

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)</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	WORCESTER A 3-21
Doc ID	1717315

All Electric Logs Run

DUCP
DIL
MEL
BHCS

Form	ACO1 - Well Completion
Operator	Satchell Creek Petroleum, LLC
Well Name	WORCESTER A 3-21
Doc ID	1717315

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
4	3644	3652			500 gal; 15% HCl
4	3466	3470			500 gal; 15% HCl
4	3499	3504			500 gal; 15% HCl
4	3516	3519			500 gal; 15% HCl
4	3538	3542			500 gal; 15% HCl
4	3549	3552			500 gal; 15% HCl





416 Main Street  
P.O. Box 225  
Victoria, KS 67671  
Office (785) 639-3949  
24 Hour Service Line (785) 639-7269

# Invoice

Date	Invoice #
2/20/2023	0870

Please Pay from this Invoice.  
Remit Payment to:  
416 Main Street PO BOX 225  
Victoria, KS 67671  
Billing Questions-Call Tianna at  
(785) 639-3949  
Email: franksoilfield@yahoo.com

KCC License Number  
35469

Bill To
Satchell Creek Petroleum, LLC 3032 N Cortina St Wichita, KS 67205

County/State	Lease/Well#	Terms	Job Type
Graham County, KS	Worcester A 3-21	Net 30	Surface

Description	Quantity	Rate	Amount
Pump Charge	1	1,500.00	1,500.00
Mileage	47	6.50	305.50
8.58 tons at 47 miles	403.26	1.50	604.89
Surface Blend	175	25.50	4,462.50T
Salt	100	0.50	50.00T
Sugar	28	2.00	56.00T
Standby time - per employee after 4 hours	8	100.00	800.00T

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.	<b>Subtotal</b>	\$7,778.89
<i>We appreciate your business and look forward to serving you again!</i>	<b>Sales Tax (7.5%)</b>	\$402.64
	<b>Balance Due</b>	\$8,181.53



## TERMS

In consideration of the prices to be charged for Franks Oilfield Service (FOS) services, equipment and products and for the performance of services and supplying of materials, Customer agrees to the following terms and conditions.

Terms. Cash in advance unless satisfactory credit is established. On credit sales, invoices are payable within 30 days of the invoice date. On all invoices not paid within 30 days, Customer agrees to pay FOS interest at the rate of 18% per annum or the maximum rate allowed by law, whichever is higher. In the event FOS retains an attorney to pursue collection of any account, Customer agrees to pay all collection costs and attorney's fees incurred by FOS.

Any applicable federal, state or local sales, use occupation, consumer's or emergency taxes shall be added to the quoted price. All process license fees required to be paid to others will be added to the scheduled prices.

All FOS prices are subject to change without notice.

## SERVICE CONDITIONS

Customer warrants that the well is in proper condition to receive the services, equipment, products and materials to be supplied by FOS. The Customer shall at all time have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises about the well. A responsible representative of the Customer shall be present to specify depths, pressures, or materials used for any service which is to be performed.

(a) FOS shall not be responsible for any claim, cause of action or demand (hereinafter referred to as a 'claim') for damage to property, or injury to or death of employees and representatives, of Customer or the well owner (if different from Customer), unless such damage, injury or death is caused by the willful misconduct or gross negligence of FOS, including but not limited to sub-surface damage and surface damage arising from sub-surface damage.

(b) Unless a claim is the result of the sole willful misconduct or gross negligence of FOS, Customer shall be responsible for and indemnify and hold FOS harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout; (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by FOS; (3) injury to or death of persons, other than employees of FOS, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hold; and (4) well damage or reservoir damage caused by (i) loss of circulation, cement invasion, cement misplacement, pumping cement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) sub-surface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing, plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. FOS may furnish down hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage, loss or result caused by the use of such tools. Furthermore, Customer will be responsible for the cost to replace such tools if they are lost or left in the well.

(c) FOS makes no guarantee of the effectiveness of any FOS' products, supplies or materials, or the results of any FOS' treatment or services.

(d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, FOS is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by FOS. FOS' personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that FOS shall not be responsible for any damage arising from the use of such information except where due to FOS' gross negligence or willful misconduct in the preparation or furnishing of it.

(e) FOS may buy and re-sell to Customer down hole equipment, including but not limited to float equipment, DV tools, port collars, type A & B packers, and Customer agrees that FOS is not an agent or dealer for the companies who manufacture such items, and further agrees that Customer shall be solely responsible for and indemnify FOS against any claim with regard to the effectiveness, malfunction of, or functionality of such items.

## WARRANTIES - LIMITATION OF LIABILITY

FOS warrants title to the products, supplies and materials, and that the same are free from defects in workmanship and materials. THERE ARE NO OTHER WARRANTIES EXPRESS OR IMPLIED, NOR ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. FOS's liability and Customer's exclusive remedy in any claim (whether in contract, tort, breach of warranty or otherwise,) arising out of the sale or use of FOS' products, supplies, materials or services is expressly limited to the replacement of such products, supplies, materials or services or their return to FOS or, at FOS' option, an allowance to Customer of credit for the cost of such items.

Customer waives and releases all claims against FOS for any special, incidental, indirect, consequential or punitive damages.



# Sean Deenihan

## Petroleum Geologist

### GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY **Satchell Creek Petroleum, LLC**  
 LEASE **Worcester A #3-21**  
 FIELD **Wildcat**

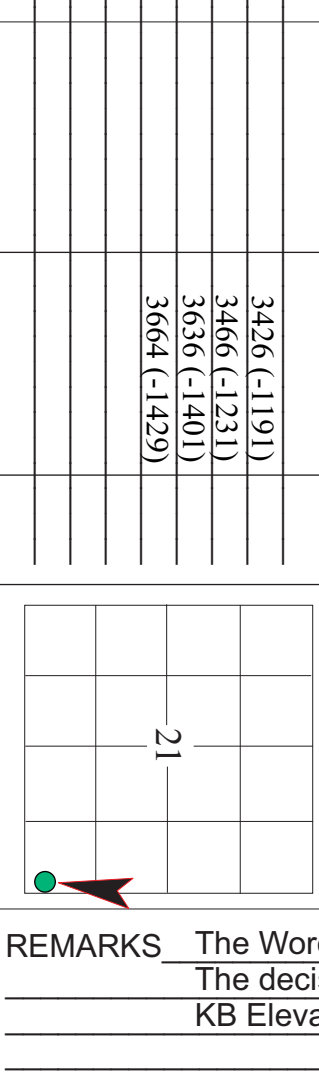
ELEVATIONS  
 KB **2235'**  
 DF \_\_\_\_\_  
 GL **2228'**  
 Measurements Are All From Kelly Bushing

LOCATION **607° FSL & 214° FEL**  
 SEC **21** TWPSP **7S** RGE **22W**  
 COUNTY **Graham** STATE **Kansas**  
 CONTRACTOR **Feature Drilling Rig #3**  
 SPUD **2/19/23** COMP **3/2/23**  
 RTD **3/708'** LTD **3716'**  
 MUD UP **3100'** TYPE MUD **Chemical**

CASING  
 CONDUCTOR \_\_\_\_\_  
 SURFACE **8-5/8"** at **263'**  
 PRODUCTION **5.5"**  
 ELECTRICAL SURVEYS  
 MIDWEST  
 GND/DIL \_\_\_\_\_  
 MIC/SON \_\_\_\_\_

SAMPLES SAVED FROM **3100'** TO **RTD**  
 DRILLING TIME KEPT FROM **3100'** TO **RTD**  
 SAMPLES EXAMINED FROM **3100'** TO **RTD**  
 GEOLOGICAL SUPERVISION FROM **3100'**  
 REFERENCE WELL \_\_\_\_\_

