans "B-D"** **Test Interval: 3290 - 3334'** **Total Depth: 3334'**
Time On: 05:45 01/13 Time Off: 14:32 01/13
Time On Bottom: 10:18 01/13 Time Off Bottom: 11:48 01/13

Down Hole Makeup

Heads Up: 19.53 FT	Packer 1: 3284.5 FT
Drill Pipe: 3188.22 FT <i>ID-3 1/2</i>	Packer 2: 3290 FT
Weight Pipe: FT	Top Recorder: 3273.42 FT
Collars: 87.74 FT <i>ID-2 1/4</i>	Bottom Recorder: 3292 FT
Test Tool: 34.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 44	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3 1/2</i>	
Change Over: FT	
Perforations: (below): 43 FT <i>4 1/2-FH</i>	



**Company: Satchell Creek
Petroleum, LLC
Lease: Cathedral #A-1**

SEC: 1 TWN: 13S RNG: 17W
County: ELLIS
State: Kansas
Drilling Contractor: Feature Drilling
LLC - Rig 1
Elevation: 2016 GL
Field Name: Catharine
Pool: Pool Ext
Job Number: 635
API #: 15-051-27057

Operation:
Well Complete

DATE
January
13
2023

DST #1 **Formation: Lans "B-D"** **Test Interval: 3290 - 3334'** **Total Depth: 3334'**
Time On: 05:45 01/13 Time Off: 14:32 01/13
Time On Bottom: 10:18 01/13 Time Off Bottom: 11:48 01/13

Mud Properties

Mud Type: Chemical **Weight:** 9.4 **Viscosity:** 45 **Filtrate:** 12.8 **Chlorides:** 12,000 ppm



**Company: Satchell Creek
Petroleum, LLC
Lease: Cathedral #A-1**

SEC: 1 TWN: 13S RNG: 17W
County: ELLIS
State: Kansas
Drilling Contractor: Feature Drilling
LLC - Rig 1
Elevation: 2016 GL
Field Name: Catharine
Pool: Pool Ext
Job Number: 635
API #: 15-051-27057

Operation:
Well Complete

DATE
January
14
2023

**DST #2 Formation: Lans "E-
G" Test Interval: 3337 -
3383' Total Depth: 3383'**

Time On: 01:13 01/14 Time Off: 11:29 01/14
Time On Bottom: 07:01 01/14 Time Off Bottom: 09:01 01/14

Electronic Volume
Estimate:
20'

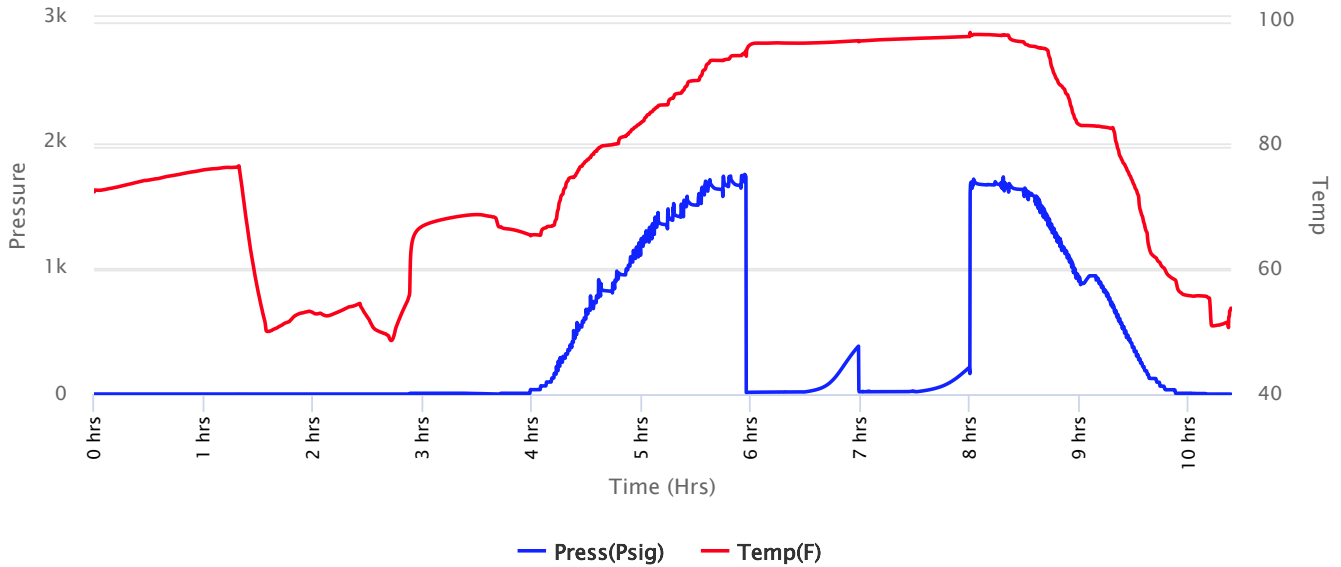
1st Open
Minutes: 30
Current Reading:
0" at 30 min
Max Reading: .8"

1st Close
Minutes: 30
Current Reading:
0" at 30 min
Max Reading: 0"

