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 #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City:	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)	
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)
□ o · · · · · · · · · · · · · · · · · ·	Chloride content:ppm Fluid volume:bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:	
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Operator Name:
GSW Permit #:	Lease Name: License #:
	Quarter Sec TwpS. R
Spud Date or Date Reached TD Completion Date or Recompletion Date  Recompletion Date	Countv: 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:						

KOLAR Document ID: 1721211

### Page Two

Operator Name:					Lease Nam	ne:			Well #:	
Sec Tw	pS. F	R [	East	West	County:					
open and closed and flow rates if	, flowing and sh gas to surface t ty Log, Final Lo	nut-in pressurest, along wit	es, whe h final c ain Geo	ther shut-in pre hart(s). Attach physical Data a	essure reached extra sheet if r and Final Electr	station more : ric Loc	level, hydrosta space is needed	tic pressures, d.	bottom hole tempe	val tested, time tool erature, fluid recovery,  Digital electronic log
Drill Stem Tests (Attach Addit			Ye	es No		Lo	og Formatio	n (Top), Deptl	n and Datum	Sample
Samples Sent to	Geological Sur	vey	Ye	es 🗌 No		Name	)		Тор	Datum
Cores Taken Electric Log Run Geologist Repor List All E. Logs F	t / Mud Logs		Y€  Y€	es No						
			Repo		RECORD [	Nev	w Used rmediate, producti	on. etc.		
Purpose of St		ze Hole Orilled	Siz	e Casing (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	OF MENTING /					
Purpose:	[	Depth	Typo		# Sacks Use		EEZE RECORD	Typo a	nd Percent Additives	
Perforate Protect Ca Plug Back	Top	Bottom	Type of Cement		# Oacks Osed		Type and refeelit Additives			
Plug Off Z										
Did you perform     Does the volum     Was the hydraul	e of the total base	fluid of the hyd	draulic fra	cturing treatmen		•	Yes ns? Yes	No (If No	, skip questions 2 an , skip question 3) , fill out Page Three o	,
Date of first Produ	ction/Injection or	Resumed Produ	uction/	Producing Meth			Coolift 0	thor (Fundain)		
Estimated Produc	otion	Oil Bb	le.	Flowing Gas	Pumping  Mcf	Wate		ther <i>(Explain)</i> bls.	Gas-Oil Ratio	Gravity
Per 24 Hours		Oli Bb	15.	Gas	IVICI	vvale	ı Di	JIS.	Gas-Oil Hallo	Gravity
DISPO	OSITION OF GAS	S:		N	METHOD OF CO	MPLE.	TION:		PRODUCTIO	N INTERVAL:
Vented	Sold Use	d on Lease		Open Hole		Dually		nmingled	Тор	Bottom
(If vente	ed, Submit ACO-18	.)			(5	SUDITIIL I	ACO-5) (Subi	mit ACO-4)		
Shots Per Foot	Perforation Top	Perforation Bottom	on	Bridge Plug Type	Bridge Plug Set At		Acid,		Cementing Squeeze Kind of Material Used)	Record
TUBING RECOR	D: Size:		Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Satchell Creek Petroleum, LLC
Well Name	WORCESTER A 5-21
Doc ID	1721211