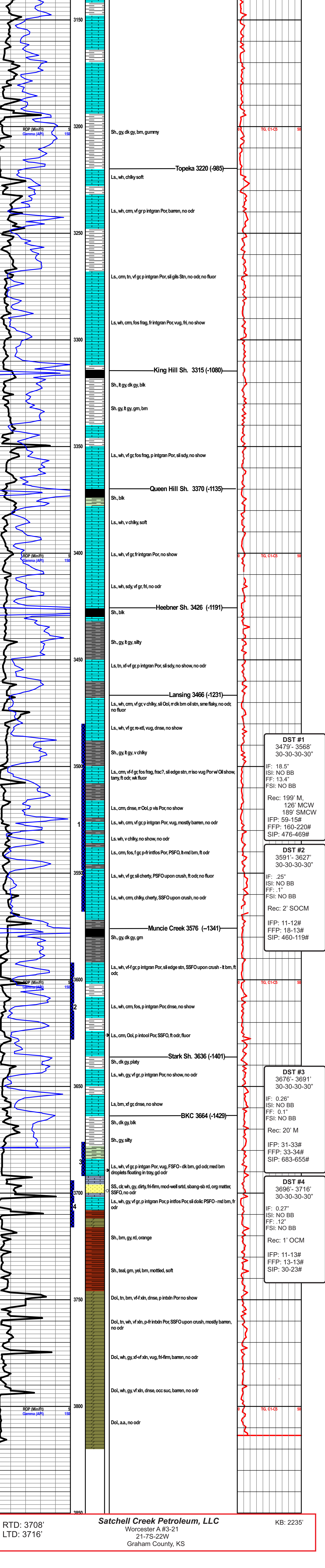
Formation	Sample Tops	E-log Tops	Struct. Foss.
Heebner Sh.	3426 (-1191)		
Lansing	3466 (-1231)		
Stark Shale	3636 (-1401)		
BKC	3664 (-1429)		



REMARKS The Worcester A #3-21 had several oil shows and indication of bottom hole pressure. The decision was made to complete this well for commercial oil production. KB Elevation was corrected after Logs were run.

Respectfully Submitted,

Sean P. Deenihan



RTD: 3708'  
 LTD: 3716'

**Satchell Creek Petroleum, LLC**  
 Worcester A #3-21  
 21-7S-22W  
 Graham County, KS

KB: 2235'



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Worcester "A" #3-21**

SEC: 21 TWN: 7S RNG: 22W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 2  
Elevation: 2220 GL  
Field Name: Alda South  
Pool: Infield  
Job Number: 644  
API #: 15-065-24231

**Operation:**  
Well Complete

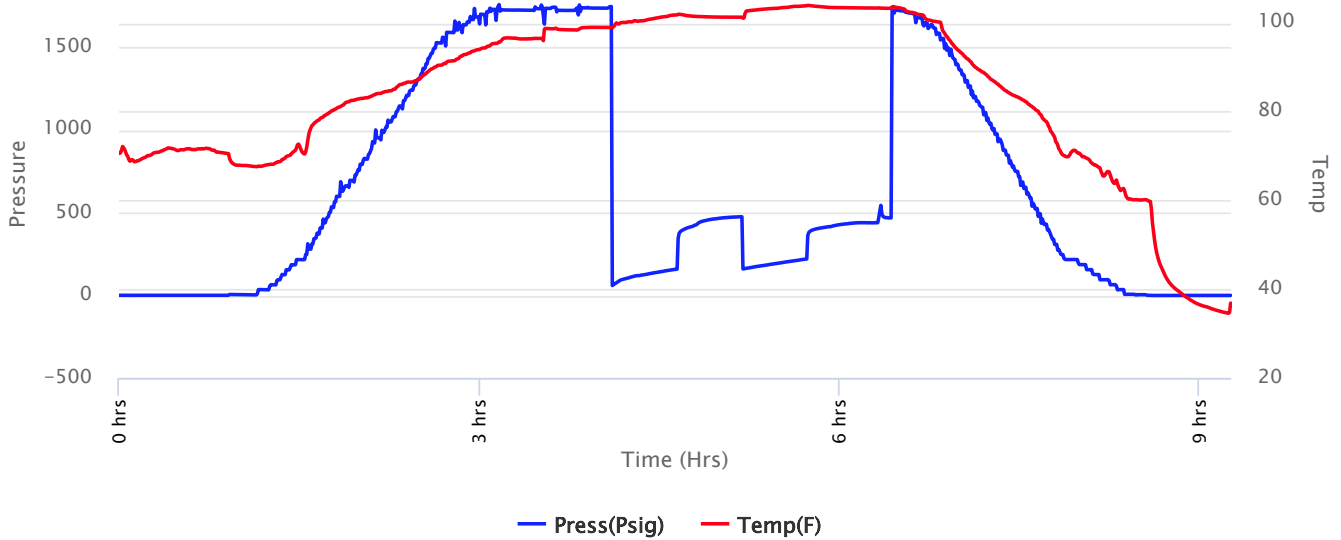
**DATE**  
February  
**27**  
2023

**DST #1**      **Formation: Upper Lans**      **Test Interval: 3479 - 3568'**      **Total Depth: 3568'**  
Time On: 14:47 02/27      Time Off: 23:54 02/27  
Time On Bottom: 18:41 02/27      Time Off Bottom: 20:41 02/27

Electronic Volume Estimate:  
399'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 30	Minutes: 30	Minutes: 30	Minutes: 30
Current Reading: 18.5" at 30 min	Current Reading: 0" at 30 min	Current Reading: 13.4" at 30 min	Current Reading: 0" at 30 min
Max Reading: 18.5"	Max Reading: 0"	Max Reading: 13.4"	Max Reading: 0"

Inside Recorder





**Company: Satchell Creek  
Petroleum, LLC  
Lease: Worcester "A" #3-21**

SEC: 21 TWN: 7S RNG: 22W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 2  
Elevation: 2220 GL  
Field Name: Alda South  
Pool: Infield  
Job Number: 644  
API #: 15-065-24231

**Operation:**  
Well Complete

**DATE**  
February  
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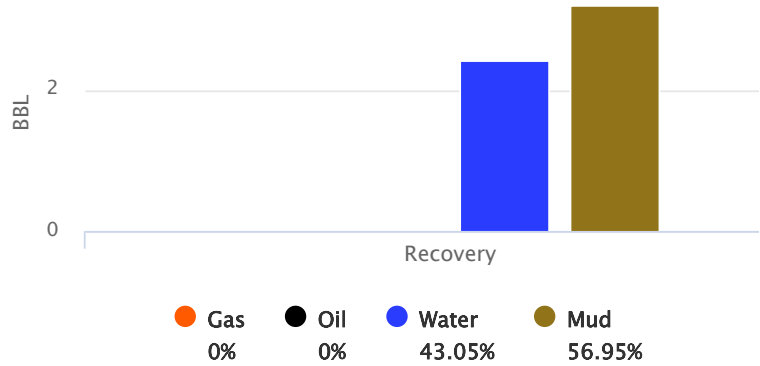
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
199	2.83177	M	0	0	0	100
126	1.79298	MCW	0	0	80	20
189	0.9952362	SLMCW	0	0	99	1

Total Recovered: 514 ft  
Total Barrels Recovered: 5.6199862

Reversed Out  
NO

**Recovery at a glance**



Initial Hydrostatic Pressure	1738	PSI
Initial Flow	59 to 159	PSI
<b>Initial Closed in Pressure</b>	<b>476</b>	<b>PSI</b>
Final Flow Pressure	160 to 220	PSI
<b>Final Closed in Pressure</b>	<b>469</b>	<b>PSI</b>
Final Hydrostatic Pressure	1727	PSI
Temperature	104	°F
Pressure Change Initial Close / Final Close	1.5	%

GIP cubic foot volume: 0



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Worcester "A" #3-21**

SEC: 21 TWN: 7S RNG: 22W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 2  
Elevation: 2220 GL  
Field Name: Alda South  
Pool: Infield  
Job Number: 644  
API #: 15-065-24231

**Operation:**  
Well Complete

**DATE**  
February  
**27**  
2023

<b>DST #1</b>	<b>Formation: Upper Lans</b>	<b>Test Interval: 3479 - 3568'</b>	<b>Total Depth: 3568'</b>
	Time On: 14:47 02/27	Time Off: 23:54 02/27	
	Time On Bottom: 18:41 02/27	Time Off Bottom: 20:41 02/27	

**BUCKET MEASUREMENT:**

1st Open: 1/2 in. blow building. BOB in 17 1/4 mins.