2nd Open
Minutes: 30
Current Reading:
0" at 30 min
Max Reading: 0"

2nd Close
Minutes: 30
Current Reading:
0" at 30 min
Max Reading: 0"

Inside Recorder





**Company: Satchell Creek
Petroleum, LLC
Lease: Cathedral #A-1**

SEC: 1 TWN: 13S RNG: 17W
County: ELLIS
State: Kansas
Drilling Contractor: Feature Drilling
LLC - Rig 1
Elevation: 2016 GL
Field Name: Catharine
Pool: Pool Ext
Job Number: 635
API #: 15-051-27057

Operation:
Well Complete

DATE
January
14
2023

DST #2 **Formation: Lans "E-
G"** **Test Interval: 3337 -
3383'** **Total Depth: 3383'**

Time On: 01:13 01/14 Time Off: 11:29 01/14
Time On Bottom: 07:01 01/14 Time Off Bottom: 09:01 01/14

Recovered

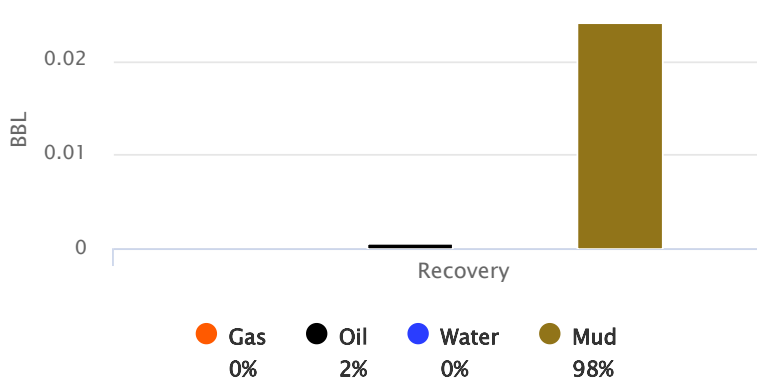
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
5	0.0246	SLOCM	0	2	0	98

Total Recovered: 5 ft
Total Barrels Recovered: 0.0246

Reversed Out
NO

Initial Hydrostatic Pressure	1749	PSI
Initial Flow	15 to 19	PSI
Initial Closed in Pressure	383	PSI
Final Flow Pressure	19 to 214	PSI
Final Closed in Pressure	214	PSI
Final Hydrostatic Pressure	1667	PSI
Temperature	98	°F
Pressure Change Initial Close / Final Close	44.2	%

Recovery at a glance



GIP cubic foot volume: 0



**Company: Satchell Creek
Petroleum, LLC
Lease: Cathedral #A-1**

SEC: 1 TWN: 13S RNG: 17W
County: ELLIS
State: Kansas
Drilling Contractor: Feature Drilling
LLC - Rig 1
Elevation: 2016 GL
Field Name: Catharine
Pool: Pool Ext
Job Number: 635
API #: 15-051-27057

Operation:
Well Complete

DATE
January
14
2023

DST #2 **Formation: Lans "E-
G"** **Test Interval: 3337 -
3383'** **Total Depth: 3383'**

Time On: 01:13 01/14 Time Off: 11:29 01/14
Time On Bottom: 07:01 01/14 Time Off Bottom: 09:01 01/14

Down Hole Makeup

Heads Up: 12.58 FT	Packer 1: 3331.5 FT
Drill Pipe: 3228.27 FT <i>ID-3 1/2</i>	Packer 2: 3337 FT
Weight Pipe: FT	Top Recorder: 3320.42 FT
Collars: 87.74 FT <i>ID-2 1/4</i>	Bottom Recorder: 3339 FT
Test Tool: 34.57 FT <i>ID-3 1/2-FH Jars Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 46	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3 1/2</i>	
Change Over: FT	
Perforations: (below): 45 FT <i>4 1/2-FH</i>	



**Company: Satchell Creek
Petroleum, LLC
Lease: Cathedral #A-1**

SEC: 1 TWN: 13S RNG: 17W
County: ELLIS
State: Kansas
Drilling Contractor: Feature Drilling
LLC - Rig 1
Elevation: 2016 GL
Field Name: Catharine
Pool: Pool Ext
Job Number: 635
API #: 15-051-27057

Operation:
Well Complete

DATE
January
14
2023

DST #2 **Formation: Lans "E-
G"** **Test Interval: 3337 -
3383'** **Total Depth: 3383'**
Time On: 01:13 01/14 Time Off: 11:29 01/14
Time On Bottom: 07:01 01/14 Time Off Bottom: 09:01 01/14

Mud Properties

Mud Type: Chemical **Weight:** 9.3 **Viscosity:** 47 **Filtrate:** 12.8 **Chlorides:** 12,000 ppm



**Company: Satchell Creek
Petroleum, LLC
Lease: Cathedral #A-1**

SEC: 1 TWN: 13S RNG: 17W
County: ELLIS
State: Kansas
Drilling Contractor: Feature Drilling
LLC - Rig 1
Elevation: 2016 GL
Field Name: Catharine
Pool: Pool Ext
Job Number: 635
API #: 15-051-27057

