





Form	ACO1 - Well Completion
Operator	Satchell Creek Petroleum, LLC
Well Name	CATHEDRAL A-2
Doc ID	1677938

#### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	218	common	175	2% gel; 3% cc
Production	7.875	5.5	15	3651	class H-BT	160	50% F; .1% FL; 3% salt
Production	7.875	5.5	15	1221	Tall class H	270	50% F; .1% FL; 3% salt

# MUD LOG

## WellSight Systems

Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Cathedral A-2  
API: 15-051-27050-00-00

Location:

License Number:

Spud Date:

Surface Coordinates:

Region:

Drilling Completed:

Bottom Hole

Coordinates:

Ground Elevation (ft): 2029

K.B. Elevation (ft): 2035

Logged Interval (ft): To: TD

Total Depth (ft): 3655

Formation: Conglomerate

Type of Drilling Fluid: Chemical

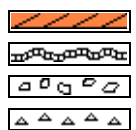
Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

### OPERATOR

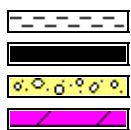
Company: Satchell Creek Petroleum

Address:

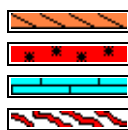
### ROCK TYPES



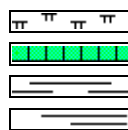
Anhy  
Bent  
Brec  
Cht



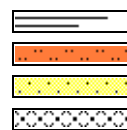
Clyst  
Coal  
Congl  
Dol



Gyp  
Igne  
Lmst  
Meta



Mrlst  
Salt  
Shale  
Shcol



Shgy  
Sltst  
Ss  
Till

### ACCESSORIES

#### MINERAL

Anhy  
Arggrn  
Arg  
Bent  
Bit  
Brecfrag  
Calc  
Carb  
Chtdk  
Chtlt  
Dol  
Feldspar  
Ferrpel  
Ferr  
Glau



Gyp  
Hvymin  
Kaol  
Marl  
Minxl  
Nodule  
Phos  
Pyr  
Salt  
Sandy  
Silt  
Sil  
Sulphur  
Tuff

#### FOSSIL

Algae  
Amph  
Belm  
Bioclst  
Brach  
Bryozoa  
Cephal  
Coral  
Crin  
Echin  
Fish  
Foram  
Fossil  
Gastro  
Oolite



Ostra  
Pelec  
Pellet  
Pisolite  
Plant  
Strom

#### STRINGER

Anhy  
Arg  
Bent  
Coal  
Dol  
Gyp  
Ls  
Mrst



Sltstrg  
Ssstrg

#### TEXTURE

Boundst  
Chalky  
Cryxln  
Earthy  
Finexln  
Grainst  
Lithogr  
Microxln  
Mudst  
Packst  
Wackest

# OTHER SYMBOLS

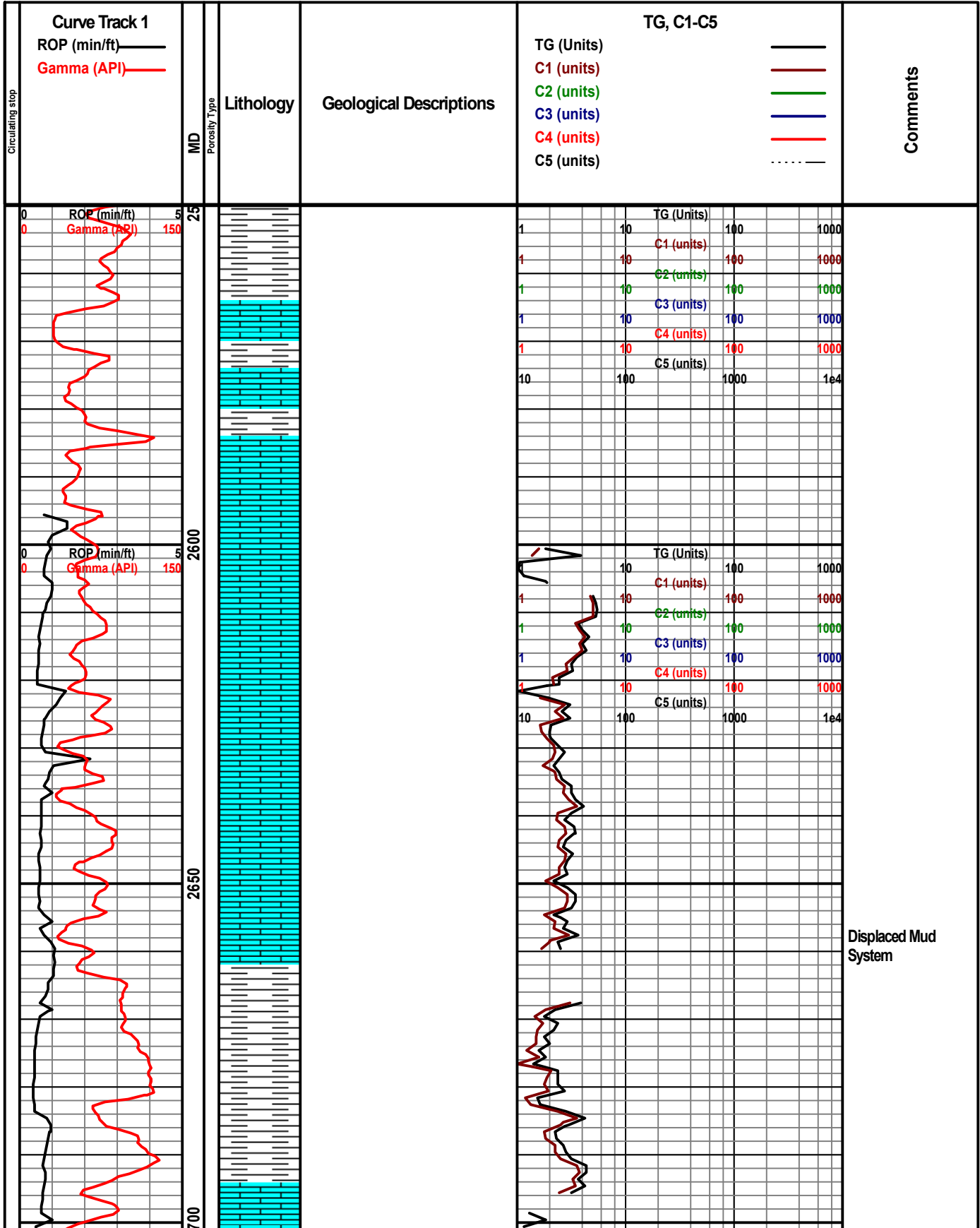
**POROSITY**  
 [E] Earthy  
 [F] Fenest  
 [F] Fracture  
 [X] Inter  
 [M] Moldic  
 [O] Organic  
 [P] Pinpoint