1st Close: No blow back.

2nd Open: 3/4 in. blow building. BOB in 26 mins.

2nd Close: No blow back.

**REMARKS:**

Tool Sample: 0% Gas 2% Oil 95% Water 3% Mud

Ph: 7

Measured RW: .9 @ 48 degrees °F

RW at Formation Temp: 0.445 @ 104 °F

Chlorides: 40,000 ppm



**Company: Satchell Creek  
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Lease: Worcester "A" #3-21**

SEC: 21 TWN: 7S RNG: 22W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 2  
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Field Name: Alda South  
Pool: Infield  
Job Number: 644  
API #: 15-065-24231

**Operation:**  
Well Complete

**DATE**  
February  
**27**  
2023

**DST #1**      **Formation: Upper Lans**      **Test Interval: 3479 - 3568'**      **Total Depth: 3568'**  
Time On: 14:47 02/27      Time Off: 23:54 02/27  
Time On Bottom: 18:41 02/27      Time Off Bottom: 20:41 02/27

**Down Hole Makeup**

<b>Heads Up:</b> 33.32 FT	<b>Packer 1:</b> 3473.13 FT
<b>Drill Pipe:</b> 3296.4 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3478.63 FT
<b>Weight Pipe:</b> FT	<b>Top Recorder:</b> 3462.05 FT
<b>Collars:</b> 181.98 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3546 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>Total Anchor:</b> 89.37	<b>Surface Choke:</b> 1"
<b><u>Anchor Makeup</u></b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 1 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 1 FT	
<b>Drill Pipe: (in anchor):</b> 62.37 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> 1 FT	
<b>Perforations: (below):</b> 23 FT <i>4 1/2-FH</i>	



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Worcester "A" #3-21**

SEC: 21 TWN: 7S RNG: 22W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 2  
Elevation: 2220 GL  
Field Name: Alda South  
Pool: Infield  
Job Number: 644  
API #: 15-065-24231

**Operation:**  
Well Complete

**DATE**  
February  
**27**  
2023

**DST #1**      **Formation: Upper  
Lans**      **Test Interval: 3479 -  
3568'**      **Total Depth: 3568'**  
Time On: 14:47 02/27      Time Off: 23:54 02/27  
Time On Bottom: 18:41 02/27      Time Off Bottom: 20:41 02/27

**Mud Properties**

**Mud Type:** Chemical      **Weight:** 9.3      **Viscosity:** 38      **Filtrate:** 8.8      **Chlorides:** 4,000 ppm





**Company: Satchell Creek  
Petroleum, LLC  
Lease: Worcester "A" #3-21**

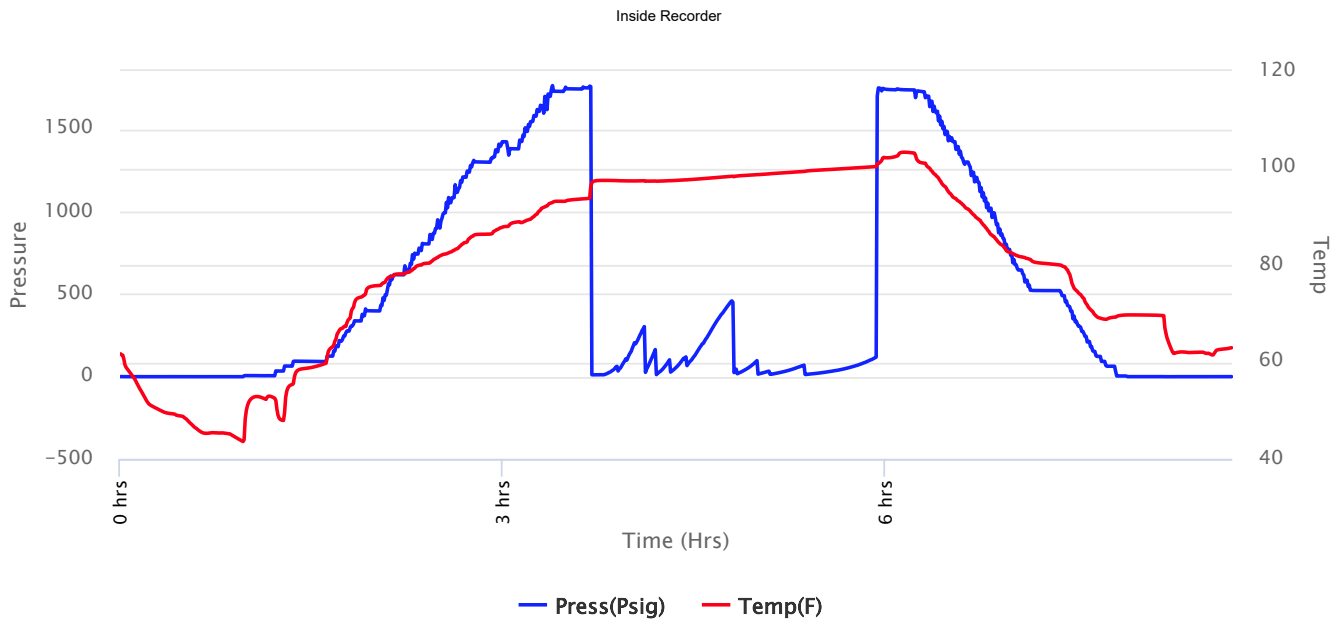
SEC: 21 TWN: 7S RNG: 22W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 2  
Elevation: 2220 GL  
Field Name: Alda South  
Pool: Infield  
Job Number: 644  
API #: 15-065-24231

**Operation:**  
Well Complete

**DATE**  
February  
**28**  
2023

**DST #2      Formation: Lans "I"      Test Interval: 3591 - 3627'      Total Depth: 3627'**  
Time On: 05:39 02/28      Time Off: 16:06 02/28  
Time On Bottom: 07:38 02/28      Time Off Bottom: 09:38 02/28

Electronic Volume Estimate:	1st Open	1st Close	2nd Open	2nd Close
g'	Minutes: 30	Minutes: 30	Minutes: 30	Minutes: 30
	Current Reading: .25" at 30 min	Current Reading: 0" at 30 min	Current Reading: .1" at 30 min	Current Reading: 0" at 30 min
	Max Reading: .25"	Max Reading: 0"	Max Reading: .1"	Max Reading: 0"







**Company: Satchell Creek  
Petroleum, LLC  
Lease: Worcester "A" #3-21**

SEC: 21 TWN: 7S RNG: 22W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 2  
Elevation: 2220 GL  
Field Name: Alda South  
Pool: Infield  
Job Number: 644  
API #: 15-065-24231

**Operation:**  
Well Complete

**DATE**  
February  
**28**  
2023

**DST #2      Formation: Lans "I"      Test Interval: 3591 - 3627'      Total Depth: 3627'**

Time On: 05:39 02/28      Time Off: 16:06 02/28  
Time On Bottom: 07:38 02/28      Time Off Bottom: 09:38 02/28

Recovered

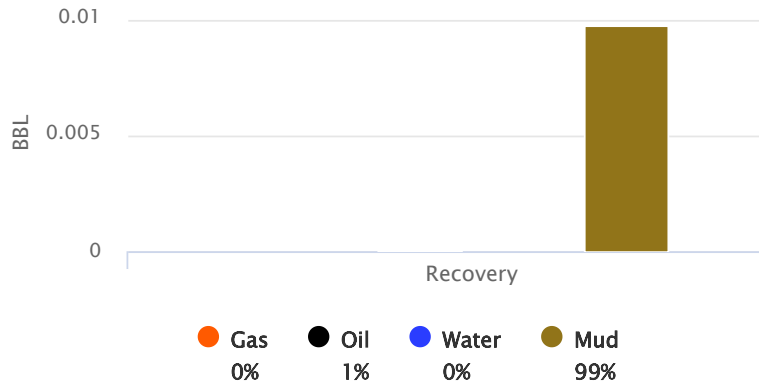
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
2	0.00984	SLOCM	0	1	0	99