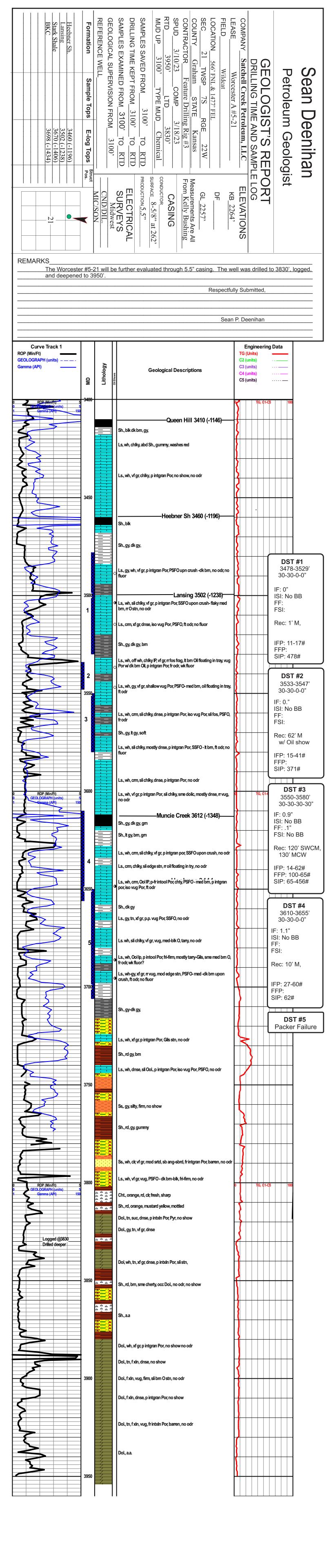
### All Electric Logs Run

BHV	
DIL	
DUCP MEL	
MEL	

Form	ACO1 - Well Completion
Operator	Satchell Creek Petroleum, LLC
Well Name	WORCESTER A 5-21
Doc ID	1721211

### 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	264	common- H	185	2% gel; 3% cc
Production	7.875	5.5	15	3940	class H- BT		50% F, .1% FL, 3% salt
Production	7.875	5.5	15	1918	class H- Con		50% F, .1% FL, 3% salt





EMENT TRE	ATMEN	IT REP	ORT				
Customer:	Satchel	l Creek		Well:	Worcester A #5-21	Ticket:	WP 4042
City, State:	Hill City	KS		County:	Graham KS	Date:	3/9/2023
Field Rep:				S-T-R:	21-7S-22W	Service:	Surface
					2170 2217	Gervicer	Ouridee
Downhole I	nformati	on		Calculated S	lurry - Lead	Calc	ulated Slurry - Tail
Hole Size:	12 1/4			Blend:	HXH-325	Blend:	
Hole Depth:	265			Weight:	14.8 ppg	Weight:	ppg
Casing Size:	8 5/8			Water / Sx:	6.9 gal / sx	Water / Sx:	gal / sx
Casing Depth:	264			Yield:	1.41 ft <sup>3</sup> / sx	Yield:	ft³/sx
ubing / Liner: Depth:		in ft		Annular Bbls / Ft.:	0.0735 bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Fool / Packer:		π		Depth:	264 ft	Depth:	ft
Tool Depth:		ft		Annular Volume:	19.4 bbls	Annular Volume:	0 bbls
Displacement:	15.5	bbls		Excess:	46.4 bbls	Excess:	0.0 kHz
- Januarit	10.0	STAGE	TOTAL	Total Slurry: Total Sacks:	46.4 bbis 185 sx	Total Slurry: Total Sacks:	0.0 bbls
TIME RATE	PSI	BBLs	BBLs	REMARKS	103 34	Total Sacks:	0 sx
6:20 PM		-		Arrived on location, cas	ing was on bottom and rig was circ	ulating on arrival	
6:30 PM			-	Safety meeting			
6:40 PM			-	Rigged up			
7:07 PM 3.7	150.0	5.0	5.0	Water ahead			
7:09 PM 4.7	275.0	46.4	51.4	Mixed 185 sacks HXH-3	25 cement @ 14.8 ppg		
7:19 PM 4.2	175.0	15.5	66.9	Begin displacement			
7:23 PM	150.0		66.9	Plug down and shut in v	with 5 bbls/20 sacks cement circulat	ed to pit	
7:25 PM			66.9	Washed up and rigged of	down		
7:55 PM			66.9	Left location			
			66.9				
			66.9				
		-					
							١
	CREW			UNIT	STATE OF THE STATE	alluly	
Cementer:	John				Avores - Dete	SUMMAR)	
ump Operator:	Jonn			73	Average Rate	Average Pressure	Total Fluid
Bulk #1:	Micha			180-254	4.2 bpm	188 psi	67 bbls
Bulk #1: Bulk #2:	wiicha	201 IX		100-204			