[V] Vuggy  
**SORTING**  
 [W] Well  
 [M] Moderate  
 [P] Poor

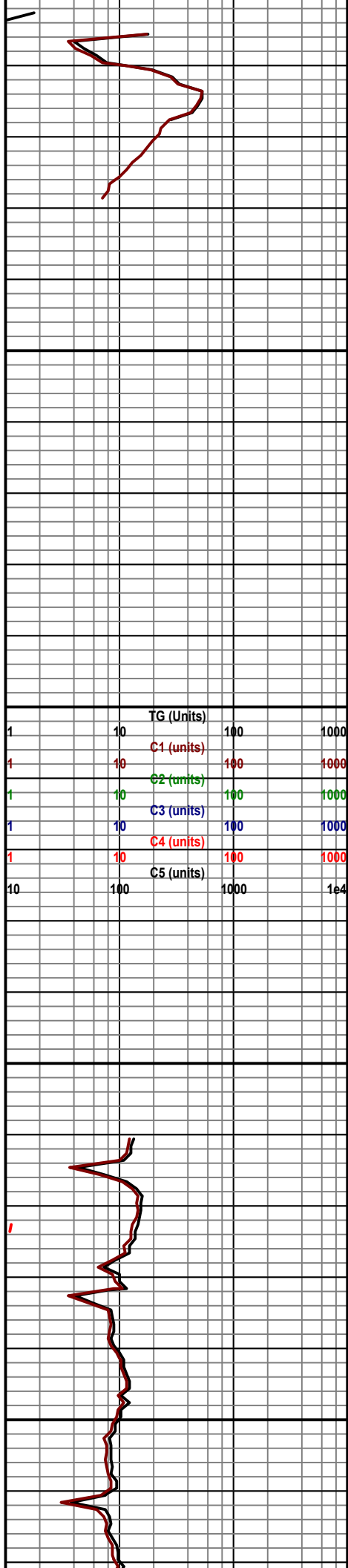
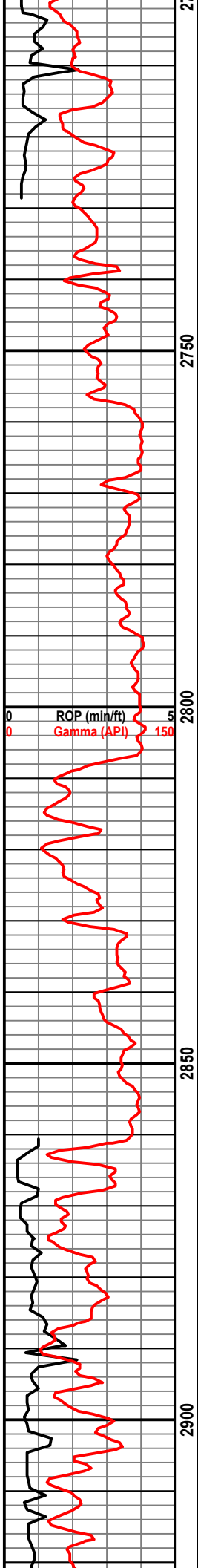
**ROUNDING**  
 [R] Rounded  
 [r] Subrnd  
 [a] Subang  
 [A] Angular  
**OIL SHOW**  
 [●] Even

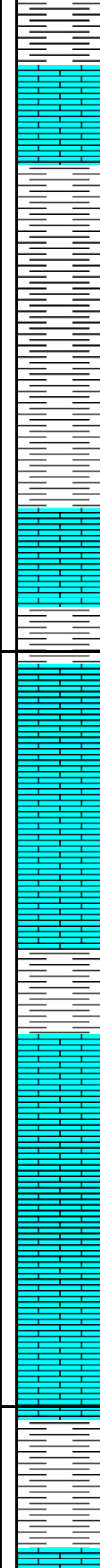
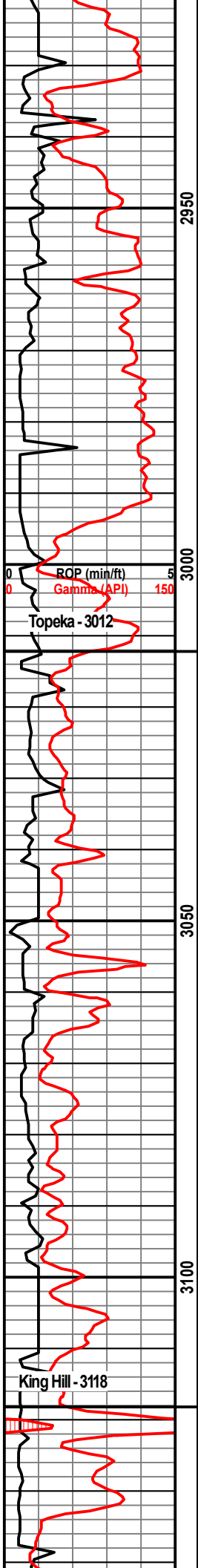
[●] Spotted  
 [○] Ques  
 [D] Dead  
**INTERVAL**  
 [■] Core  
 [■] Dst 2  
 [■] Dst

**EVENT**  
 [▲] Rft  
 [▲] Sidewall



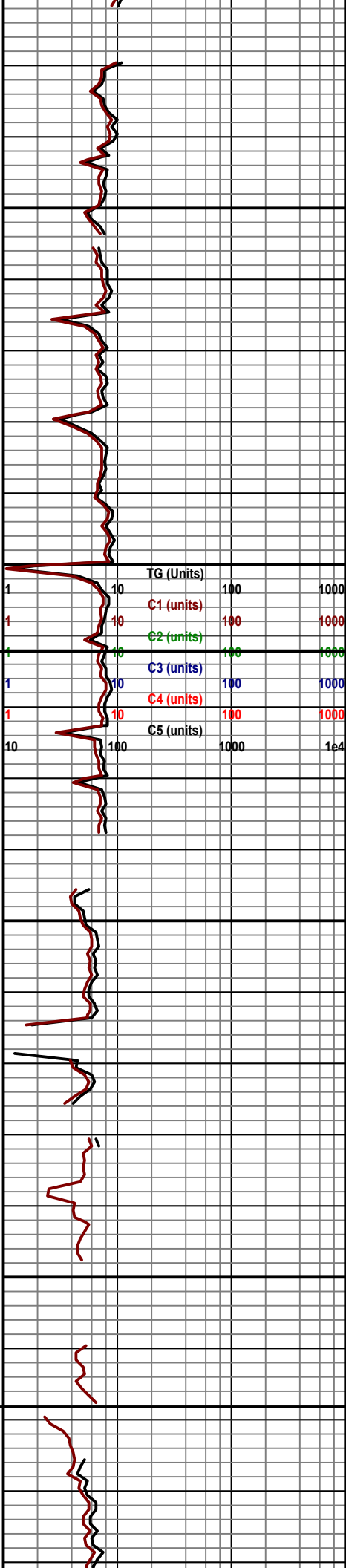
- Mud Chek -  
Depth: 2722  
Wt: 8.5  
Vis: 68  
Fil: 8.0  
Chl: 7,000  
Lcm: 1.5