Total Recovered: 2 ft  
Total Barrels Recovered: 0.00984

**Reversed Out**  
NO

Initial Hydrostatic Pressure	1754	PSI
Initial Flow	11 to 12	PSI
<b>Initial Closed in Pressure</b>	<b>460</b>	<b>PSI</b>
Final Flow Pressure	18 to 13	PSI
<b>Final Closed in Pressure</b>	<b>119</b>	<b>PSI</b>
Final Hydrostatic Pressure	1751	PSI
Temperature	100	°F
Pressure Change Initial Close / Final Close	74.3	%

**Recovery at a glance**



GIP cubic foot volume: 0



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Worcester "A" #3-21**

SEC: 21 TWN: 7S RNG: 22W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 2  
Elevation: 2220 GL  
Field Name: Alda South  
Pool: Infield  
Job Number: 644  
API #: 15-065-24231

**Operation:**  
Well Complete

**DATE**  
February  
**28**  
2023

**DST #2      Formation: Lans "I"      Test Interval: 3591 -      Total Depth: 3627'**  
**3627'**  
Time On: 05:39 02/28      Time Off: 16:06 02/28  
Time On Bottom: 07:38 02/28      Time Off Bottom: 09:38 02/28

**BUCKET MEASUREMENT:**

1st Open: Weak, surface blow building to 1/4 in. in 30 mins.  
1st Close: No blow back.  
2nd Open: Weak, surface blow. Blow didn't build.  
2nd Close: No blow back.

**REMARKS:**

Hit 9 ft. of fill.

Charts look the way they do because there was nothing there & plugging.

Tool Sample: 0% Gas 2% Oil 0% Water 98% Mud



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Worcester "A" #3-21**

SEC: 21 TWN: 7S RNG: 22W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 2  
Elevation: 2220 GL  
Field Name: Alda South  
Pool: Infield  
Job Number: 644  
API #: 15-065-24231

**Operation:**  
Well Complete

**DATE**  
February  
**28**  
2023

**DST #2      Formation: Lans "I"      Test Interval: 3591 -      Total Depth: 3627'**  
**3627'**  
Time On: 05:39 02/28      Time Off: 16:06 02/28  
Time On Bottom: 07:38 02/28      Time Off Bottom: 09:38 02/28

**Down Hole Makeup**

<b>Heads Up:</b> 11.6 FT	<b>Packer 1:</b> 3585.5 FT
<b>Drill Pipe:</b> 3387.05 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3591 FT
<b>Weight Pipe:</b> FT	<b>Top Recorder:</b> 3574.42 FT
<b>Collars:</b> 181.98 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3593 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>Total Anchor:</b> 36	<b>Surface Choke:</b> 1"
<b><u>Anchor Makeup</u></b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3 1/2</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 35 FT <i>4 1/2-FH</i>	



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Worcester "A" #3-21**

SEC: 21 TWN: 7S RNG: 22W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 2  
Elevation: 2220 GL  
Field Name: Alda South  
Pool: Infield  
Job Number: 644  
API #: 15-065-24231

**Operation:**  
Well Complete

**DATE**  
February  
**28**  
2023

**DST #2      Formation: Lans "I"      Test Interval: 3591 -      Total Depth: 3627'**  
**3627'**

Time On: 05:39 02/28      Time Off: 16:06 02/28  
Time On Bottom: 07:38 02/28      Time Off Bottom: 09:38 02/28

**Mud Properties**

**Mud Type:** Chemical      **Weight:** 9.3      **Viscosity:** 38      **Filtrate:** 8.8      **Chlorides:** 4,000 ppm



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Worcester "A" #3-21**

SEC: 21 TWN: 7S RNG: 22W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 2  
Elevation: 2220 GL  
Field Name: Alda South  
Pool: Infield  
Job Number: 644  
API #: 15-065-24231

**Operation:**  
Well Complete

**DATE**  
February  
**28**  
2023

**DST #2      Formation: Lans "I"      Test Interval: 3591 -      Total Depth: 3627'**  
**3627'**  
Time On: 05:39 02/28      Time Off: 16:06 02/28  
Time On Bottom: 07:38 02/28      Time Off Bottom: 09:38 02/28

**Gas Volume Report**

1st Open

2nd Open

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

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



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Worcester "A" #3-21**

SEC: 21 TWN: 7S RNG: 22W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 2  
Elevation: 2220 GL  
Field Name: Alda South  
Pool: Infield  
Job Number: 644  
API #: 15-065-24231

**Operation:**  
Well Complete

**DATE**  
March  
**01**  
2023

**DST #3    Formation: Lans "J"    Test Interval: 3676 - 3691'    Total Depth: 3691'**

Time On: 02:04 03/01    Time Off: 09:12 03/01  
Time On Bottom: 04:24 03/01    Time Off Bottom: 06:24 03/01

Electronic Volume  
Estimate:  
7'

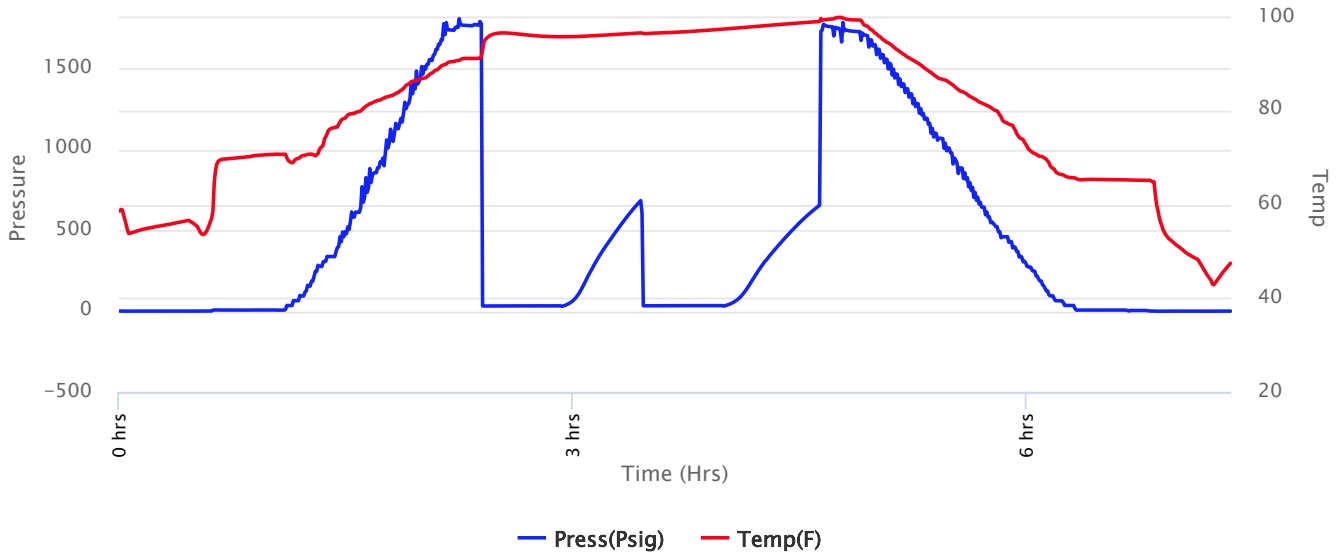
1st Open  
Minutes: 30  
Current Reading:  
.26" at 30 min  
Max Reading: .26"

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: Worcester "A" #3-21**

SEC: 21 TWN: 7S RNG: 22W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 2  
Elevation: 2220 GL  
Field Name: Alda South  
Pool: Infield  
Job Number: 644  
API #: 15-065-24231

**Operation:**  
Well Complete

**DATE**  
March  
**01**  
2023

**DST #3**    **Formation: Lans "J"**    **Test Interval: 3676 - 3691'**    **Total Depth: 3691'**  
Time On: 02:04 03/01    Time Off: 09:12 03/01  
Time On Bottom: 04:24 03/01    Time Off Bottom: 06:24 03/01