Operation:
Well Complete

DATE
January
15
2023

**DST #3 Formation: Lans "I-
L" Test Interval: 3398 -
3504' Total Depth: 3504'**

Time On: 09:30 01/15 Time Off: 01:19 01/16
Time On Bottom: 17:39 01/15 Time Off Bottom: 20:24 01/15

Electronic Volume
Estimate:
36'

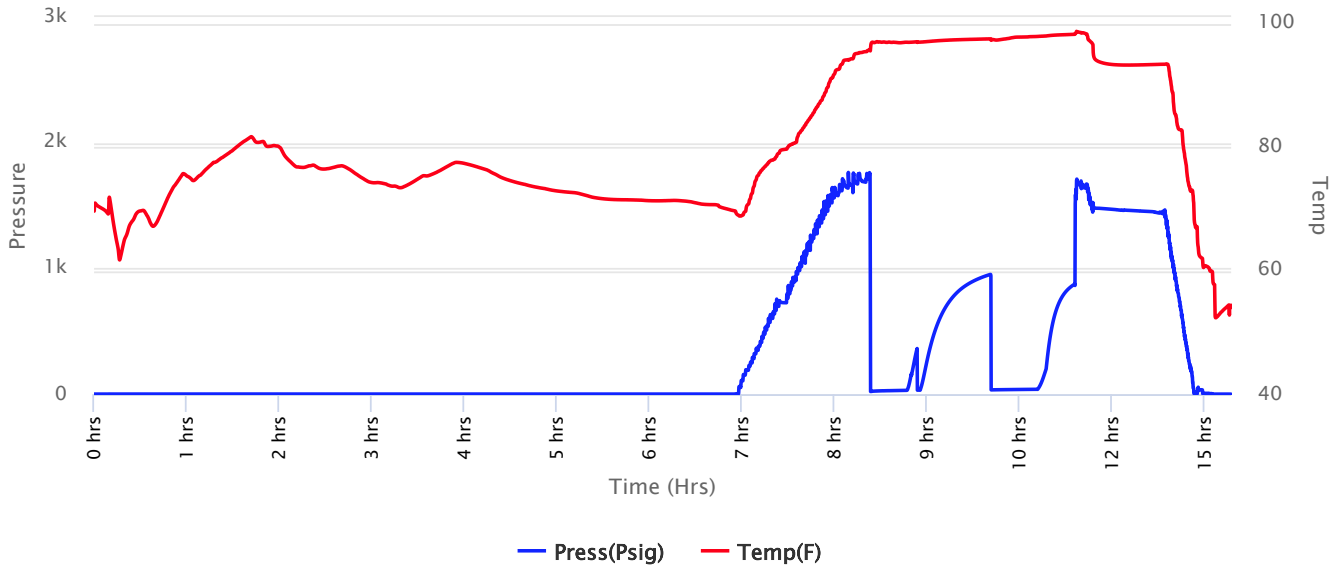
1st Open
Minutes: 30
Current Reading:
1" at 30 min
Max Reading: 1.4"

1st Close
Minutes: 45
Current Reading:
0" at 45 min
Max Reading: 0"

2nd Open
Minutes: 30
Current Reading:
0" at 30 min
Max Reading: 0"

2nd Close
Minutes: 60
Current Reading:
0" at 60 min
Max Reading: 0"

Inside Recorder





**Company: Satchell Creek
Petroleum, LLC
Lease: Cathedral #A-1**

SEC: 1 TWN: 13S RNG: 17W
County: ELLIS
State: Kansas
Drilling Contractor: Feature Drilling
LLC - Rig 1
Elevation: 2016 GL
Field Name: Catharine
Pool: Pool Ext
Job Number: 635
API #: 15-051-27057

Operation:
Well Complete

DATE
January
15
2023

DST #3 **Formation: Lans "I-
L"** **Test Interval: 3398 -
3504'** **Total Depth: 3504'**

Time On: 09:30 01/15 Time Off: 01:19 01/16
Time On Bottom: 17:39 01/15 Time Off Bottom: 20:24 01/15

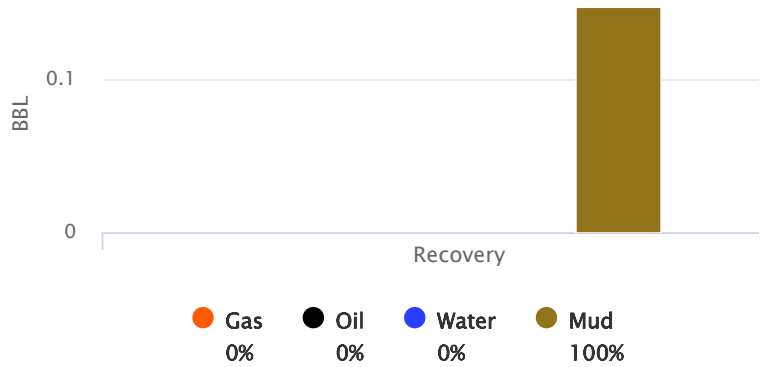
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
30	0.1476	M	0	0	0	100

