

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

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

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

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

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

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

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

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

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

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

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

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

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

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

Location of fluid disposal if hauled offsite:

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

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

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

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

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

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

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

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

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

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Satchell Creek Petroleum, LLC
Well Name	CATHEDRAL A-4
Doc ID	1698900

All Electric Logs Run

DIL
MEL
PE
Sonic







**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
October  
**30**  
2022

**DST #1      Formation: Topeka      Test Interval: 3020 - 3070'      Total Depth: 3070'**  
Time On: 13:26 10/30      Time Off: 20:08 10/30  
Time On Bottom: 15:59 10/30      Time Off Bottom: 18:29 10/30

Electronic Volume  
Estimate:  
51'

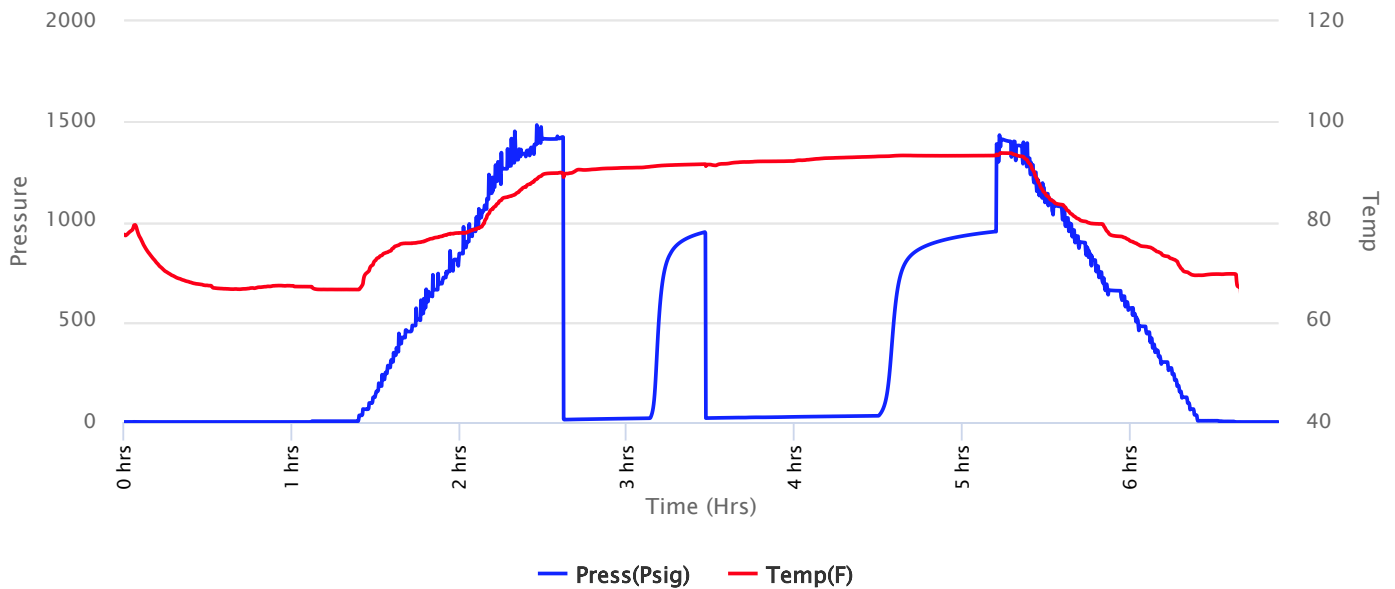
1st Open  
Minutes: 30  
Current Reading:  
2.7" at 30 min  
Max Reading: 2.7"

1st Close  
Minutes: 20  
Current Reading:  
0" at 20 min  
Max Reading: 0"

2nd Open  
Minutes: 60  
Current Reading:  
3.7" at 60 min  
Max Reading: 3.7"

2nd Close  
Minutes: 40  
Current Reading:  
0" at 40 min  
Max Reading: 0"

Inside Recorder





**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

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**30**  
2022

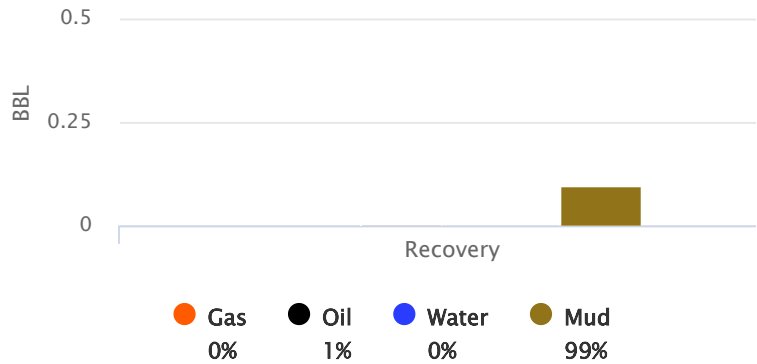
**DST #1**      **Formation: Topeka**      **Test Interval: 3020 - 3070'**      **Total Depth: 3070'**  
Time On: 13:26 10/30      Time Off: 20:08 10/30  
Time On Bottom: 15:59 10/30      Time Off Bottom: 18:29 10/30

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
40	0.5692	SLOCM	0	1	0	99

Total Recovered: 40 ft  
Total Barrels Recovered: 0.5692

**Reversed Out**  
NO

**Recovery at a glance**



Initial Hydrostatic Pressure	1422	PSI
Initial Flow	13 to 20	PSI
<b>Initial Closed in Pressure</b>	<b>948</b>	<b>PSI</b>
Final Flow Pressure	20 to 32	PSI
<b>Final Closed in Pressure</b>	<b>951</b>	<b>PSI</b>
Final Hydrostatic Pressure	1410	PSI
Temperature	94	°F
Pressure Change Initial Close / Final Close	0.0	%

GIP cubic foot volume: 0



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**

Uploading recovery &  
pressures

**DATE**

October

**30**

2022

DST #1	Formation: Topeka	Test Interval: 3020 - 3070'	Total Depth: 3070'
	Time On: 13:26 10/30	Time Off: 20:08 10/30	
	Time On Bottom: 15:59 10/30	Time Off Bottom: 18:29 10/30	

**BUCKET MEASUREMENT:**

1st Open: .25 blow built to 2.25

1st Close: No return

2nd Open: Surface blow built to 3

2nd Close: No return

**REMARKS:**

Tool Sample: 0% Gas 1% Oil 0% Water 99% Mud



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
October  
**30**  
2022

**DST #1      Formation: Topeka      Test Interval: 3020 - 3070'      Total Depth: 3070'**  
Time On: 13:26 10/30      Time Off: 20:08 10/30  
Time On Bottom: 15:59 10/30      Time Off Bottom: 18:29 10/30

**Down Hole Makeup**

**Heads Up:** 23.72 FT

**Packer 1:** 3014.5 FT

**Drill Pipe:** 3010.15 FT  
*ID-3 1/2*

**Packer 2:** 3020 FT

**Weight Pipe:** FT

**Top Recorder:** 3003.42 FT

**Collars:** 0 FT  
*ID-2 1/4*

**Bottom Recorder:** 3068 FT

**Test Tool:** 34.57 FT  
*ID-3 1/2-FH  
Jars  
Safety Joint*

**Well Bore Size:** 7 7/8

**Surface Choke:** 1"

**Bottom Choke:** 5/8"

**Total Anchor:** 50

**Anchor Makeup**

**Packer Sub:** 1 FT

**Perforations: (top):** 14 FT  
*4 1/2-FH*

**Change Over:** .5 FT

**Drill Pipe: (in anchor):** 31 FT  
*ID-3 1/2*

**Change Over:** .5 FT

**Perforations: (below):** 3 FT  
*4 1/2-FH*



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**

Uploading recovery &  
pressures

**DATE**

October

**30**

2022

**DST #1      Formation: Topeka      Test Interval: 3020 -      Total Depth: 3070'**  
**3070'**

Time On: 13:26 10/30

Time Off: 20:08 10/30

Time On Bottom: 15:59 10/30

Time Off Bottom: 18:29 10/30

**Mud Properties**

**Mud Type:** Chem

**Weight:** 8.6

**Viscosity:** 52

**Filtrate:** 5.6

**Chlorides:** 7000 ppm



**Company: Satchell Creek  
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Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
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**DST #1      Formation: Topeka      Test Interval: 3020 -      Total Depth: 3070'**  
**3070'**  
Time On: 13:26 10/30      Time Off: 20:08 10/30  
Time On Bottom: 15:59 10/30      Time Off Bottom: 18:29 10/30

**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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**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**  
Uploading recovery &  
pressures