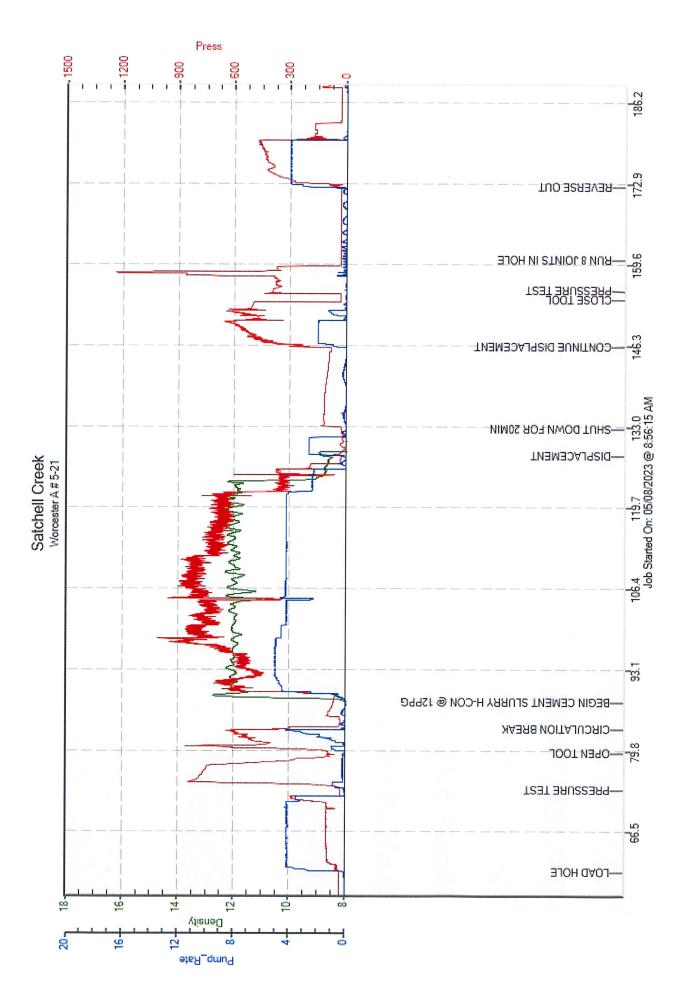
CEMENT	TRE	ATMEN	T REPO	ORT			Harry Harry Course			
				etroleum	Well:		Worcester A 5-21	Ticket:	WP 4068	
City, S	State:				County:		Graham KS	Date:	3/19/2023	
Field	Rep:	William			S-T-R: 21-7S-22W Service: Longstring					
Down	ihole li	nformatio	n		Calculated Si	urry - Lead		Calc	ulated Slurry - Tail	
Hole	Size:	7 7/8	in		Blend:	H-L	.D	Blend:		
Hole D	epth:	3948	ft		Weight:	14.8	ppg	Weight:	ppg	
Casing	Size:	5 1/2	in		Water / Sx:	6.5	gal / sx	Water / Sx:	gal / sx	
Casing D	epth:	3940	ft		Yield:	1.51	ft <sup>3</sup> / sx	Yield:	ft <sup>3</sup> / sx	
Tubing /	Liner:		in		Annular Bbls / Ft.:	0.0309	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.	
	epth:		ft		Depth:	3940	ft	Depth:	ft	
Tool / Pa		Port C			Annular Volume:		bbls	Annular Volume:	0 bbls	
Tool D		1918			Excess:			Excess:	0.0 hblo	
Displace	ment:	93.4	TA SENIOR DESCRIPTION		Total Slurry:	56.5		Total Slurry: Total Sacks:	0.0 bbls 0 sx	
TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	Total Sacks:	210	5X	Total Sacks:	V 3A	
	RATE	PSI	. BBLS	PDE2	ON LOCATION					
200P 210P			-			48. 5 1/2 15.	5# CASING SET @ 3940, 1	6.5' SHOE JOINT		
210P					RIG UP	,	, , , , , , , , , , , , , , , , , , ,			
305P	5.0	250.0	10.0	10.0	H2O AHEAD					
307P		300.0	12.0	22.0	MED FLUSH					
310P		300.0	10.0	32.0	H2O SPACER					
315P		100.0	12.6	44.6	PLUG RATHOLE 50 SX	H-PLUG MIX	(ED @ 13.8 PPG			
325P	6.4	450.0	56.5	101.1	CEMENT DOWNHOLE IN	/IIXED @ 14	8 PPG			
333P				101.1	SHUT DOWN					
335P				101.1	WASH PUMP & LINES					
338P				101.1	DROP PLUG					
340P	6.5	250.0	25.0		DISPLACE H2O					
344P	6.5	250.0	25.0		DISPLACE H2O					
348P		500.0	30.0		DISPLACE H2O					
353P		900.0	13.4		DISPLACE H2O					
357P		1,600.0			LAND PLUG					
400P					RELEASE PRESSURE I	-LUG HELD				
410P					LEFT LOCATION					
500P					ELI I ZOGATION					
							B. Walter C. S. St. St. St. St. St. St. St. St. St.			
		CREW		THE OWNER	UNIT			SUMMAR		
Cei	menter:	Jimr	nie		914		Average Rate	Average Pressure	Total Fluid	
Pump Op			1		208		5.2 bpm	490 psi	195 bbls	
	Bulk #1:		stian		180/254					
Bulk #2:										