Total Recovered: 30 ft
Total Barrels Recovered: 0.1476

Reversed Out
NO

Recovery at a glance



Initial Hydrostatic Pressure	1716	PSI
Initial Flow	22 to 32	PSI
Initial Closed in Pressure	953	PSI
Final Flow Pressure	35 to 40	PSI
Final Closed in Pressure	876	PSI
Final Hydrostatic Pressure	1671	PSI
Temperature	99	°F
Pressure Change Initial Close / Final Close	8.0	%

GIP cubic foot volume: 0



**Company: Satchell Creek
Petroleum, LLC
Lease: Cathedral #A-1**

SEC: 1 TWN: 13S RNG: 17W
County: ELLIS
State: Kansas
Drilling Contractor: Feature Drilling
LLC - Rig 1
Elevation: 2016 GL
Field Name: Catharine
Pool: Pool Ext
Job Number: 635
API #: 15-051-27057

Operation:
Well Complete

DATE
January
15
2023

**DST #3 Formation: Lans "I-
L" Test Interval: 3398 - Total Depth: 3504'**
Time On: 09:30 01/15 Time Off: 01:19 01/16
Time On Bottom: 17:39 01/15 Time Off Bottom: 20:24 01/15

BUCKET MEASUREMENT:

1st Open: 3/4 in. blow building to 1 1/4 ins. Died back to 3/4 in.
1st Close: No blow back.
2nd Open: No blow.
2nd Close: No blow back.

REMARKS:

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud



**Company: Satchell Creek
Petroleum, LLC
Lease: Cathedral #A-1**

SEC: 1 TWN: 13S RNG: 17W
County: ELLIS
State: Kansas
Drilling Contractor: Feature Drilling
LLC - Rig 1
Elevation: 2016 GL
Field Name: Catharine
Pool: Pool Ext
Job Number: 635
API #: 15-051-27057

Operation:
Well Complete

DATE
January
15
2023

**DST #3 Formation: Lans "I-
L" Test Interval: 3398 - Total Depth: 3504'**
3504'
Time On: 09:30 01/15 Time Off: 01:19 01/16
Time On Bottom: 17:39 01/15 Time Off Bottom: 20:24 01/15

Down Hole Makeup

Heads Up: 10.07 FT	Packer 1: 3392.5 FT
Drill Pipe: 3286.76 FT <i>ID-3 1/2</i>	Packer 2: 3398 FT
Weight Pipe: FT	Top Recorder: 3381.42 FT
Collars: 87.74 FT <i>ID-2 1/4</i>	Bottom Recorder: 3502 FT
Test Tool: 34.57 FT <i>ID-3 1/2-FH Jars Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 106	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 38 FT <i>4 1/2-FH</i>	
Change Over: .5 FT	
Drill Pipe: (in anchor): 63 FT <i>ID-3 1/2</i>	
Change Over: .5 FT	
Perforations: (below): 3 FT <i>4 1/2-FH</i>	



**Company: Satchell Creek
Petroleum, LLC
Lease: Cathedral #A-1**

SEC: 1 TWN: 13S RNG: 17W
County: ELLIS
State: Kansas
Drilling Contractor: Feature Drilling
LLC - Rig 1
Elevation: 2016 GL
Field Name: Catharine
Pool: Pool Ext
Job Number: 635
API #: 15-051-27057

Operation:
Well Complete

DATE
January
15
2023

DST #3 **Formation: Lans "I-
L"** **Test Interval: 3398 -
3504'** **Total Depth: 3504'**
Time On: 09:30 01/15 Time Off: 01:19 01/16
Time On Bottom: 17:39 01/15 Time Off Bottom: 20:24 01/15

Mud Properties

Mud Type: Chemical **Weight:** 9.3 **Viscosity:** 42 **Filtrate:** 12.8 **Chlorides:** 18,000 ppm



**Company: Satchell Creek
Petroleum, LLC
Lease: Cathedral #A-1**

SEC: 1 TWN: 13S RNG: 17W
County: ELLIS
State: Kansas
Drilling Contractor: Feature Drilling
LLC - Rig 1
Elevation: 2016 GL
Field Name: Catharine
Pool: Pool Ext
Job Number: 635
API #: 15-051-27057

Operation:
Well Complete

DATE
January
17
2023

DST #4 **Formation: Conglomerate** **Test Interval: 3543 - 3650'** **Total Depth: 3650'**
Time On: 00:49 01/17 Time Off: 08:41 01/17
Time On Bottom: 03:52 01/17 Time Off Bottom: 05:37 01/17

Electronic Volume
Estimate:
664'