Recovered

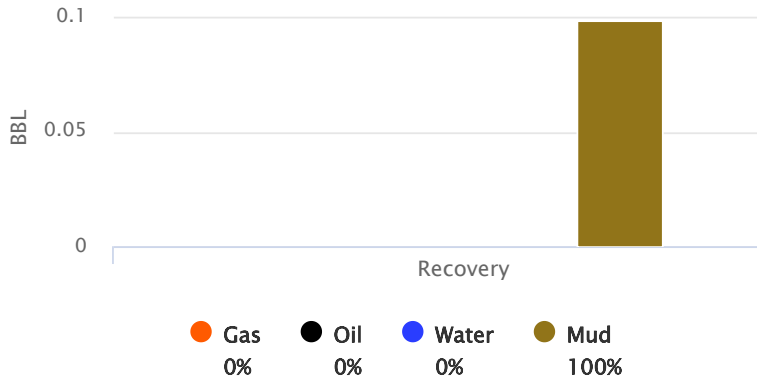
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
20	0.0984	M	0	0	0	100

Total Recovered: 20 ft  
Total Barrels Recovered: 0.0984

**Reversed Out**  
NO

Initial Hydrostatic Pressure	1769	PSI
Initial Flow	31 to 33	PSI
<b>Initial Closed in Pressure</b>	<b>683</b>	<b>PSI</b>
Final Flow Pressure	33 to 34	PSI
<b>Final Closed in Pressure</b>	<b>655</b>	<b>PSI</b>
Final Hydrostatic Pressure	1769	PSI
Temperature	99	°F
Pressure Change Initial Close / Final Close	4.2	%

**Recovery at a glance**



GIP cubic foot volume: 0



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Worcester "A" #3-21**

SEC: 21 TWN: 7S RNG: 22W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 2  
Elevation: 2220 GL  
Field Name: Alda South  
Pool: Infield  
Job Number: 644  
API #: 15-065-24231

**Operation:**  
Well Complete

**DATE**  
March  
**01**  
2023

**DST #3      Formation: Lans "J"      Test Interval: 3676 -      Total Depth: 3691'**  
**3691'**  
Time On: 02:04 03/01      Time Off: 09:12 03/01  
Time On Bottom: 04:24 03/01      Time Off Bottom: 06:24 03/01

**BUCKET MEASUREMENT:**

1st Open: Weak, surface blow building to 1/4 in. in 30 mins.  
1st Close: No blow back.  
2nd Open: No blow.  
2nd Close: No blow back.

**REMARKS:**

Hit a bridge 4 ft. off bottom. Had to open the tool on the bridge & slid to bottom. Took 3 ft. of mud in the process of sliding.

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





**Company: Satchell Creek  
Petroleum, LLC  
Lease: Worcester "A" #3-21**

SEC: 21 TWN: 7S RNG: 22W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 2  
Elevation: 2220 GL  
Field Name: Alda South  
Pool: Infield  
Job Number: 644  
API #: 15-065-24231

**Operation:**  
Well Complete

**DATE**  
March  
**01**  
2023

**DST #3      Formation: Lans "J"      Test Interval: 3676 -      Total Depth: 3691'**  
**3691'**  
Time On: 02:04 03/01      Time Off: 09:12 03/01  
Time On Bottom: 04:24 03/01      Time Off Bottom: 06:24 03/01

**Down Hole Makeup**

<b>Heads Up:</b> 20.02 FT	<b>Packer 1:</b> 3670.5 FT
<b>Drill Pipe:</b> 3480.47 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3676 FT
<b>Weight Pipe:</b> FT	<b>Top Recorder:</b> 3659.42 FT
<b>Collars:</b> 181.98 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3678 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>Total Anchor:</b> 15	<b>Surface Choke:</b> 1"
<b><u>Anchor Makeup</u></b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3 1/2</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 14 FT <i>4 1/2-FH</i>	





**Company: Satchell Creek  
Petroleum, LLC  
Lease: Worcester "A" #3-21**

SEC: 21 TWN: 7S RNG: 22W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 2  
Elevation: 2220 GL  
Field Name: Alda South  
Pool: Infield  
Job Number: 644  
API #: 15-065-24231

**Operation:**  
Well Complete

**DATE**  
March  
**01**  
2023

**DST #3    Formation: Lans "J"    Test Interval: 3676 -    Total Depth: 3691'**  
**3691'**  
Time On: 02:04 03/01                      Time Off: 09:12 03/01  
Time On Bottom: 04:24 03/01    Time Off Bottom: 06:24 03/01

**Gas Volume Report**

1st Open

2nd Open

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

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



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Worcester "A" #3-21**

SEC: 21 TWN: 7S RNG: 22W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 2  
Elevation: 2220 GL  
Field Name: Alda South  
Pool: Infield  
Job Number: 644  
API #: 15-065-24231

**Operation:**  
Well Complete

**DATE**  
March  
**02**  
2023

**DST #4**      **Formation: Conglomerate**      **Test Interval: 3696 - 3716'**      **Total Depth: 3716'**  
Time On: 05:44 03/02      Time Off: 13:49 03/02  
Time On Bottom: 09:28 03/02      Time Off Bottom: 11:28 03/02

Electronic Volume  
Estimate:  
10'

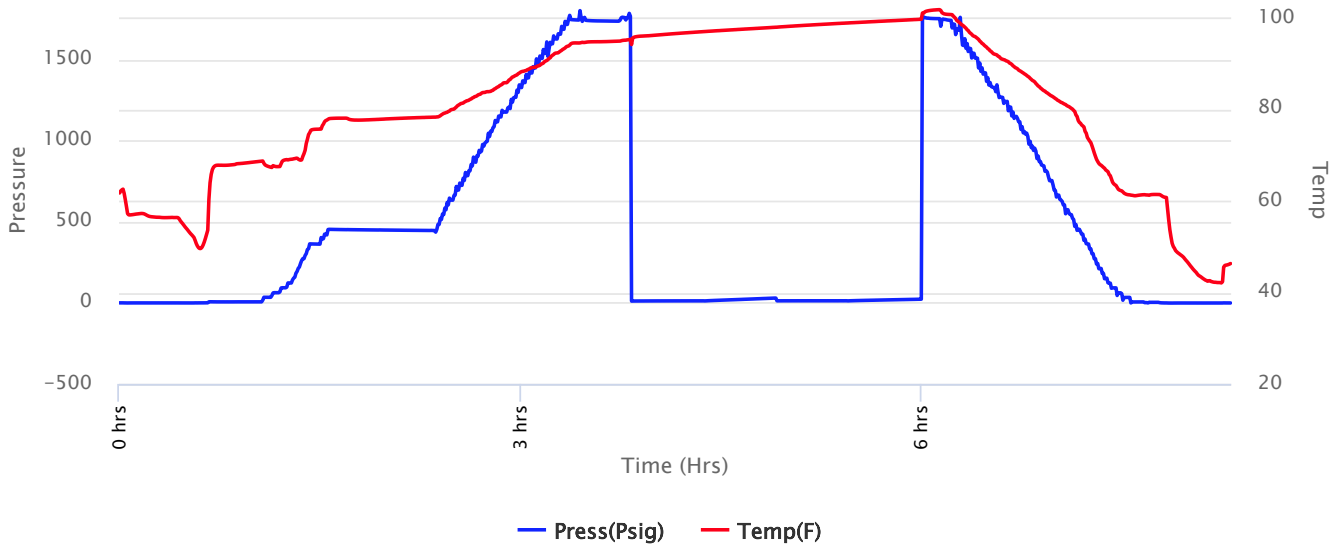
1st Open  
Minutes: 30  
Current Reading:  
.27" at 30 min  
Max Reading: .27"

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: Worcester "A" #3-21**

SEC: 21 TWN: 7S RNG: 22W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 2  
Elevation: 2220 GL  
Field Name: Alda South  
Pool: Infield  
Job Number: 644  
API #: 15-065-24231

**Operation:**  
Well Complete

**DATE**  
March  
**02**  
2023

**DST #4**      **Formation: Conglomerate**      **Test Interval: 3696 - 3716'**      **Total Depth: 3716'**  
Time On: 05:44 03/02      Time Off: 13:49 03/02  
Time On Bottom: 09:28 03/02      Time Off Bottom: 11:28 03/02