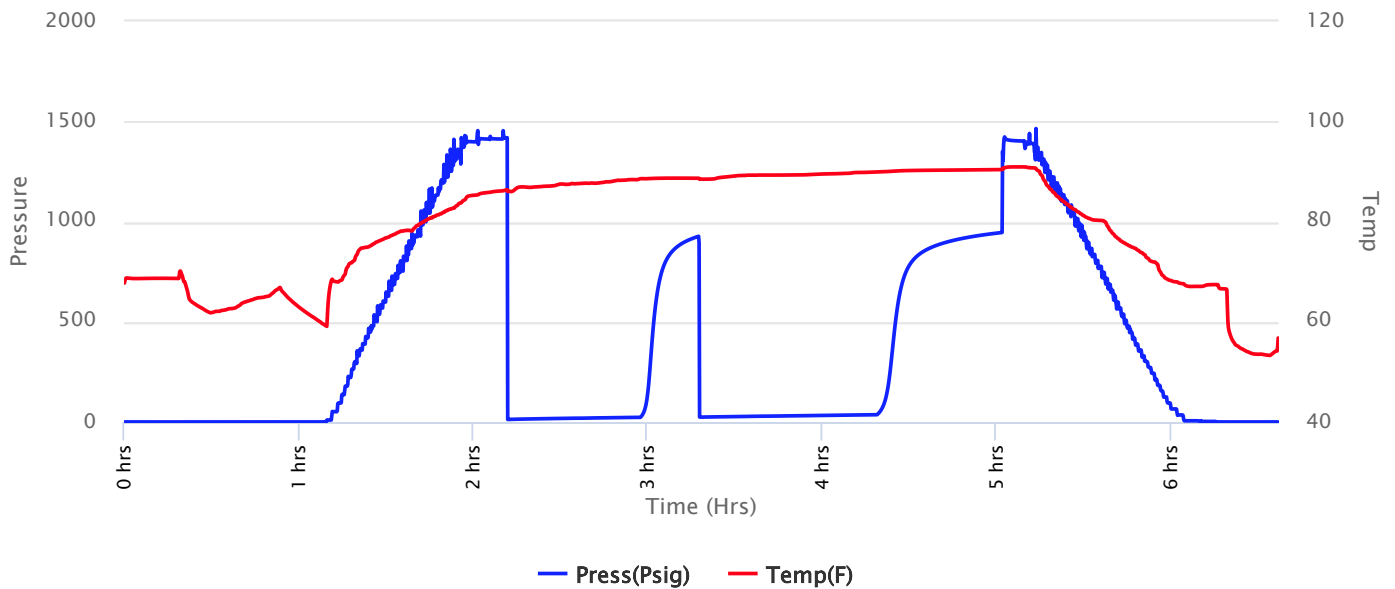
**DATE**  
October  
**31**  
2022

**DST #2**      **Formation: Middle Topeka**      **Test Interval: 3010 - 3080'**      **Total Depth: 3080'**  
Time On: 03:33 10/31      Time Off: 09:59 10/31  
Time On Bottom: 05:40 10/31      Time Off Bottom: 08:25 10/31

Electronic Volume Estimate:  
63'

<u>1st Open</u> Minutes: 45 Current Reading: 4.3" at 45 min Max Reading: 4.3"	<u>1st Close</u> Minutes: 20 Current Reading: 0" at 20 min Max Reading: 0"	<u>2nd Open</u> Minutes: 60 Current Reading: 3.7" at 60 min Max Reading: 3.7"	<u>2nd Close</u> Minutes: 40 Current Reading: 0" at 40 min Max Reading: 0"
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Inside Recorder







**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
October  
**31**  
2022

**DST #2      Formation: Middle Topeka      Test Interval: 3010 - 3080'      Total Depth: 3080'**  
Time On: 03:33 10/31      Time Off: 09:59 10/31  
Time On Bottom: 05:40 10/31      Time Off Bottom: 08:25 10/31

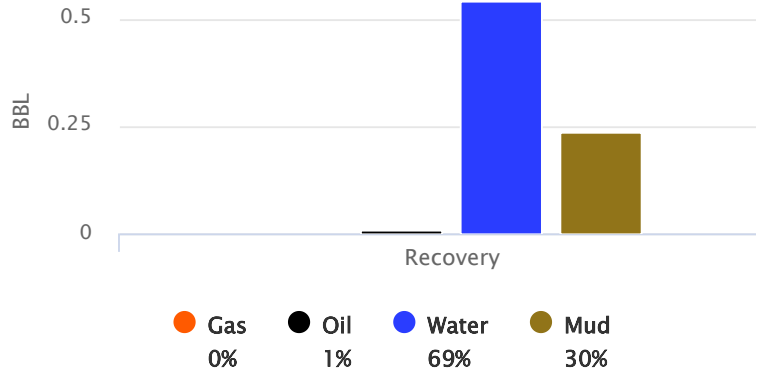
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
55	0.78265	SLOCHMCW	0	1	69	30

Total Recovered: 55 ft  
Total Barrels Recovered: 0.78265

**Reversed Out**  
NO

Initial Hydrostatic Pressure	1418	PSI
Initial Flow	14 to 26	PSI
<b>Initial Closed in Pressure</b>	<b>928</b>	<b>PSI</b>
Final Flow Pressure	25 to 37	PSI
<b>Final Closed in Pressure</b>	<b>945</b>	<b>PSI</b>
Final Hydrostatic Pressure	1412	PSI
Temperature	91	°F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**



GIP cubic foot volume: 0



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**

Uploading recovery &  
pressures

**DATE**

October

**31**

2022

DST #2	Formation: Middle Topeka	Test Interval: 3010 - 3080'	Total Depth: 3080'
	Time On: 03:33 10/31	Time Off: 09:59 10/31	
	Time On Bottom: 05:40 10/31	Time Off Bottom: 08:25 10/31	

**BUCKET MEASUREMENT:**

1st Open: .75 built to 4

1st Close: No return

2nd Open: Surface blow built to 3.25

2nd Close: No return

**REMARKS:**

Tool Sample: 0% Gas 1% Oil 69% Water 30% Mud



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
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2022

**DST #2**      **Formation: Middle Topeka**      **Test Interval: 3010 - 3080'**      **Total Depth: 3080'**  
Time On: 03:33 10/31      Time Off: 09:59 10/31  
Time On Bottom: 05:40 10/31      Time Off Bottom: 08:25 10/31

**Down Hole Makeup**

**Heads Up:** 33.84 FT

**Packer 1:** 3004.5 FT

**Drill Pipe:** 3010.27 FT  
*ID-3 1/2*

**Packer 2:** 3010 FT

**Weight Pipe:** FT

**Top Recorder:** 2993.42 FT

**Collars:** 0 FT  
*ID-2 1/4*

**Bottom Recorder:** 3078 FT

**Test Tool:** 34.57 FT  
*ID-3 1/2-FH  
Jars  
Safety Joint*

**Well Bore Size:** 7 7/8

**Surface Choke:** 1"

**Bottom Choke:** 5/8"

**Total Anchor:** 70

**Anchor Makeup**

**Packer Sub:** 1 FT

**Perforations: (top):** 34 FT  
*4 1/2-FH*

**Change Over:** .5 FT

**Drill Pipe: (in anchor):** 31 FT  
*ID-3 1/2*

**Change Over:** .5 FT

**Perforations: (below):** 3 FT  
*4 1/2-FH*



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**

Uploading recovery &  
pressures

**DATE**

October

**31**

2022

<b>DST #2</b>	<b>Formation: Middle Topeka</b>	<b>Test Interval: 3010 - 3080'</b>	<b>Total Depth: 3080'</b>
	Time On: 03:33 10/31	Time Off: 09:59 10/31	
	Time On Bottom: 05:40 10/31	Time Off Bottom: 08:25 10/31	

**Mud Properties**

**Mud Type: Chem**

**Weight: 8.6**

**Viscosity: 52**

**Filtrate: 5.6**

**Chlorides: 7000 ppm**



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
October  
**31**  
2022

**DST #2      Formation: Middle Topeka      Test Interval: 3010 - 3080'      Total Depth: 3080'**  
Time On: 03:33 10/31      Time Off: 09:59 10/31  
Time On Bottom: 05:40 10/31      Time Off Bottom: 08:25 10/31

**Gas Volume Report**

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
------	---------	-----	-------