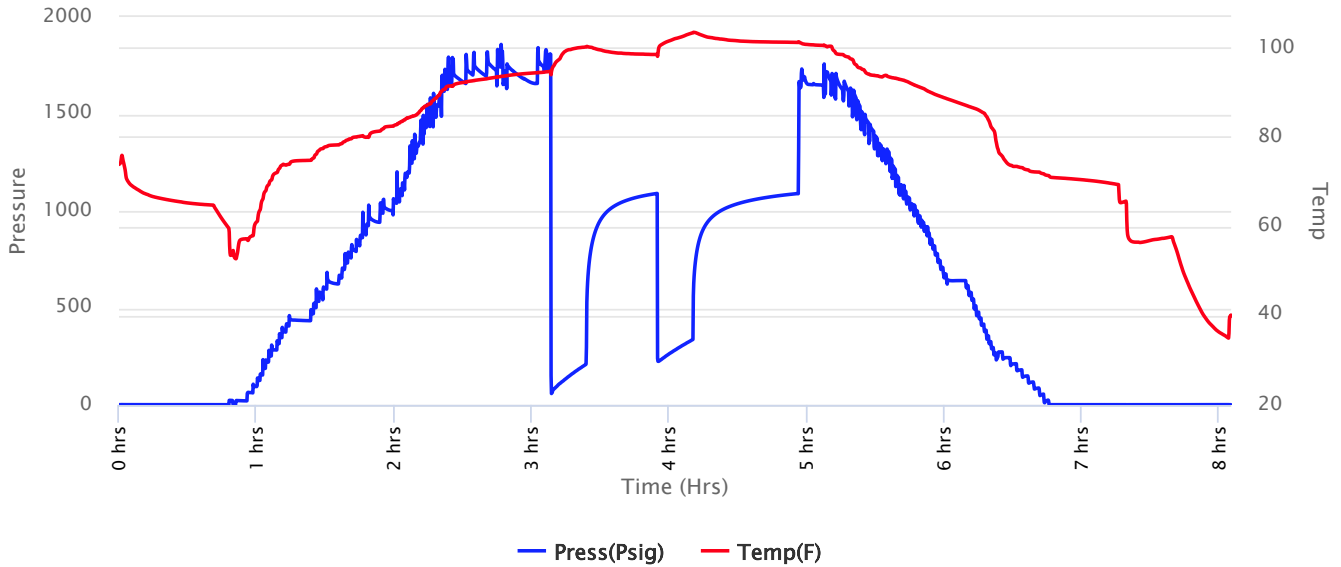
1st Open
Minutes: 15
Current Reading:
37.2" at 15 min
Max Reading: 37.2"

1st Close
Minutes: 30
Current Reading:
0" at 30 min
Max Reading: 0"

2nd Open
Minutes: 15
Current Reading:
31.9" at 15 min
Max Reading: 31.9"

2nd Close
Minutes: 45
Current Reading:
0" at 45 min
Max Reading: 0"

Inside Recorder





**Company: Satchell Creek
Petroleum, LLC
Lease: Cathedral #A-1**

SEC: 1 TWN: 13S RNG: 17W
County: ELLIS
State: Kansas
Drilling Contractor: Feature Drilling
LLC - Rig 1
Elevation: 2016 GL
Field Name: Catharine
Pool: Pool Ext
Job Number: 635
API #: 15-051-27057

Operation:
Well Complete

DATE
January
17
2023

DST #4 **Formation: Conglomerate** **Test Interval: 3543 - 3650'** **Total Depth: 3650'**
Time On: 00:49 01/17 Time Off: 08:41 01/17
Time On Bottom: 03:52 01/17 Time Off Bottom: 05:37 01/17

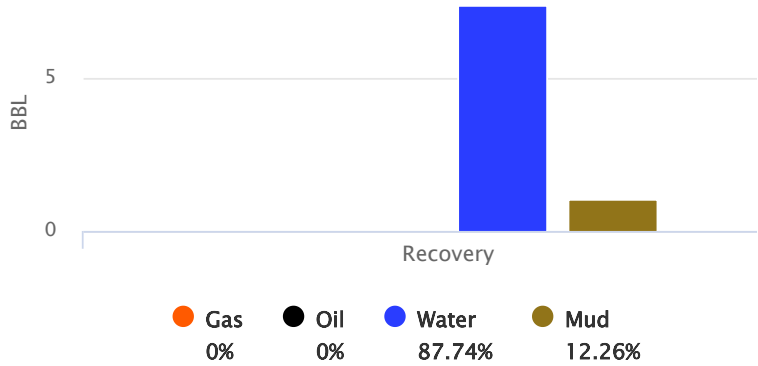
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
73	1.03879	HWCM	0	0	45	55
514	7.0838906	SLMCW	0	0	95	5
63	0.30996	HMCW	0	0	65	35

Total Recovered: 650 ft
Total Barrels Recovered: 8.4326406

Reversed Out
NO

Recovery at a glance



Initial Hydrostatic Pressure	1808	PSI
Initial Flow	73 to 210	PSI
Initial Closed in Pressure	1089	PSI
Final Flow Pressure	225 to 338	PSI
Final Closed in Pressure	1089	PSI
Final Hydrostatic Pressure	1733	PSI
Temperature	104	°F
Pressure Change Initial Close / Final Close	0.0	%

GIP cubic foot volume: 0



**Company: Satchell Creek
Petroleum, LLC
Lease: Cathedral #A-1**

SEC: 1 TWN: 13S RNG: 17W
County: ELLIS
State: Kansas
Drilling Contractor: Feature Drilling
LLC - Rig 1
Elevation: 2016 GL
Field Name: Catharine
Pool: Pool Ext
Job Number: 635
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Operation:
Well Complete

DATE
January
17
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DST #4	Formation: Conglomerate	Test Interval: 3543 - 3650'	Total Depth: 3650'
	Time On: 00:49 01/17	Time Off: 08:41 01/17	
	Time On Bottom: 03:52 01/17	Time Off Bottom: 05:37 01/17	

BUCKET MEASUREMENT:

1st Open: BOB in 3 mins. 6 secs.
1st Close: No blow back.
2nd Open: BOB in 4 mins. 8 secs.
2nd Close: No blow back.