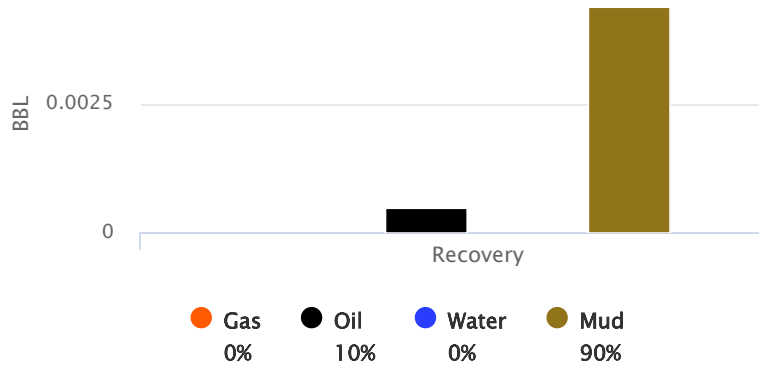
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
1	0.00492	SLOCM	0	10	0	90

Total Recovered: 1 ft  
Total Barrels Recovered: 0.00492

**Reversed Out**  
NO

**Recovery at a glance**



Initial Hydrostatic Pressure	1739	PSI
Initial Flow	11 to 13	PSI
<b>Initial Closed in Pressure</b>	<b>30</b>	<b>PSI</b>
Final Flow Pressure	13 to 13	PSI
<b>Final Closed in Pressure</b>	<b>23</b>	<b>PSI</b>
Final Hydrostatic Pressure	1745	PSI
Temperature	100	°F
Pressure Change Initial Close / Final Close	23.2	%

GIP cubic foot volume: 0



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Worcester "A" #3-21**

SEC: 21 TWN: 7S RNG: 22W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 2  
Elevation: 2220 GL  
Field Name: Alda South  
Pool: Infield  
Job Number: 644  
API #: 15-065-24231

**Operation:**  
Well Complete

**DATE**  
March  
**02**  
2023

<b>DST #4</b>	<b>Formation: Conglomerate</b>	<b>Test Interval: 3696 - 3716'</b>	<b>Total Depth: 3716'</b>
	Time On: 05:44 03/02	Time Off: 13:49 03/02	
	Time On Bottom: 09:28 03/02	Time Off Bottom: 11:28 03/02	

**BUCKET MEASUREMENT:**

*Diesel in Bucket*

1st Open: Weak, surface blow building to 1/4 in. in 30 mins.

1st Close: No blow back.

2nd Open: Weak, surface blow. Blow didn't build.

2nd Close: No blow back.

**REMARKS:**

Tool Sample: 0% Gas 10% Oil 0% Water 90% Mud



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Worcester "A" #3-21**

SEC: 21 TWN: 7S RNG: 22W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 2  
Elevation: 2220 GL  
Field Name: Alda South  
Pool: Infield  
Job Number: 644  
API #: 15-065-24231

**Operation:**  
Well Complete

**DATE**  
March  
**02**  
2023

**DST #4**      **Formation:** Conglomerate      **Test Interval: 3696 - 3716'**      **Total Depth: 3716'**  
Time On: 05:44 03/02      Time Off: 13:49 03/02  
Time On Bottom: 09:28 03/02      Time Off Bottom: 11:28 03/02

**Down Hole Makeup**

<b>Heads Up:</b> 30.6 FT	<b>Packer 1:</b> 3690.5 FT
<b>Drill Pipe:</b> 3511.05 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3696 FT
<b>Weight Pipe:</b> FT	<b>Top Recorder:</b> 3679.42 FT
<b>Collars:</b> 181.98 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3698 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>Total Anchor:</b> 20	<b>Surface Choke:</b> 1"
<b><u>Anchor Makeup</u></b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3 1/2</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 19 FT <i>4 1/2-FH</i>	



**Company: Satchell Creek  
Petroleum, LLC  
Lease: Worcester "A" #3-21**

SEC: 21 TWN: 7S RNG: 22W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 2  
Elevation: 2220 GL  
Field Name: Alda South  
Pool: Infield  
Job Number: 644  
API #: 15-065-24231

**Operation:**  
Well Complete

**DATE**  
March  
**02**  
2023

**DST #4**      **Formation:**      **Test Interval: 3696 -**      **Total Depth: 3716'**  
**Conglomerate**      **3716'**  
Time On: 05:44 03/02      Time Off: 13:49 03/02  
Time On Bottom: 09:28 03/02      Time Off Bottom: 11:28 03/02

**Mud Properties**

**Mud Type:** Chemical      **Weight:** 9.3      **Viscosity:** 45      **Filtrate:** 6.4      **Chlorides:** 4,000 ppm





**Company: Satchell Creek  
Petroleum, LLC  
Lease: Worcester "A" #3-21**

SEC: 21 TWN: 7S RNG: 22W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: Feature Drilling  
LLC - Rig 2  
Elevation: 2220 GL  
Field Name: Alda South  
Pool: Infield  
Job Number: 644  
API #: 15-065-24231

**Operation:**  
Well Complete

**DATE**  
March  
**02**  
2023

**DST #4**      **Formation:**      **Test Interval: 3696 -**      **Total Depth: 3716'**  
**Conglomerate**      **3716'**  
Time On: 05:44 03/02      Time Off: 13:49 03/02  
Time On Bottom: 09:28 03/02      Time Off Bottom: 11:28 03/02