**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**01**  
2022

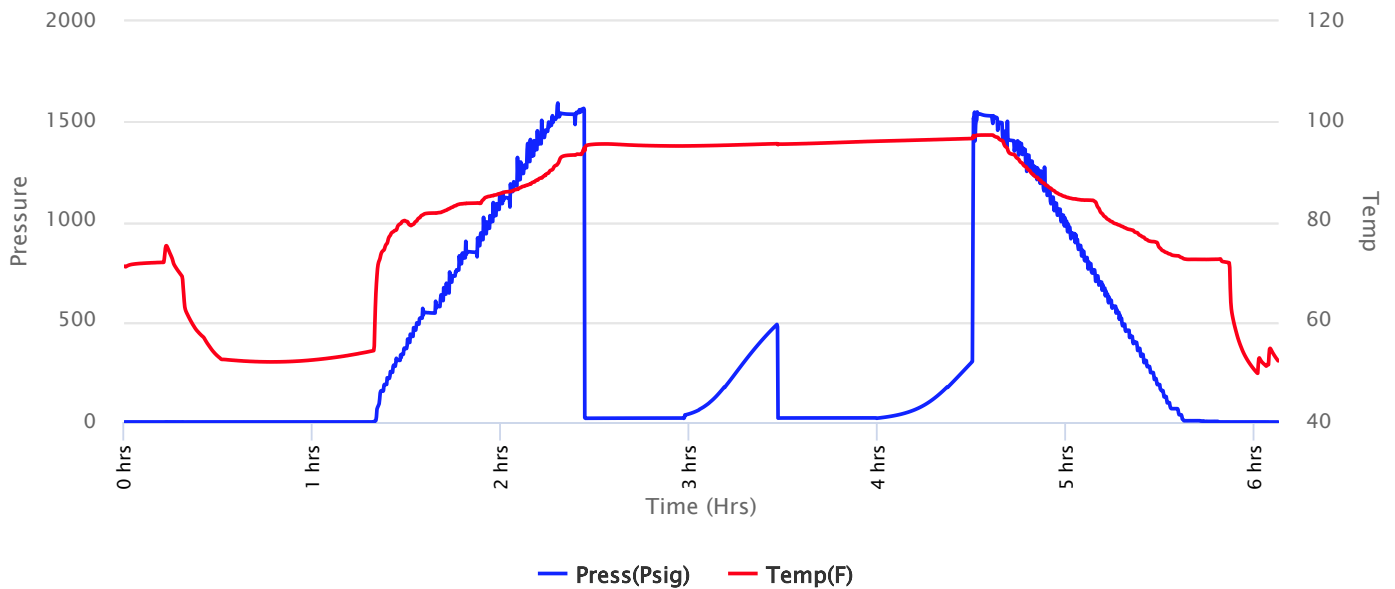
**DST #3      Formation: Toronto      Test Interval: 3246 - 3284'      Total Depth: 3284'**

Time On: 00:23 11/01      Time Off: 06:20 11/01  
Time On Bottom: 02:45 11/01      Time Off Bottom: 04:45 11/01

Electronic Volume  
Estimate:  
21'

<u>1st Open</u> Minutes: 30	<u>1st Close</u> Minutes: 30	<u>2nd Open</u> Minutes: 30	<u>2nd Close</u> Minutes: 30
Current Reading: 2.5" at 30 min Max Reading: 2.5"	Current Reading: 0" at 30 min Max Reading: 0"	Current Reading: 0" at 30 min Max Reading: 0"	Current Reading: 0" at 30 min Max Reading: 0"

Inside Recorder





**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**01**  
2022

**DST #3      Formation: Toronto      Test Interval: 3246 - 3284'      Total Depth: 3284'**  
Time On: 00:23 11/01      Time Off: 06:20 11/01  
Time On Bottom: 02:45 11/01      Time Off Bottom: 04:45 11/01

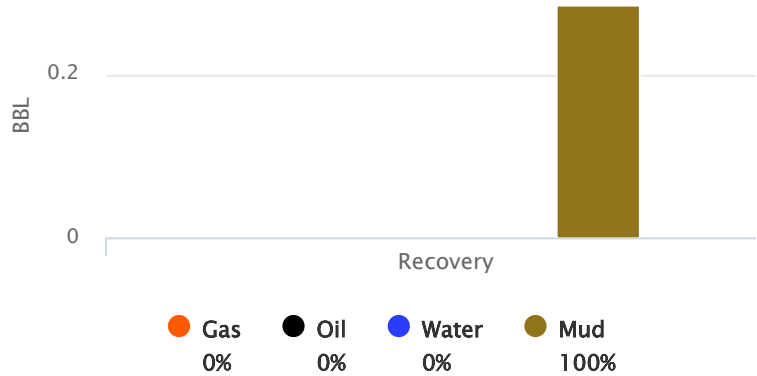
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
20	0.2846	M	0	0	0	100

Total Recovered: 20 ft  
Total Barrels Recovered: 0.2846

Reversed Out  
NO

Initial Hydrostatic Pressure	1555	PSI
Initial Flow	20 to 21	PSI
<b>Initial Closed in Pressure</b>	<b>485</b>	<b>PSI</b>
Final Flow Pressure	21 to 21	PSI
<b>Final Closed in Pressure</b>	<b>303</b>	<b>PSI</b>
Final Hydrostatic Pressure	1508	PSI
Temperature	97	°F
Pressure Change Initial Close / Final Close	37.6	%

**Recovery at a glance**



GIP cubic foot volume: 0





**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**

Uploading recovery &  
pressures

**DATE**

November

**01**

2022

**DST #3      Formation: Toronto      Test Interval: 3246 -      Total Depth: 3284'**  
**3284'**

Time On: 00:23 11/01

Time Off: 06:20 11/01

Time On Bottom: 02:45 11/01

Time Off Bottom: 04:45 11/01

**BUCKET MEASUREMENT:**

1st Open: 1.75 built to 2

1st Close: No return

2nd Open: No blow

2nd Close: No return

**REMARKS:**

Slide 12'

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



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**01**  
2022

**DST #3      Formation: Toronto      Test Interval: 3246 -      Total Depth: 3284'**  
**3284'**  
Time On: 00:23 11/01      Time Off: 06:20 11/01  
Time On Bottom: 02:45 11/01      Time Off Bottom: 04:45 11/01

**Down Hole Makeup**

<b>Heads Up:</b> 17.1 FT	<b>Packer 1:</b> 3240.5 FT
<b>Drill Pipe:</b> 3229.53 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3246 FT
<b>Weight Pipe:</b> FT	<b>Top Recorder:</b> 3229.42 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3248 FT
<b>Test Tool:</b> 34.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
	<b>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"

**Total Anchor:** 38

**Anchor Makeup**

**Packer Sub:** 1 FT

**Perforations: (top):** FT  
*4 1/2-FH*

**Change Over:** FT

**Drill Pipe: (in anchor):** FT  
*ID-3 1/2*

**Change Over:** FT

**Perforations: (below):** 37 FT  
*4 1/2-FH*



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**

Uploading recovery &  
pressures

**DATE**

November

**01**

2022

**DST #3      Formation: Toronto      Test Interval: 3246 -      Total Depth: 3284'**  
**3284'**

Time On: 00:23 11/01

Time Off: 06:20 11/01

Time On Bottom: 02:45 11/01

Time Off Bottom: 04:45 11/01

**Mud Properties**

**Mud Type:** Chem

**Weight:** 8.7

**Viscosity:** 46

**Filtrate:** 6.4

**Chlorides:** 8000 ppm



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**

Uploading recovery &  
pressures

**DATE**

November  
**01**  
2022

**DST #3      Formation: Toronto      Test Interval: 3246 -      Total Depth: 3284'**  
**3284'**  
Time On: 00:23 11/01      Time Off: 06:20 11/01  
Time On Bottom: 02:45 11/01      Time Off Bottom: 04:45 11/01

**Gas Volume Report**

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

Time	Orifice	PSI	MCF/D
------	---------	-----	-------





**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**

Uploading recovery &  
pressures

**DATE**

November  
**02**  
2022

**DST #5 Formation: LKC E - F Test Interval: 3348 - 3390' Total Depth: 3390'**

Time On: 04:57 11/02 Time Off: 12:04 11/02  
Time On Bottom: 07:06 11/02 Time Off Bottom: 10:36 11/02

Electronic Volume  
Estimate:  
17'