REMARKS:

Tool Sample: 0% Gas 0% Oil 100% Water 0% Mud

Ph: 7

Measured RW: .69 @ 32 degrees °F

RW at Formation Temp: 0.242 @ 104 °F

Chlorides: 19,100 ppm



**Company: Satchell Creek
Petroleum, LLC
Lease: Cathedral #A-1**

SEC: 1 TWN: 13S RNG: 17W
County: ELLIS
State: Kansas
Drilling Contractor: Feature Drilling
LLC - Rig 1
Elevation: 2016 GL
Field Name: Catharine
Pool: Pool Ext
Job Number: 635
API #: 15-051-27057

Operation:
Well Complete

DATE
January
17
2023

DST #4 **Formation:** Conglomerate **Test Interval: 3543 - 3650'** **Total Depth: 3650'**
Time On: 00:49 01/17 Time Off: 08:41 01/17
Time On Bottom: 03:52 01/17 Time Off Bottom: 05:37 01/17

Down Hole Makeup

Heads Up: 21.2 FT	Packer 1: 3537.5 FT
Drill Pipe: 3442.89 FT <i>ID-3 1/2</i>	Packer 2: 3543 FT
Weight Pipe: FT	Top Recorder: 3526.42 FT
Collars: 87.74 FT <i>ID-2 1/4</i>	Bottom Recorder: 3648 FT
Test Tool: 34.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 107	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 39 FT <i>4 1/2-FH</i>	
Change Over: .5 FT	
Drill Pipe: (in anchor): 63 FT <i>ID-3 1/2</i>	
Change Over: .5 FT	
Perforations: (below): 3 FT <i>4 1/2-FH</i>	



**Company: Satchell Creek
Petroleum, LLC
Lease: Cathedral #A-1**

SEC: 1 TWN: 13S RNG: 17W
County: ELLIS
State: Kansas
Drilling Contractor: Feature Drilling
LLC - Rig 1
Elevation: 2016 GL
Field Name: Catharine
Pool: Pool Ext
Job Number: 635
API #: 15-051-27057

Operation:
Well Complete

DATE
January
17
2023

DST #4 **Formation:** **Test Interval: 3543 -** **Total Depth: 3650'**
Conglomerate **3650'**
Time On: 00:49 01/17 Time Off: 08:41 01/17
Time On Bottom: 03:52 01/17 Time Off Bottom: 05:37 01/17

Mud Properties

Mud Type: Chemical **Weight:** 9.3 **Viscosity:** 47 **Filtrate:** 12.8 **Chlorides:** 18,000 ppm



**Company: Satchell Creek
Petroleum, LLC
Lease: Cathedral #A-1**

SEC: 1 TWN: 13S RNG: 17W
County: ELLIS
State: Kansas
Drilling Contractor: Feature Drilling
LLC - Rig 1
Elevation: 2016 GL
Field Name: Catharine
Pool: Pool Ext
Job Number: 635
API #: 15-051-27057

Operation:
Well Complete

DATE
January
17
2023

DST #4 **Formation:** Conglomerate **Test Interval:** 3543 - 3650' **Total Depth:** 3650'
Time On: 00:49 01/17 Time Off: 08:41 01/17
Time On Bottom: 03:52 01/17 Time Off Bottom: 05:37 01/17

