

Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West County: _____

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

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	☐ Yes	☐ No	☐ Log	Formation (Top), Depth and Datum	☐ Sample
Samples Sent to Geological Survey	☐ Yes	☐ No	Name	Top	Datum
Cores Taken	☐ Yes	☐ No			
Electric Log Run	☐ Yes	☐ No			
Geologist Report / Mud Logs	☐ Yes	☐ No			
List All E. Logs Run:					

CASING RECORD ☐ New ☐ 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
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ 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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water	Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom	

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record (Amount and Kind of Material Used)

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Satchell Creek Petroleum, LLC
Well Name	WORCESTER A 1-28
Doc ID	1715197

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	263	class H	185	2% gel, 3% cc
Production	7.875	5.5	15	1904	class H-Con	250	50% F, .1% FL, 3% salt
Production	7.875	5.5	15	3802	class H-LD	120	50% F, .1% FL, 3% salt

Patrick Deenihan
Petroleum Geologist

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY Satchell Creek Petroleum, LLC

LEASE Worcester A #1-28

FIELD Wildcat

LOCATION 1754' FSL & 1558' FEL

SEC 28 TWP 7S RGE 22W

COUNTY Graham STATE Kansas

CONTRACTOR Feature Drilling Rig #3

SPUD 2/6/23 COMP 2/16/23

RTD 4874' LTD 4874'

MUD UP 3000' TYPE MUD Chemical

SAMPLES SAVED FROM 3000' TO RTD

DRILLING TIME KEPT FROM 3000' TO RTD

SAMPLES EXAMINED FROM 3200' TO RTD

GEOLOGICAL SUPERVISION FROM 3200'

REFERENCE WELL _____

ELEVATIONS

KB 2289'

DF _____

GL 2281'

Measurements Are All
From Kelly Bushing

CASING

CONDUCTOR _____

SURFACE 8'-5.8" at 269'

PRODUCTION 5.3" at TD

ELECTRICAL
SURVEYS

ELI _____

CND/DIL _____

MIC/SON _____

Formation

Sample Tops

E-log Tops

Struct
Foss.

Heebner Sh. 3480 (-1191)

Lansing 3517 (-1228)

Stark Shale 3692 (-1413)

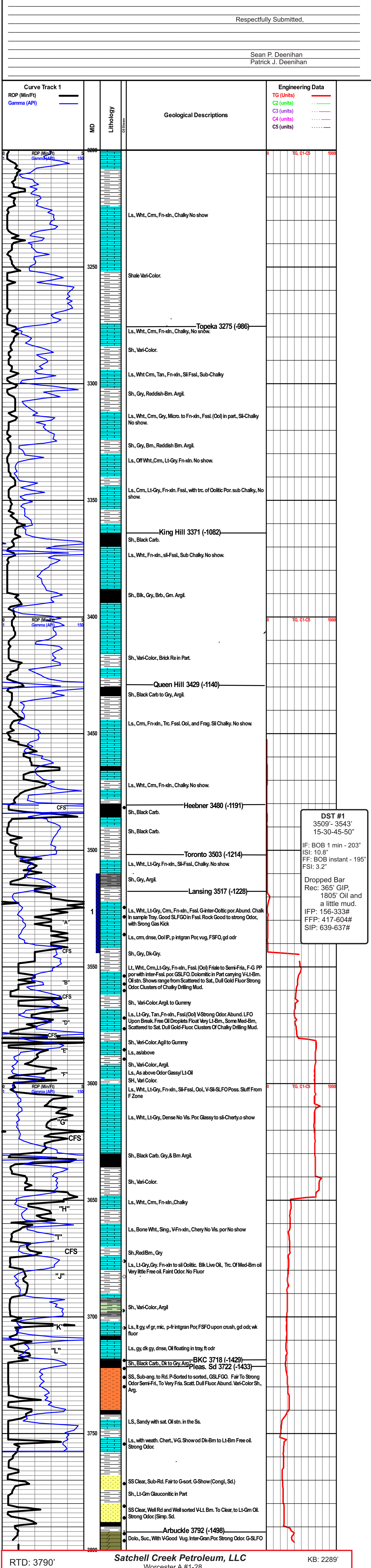
BKC 3866 (-1429)

Arbuckle 3792 (-1498)

REMARKS The Worcester A#1-28 had numerous oil shows and excellent DST #1 results. Therefore, the decision was made to complete this well for commercial oil production.