**Gas Volume Report**

1st Open

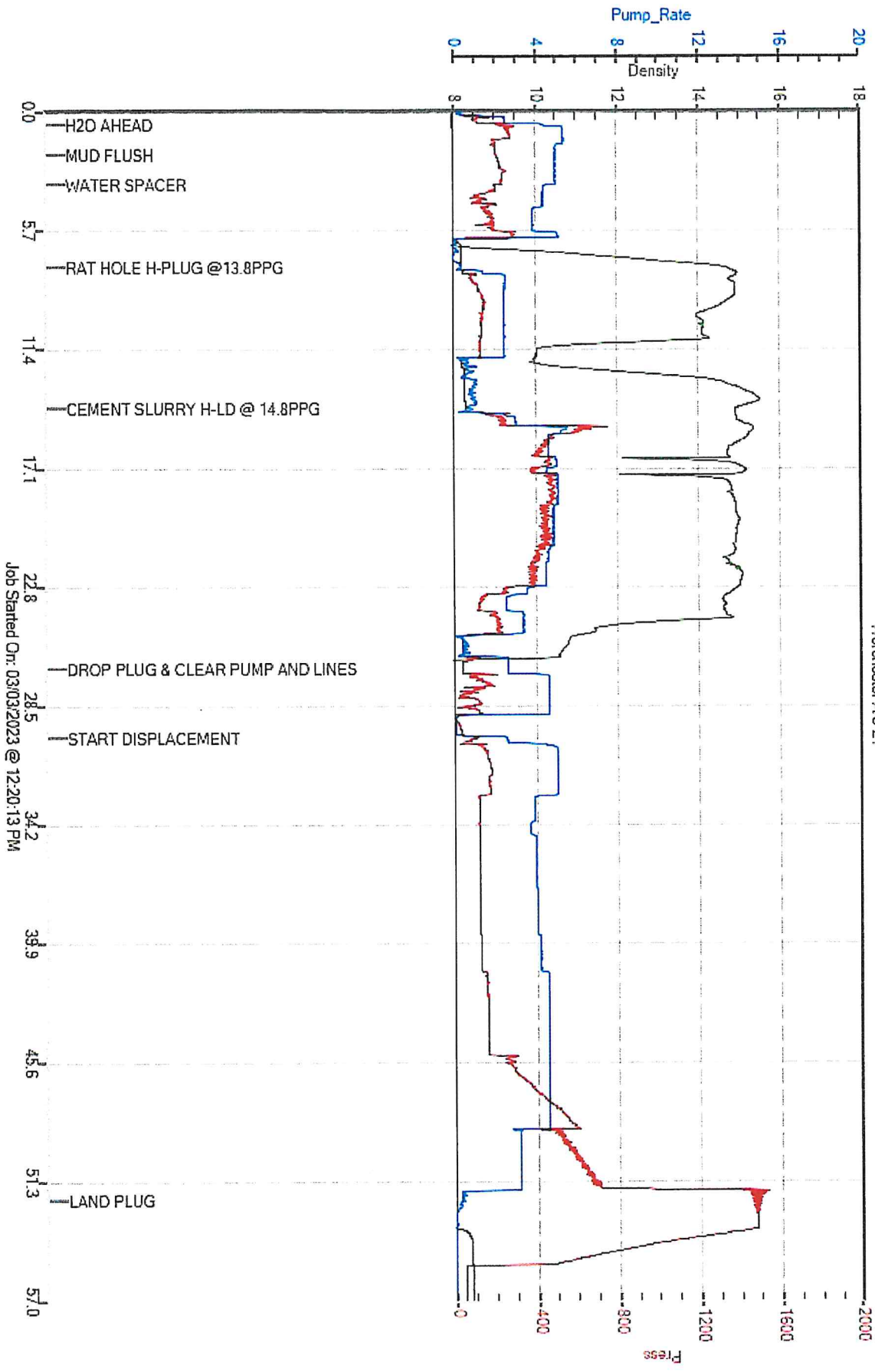
2nd Open

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



Satchell Creek  
Worchester A.3-21





**CEMENT TREATMENT REPORT**

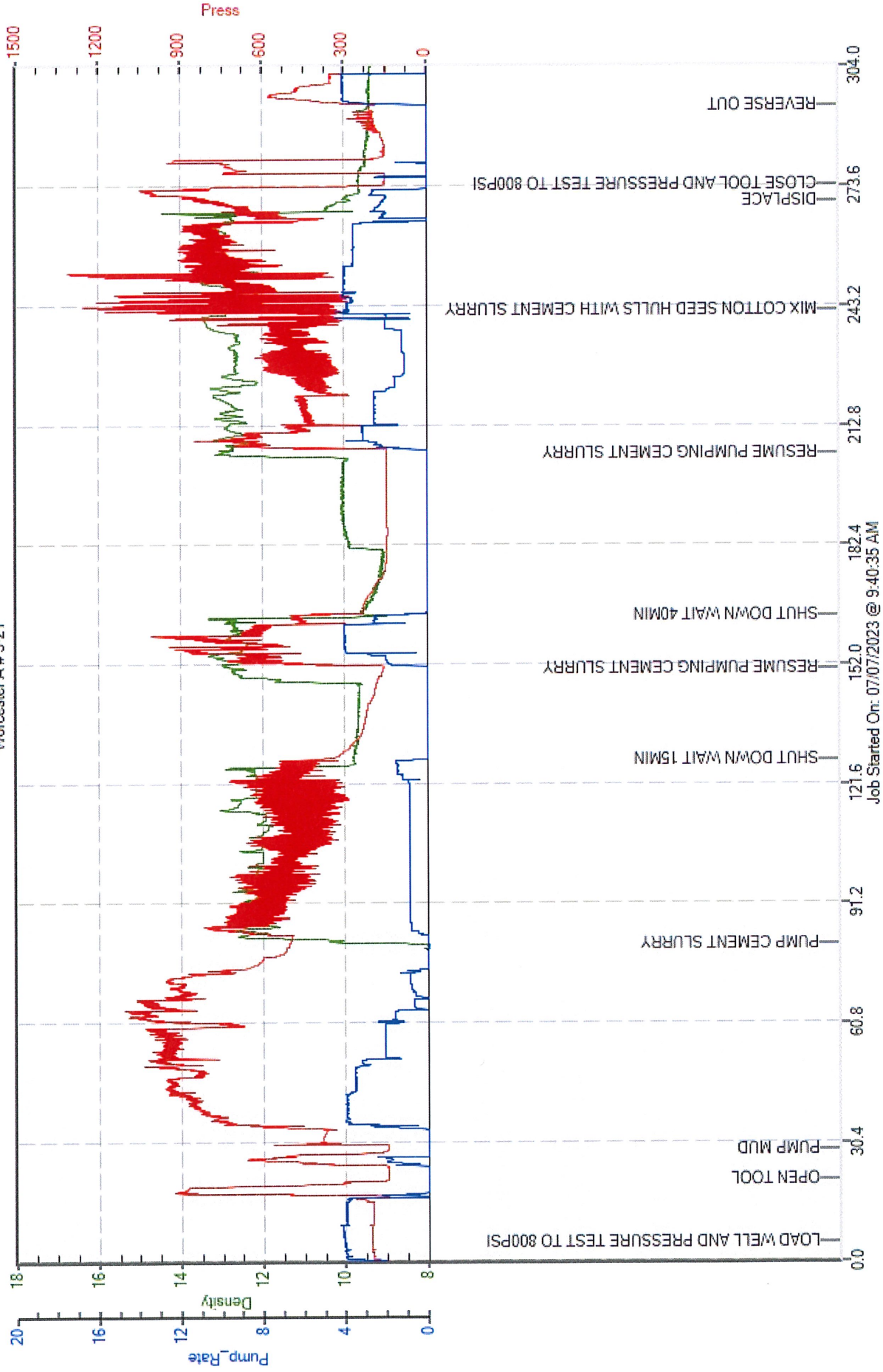
Customer:	Satchell Creek	Well:	Worcester A 3-21	Ticket:	WP4486
City, State:		County:	Graham,KS	Date:	7/7/2023
Field Rep:	Jessie	S-T-R:	21-7S-22W	Service:	Port Collar

Downhole Information		Calculated Slurry - Lead				Calculated Slurry - Tail			
Hole Size:	in	Blend:	H-Con			Blend:			
Hole Depth:	ft	Weight:	12.0 ppg			Weight:	ppg		
Casing Size:	5 1/2 in	Water / Sx:	15.5 gal / sx			Water / Sx:	gal / sx		
Casing Depth:	ft	Yield:	2.56 ft <sup>3</sup> / sx			Yield:	ft <sup>3</sup> / sx		
Tubing / Liner:	in	Annular Bbls / Ft.:	bbs / ft.			Annular Bbls / Ft.:	bbs / ft.		
Depth:	ft	Depth:	ft			Depth:	ft		
Tool / Packer:	Port Collar	Annular Volume:	0.0 bbls			Annular Volume:	0 bbls		
Tool Depth:	1846 ft	Excess:				Excess:			
Displacement:	10.0 bbls	Total Slurry:	205.2 bbls			Total Slurry:	0.0 bbls		
		Total Sacks:	450 sx			Total Sacks:	0 sx		

TIME	RATE	PSI	BBLs	STAGE TOTAL BBLs	REMARKS
830am			-	-	Arrive On Location
845am				-	Safety Meeting
900am				-	Rig Up
				-	
936am	4.0	800.0	63.0	63.0	Load Well and Pressure test to 800psi
1000am				63.0	Open Port Collar
1010am	4.0	650.0	20.0	83.0	Pump Mud
1041am	0.6	1,000.0	70.0	153.0	
1045am	0.8	950.0	5.2	158.2	Flush Water
1059am	0.8	760.0	30.0	188.2	Cement Slurry H-Con @ 12ppg
1143am	0.9	530.0	15.0	203.2	Cement Slurry H-Con @ 12ppg , Shut down and wait 15min
1208pm	4.0	800.0	43.0		Resume Pumping Cement Slurry
1221pm					Shut down Wait 40min
103pm	3.0	700.0	20.0		Resume Pumping Cement Slurry
119pm	1.5	420.0	30.0		Cement Slurry
139pm	3.5	400.0	35.0		Dump 75#cotton Seed Hulls In Cement Blend
149pm	3.5	400.0	32.0		Dump 75#cotton Seed Hulls In Cement Blend
205pm	2.6	1,090.0	10.0		Displace
216pm		800.0	0.5		Close Port Collar and Pressure Test to 800psi
230pm	4.0	400.0	25.0		Reverse Out
240pm					Wash Up
250pm					Rig Down
300pm					Leave Location