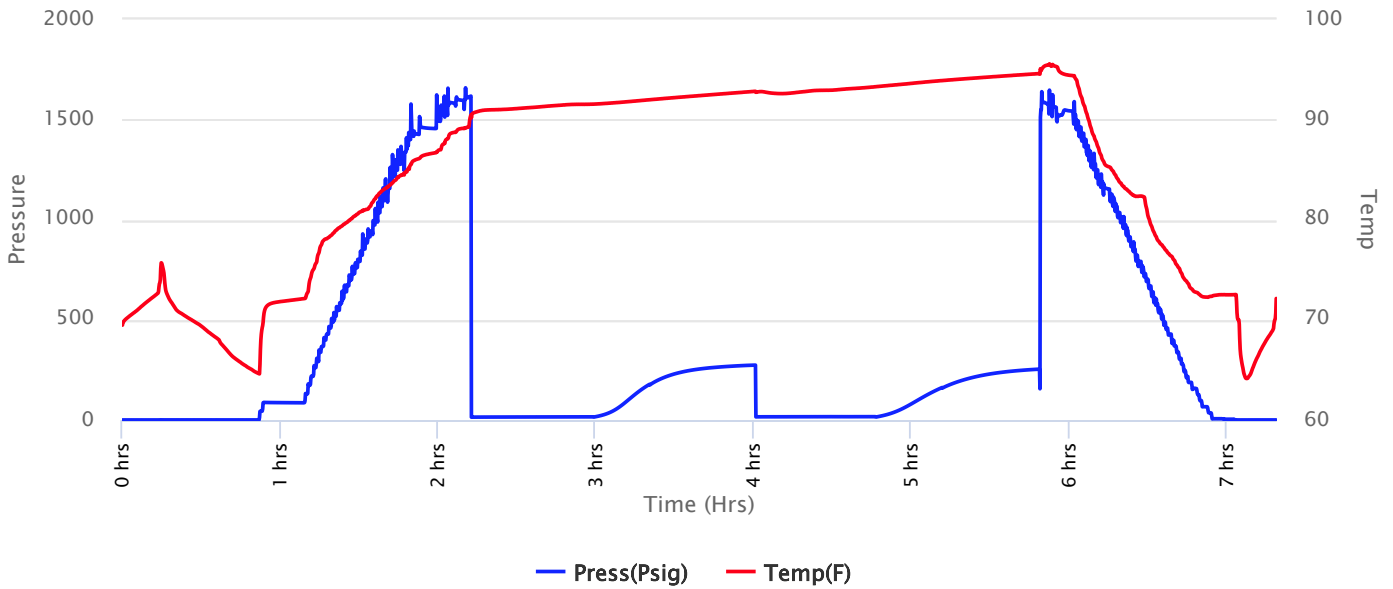
1st Open  
Minutes: 45  
Current Reading:  
1.7" at 45 min  
Max Reading: 1.9"

1st Close  
Minutes: 60  
Current Reading:  
0" at 60 min  
Max Reading: 0"

2nd Open  
Minutes: 45  
Current Reading:  
0" at 45 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-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**02**  
2022

**DST #5**      **Formation: LKC E - F**      **Test Interval: 3348 - 3390'**      **Total Depth: 3390'**  
Time On: 04:57 11/02      Time Off: 12:04 11/02  
Time On Bottom: 07:06 11/02      Time Off Bottom: 10:36 11/02

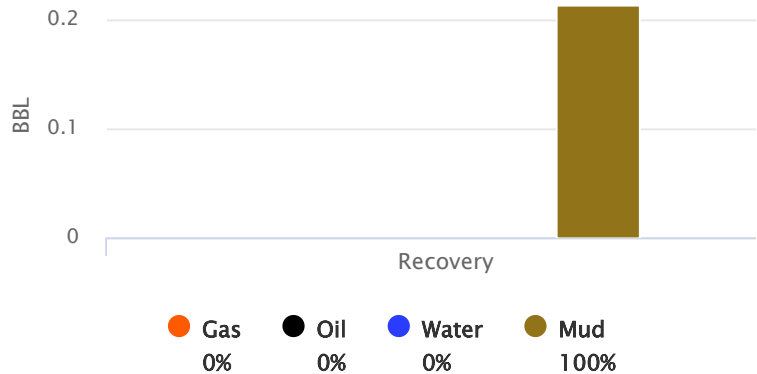
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
15	0.21345	M	0	0	0	100

Total Recovered: 15 ft  
Total Barrels Recovered: 0.21345

Reversed Out  
NO

Initial Hydrostatic Pressure	1609	PSI
Initial Flow	15 to 17	PSI
<b>Initial Closed in Pressure</b>	<b>274</b>	<b>PSI</b>
Final Flow Pressure	17 to 17	PSI
<b>Final Closed in Pressure</b>	<b>253</b>	<b>PSI</b>
Final Hydrostatic Pressure	1586	PSI
Temperature	95	°F
Pressure Change Initial Close / Final Close	7.7	%

Recovery at a glance



GIP cubic foot volume: 0



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**

Uploading recovery &  
pressures

**DATE**

November

**02**

2022

<b>DST #5</b>	<b>Formation: LKC E - F</b>	<b>Test Interval: 3348 - 3390'</b>	<b>Total Depth: 3390'</b>
	Time On: 04:57 11/02	Time Off: 12:04 11/02	
	Time On Bottom: 07:06 11/02	Time Off Bottom: 10:36 11/02	

**BUCKET MEASUREMENT:**

1st Open: 1 blow built to 1.25

1st Close: No return

2nd Open: No blow

2nd Close: No return

**REMARKS:**

Tool Sample: 0% Gas 1% Oil 0% Water 99% Mud













**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**02**  
2022

**DST #6    Formation: LKC I - K    Test Interval: 3460 - 3502'    Total Depth: 3502'**

Time On: 21:44 11/02    Time Off: 01:51 11/03  
Time On Bottom: 23:32 11/02    Time Off Bottom: 00:02 11/03

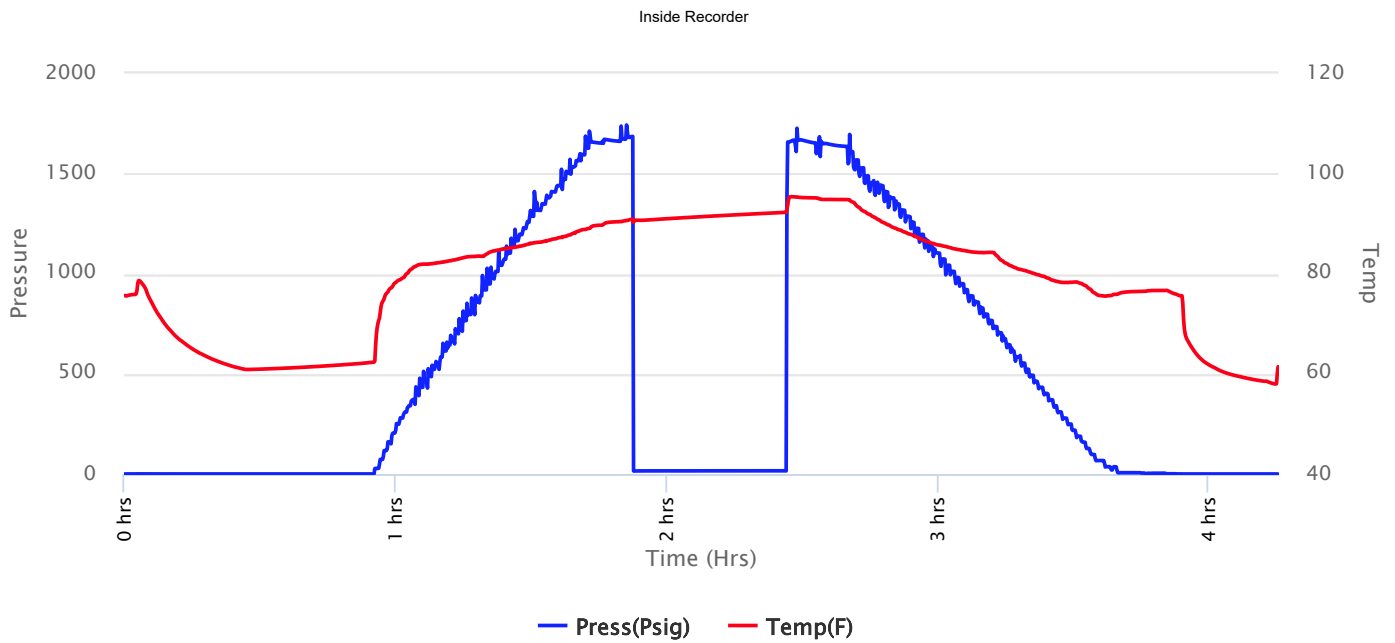
Electronic Volume  
Estimate:  
13'

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

1st Close  
N/A

2nd Open  
N/A

2nd Close  
N/A





**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**02**  
2022

**DST #6    Formation: LKC I - K    Test Interval: 3460 - 3502'    Total Depth: 3502'**  
Time On: 21:44 11/02    Time Off: 01:51 11/03  
Time On Bottom: 23:32 11/02    Time Off Bottom: 00:02 11/03