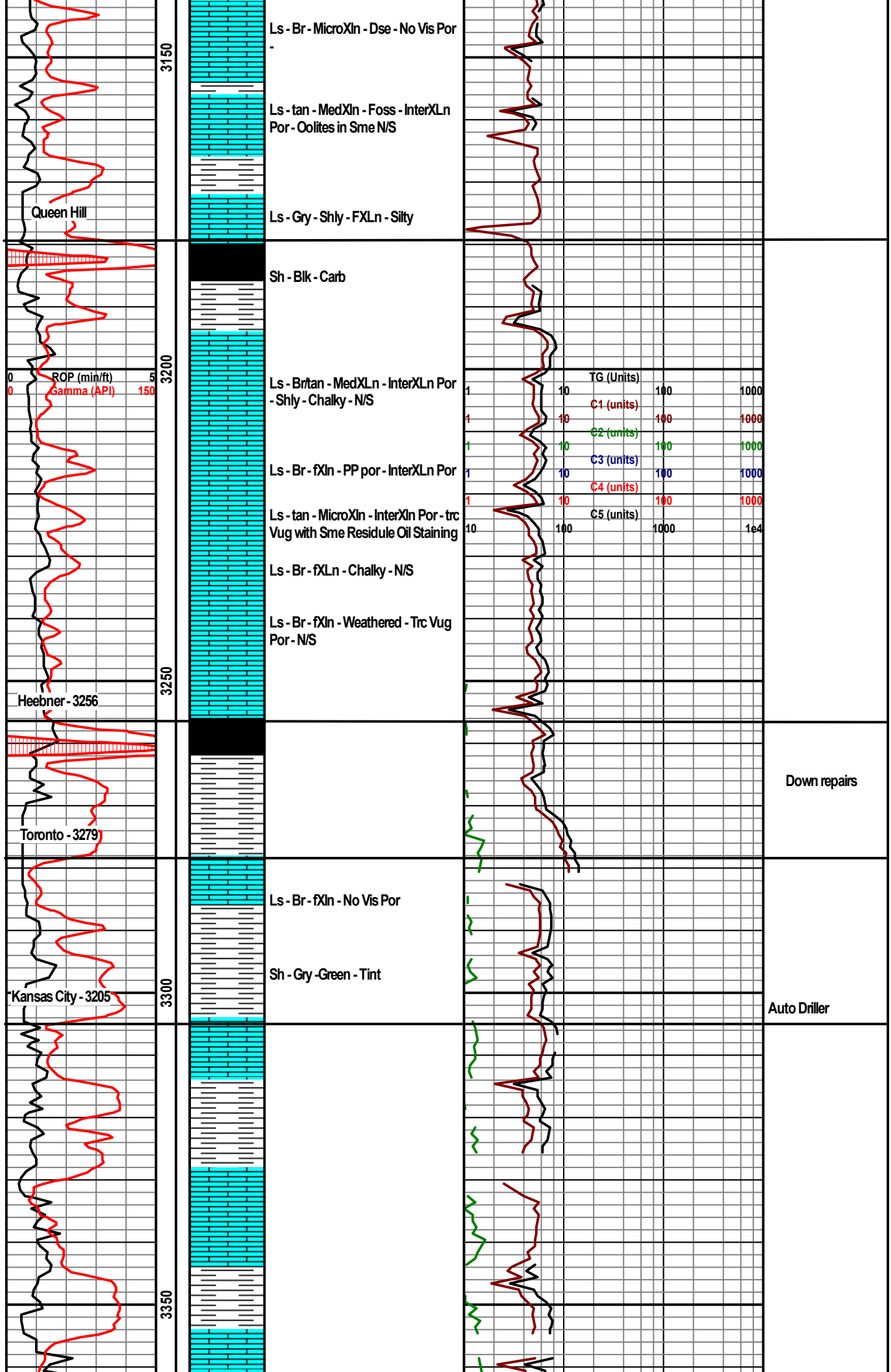




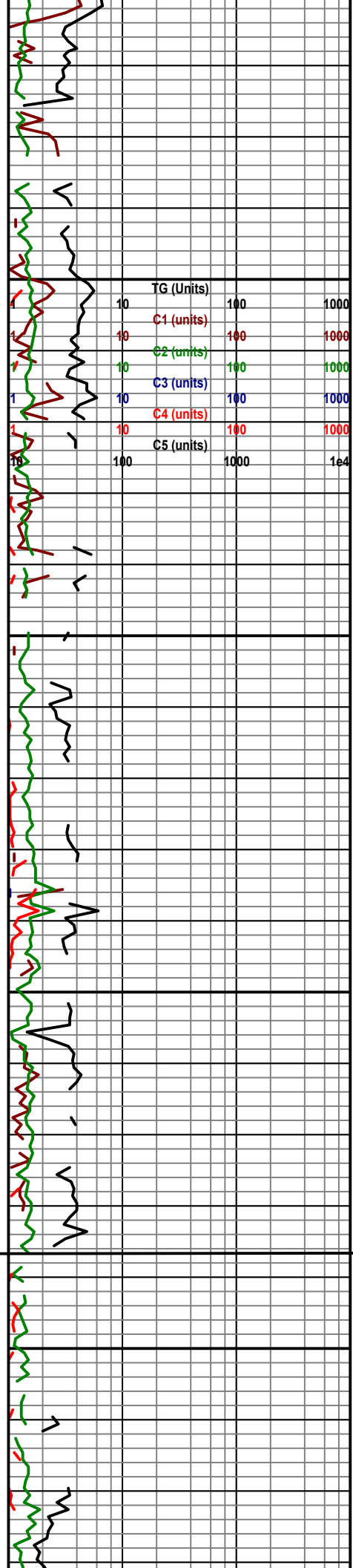
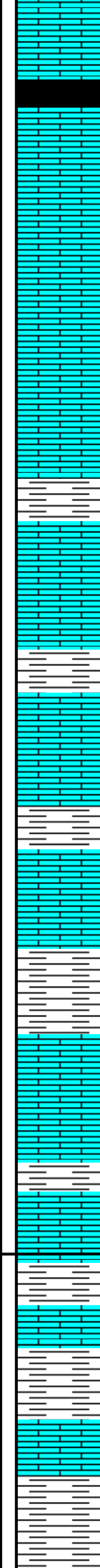
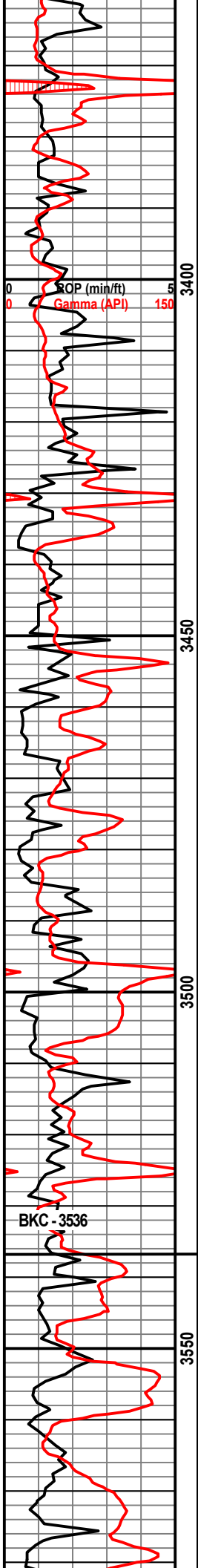
Ls - Gry - MedXLn - No vis Por