Gas Volume Report

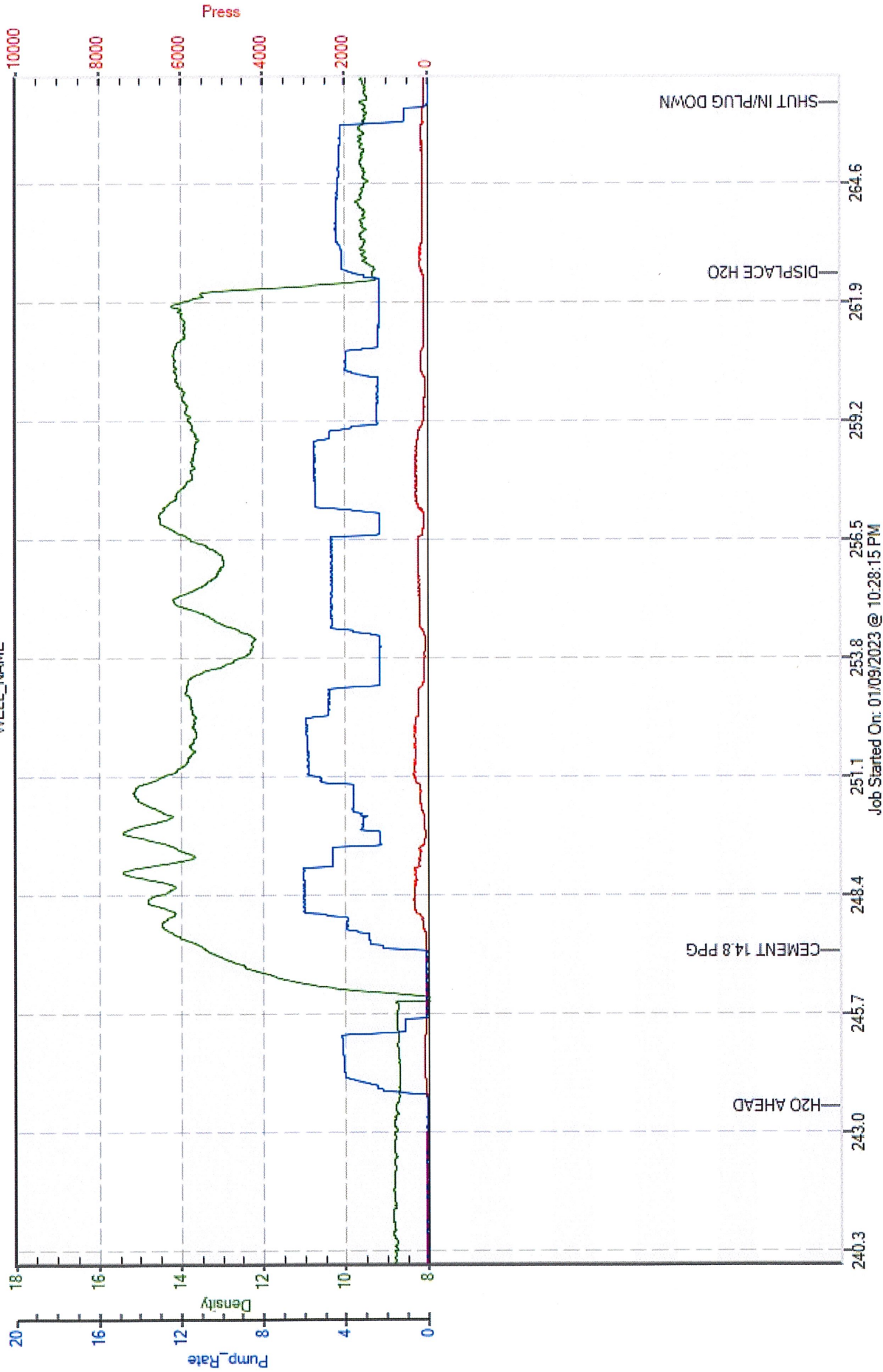
1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
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Satchell Creek
WELL_NAME





CEMENT TREATMENT REPORT

Customer: Satchell Creek	Well: Cathedral A #1	Ticket: WP3854
City, State:	County: Ellis, KS	Date: 1/19/2023
Field Rep:	S-T-R: 1-13S-17W	Service: Longstring

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	3650 ft
Casing Size:	5 1/2 in
Casing Depth:	3640 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	Port Collar
Tool Depth:	1195 ft
Displacement:	85.6 bbls

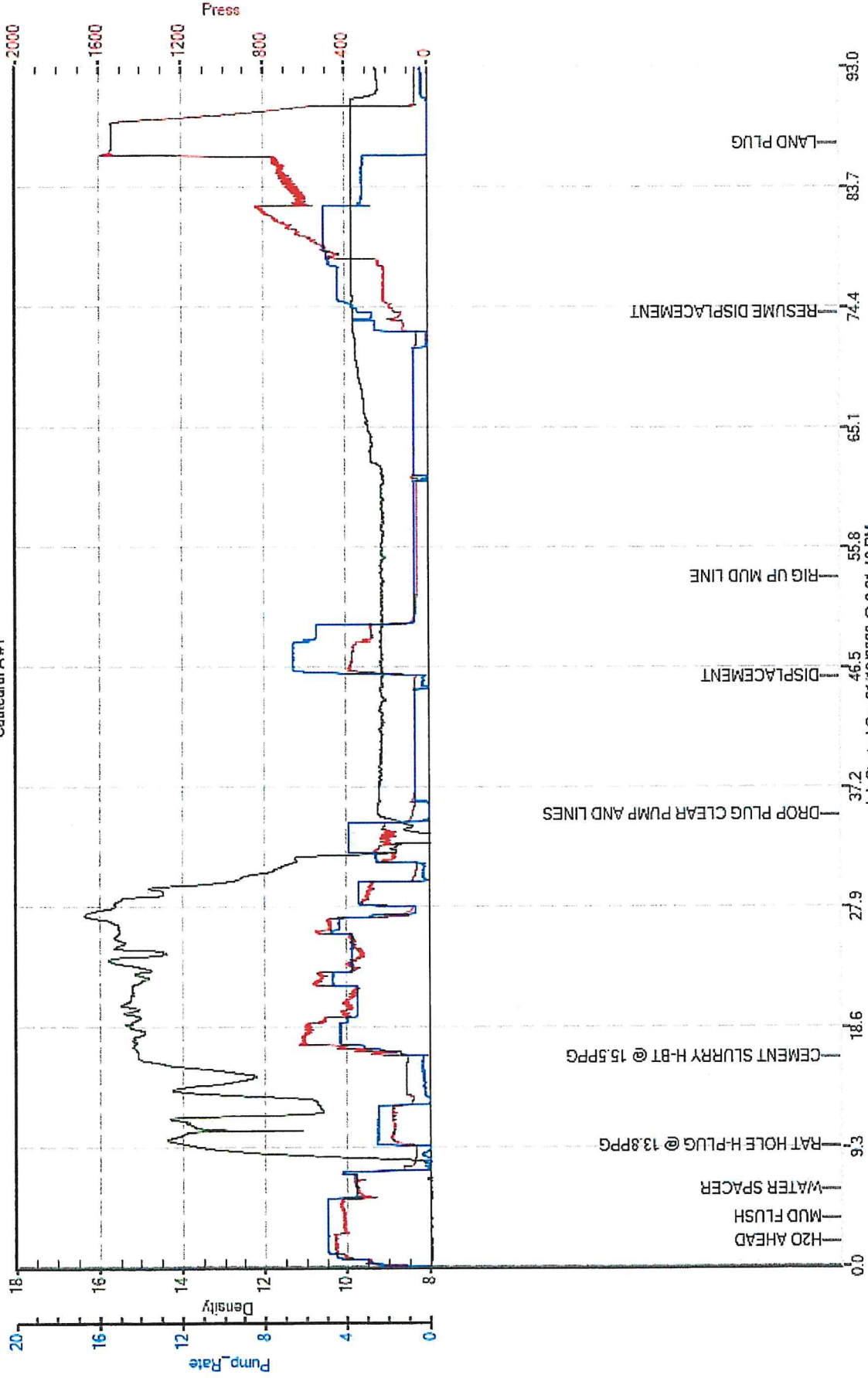
Calculated Slurry - Lead	
Blend:	H-BT
Weight:	15.5 ppg
Water / Sx:	3.8 gal / sx
Yield:	1.04 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	41.6 bbls
Total Sacks:	225 sx