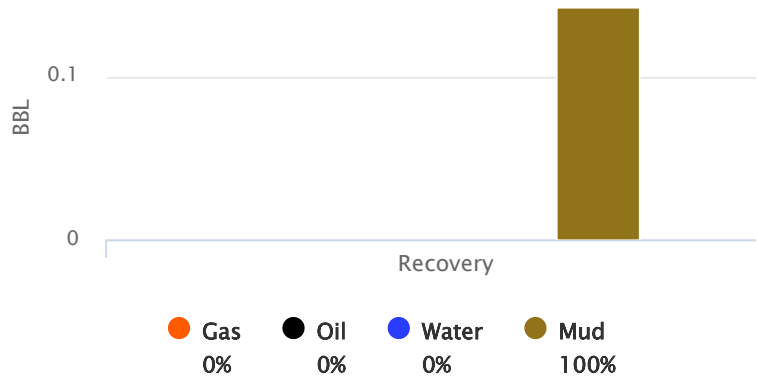
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
10	0.1423	M	0	0	0	100

Total Recovered: 10 ft  
Total Barrels Recovered: 0.1423

Reversed Out  
NO

Initial Hydrostatic Pressure	1686	PSI
Initial Flow	16 to 17	PSI
<b>Initial Closed in Pressure</b>	<b>0</b>	<b>PSI</b>
Final Flow Pressure	0	PSI
<b>Final Closed in Pressure</b>	<b>0</b>	<b>PSI</b>
Final Hydrostatic Pressure	1662	PSI
Temperature	93	°F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**



GIP cubic foot volume: 0



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**

Uploading recovery &  
pressures

**DATE**

November

**02**

2022

**DST #6      Formation: LKC I - K      Test Interval: 3460 -  
3502'      Total Depth: 3502'**

Time On: 21:44 11/02

Time Off: 01:51 11/03

Time On Bottom: 23:32 11/02

Time Off Bottom: 00:02 11/03

**BUCKET MEASUREMENT:**

1st Open: .5 blow built to 1

**REMARKS:**

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



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**02**  
2022

**DST #6      Formation: LKC I - K      Test Interval: 3460 - 3502'      Total Depth: 3502'**  
  
Time On: 21:44 11/02      Time Off: 01:51 11/03  
Time On Bottom: 23:32 11/02      Time Off Bottom: 00:02 11/03

**Down Hole Makeup**

<b>Heads Up:</b> 21.69 FT	<b>Packer 1:</b> 3454.5 FT
<b>Drill Pipe:</b> 3448.12 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3460 FT
<b>Weight Pipe:</b> FT	<b>Top Recorder:</b> 3443.42 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3462 FT
<b>Test Tool:</b> 34.57 FT <i>ID-3 1/2-FH Jars Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
	<b>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"

**Total Anchor:** 42

**Anchor Makeup**

**Packer Sub:** 1 FT

**Perforations: (top):** FT  
*4 1/2-FH*

**Change Over:** FT

**Drill Pipe: (in anchor):** FT  
*ID-3 1/2*

**Change Over:** FT

**Perforations: (below):** 41 FT  
*4 1/2-FH*





**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**

Uploading recovery &  
pressures

**DATE**

November

**02**

2022

**DST #6      Formation: LKC I - K      Test Interval: 3460 - 3502'      Total Depth: 3502'**

Time On: 21:44 11/02

Time Off: 01:51 11/03

Time On Bottom: 23:32 11/02

Time Off Bottom: 00:02 11/03

**Mud Properties**

**Mud Type:** Chem

**Weight:** 9

**Viscosity:** 47

**Filtrate:** 7.2

**Chlorides:** 11000 ppm



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**

Uploading recovery &  
pressures

**DATE**

November  
**02**  
2022

**DST #6    Formation: LKC I - K    Test Interval: 3460 - 3502'    Total Depth: 3502'**  
Time On: 21:44 11/02                      Time Off: 01:51 11/03  
Time On Bottom: 23:32 11/02    Time Off Bottom: 00:02 11/03

**Gas Volume Report**

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

Time	Orifice	PSI	MCF/D
------	---------	-----	-------





**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**03**  
2022

**DST #7      Formation: LKC G      Test Interval: 3356 - 3416'      Total Depth: 3694'**

Time On: 16:49 11/03      Time Off: 22:46 11/03  
Time On Bottom: 19:13 11/03      Time Off Bottom: 20:58 11/03

Electronic Volume  
Estimate:  
187'

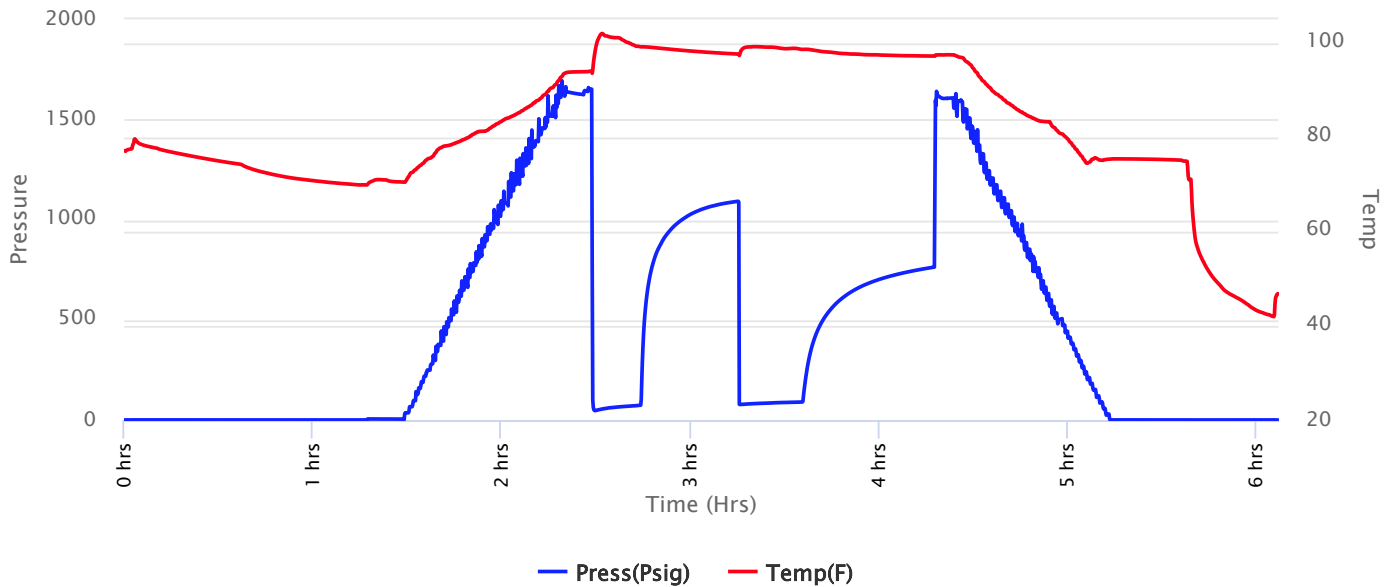
1st Open  
Minutes: 15  
Current Reading:  
16.5" at 15 min  
Max Reading: 16.5"

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

2nd Open  
Minutes: 20  
Current Reading:  
4.8" at 20 min  
Max Reading: 4.8"

2nd Close  
Minutes: 40  
Current Reading:  
0" at 40 min  
Max Reading: 0"

Inside Recorder





**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**03**  
2022

**DST #7      Formation: LKC G      Test Interval: 3356 - 3416'      Total Depth: 3694'**  
Time On: 16:49 11/03      Time Off: 22:46 11/03  
Time On Bottom: 19:13 11/03      Time Off Bottom: 20:58 11/03

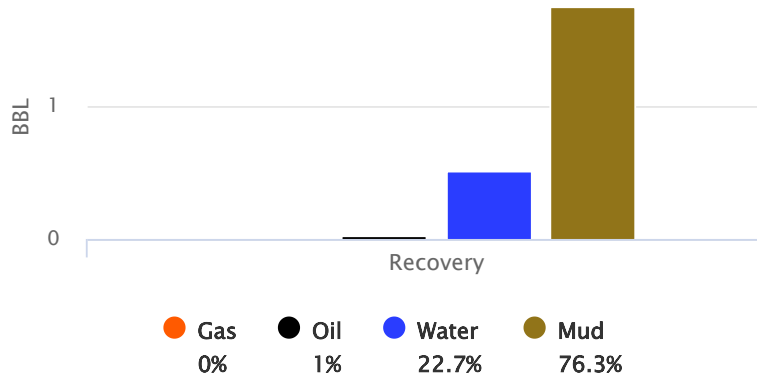
Recovered						
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
35	0.49805	SLOCM	0	1	0	99
63	0.89649	SLOCSLWCM	0	1	9	90
63	0.89649	SLOCHWCM	0	1	49	50

Total Recovered: 161 ft  
Total Barrels Recovered: 2.29103

Reversed Out  
NO

Initial Hydrostatic Pressure	1641	PSI
Initial Flow	64 to 75	PSI
<b>Initial Closed in Pressure</b>	<b>1088</b>	<b>PSI</b>
Final Flow Pressure	78 to 90	PSI
<b>Final Closed in Pressure</b>	<b>763</b>	<b>PSI</b>
Final Hydrostatic Pressure	1617	PSI
Temperature	102	°F
Pressure Change Initial Close / Final Close	29.9	%