Respectfully Submitted,

Sean P. Deenihan
Patrick J. Deenihan



DST #1
3509- 3543'
15-30-45-50"
IF: BOB 1 min - 203"
ISI: 10.8"
FF: BOB instant - 195"
FSI: 3.2"
Dropped Bar
Rec: 365' GIP,
1805' Oil and
a little mud.
IFP: 156-333#
FFP: 417-604#
SIP: 639-637#

RTD: 3790'
LTD: 3794'
Deepened 10' after logs

Satchell Creek Petroleum, LLC
Worcester A #1-28
28-7S-22W
Graham County, KS

KB: 2289'



CEMENT TREATMENT REPORT

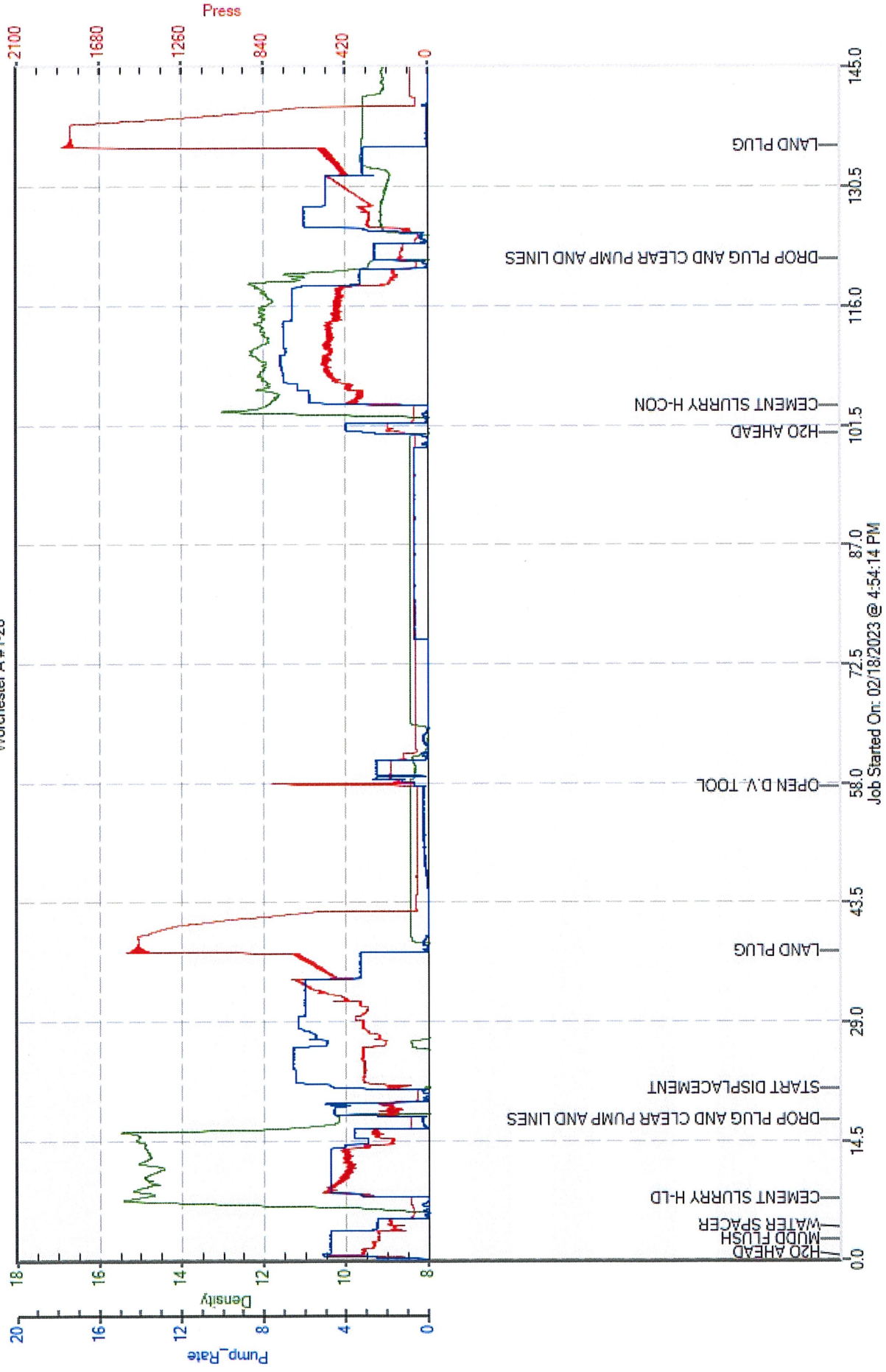
Customer:	Satchell Creek	Well:	Worcester A #1-28	Ticket:	WP3967
City, State:		County:	Graham,KS	Date:	2/17/2023
Field Rep:		S-T-R:	28-7S-22W	Service:	2 Stage