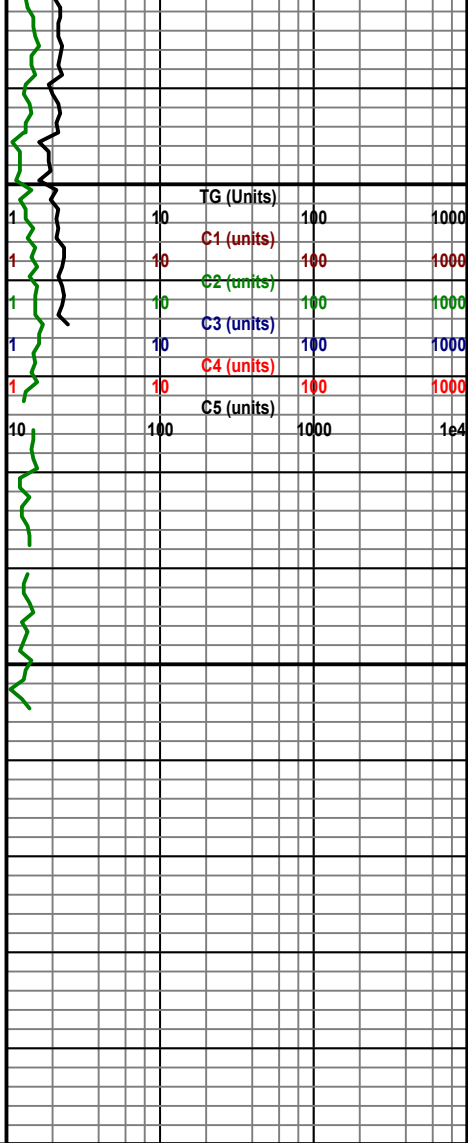
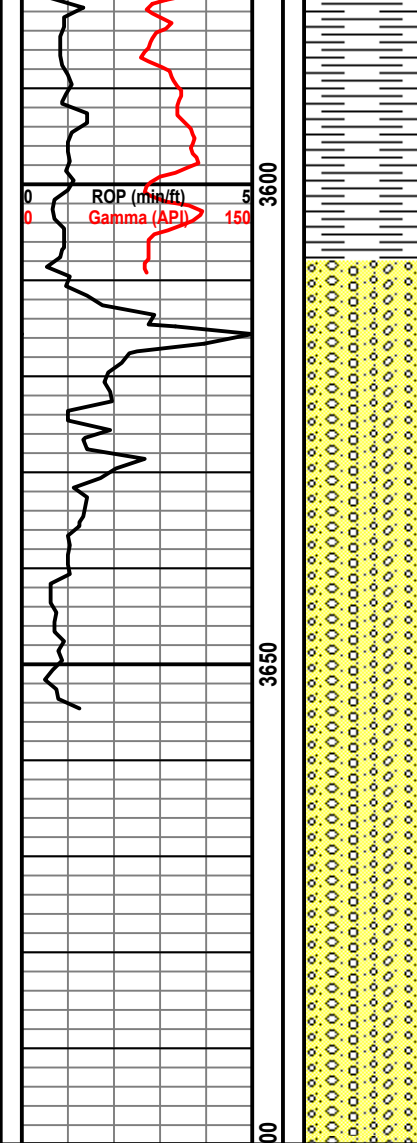
Ls - Tan/Gry - MedXLn - Weathered  
- PP Por - Chalky - N/S











**Jesse Dinkel**

1029 E 7th  
Russell, KS 67665

Phone # 7854839146

Date	Invoice #
10/24/2022	1193

Bill To
Satchell Creek Petroleum LLC PO Box 2399 Wichita, KS 67202

Terms	Lease
	Cathedral A2

Description	Amount
10/7/2022	1,200.00
10/11/2022	1,200.00
10/12/2022	1,200.00
10/13/2022	1,200.00
10/25/2022	1,200.00

Thank you for your business.	<b>Total</b>	<b>\$6,000.00</b>
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Satchell Creek Petroleum LLC

Cathedral A2

Ellis County

Sec 11 T13S R17W

10/7/22

Schecks backfilled cellar and leveled location. MIRU HWS, unloaded 2 7/8 tbg from sunrise. RIH w/4 7/8 Varel L1 bit, tagged DV tool @ 1215'. RU PPS mud pump and swivel and started drilling on DV tool. SD @ 3:00 due to rain.

10/10/22

Finished drilling DV tool out, reamed threw dv till it was smooth. COOH with tbg and bit. RU Log-Tech and ran bond log. SD

10/11/22

Swabbed CSG down to 3500', RU Kansas Acid and dumped 600 gal acetic down the csg. RU log-tech and perforated J 3487-89, A 3306-09, Toronto 3279-82, Topeka 3077-78, Topeka 3044-50. RIH w/tools to 2700' SD.

10/12/22

Finished running tools to bottom located csg cl and started PPI with 600 gal 15% INS. 3487-89 we couldn't break down. Moved up to 3077-78 and put 1 bbl in it. Moved up to 3044-50 and put 2 bbl per ft in. Fished valves and started swabbing. Recovered 11bbl

1 hr pull 250' with a show. Recovered 1.4 bbl.

SD

10/13/22

Had 5# on tbg, tagged FL @ 1800' all water. Recovered 5.22 bbl, let sit 15 min and it was dry.

Released tools and moved down and straddled Topeka 3077-78. Swabbed down and recovered 9.28 bbl.

15 min – 100' water

15 min – 120' water

Recovered 1.16 bbl.

Released tools and moved down and straddled Toronto 3279-82, swabbed down and recovered 9.28 bbl. 15 min test was dry. Released tools and moved down and straddled A 3306-08. Swabbed down recovered 3.48 bbl. 15 min test – dry. Released tools and moved down and straddled the J 3487-89. Swabbed down recovered 5.58 bbl. 15 min test – dry. Released PKR ran down to spot acid.

Treated with 500 gal 15% INS. Treated @ 6.8 bpm 1500#. ISIP-100#, 15 seconds to 0#, vac in 3 min. total load was 32 bbl. Started swabbing, tagged fluid 200' from surface. Recovered 18 bbl on swab down. 15 min test – 200' slight show.