**Recovery at a glance**



GIP cubic foot volume: 0



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**

Uploading recovery &  
pressures

**DATE**

November

**03**

2022

**DST #7      Formation: LKC G      Test Interval: 3356 - 3416'      Total Depth: 3694'**

Time On: 16:49 11/03

Time Off: 22:46 11/03

Time On Bottom: 19:13 11/03

Time Off Bottom: 20:58 11/03

**BUCKET MEASUREMENT:**

1st Open: BoB at 8 mins

1st Close: No return

2nd Open: Surface blow built to 3.25

2nd Close: No return

**REMARKS:**

IN TOOL JOINT OF LAST STAND

10%O 40%W 50%M

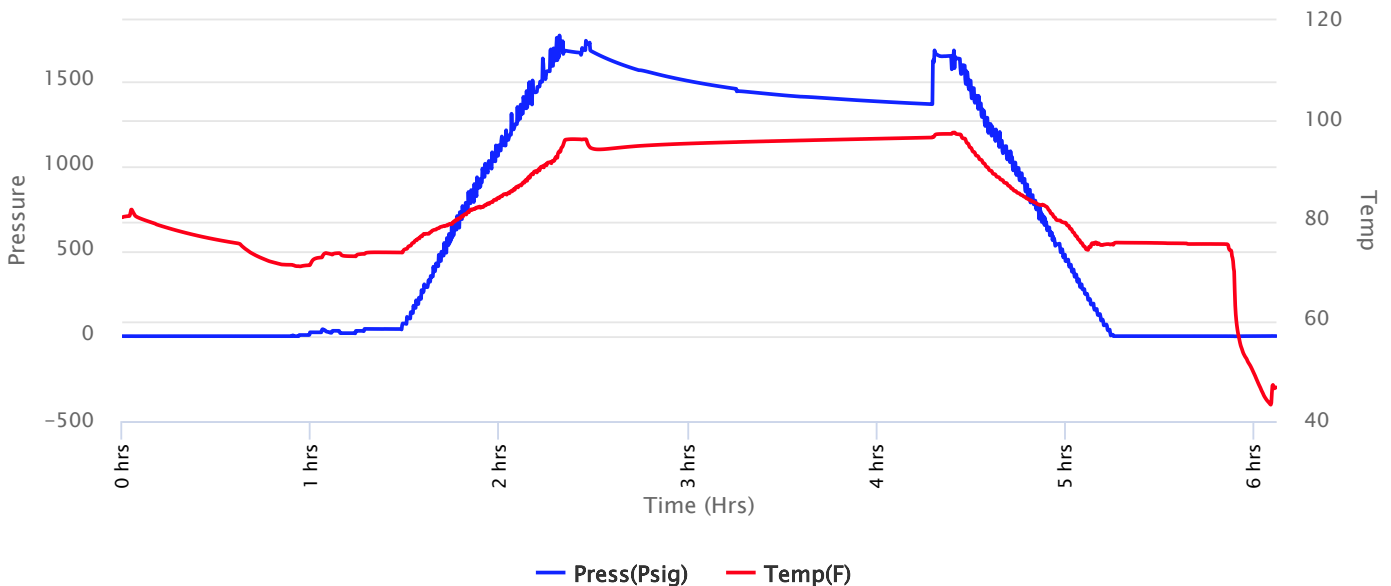
Tool Sample: 0% Gas 4% Oil 36% Water 60% Mud

Ph: 7

Measured RW: .72 @ 13,700 degrees °F

RW at Formation Temp: 0.131 @ 102 °F

**Below Straddle Recorder**





**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**03**  
2022

**DST #7      Formation: LKC G      Test Interval: 3356 - 3416'      Total Depth: 3694'**  
  
Time On: 16:49 11/03      Time Off: 22:46 11/03  
Time On Bottom: 19:13 11/03      Time Off Bottom: 20:58 11/03

**Down Hole Makeup**

<b>Heads Up:</b> 26.77 FT	<b>Packer 1:</b> 3350.5 FT
<b>Drill Pipe:</b> 3349.2 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3356 FT
<b>Weight Pipe:</b> FT	<b>Packer 3:</b> 3416 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Top Recorder:</b> 3339.42 FT
<b>Test Tool:</b> 34.57 FT <i>ID-3 1/2-FH Jars Safety Joint</i>	<b>Bottom Recorder:</b> 3393 FT
<b>Total Anchor:</b> 60	<b>Below Straddle Recorder:</b> 3672 FT
	<b>Well Bore Size:</b> 7 7/8
	<b>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"

**Anchor Makeup**

**Packer Sub:** 1 FT

**Perforations: (top):** 3 FT  
*4 1/2-FH*

**Change Over:** .5 FT

**Drill Pipe: (in anchor):** 31 FT  
*ID-3 1/2*

**Change Over:** .5 FT

**Perforations: (below):** 24 FT  
*4 1/2-FH*

**STRADDLE**

**Straddle Packer(s):** 1 FT

**Change Over:** 1 FT

**Drill Pipe:** 253 FT  
*ID-3 1/2"*

Change Over: 1 FT

Perforations (in tail pipe): 23 FT  
4 1/2-FH



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**

Uploading recovery &  
pressures

**DATE**

November

**03**

2022

**DST #7      Formation: LKC G      Test Interval: 3356 -      Total Depth: 3694'**  
**3416'**

Time On: 16:49 11/03

Time Off: 22:46 11/03

Time On Bottom: 19:13 11/03

Time Off Bottom: 20:58 11/03

**Mud Properties**

**Mud Type:**

**Weight:**

**Viscosity:**

**Filtrate:**

**Chlorides: ppm**





**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**03**  
2022

**DST #7      Formation: LKC G      Test Interval: 3356 -      Total Depth: 3694'**  
**3416'**  
Time On: 16:49 11/03      Time Off: 22:46 11/03  
Time On Bottom: 19:13 11/03      Time Off Bottom: 20:58 11/03

**Gas Volume Report**

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

Time	Orifice	PSI	MCF/D
------	---------	-----	-------





**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-4**

SEC: 1 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**03**  
2022

**DST #8      Formation: LKC H      Test Interval: 3416 - 3480'      Total Depth: 3694'**

Time On: 23:27 11/03      Time Off: 04:34 11/04  
Time On Bottom: 01:33 11/04      Time Off Bottom: 01:53 11/04

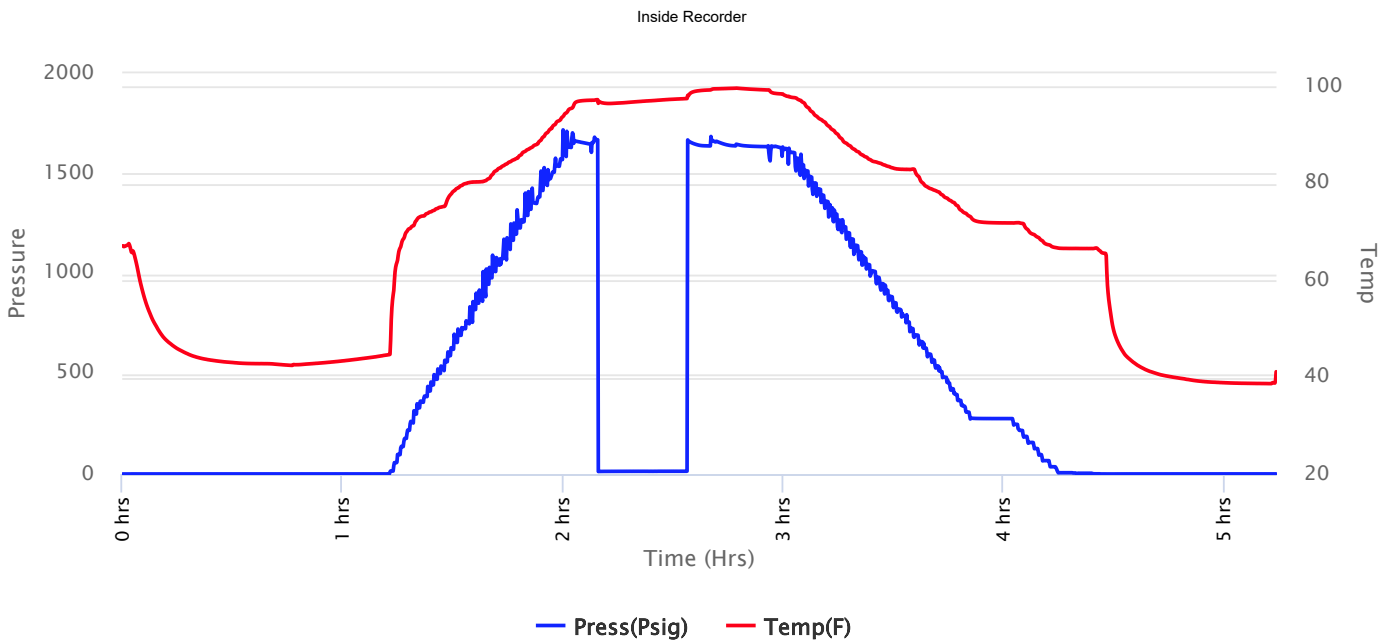
Electronic Volume  
Estimate:  
g'