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7 7/8 in	Blend:	H-LD	Blend:	H-Con
Hole Depth:	3802 ft	Weight:	14.8 ppg	Weight:	12 ppg
Casing Size:	5 1/2 in	Water / Sx:	6.5 gal / sx	Water / Sx:	15.5 gal / sx
Casing Depth:	3802 ft	Yield:	1.51 ft ³ / sx	Yield:	2.56 ft ³ / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Depth:	ft	Depth:	ft	Depth:	ft
Tool / Packer:	D.V. Tool	Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool Depth:	1895 ft	Excess:		Excess:	
Displacement:	90.1 bbls	Total Slurry:	32.3 bbls	Total Slurry:	114.0 bbls
		Total Sacks:	120 sx	Total Sacks:	250 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
1115am			-	-	Arrive on Location Rig Laying Down Drill Pipe
245pm			-	-	Start Running Casing , Baskets on Joints 1 & 45 Turbos on Joints 3,5,7,9,11,13,15,17,47,49 D.V. Toon on Top of 45
615pm			-	-	Safety Meeting
630pm			-	-	Rig Up
			-	-	Bottom Stage
714pm	5.0	500.0	10.0	10.0	H2O Ahead
716pm	5.0	500.0	12.0	22.0	Mud Flush
715pm	5.0	500.0	10.0	32.0	Water Spacer
721pm	4.8	500.0	32.3	64.3	Cement Slurry H-LD 120 sacks @ 14.8ppg
734pm				64.3	Drop Plug and Clear Pump and Lines
735pm	6.0	400.0	90.1	154.4	Displacement Slow to 3bbls/min on last 10bbls
752pm	3.0	600.0			Land Plug Bump to 1480psi
759pm					Drop Opening Tool
812pm	2.0	750.0	10.0		D.V. Tool Opened
818pm					Hook up Rig to Circulate Mud with Mud Pump
					Top Stage
855pm	5.0	400.0	10.0		H2O Ahead
858pm	7.0	500.0	114.0		Cement Slurry H-Con 250 sacks @ 12ppg
917pm					Drop Closing Plug and Clear Pump and Lines
919pm	6.0	600.0	45.1		Displacement Slow to 3bbls/min on last 10bbls
930pm	3.2	510.0			Land Plug Bump to 1800psi
935pm					Wash Up
945pm					Rig Down
955pm					Leave Location

CREW		UNIT	SUMMARY		
Cementer:	Spencer	943	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Micheal	230	4.7 bpm	524 psi	334 bbls
Bulk #1:	Adrian	180/530			
Bulk #2:	Hunter				

Satchell Creek Worcester A #1-28



**Operation:**

Well Complete

Company: Satchell Creek Petroleum, LLC

Lease: Worcester "A" #1-28

SEC: 28 TWN: 7S RNG: 22W
County: GRAHAM
State: Kansas
Drilling Contractor: Feature Drilling
LLC - Rig 3
Elevation: 2281 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 646
API #: 15-065-24230

DATE

February

15

2023

DST #1 Formation: Lans "A" Test Interval: 3509 - 3543' Total Depth: 3543'

Time On: 07:14 02/15

Time Off: 17:27 02/15

Time On Bottom: 10:23 02/04

Time Off Bottom: 12:53 02/04

Electronic Volume
Estimate:
2762'