ftv: 13-2021/01/19 mplv: 378-2023/03/16



CEMENT	TRE	ATMEN	T REPO	ORT					
Cust	omer:	Satchell	Creek		Well:		Worcester A #5-21	Ticket:	WP4255
City,	State:				County:		Graham,KS	Date:	5/8/2023
Field Rep: Cole					S-T-R:		21-7S-22W	Service:	Port Collar
Dowi	nhole li	nformatio	on		Calculated SI	urry - Lead			ulated Slurry - Tail
	Size:	7 7/8			Blend:	H-C		Blend:	
Hole [		= 4/0	ft		Weight:	12.0		Weight:	ppg
Casing Casing I		5 1/2	ft		Water / Sx:		gal / sx ft³ / sx	Water / Sx: Yield:	gal / sx ft³ / sx
Tubing /			in		Yield: Annular Bbls / Ft.:		bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
	Depth:		ft		Depth:		ft	Depth:	ft
Tool / Pa		Port C			Annular Volume:		bbls	Annular Volume:	0 bbls
Tool E	epth:	1918	ft		Excess:			Excess:	
Displace	ment:	11.1	bbls		Total Slurry:	159.6	bbls	Total Slurry:	0.0 bbls
			STAGE	TOTAL	Total Sacks:	350	sx	Total Sacks:	0 sx
TIME	RATE	PSI	BBLs	BBLs	REMARKS				
1145am			-	-	Arrive on Location				
1200pm				-	Safety Meeting				
1230pm				-	Rig Up				
447	4.0	50.0	50.0	50.0	Load Hole				
117pm 131pm		800.0	0.8	50.8	Pressure Test				
136pm		000.0	0.0	50.8	Open Tool				
138pm		600.0	5.5	56.3	Injection Rate				
146pm		800.0	159.6	215.9	Cement Slurry H-Con 35	50sks @ 12 <sub> </sub>	ppg		
223pm		300.0	2.0	217.9	Displace 2bbls then shu	ut down and	wait for 20min		
243pm	2.0	500.0	9.0	226.9	Continue Displacement				
255pm					Close Tool and Pressur	e Test			
310pm	4.0	270.0	25.0		Reverse Out				
					No cement to Surface				
315pm					Wash Up				
325pm					Rig Down Leave Location				
335pm					Leave Location				
		CDEW			UNIT			SUMMAR	Y
	nenter:	CREW Sper			180/530		Average Rate	Average Pressure	Total Fluid
Cer Pump Op		Mich			230		3.1 bpm	474 psi	252 bbls
	Bulk #1:	Hunt			945				
	Bulk #2:								