1st Open  
Minutes: 20  
Current Reading:  
1" at 20 min  
Max Reading: 1"

1st Close  
N/A

2nd Open  
N/A

2nd Close  
N/A





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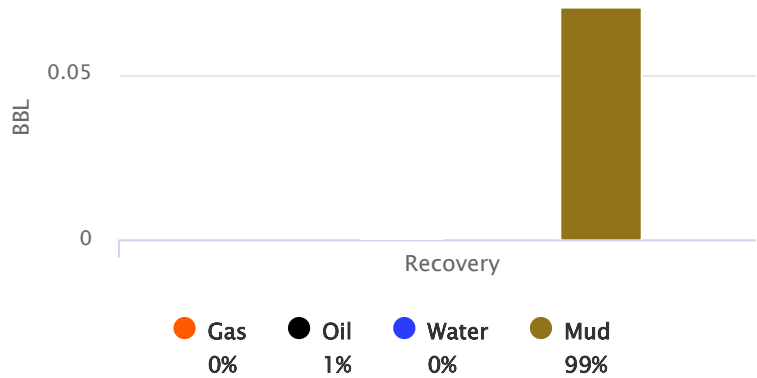
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
5	0.07115	M	0	1	0	99

Total Recovered: 5 ft  
Total Barrels Recovered: 0.07115

Reversed Out  
NO

Initial Hydrostatic Pressure	1682	PSI
Initial Flow	14 to 15	PSI
<b>Initial Closed in Pressure</b>	<b>0</b>	<b>PSI</b>
Final Flow Pressure	0	PSI
<b>Final Closed in Pressure</b>	<b>0</b>	<b>PSI</b>
Final Hydrostatic Pressure	1658	PSI
Temperature	98	°F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**



GIP cubic foot volume: 0



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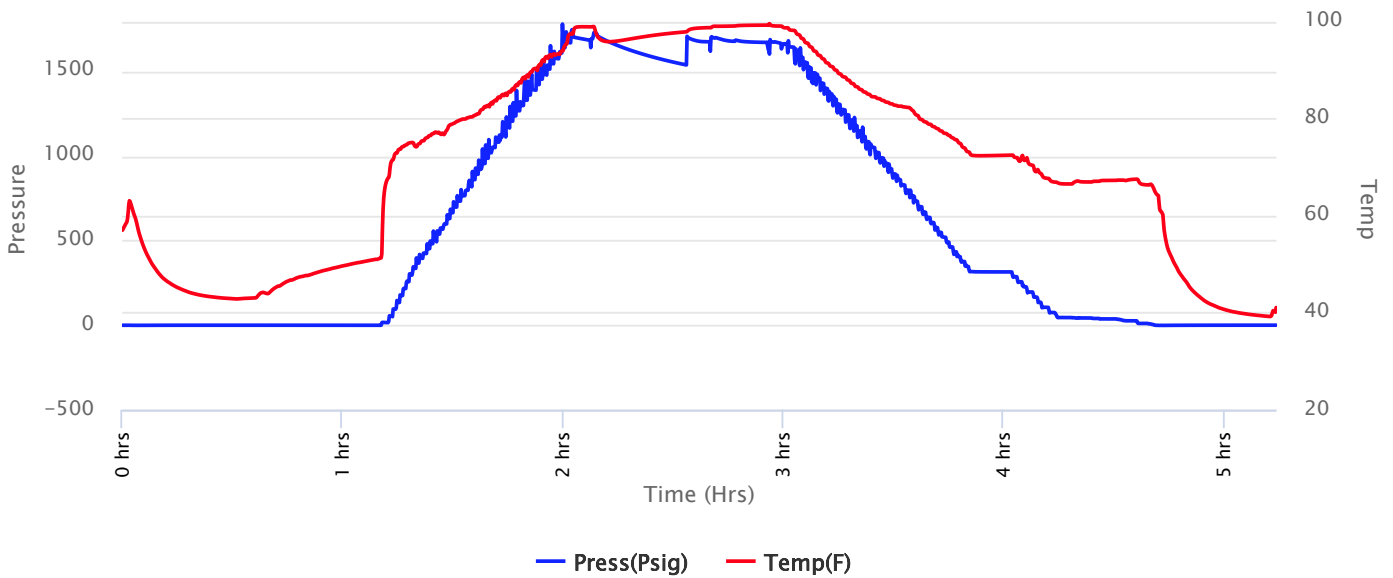
**BUCKET MEASUREMENT:**

1st Open: .25 blow

**REMARKS:**

Tool Sample: 0% Gas 1% Oil 0% Water 99% Mud

**Below Straddle Recorder**





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Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**03**  
2022

**DST #8      Formation: LKC H      Test Interval: 3416 -      Total Depth: 3694'**  
**3480'**  
Time On: 23:27 11/03      Time Off: 04:34 11/04  
Time On Bottom: 01:33 11/04      Time Off Bottom: 01:53 11/04

**Down Hole Makeup**

<b>Heads Up:</b> 28.77 FT	<b>Packer 1:</b> 3410.5 FT
<b>Drill Pipe:</b> 3411.2 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3416 FT
<b>Weight Pipe:</b> FT	<b>Packer 3:</b> 3480 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Top Recorder:</b> 3399.42 FT
<b>Test Tool:</b> 34.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Bottom Recorder:</b> 3453 FT
<b>Total Anchor:</b> 64	<b>Below Straddle Recorder:</b> 3674 FT
	<b>Well Bore Size:</b> 7 7/8
	<b>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"

**Anchor Makeup**

**Packer Sub:** 1 FT

**Perforations: (top):** 3 FT  
*4 1/2-FH*

**Change Over:** .5 FT

**Drill Pipe: (in anchor):** 31 FT  
*ID-3 1/2*

**Change Over:** .5 FT

**Perforations: (below):** 28 FT  
*4 1/2-FH*

**STRADDLE**

**Straddle Packer(s):** 1 FT

**Change Over:** 1 FT

**Drill Pipe:** 190 FT  
*ID-3 1/2"*

Change Over: 1 FT

Perforations (in tail pipe): 21 FT

4 1/2-FH



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LLC - Rig 1  
Elevation: 2041 GL  
Field Name: Catharine  
Pool: Infield  
Job Number: 609  
API #: 15-051-27059

**Operation:**

Uploading recovery &  
pressures

**DATE**

November

**03**

2022

**DST #8      Formation: LKC H      Test Interval: 3416 -      Total Depth: 3694'**  
**3480'**

Time On: 23:27 11/03

Time Off: 04:34 11/04

Time On Bottom: 01:33 11/04

Time Off Bottom: 01:53 11/04

**Mud Properties**

**Mud Type:** Chem

**Weight:** 9.2

**Viscosity:** 51

**Filtrate:** 8.0

**Chlorides:** 11000 ppm



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**DATE**

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**DST #8      Formation: LKC H      Test Interval: 3416 -      Total Depth: 3694'**  
**3480'**  
Time On: 23:27 11/03      Time Off: 04:34 11/04  
Time On Bottom: 01:33 11/04      Time Off Bottom: 01:53 11/04

**Gas Volume Report**

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

Time	Orifice	PSI	MCF/D
------	---------	-----	-------





# Sean Deenihan Petroleum Geologist

## GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY **Satchell Creek Petroleum, LLC.**

LEASE **Cathedral A-4**

FIELD **Catherine**

LOCATION **4950' FSL & 4250' FWL**

SEC **28 TWP 20 S RGE 22 W**

COUNTY **Ness STATE Kansas**

CONTRACTOR **Pickrell Drilling Rig**

SPUD **10/26/22 COMP 11/3/22**

RTD **3690' LTD 3694'**

MUD UP **CHEMICAL**

SAMPLES SAVED FROM **2900' TO RTD**

DRILLING TIME KEPT FROM **2900' TO RTD**

SAMPLES EXAMINED FROM **2900' TO RTD**

GEOLOGICAL SUPERVISION FROM **2900'**

REFERENCE WELL **CND/DIL. MIC/SON**

ELEVATIONS  
KB 2047'

DF \_\_\_\_\_

GL 2041'

Measurements Are All From Kelly Bushing

CASING

CONDUCTOR SURFACE 8-5/8" at 264'