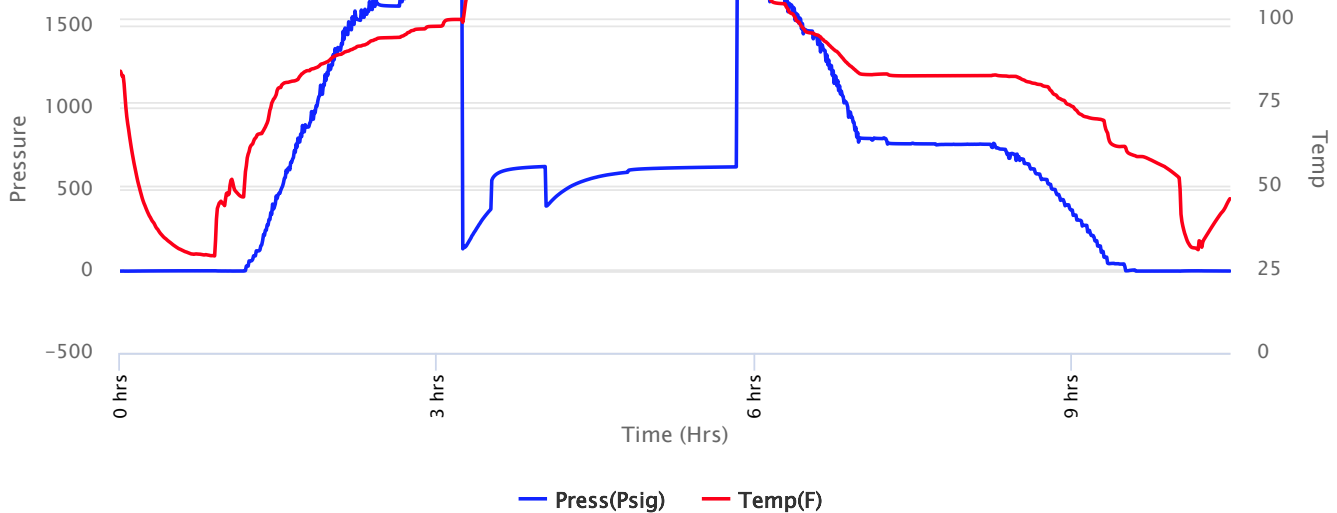
1st Open
Minutes: 15
Current Reading:
203" at 15 min
Max Reading: 203"

1st Close
Minutes: 30
Current Reading:
10.8" at 30 min
Max Reading: 10.8"

2nd Open
Minutes: 45
Current Reading:
195" at 45 min
Max Reading: 195"

2nd Close
Minutes: 50
Current Reading:
3.2" at 50 min
Max Reading: 3.2"

Inside Recorder





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Petroleum, LLC
Lease: Worcester "A" #1-28**

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Operation:

Well Complete

DATE

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Time On: 07:14 02/15

Time Off: 17:27 02/15

Time On Bottom: 10:23 02/04

Time Off Bottom: 12:53 02/04

Recovered

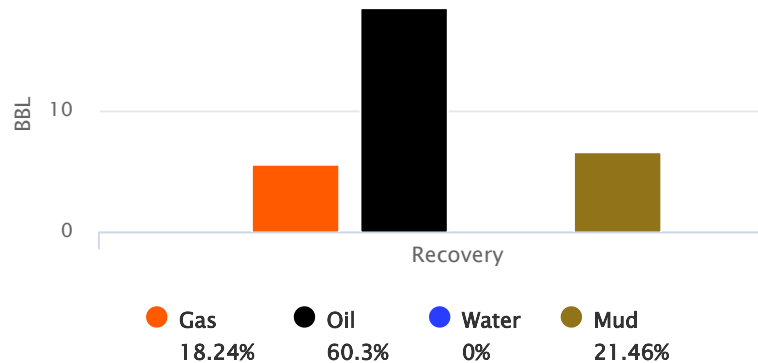
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
365	5.19395	G	100	0	0	0
186	2.64678	SLGCO	10	90	0	0
1497	21.30231	MCO	0	75	0	25
122	1.73606	SLGCSLOCM	10	15	0	75

Total Recovered: 2170 ft

Total Barrels Recovered: 30.8791

Reversed Out
YES

Recovery at a glance



Initial Hydrostatic Pressure	1728	PSI
Initial Flow	156 to 333	PSI
Initial Closed in Pressure	639	PSI
Final Flow Pressure	417 to 604	PSI
Final Closed in Pressure	637	PSI
Final Hydrostatic Pressure	1729	PSI
Temperature	108	°F

Pressure Change Initial
Close / Final Close 0.3 %

GIP cubic foot volume: 31.62218

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BUCKET MEASUREMENT:

1st Open: BOB in 1 min.