Released tools and moved up to the A zone to treat w/3000gal. Communicated up to the Toronto @ 24 bbl. Pumped 48 bbl water down BS. Pulled pkr up above Toronto and treated @ 7 bpm 1200#, broke back to 1050#. ISIp – 0# Total load 97 bbl. Let sit 30 min and started swabbing. Swabbed for 1.5 hrs and recovered 35.96 bbl with slight show of oil. SD

10/14/22

Had 35# on tbq. Tagged Fl @ 1150' had a scum of oil. Swabbed for 1 hr, last pull was 450' with a slight show. Recovered 23.2 bbl for the hr. Swabbed steady and pulled it down to 250' a pull, recovered 7 bbl. Released PKR and made 4 pulls.

RDMO

10/24/22

MIRU HWS, RU swab. Tagged fluid @ 1600' from surface, all water. Ran down released plug and went down to 3513'. Started swabbing. Recovered 30.16 bbl of water. SD

10/25/22

Tagged Fluid @ 1750', no oil. Swabbed steady for 4 hrs and recovered 48 bbl, no oil. Pulled tools and RDMO







# CEMENT TREATMENT REPORT

Customer:	Satchell Creek Petroleum	Well:	Cathedral A #2	Ticket:	WP 3368
City, State:	Victoria KS	County:	Ellis KS	Date:	9/13/2022
Field Rep:	Taylor Leiker	S-T-R:	11-13S-17W	Service:	2 Stage

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7 7/8 in	Blend:	H-BT	Blend:	H-Con
Hole Depth:	3655 ft	Weight:	15.5 ppg	Weight:	12 ppg
Casing Size:	5 1/2 in	Water / Sx:	3.8 gal / sx	Water / Sx:	15.5 gal / sx
Casing Depth:	3644 ft	Yield:	1.04 ft <sup>3</sup> / sx	Yield:	2.56 ft <sup>3</sup> / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	0.0309 bbs / ft.	Annular Bbls / Ft.:	0.0309 bbs / ft.
Depth:	ft	Depth:	3644 ft	Depth:	1221 ft
Tool / Packer:	DV Tool	Annular Volume:	112.6 bbls	Annular Volume:	37.7289 bbls
Tool Depth:	1221 ft	Excess:		Excess:	
Displacement:	85.7 bbls	Total Slurry:	29.6 bbls	Total Slurry:	136.7 bbls
		Total Sacks:	160 sx	Total Sacks:	300 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
6:10 AM			-	-	Arrived on location
6:20 AM				-	Safety meeting
6:30 AM				-	Rigged up
11:37 AM				-	Set DV Tool between joints 57-58 @ 1221'
12:18 PM				-	Casing on bottom
12:44 PM				-	Dropped ball and circulated mud 1 hour
1:56 PM	3.5	150.0	10.0	10.0	Water ahead
1:59 PM	3.5	200.0	12.0	22.0	Pumped 500 gallons mud flush
2:04 PM	3.5	200.0	10.0	32.0	Water behind
2:17 PM	3.8	250.0	29.6	61.6	Mixed 160 sacks Lead H-BT cement @ 15.5 ppg mud scale verified
2:29 PM				61.6	Shut down, loaded plug, cleared pump and lines
2:36 PM	6.2	200.0	50.0		Begin water displacement with 2% KCL in first 40 bbls
2:46 PM	6.2	300.0	35.7		Begin mud displacement
2:52 PM		1,300.0			Plug down with 550 landing psi and 1300 bump psi
2:55 PM					Released pressure plug held with 1/2 bbl back to tank
3:01 PM					Dropped bomb and waited 20 minutes
3:24 PM	2.0	1,000.0	0.5		Opened tool 2 bpm @ 1000 psi with .5 bbl mud and circulated for 2 hours
5:29 PM	3.4	100.0	10.0		Water ahead
5:35 PM	2.7	100.0	13.6		Mixed 30 sacks for rat hole plug
5:42 PM	5.5	250.0	123.1		Mixed 270 sacks Tail H-Con cement @ 12.0 ppg mud scale verified
6:04 PM					Shut down, loaded plug, cleared pump and lines
6:14 PM	6.2	250.0	29.0		Begin displacement
6:21 PM		1,450.0			Plug down with 450 landing psi and 1450 bump psi, cement was spotted in cellar
6:23 PM					Released pressure plug held with 1/4 bbl back to tank
6:25 PM					Washed up and rigged down
7:00 PM					Left location

CREW		UNIT	SUMMARY		
Cementer:	John	73	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Jose V	208	4.2 bpm	442 psi	324 bbls
Bulk #1:	Tyler	527-235			
Bulk #2:	Kale	180-250			



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-2**

SEC: 11 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
Rig #1  
Elevation: 2029 Sur  
Field Name: Catharine East  
Pool: Infield  
Job Number: 603  
API #: 15-051-27050-00-00

**Operation:**

Uploading recovery &  
pressures

**DATE**

September  
**12**  
2022

**DST #1      Formation: LKC I - L      Test Interval: 3359 - 3550'      Total Depth: 3655'**

Time On: 00:27 09/12      Time Off: 07:58 09/12  
Time On Bottom: 03:51 09/12      Time Off Bottom: 05:51 09/12

Electronic Volume  
Estimate:

45'

1st Open

Minutes: 30

Current Reading:

4.1" at 30 min

Max Reading: 4.1"

1st Close

Minutes: 30

Current Reading:

0" at 30 min

Max Reading: 0"

2nd Open

Minutes: 30

Current Reading:

1" at 30 min

Max Reading: 1"