PRODUCTION NONE

ELECTRICAL SURVEYS

ELI Wireline

CND/DIL. MIC/SON

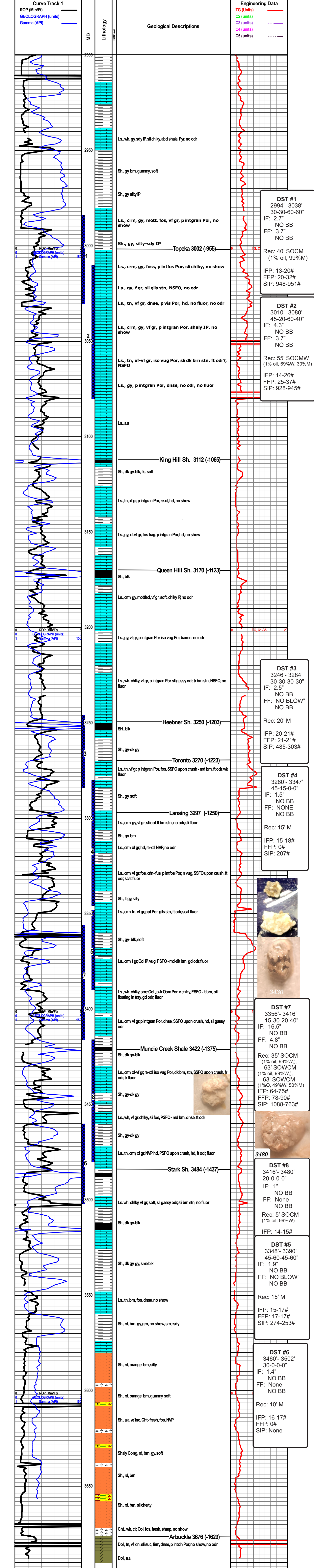
### Formation

Formation	Sample Tops	E-log Tops	Struct Pos
B/Anhydrite	1250 (-1797)		
Heebner Sh.	3250 (-1203)		
Lansing	3297 (-1250)		
Stark Sh.	3484 (-1437)		
Arbuckle	3676 (-1629)		

REMARKS Based on sample, log, and DST analysis, the Cathedral A-4 is deemed non-commercial and was therefore plugged and abandoned.

Respectfully Submitted,

Sean P. Deenihan



**DST #1**  
2994'- 3038'  
30-30-60-60"  
IF: 2.7"  
NO BB  
FF: 3.7"  
NO BB  
Rec: 40' SOCM  
(1% oil, 99%M)  
IFP: 13-20#  
FFP: 20-32#  
SIP: 948-951#

**DST #2**  
3010'- 3080'  
45-20-60-40"  
IF: 4.3"  
NO BB  
FF: 3.7"  
NO BB  
Rec: 55' SOCMW  
(1% oil, 69%W, 30%M)  
IFP: 14-26#  
FFP: 25-37#  
SIP: 928-945#

**DST #3**  
3246'- 3284'  
30-30-30-30"  
IF: 2.5"  
NO BB  
FF: NO BLOW"  
NO BB  
Rec: 20' M  
IFP: 20-21#  
FFP: 21-21#  
SIP: 485-303#

**DST #4**  
3280'- 3347'  
45-15-0-0"  
IF: 1.5"  
NO BB  
FF: NONE  
NO BB  
Rec: 15' M  
IFP: 15-18#  
FFP: 0#  
SIP: 207#

**DST #7**  
3356'- 3416'  
15-30-20-40"  
IF: 16.5"  
NO BB  
FF: 4.8"  
NO BB  
Rec: 35' SOCM  
(1% oil, 99%W),  
63' SOWCM  
(1% oil, 99%W),  
63' SOWCM  
(1%O, 49%W, 50%M)  
IFP: 64-75#  
FFP: 78-90#  
SIP: 1088-763#

**DST #8**  
3416'- 3480'  
20-0-0-0"  
IF: 1"  
NO BB  
FF: None  
NO BB  
Rec: 5' SOCM  
(1% oil, 99%W)  
IFP: 14-15#

**DST #5**  
3348'- 3390'  
45-60-45-60"  
IF: 1.9"  
NO BB  
FF: NO BLOW"  
NO BB  
Rec: 15' M  
IFP: 15-17#  
FFP: 17-17#  
SIP: 274-253#

**DST #6**  
3460'- 3502'  
30-0-0-0"  
IF: 1.4"  
NO BB  
FF: None  
NO BB  
Rec: 10' M  
IFP: 16-17#  
FFP: 0#  
SIP: None

**DST #8**  
3416'- 3480'  
20-0-0-0"  
IF: 1"  
NO BB  
FF: None  
NO BB  
Rec: 5' SOCM  
(1% oil, 99%W)  
IFP: 14-15#

**DST #5**  
3348'- 3390'  
45-60-45-60"  
IF: 1.9"  
NO BB  
FF: NO BLOW"  
NO BB  
Rec: 15' M  
IFP: 15-17#  
FFP: 17-17#  
SIP: 274-253#

**DST #6**  
3460'- 3502'  
30-0-0-0"  
IF: 1.4"  
NO BB  
FF: None  
NO BB  
Rec: 10' M  
IFP: 16-17#  
FFP: 0#  
SIP: None







**CEMENT TREATMENT REPORT**

Customer:	<b>SACHEL CREEK PETROLEUM LLC</b>	Well:	<b>CATHEDRAL A-4</b>	Ticket:	<b>WP3596</b>
City, State:	<b>VICTORIA KS</b>	County:	<b>ELLIS KS</b>	Date:	<b>11/4/2022</b>
Field Rep:		S-T-R:	<b>1-12S-17W</b>	Service:	<b>PLUG</b>

Downhole Information	
Hole Size:	<b>7 7/8 in</b>
Hole Depth:	<b>ft</b>
Casing Size:	<b>in</b>
Casing Depth:	<b>ft</b>
Tubing / Liner:	<b>in</b>
Depth:	<b>ft</b>
Tool / Packer:	
Tool Depth:	<b>ft</b>
Displacement:	<b>bbls</b>

Calculated Slurry - Lead	
Blend:	<b>H-PLUG</b>
Weight:	<b>13.8 ppg</b>
Water / Sx:	<b>6.9 gal / sx</b>
Yield:	<b>1.43 ft<sup>3</sup> / sx</b>
Annular Bbls / Ft.:	<b>bbs / ft.</b>
Depth:	<b>ft</b>
Annular Volume:	<b>0.0 bbls</b>
Excess:	
Total Slurry:	<b>74.0 bbls</b>
Total Sacks:	<b>290 sx</b>

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

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
6:00 PM			-	-	ON LOCATION
				-	1ST PLUG AT 3690
6:40 PM	6.0	300.0	20.0	20.0	PUMP 20 BBL WATER
6:43 PM	6.0	300.0	12.7	32.7	MIX 50 SKS H-PLUG
6:45 PM	5.0	150.0	5.0	37.7	PUMP 5 BBL WATER
6:57 PM	8.0	250.0	43.0	80.7	PUMP 43 BBL MUD
				80.7	2ND PLUG AT 1250
9:47 PM	5.0	190.0	10.0	90.7	PUMP 10 BBL WATER
9:50 PM	6.0	200.0	12.7	103.4	MIX 50 SKS H-PLUG
9:55 PM	3.0	20.0	12.0	115.4	START DISPLACEMENT
				115.4	3RD PLUG AT 750'
10:23 PM	4.0	60.0	5.0	120.4	PUMP 5 BBL WATER
10:25 PM	6.0	170.0	25.0	145.4	MIX 100 SKS H-PLUG
10:31 PM	3.0	20.0	1.5	146.9	START DISPLACEMENT
				146.9	4TH PLUG AT 300
10:50 PM	5.0	150.0	12.7	159.6	MIX50 SKS H-PLUG
10:55 PM	4.0	20.0	1.0	160.6	START DISPLACEMENT
				160.6	5TH PLUG AT 40'
11:08 PM	2.0	25.0	3.0	163.6	MIX 10 SKS H-PLUG
				163.6	CEMENT TO SURFACE
11:15 PM	2.0	25.0	7.0	170.6	MIX 30 SKS H-PLUG FOR RAT HOLE
				170.6	
				170.6	
				170.6	JOB COMPLETE, THANK YOU!
				170.6	MIKE MATTAL
				170.6	AUSTIN & KENNY
				170.6	

CREW		UNIT	SUMMARY		
Cementer:	<b>MATTAL</b>		Average Rate	Average Pressure	Total Fluid
Pump Operator:	<b>CLIFTON</b>	<b>179/521</b>	4.6 bpm	134 psi	171 bbls
Bulk #1:	<b>JULIAN</b>	<b>182/534</b>			
Bulk #2:					