CREW		UNIT	SUMMARY		
Cementer:	Spencer	945	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Michael	937/520	2.6 bpm	693 psi	399 bbls
Bulk #1:	Jake	194/235			
Bulk #2:					

Satchell Creek  
Worcester A # 3-21





**CEMENT TREATMENT REPORT**

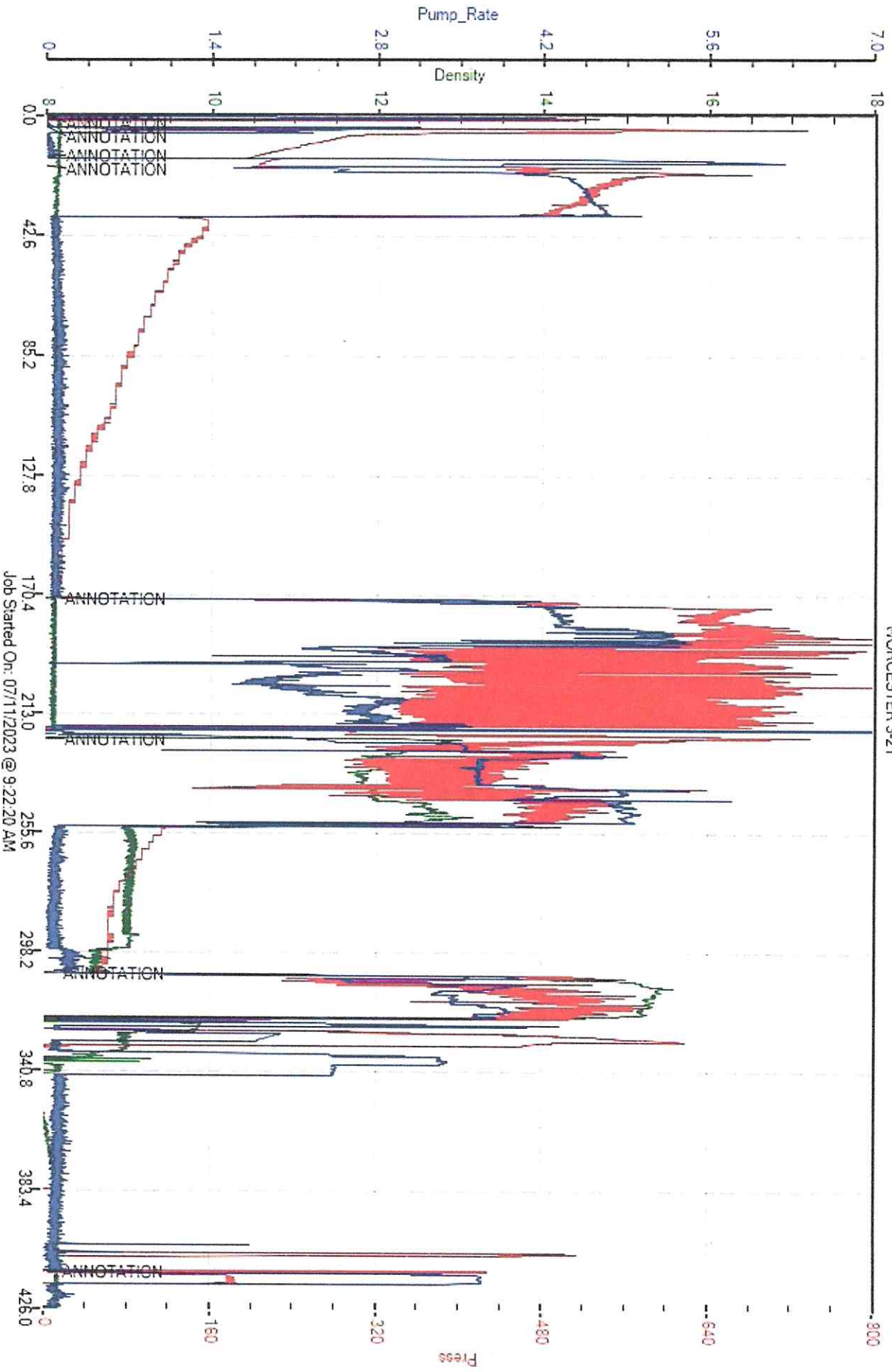
Customer:	<b>SATCHELL CREEK OPERATING</b>	Well:	<b>WORCESTER A 3-21</b>	Ticket:	<b>WP4493</b>
City, State:	<b>HILL CITY KS</b>	County:	<b>GRAHAM KS</b>	Date:	<b>7/11/2023</b>
Field Rep:		S-T-R:	<b>21-07S-22W</b>	Service:	<b>SQUEEZE</b>

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	<b>in</b>	Blend:	<b>H-CON</b>	Blend:	<b>CLASS A</b>
Hole Depth:	<b>ft</b>	Weight:	<b>12.0 ppg</b>	Weight:	<b>15.6 ppg</b>
Casing Size:	<b>5 1/2 in</b>	Water / Sx:	<b>14.5 gal / sx</b>	Water / Sx:	<b>5.2 gal / sx</b>
Casing Depth:	<b>ft</b>	Yield:	<b>2.50 ft<sup>3</sup> / sx</b>	Yield:	<b>1.18 ft<sup>3</sup> / sx</b>
Tubing / Liner:	<b>2 7/8 in</b>	Annular Bbls / Ft.:	<b>bbs / ft.</b>	Annular Bbls / Ft.:	<b>bbs / ft.</b>
Depth:	<b>ft</b>	Depth:	<b>ft</b>	Depth:	<b>ft</b>
Tool / Packer:	<b>950</b>	Annular Volume:	<b>0.0 bbls</b>	Annular Volume:	<b>0 bbls</b>
Tool Depth:	<b>ft</b>	Excess:		Excess:	
Displacement:	<b>bbls</b>	Total Slurry:	<b>110.0 bbls</b>	Total Slurry:	<b>51.0 bbls</b>
		Total Sacks:	<b>250 sx</b>	Total Sacks:	<b>250 sx</b>

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
8:35 AM			-	-	ON LOCATION SQUEEZE HOLE AT 1050"
10:29 AM		500.0		-	500 ON BACKSIDE
10:33 AM	2.0	500.0		-	INJECTION RATE
10:47 AM	4.4	550.0	80.0	80.0	PUMP 80 BBL MUD
				80.0	WAIT ON MORE MUD
1:20 PM	4.0	490.0	80.0	160.0	PUMP HEAVY MUD WITH COTTON SEED HULLS
2:12 PM	4.9	450.0	110.0	270.0	MIX 250 SKS H-CON WITH 200 LBS COTTON SEED HULLS
2:43 PM				270.0	H-CON PUMPED, WAIT 30 MINUTES
3:36 PM	4.0	450.0	10.0	280.0	MIX 50 SKS CLASS A
4:40 PM	4.0	400.0	41.0	321.0	MIX 200 SKS CLASS A WITH 2% CALCIUM CHLORIDE
3:53 PM	4.0	25.0	4.0	325.0	WASH PUMP AND LINE
3:56 PM	2.0	450.0	6.5	331.5	START DISPLACEMENT
4:00 PM				331.5	WAIT 1 HOUR
5:16 PM		500.0	0.1	331.6	PRESSURE UP TO 500, HOLDING
				331.6	RELEASED AND HELD
5:23 PM	3.0	200.0	12.0	343.6	REVERSE OUT, WELL CLEAN
				-	
				-	
				-	
				-	
				-	
				-	
				-	JOB COMPLETE, THANK YOU!
				-	MIKE MATTAL
				-	AUSTIN & KENNY
				-	

CREW		UNIT	SUMMARY		
Cementer:	<b>MATTAL</b>	<b>912</b>	Average Rate	Average Pressure	Total Fluid
Pump Operator:	<b>CLIFTON</b>	<b>179/521</b>	<b>3.6 bpm</b>	<b>410 psi</b>	<b>344 bbls</b>
Bulk #1:	<b>JULIAN</b>	<b>526/532</b>			
Bulk #2:					

SATCHELL CREEK  
WORCESTER 3-21







# Satchell Creek squeeze Worcester 3-21