2nd Close

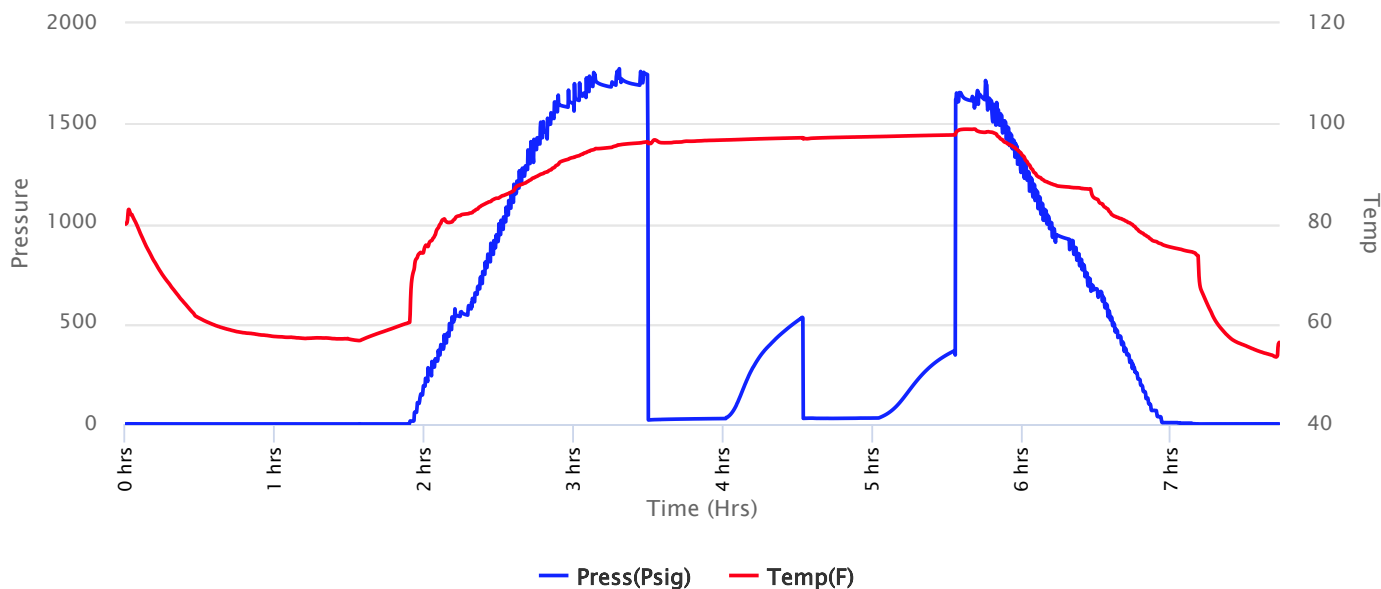
Minutes: 30

Current Reading:

0" at 30 min

Max Reading: 0"

Inside Recorder







**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-2**

SEC: 11 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
Rig #1  
Elevation: 2029 Sur  
Field Name: Catharine East  
Pool: Infield  
Job Number: 603  
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pressures

**DATE**

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2022

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Time On: 00:27 09/12 Time Off: 07:58 09/12  
Time On Bottom: 03:51 09/12 Time Off Bottom: 05:51 09/12

Recovered

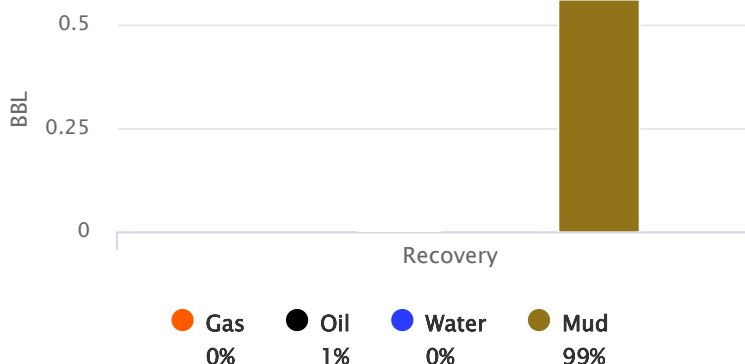
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
40	0.5692	SLOCM	0	1	0	99

Total Recovered: 40 ft

Total Barrels Recovered: 0.5692

Reversed Out  
NO

**Recovery at a glance**



Initial Hydrostatic Pressure	1745	PSI
Initial Flow	21 to 28	PSI
<b>Initial Closed in Pressure</b>	<b>533</b>	<b>PSI</b>
Final Flow Pressure	29 to 30	PSI
<b>Final Closed in Pressure</b>	<b>368</b>	<b>PSI</b>
Final Hydrostatic Pressure	1655	PSI
Temperature	98	°F
Pressure Change Initial Close / Final Close	31.0	%

GIP cubic foot volume: 0



**Company: Satchell Creek  
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County: ELLIS  
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Drilling Contractor: Feature Drilling  
Rig #1  
Elevation: 2029 Sur  
Field Name: Catharine East  
Pool: Infield  
Job Number: 603  
API #: 15-051-27050-00-00

**Operation:**

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pressures

**DATE**

September  
**12**  
2022

**DST #1      Formation: LKC I - L      Test Interval: 3359 - 3550'      Total Depth: 3655'**

Time On: 00:27 09/12

Time Off: 07:58 09/12

Time On Bottom: 03:51 09/12

Time Off Bottom: 05:51 09/12

**BUCKET MEASUREMENT:**

1st Open: 1.75 built to 3.5

1st Close: No return

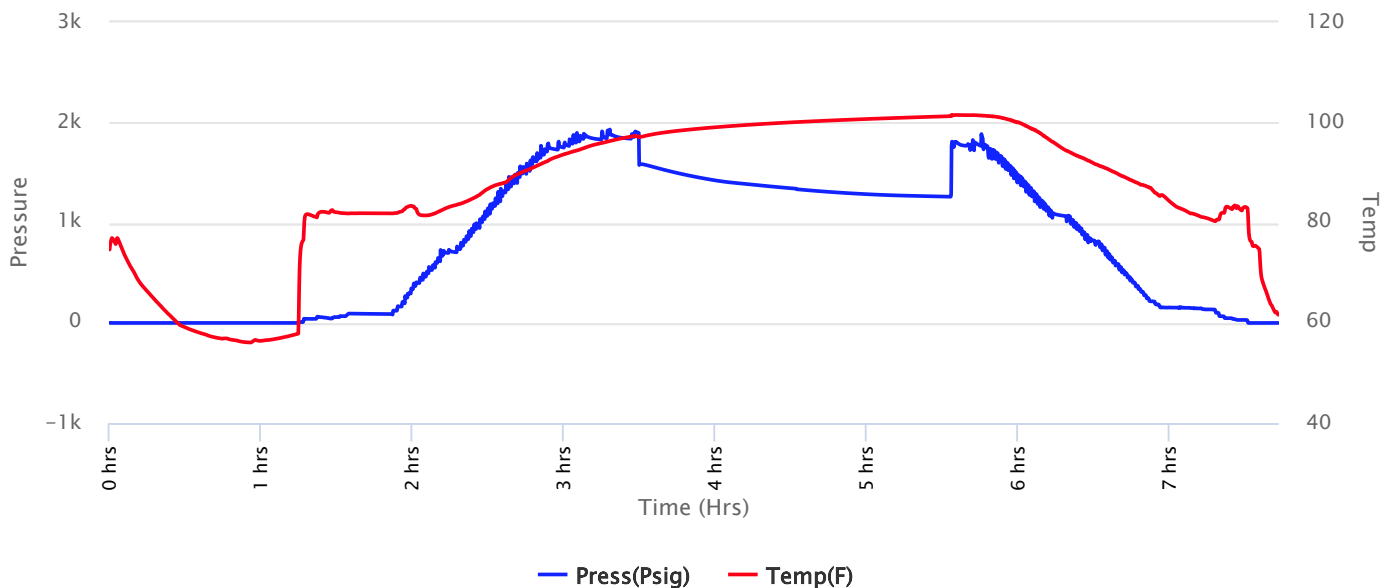
2nd Open: Surface blow built to .5

2nd Close: No return

**REMARKS:**

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

**Below Straddle Recorder**





**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-2**

SEC: 11 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
Rig #1  
Elevation: 2029 Sur  
Field Name: Catharine East  
Pool: Infield  
Job Number: 603  
API #: 15-051-27050-00-00