1st Close: Weak, surface blow building. BOB blow back in 13 mins.

2nd Open: BOB immediately.

2nd Close: Weak, surface blow back building to 3.2 ins.

REMARKS:

Tool Sample: 15% Gas 15% Oil 0% Water 70% Mud

Gravity: 38 @ 60 °F

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3543'

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Down Hole Makeup**Heads Up:** 24.57 FT**Packer 1:** 3503.5 FT**Drill Pipe:** 3500 FT**Packer 2:** 3509 FT

ID-3 1/2

Top Recorder: 3492.42 FT**Weight Pipe:** FT**Bottom Recorder:** 3541 FT**Collars:** FT**Well Bore Size:** 7 7/8

ID-2 1/4

Surface Choke: 1"**Test Tool:** 34.57 FT**Bottom Choke:** 5/8"

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 34**Anchor Makeup****Packer Sub:** 1 FT**Perforations: (top):** 1 FT

4 1/2-FH

Change Over: .5 FT**Drill Pipe: (in anchor):** 28 FT

ID-3 1/2

Change Over: .5 FT**Perforations: (below):** 3 FT

4 1/2-FH



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Mud Properties

Mud Type: Chemical

Weight: 8.8

Viscosity: 55

Filtrate: 7.6

Chlorides: 2,000 ppm



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3543'

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Time On Bottom: 10:23 02/04

Time Off Bottom: 12:53 02/04

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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1013 240th AVENUE • HAYS, KANSAS 67601 • 785-621-2135

2971

CHARGE TO: Satchell Creek Petroleum Date 3-6-23
ADDRESS _____
R/A SOURCE NO. _____ CUSTOMER ORDER NO. Verbal NW
LEASE AND WELL NO. Worcester A No. 1-28 FIELD _____
NEAREST TOWN Hill City COUNTY Graham STATE Kansas
SPOT LOCATION 1754' FSL E 1858' FEL SEC. 28 TWP. 7S RANGE 22W
ZERO 8' AGL CASING SIZE 5.5" @ 3800 WEIGHT _____
CUSTOMER'S T.D. _____ LOG-TECH TD _____ FLUID LEVEL Full
ENGINEER S. Clement OPERATOR J. Schneider

PERFORATING

Description		No. Shots	Depth		Amount
			From	To	
Perforate w/ 4"	F 12x4	48	3592	3604	6470 00
	E 6x4	24	3590	3596	4050 00
	b 6x4	24	3550	3556	4050 00
(Langme) A	8x4	32	3516	3524	4810 00
*Shot in Acid @ 500'					

DEPTH AND OPERATIONS CHARGES

Description	From	Depth	To	Total No. Pt	Price Per Pt	Amount
Sector Radial Bond Log	0	3756	3756	MIN	2200	00
Logging Charge	3756	150	3600	MIN	1500	00
Set 5.5" Composite BP	@	3760		MIN	2780	00
Depth Charge			3760	MIN	1500	00

MISCELLANEOUS

Description	Quantity	Amount
Service Charge <u>Truck Rental #902</u>		1500 00
T.J. <u>10:00am</u>		
A.O.L. <u>9:30am</u>		
S.J. <u>10:20am</u>		
F.J. <u>5:00pm</u> T.W.T. <u>X</u>		

PRICES SUBJECT TO CORRECTION BY BILLING DEPARTMENT

RECEIVED THE ABOVE SERVICES ACCORDING TO THE TERMS AND CONDITIONS SPECIFIED ON THE REVERSE SIDE TO WHICH WE HEREBY AGREE.

Customer Signature

3/6/23 Date

Sub Total

Tax

Total

28,860 00
17,815 00