Calculated Slurry - Tail	
Blend:	H-Plug
Weight:	13.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.42 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	7.6 bbls
Total Sacks:	30 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
545pm			-	-	Arrive on Location
600pm				-	Rig Started Running Casing
900pm				-	Casing On Bottom Start Circulation
1045pm				-	Rig Up For Cement
1121pm	4.5	400.0	10.0	10.0	H2O Ahead
1124pm	4.9	420.0	12.0	22.0	Mudd Flush
1126pm	3.5	350.0	10.0	32.0	H2O Spacer
1133pm	2.4	150.0	7.6	39.6	Rat Hole H-Plug @ 13.8ppg 30 Sacks
1137pm	4.7	420.0	41.6	81.2	Cement Slurry H-BT @ 15.5ppg
1150pm				81.2	Drop Plug and Clear Pump and Lines
1207am	5.5	670.0	33.0		Begin Displacement with 2% KCL In the first 20bbls
1213am					Rig ran Out of Water Hooked Up To Mud Pump to Finish Displacement
1230am	5.0	700.0			Resume Displacement
1248am	3.0	750.0	85.6		Land Plug Bump to 1540psi
					Bleed off pressure Plug Held
1250am					Wash Up
1am					Rig Down
140am					Leave Location

CREW		UNIT		SUMMARY		
Cementer:	Spencer		943	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Micheal		230	4.2 bpm	483 psi	200 bbls
Bulk #1:	Kala		194/250			
Bulk #2:						

Satchell Creek
Cathedral A.#1



Job Started On: 01/19/2023 @ 9:01:46 PM



CEMENT TREATMENT REPORT

Customer: Satchell Creek	Well: Cathedral A #1	Ticket: WP3854
City, State:	County: Ellis, KS	Date: 1/19/2023
Field Rep:	S-T-R: 1-13S-17W	Service: Port Collar

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	3650 ft
Casing Size:	5 1/2 in
Casing Depth:	3640 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	Port Collar
Tool Depth:	1195 ft
Displacement:	85.6 bbls

Calculated Slurry - Lead	
Blend:	H-BT
Weight:	15.5 ppg
Water / Sx:	3.8 gal / sx
Yield:	1.04 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	41.6 bbls
Total Sacks:	225 sx

Calculated Slurry - Tail	
Blend:	H-Plug
Weight:	13.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.42 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	7.6 bbls
Total Sacks:	30 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
545pm			-	-	Arrive on Location
600pm				-	Rig Started Running Casing
900pm				-	Casing On Bottom Start Circulation
1045pm				-	Rig Up For Cement
				-	
1121pm	4.5	400.0	10.0	10.0	H2O Ahead
1124pm	4.9	420.0	12.0	22.0	Mudd Flush
1126pm	3.5	350.0	10.0	32.0	H2O Spacer
1133pm	2.4	150.0	7.6	39.6	Rat Hole H-Plug @ 13.8ppg 30 Sacks
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					Bleed off pressure Plug Held
1250am					Wash Up
1am					Rig Down
140am					Leave Location

CREW		UNIT	SUMMARY		
Cementer:	Spencer	943	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Micheal	230	4.2 bpm	483 psi	200 bbls
Bulk #1:	Kale	194/250			
Bulk #2:					

Satchell Creek
Cathedral A #1