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pressures

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**12**  
2022

**DST #1      Formation: LKC I - L      Test Interval: 3359 - 3550'      Total Depth: 3655'**

Time On: 00:27 09/12      Time Off: 07:58 09/12  
Time On Bottom: 03:51 09/12      Time Off Bottom: 05:51 09/12

**Down Hole Makeup**

**Heads Up:** 23.21 FT

**Packer 1:** 3354.42 FT

**Drill Pipe:** 3350.06 FT  
*ID-3 1/2*

**Packer 2:** 3359.42 FT

**Weight Pipe:** FT

**Packer 3:** 3550 FT

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

**Top Recorder:** 3343.84 FT

**Test Tool:** 33.57 FT  
*ID-3 1/2-FH  
Jars  
Safety Joint*

**Bottom Recorder:** 3522 FT

**Below Straddle Recorder:** 3647 FT

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

**Surface Choke:** 1"

**Total Anchor:** 190.58

**Bottom Choke:** 5/8"

**Anchor Makeup**

**Packer Sub:** 1 FT

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

**Change Over:** .5 FT

**Drill Pipe: (in anchor):** 156.58 FT  
*ID-3 1/2*

**Change Over:** .5 FT

**Perforations: (below):** 29 FT  
*4 1/2-FH*

**STRADDLE**

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

**Change Over:** 1 FT

**Drill Pipe:** 93.71 FT  
*ID-3 1/2"*

Change Over: 1 FT

Perforations (in tail pipe): 9 FT

4 1/2-FH



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Lease: Cathedral #A-2**

SEC: 11 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
Rig #1  
Elevation: 2029 Sur  
Field Name: Catharine East  
Pool: Infield  
Job Number: 603  
API #: 15-051-27050-00-00

**DST #1      Formation: LKC I - L      Test Interval: 3359 -      Total Depth: 3655'**  
**3550'**

Time On: 00:27 09/12

Time Off: 07:58 09/12

Time On Bottom: 03:51 09/12

Time Off Bottom: 05:51 09/12

**Mud Properties**

**Mud Type:** Chem

**Weight:** 9.6

**Viscosity:** 49

**Filtrate:** 8.8

**Chlorides:** 12000 ppm

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pressures

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Lease: Cathedral #A-2**

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County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
Rig #1  
Elevation: 2029 Sur  
Field Name: Catharine East  
Pool: Infield  
Job Number: 603  
API #: 15-051-27050-00-00

**DST #1      Formation: LKC I - L      Test Interval: 3359 - 3550'      Total Depth: 3655'**

Time On: 00:27 09/12

Time Off: 07:58 09/12

Time On Bottom: 03:51 09/12

Time Off Bottom: 05:51 09/12

### Gas Volume Report

**1st Open**

Time	Orifice	PSI	MCF/D
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**2nd Open**

Time	Orifice	PSI	MCF/D
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**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-2**

SEC: 11 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2029 GL  
Field Name: Catharine East  
Pool: Infield  
Job Number: 603  
API #: 15-051-27050-00-00

**Operation:**

Well Complete

**DATE**

September

**12**

2022

**DST #2**

**Formation: Topeka**

**Test Interval: 3030 -  
3072'**

**Total Depth: 3655'**

Time On: 10:15 09/12

Time Off: 16:02 09/12

Time On Bottom: 12:35 09/12

Time Off Bottom: 13:45 09/12

Electronic Volume  
Estimate:

0'

**1st Open**

Minutes: 30

Current Reading:

0" at 30 min

Max Reading: 0"

**1st Close**

Minutes: 30

Current Reading:

0" at 30 min

Max Reading: 0"

**2nd Open**

Minutes: 10

Current Reading:

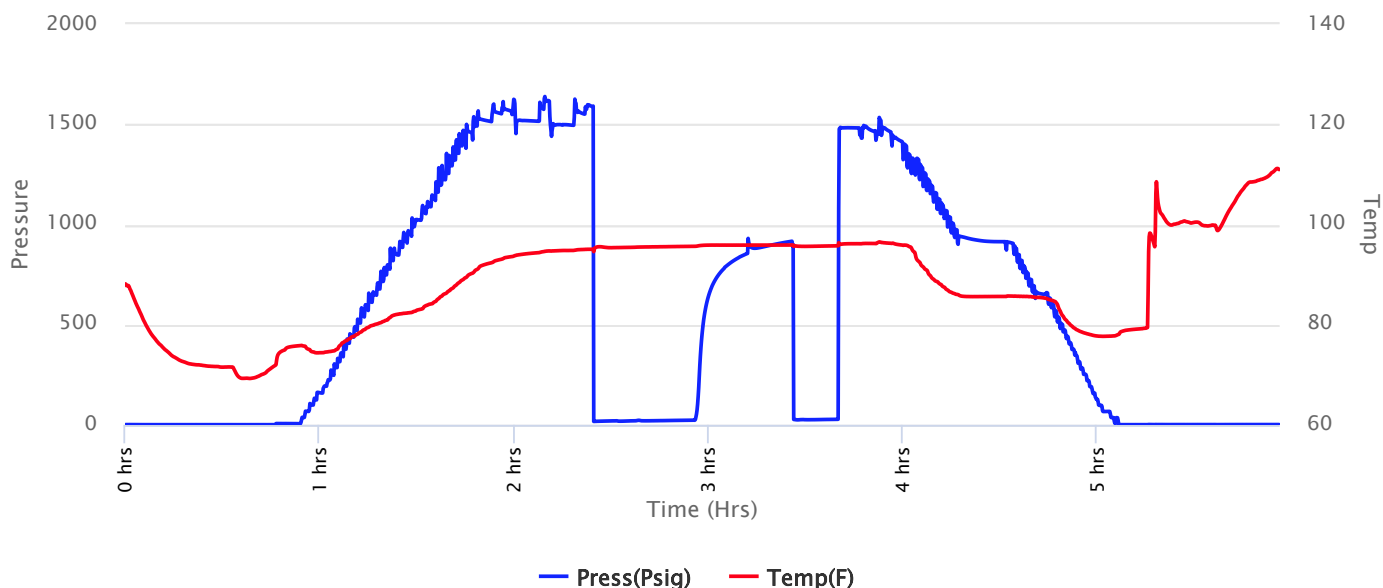
0" at 10 min

Max Reading: 0"

**2nd Close**

N/A

Inside Recorder



**Operation:**

Well Complete

# Company: Satchell Creek Petroleum, LLC Lease: Cathedral #A-2

SEC: 11 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2029 GL  
Field Name: Catharine East  
Pool: Infield  
Job Number: 603  
API #: 15-051-27050-00-00

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**12**

2022

**DST #2****Formation: Topeka****Test Interval: 3030 -  
3072'****Total Depth: 3655'**

Time On: 10:15 09/12

Time Off: 16:02 09/12

Time On Bottom: 12:35 09/12

Time Off Bottom: 13:45 09/12

RecoveredFootBBLs

10

0.1423

Description of Fluid

M

Gas %

0

Oil %

0

Water %

0

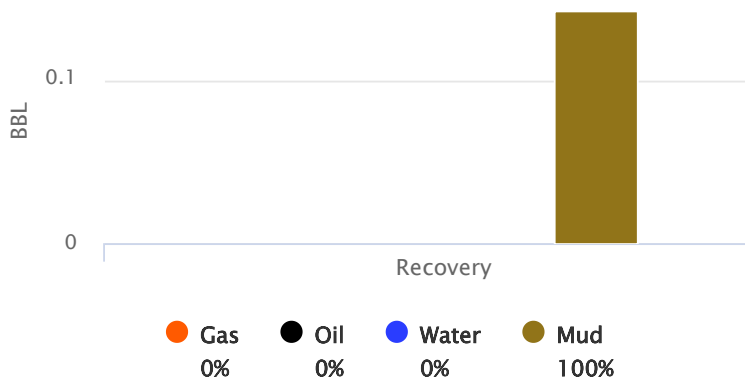
Mud %

100

Total Recovered: 10 ft

Total Barrels Recovered: 0.1423

Reversed Out  
NO

**Recovery at a glance**

Initial Hydrostatic Pressure	1590	PSI
Initial Flow	18 to 24	PSI
<b>Initial Closed in Pressure</b>	<b>913</b>	<b>PSI</b>
Final Flow Pressure	25 to 28	PSI
<b>Final Closed in Pressure</b>	<b>0</b>	<b>PSI</b>
Final Hydrostatic Pressure	1483	PSI
Temperature	96	°F

Pressure Change Initial	0.0	%
Close / Final Close		

GIP cubic foot volume: 0





**Operation:**

Well Complete

**Company: Satchell Creek  
Petroleum, LLC  
Lease: Cathedral #A-2**

SEC: 11 TWN: 13S RNG: 17W  
County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2029 GL  
Field Name: Catharine East  
Pool: Infield  
Job Number: 603  
API #: 15-051-27050-00-00

**DATE**

September  
**12**  
2022

**DST #2**

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**BUCKET MEASUREMENT:**

1st Open: 1/2 in. blow. Died in 3 mins.

1st Close: No blow back.

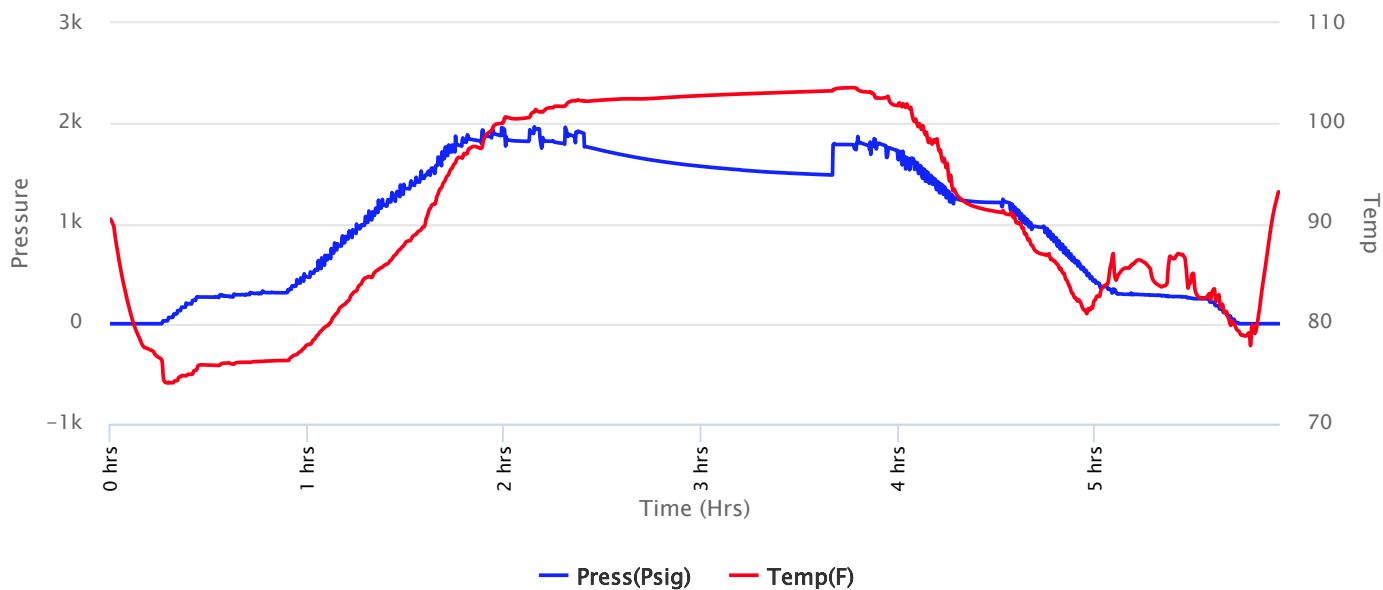
2nd Open: No blow.

2nd Close: N/A

**REMARKS:**

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

**Below Straddle Recorder**





**Operation:**

Well Complete

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State: Kansas  
Drilling Contractor: Feature Drilling  
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**DST #2      Formation: Topeka      Test Interval: 3030 - 3072'      Total Depth: 3655'**

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**Down Hole Makeup**

**Heads Up:** 37.65 FT

**Packer 1:** 3025 FT

**Drill Pipe:** 3035.08 FT

**Packer 2:** 3030 FT

*ID-3 1/2*

**Packer 3:** 3072 FT

**Weight Pipe:** FT

**Top Recorder:** 3014.42 FT

**Collars:** 0 FT

**Bottom Recorder:** 3032 FT

*ID-2 1/4*

**Below Straddle Recorder:** 3641 FT

**Test Tool:** 33.57 FT

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

*ID-3 1/2-FH*

*Jars*

**Surface Choke:** 1"

*Safety Joint*

**Bottom Choke:** 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*

**STRADDLE**

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

**Change Over:** 1 FT

**Drill Pipe:** 565.57 FT

*ID-3 1/2"*

Change Over: 1 FT

Perforations (in tail pipe): 15 FT

4 1/2-FH



Operation:

Well Complete

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Lease: Cathedral #A-2**

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County: ELLIS  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 1  
Elevation: 2029 GL  
Field Name: Catharine East  
Pool: Infield  
Job Number: 603  
API #: 15-051-27050-00-00

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**DST #2**

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### **Mud Properties**

**Mud Type:** Chemical

**Weight:** 9.6

**Viscosity:** 49

**Filtrate:** 8.8

**Chlorides:** 12,000 ppm



**Operation:**

Well Complete

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### 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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