ftv: 13-2021/01/19 mplv: 390-2023/04/20





1013 240th AVENUE • HAYS, KANSAS 67601 • 785-621-2135 Satchell Creek Petroleum, LZC 05-03-20 CHARGE TO: **ADDRESS** CUSTOMER ORDER NO. NA R/A SOURCE NO. LEASE AND WELL NO. WORCESTO NEAREST TOWN HILL CITY Graham STATE KONSOS COUNTY SPOT LOCATION 566 FAL 4 1477 FEL RANGE 2212 SEC. Q TWP. ZERO KB7'AGL CASING SIZE 51/2 WEIGHT CUSTOMER'S T.D. FLUID LEVEL FU LOG-TECH TD ENGINEER S. Chesney OPERATOR PERFORATING Description Depth No. Shots From Perf DEPTH AND OPERATIONS CHARGES Description ...... Amount Sonic Cement 3923 2000 narge MISGELANEOUS Description Quantity ..... Amount Service Charge lsoobn TJ. A.O.L. S.J. FJ. T.W.T. PRICES SUBJECT TO CORRECTION BY BILLING DEPARTMENT 10.50000 RECEIVED THE ABOVE SERVICES ACCORDING TO THE TERMS AND CONDITIONS SPECIFIED ON THE REVERSE SIDE TO WHICH WE Sub Total HEREBY AGREE. Total



## **Company: Satchell Creek** Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

**Drilling Contractor: Feature Drilling** 

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

Well Complete

**DATE** March 14 2023

**DST #1** Formation: Lans Test Interval: 3478 -Total Depth: 3529' "A&B" 3529'

Time Off: 05:25 03/15 Time On: 23:36 03/14

1st Close

Time On Bottom: 02:22 03/15 Time Off Bottom: 03:22 03/15

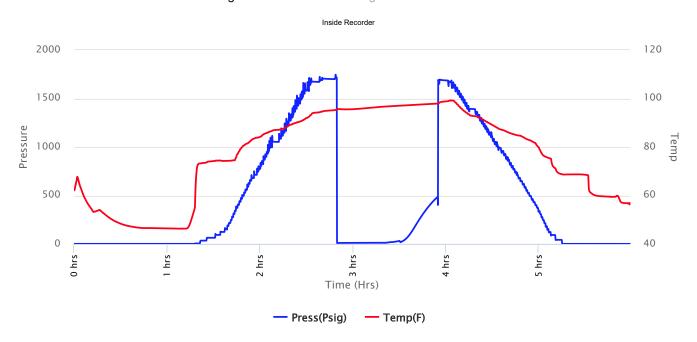
Electronic Volume Estimate:

0'

1st Open Minutes: 30 **Current Reading:** 

Minutes: 30 **Current Reading:** 0" at 30 min 0" at 30 min Max Reading: 0" Max Reading: 0"

2nd Open 2nd Close N/A N/A





Well Complete

**Company: Satchell Creek** Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

**Drilling Contractor: Feature Drilling** 

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API#: 15-065-24234

DATE March 14 2023

**DST #1** Formation: Lans "A&B"

1717

11 to 17

478

0

0

1662

98

0.0

Test Interval: 3478 -Total Depth: 3529' 3529'

Time Off: 05:25 03/15 Time On: 23:36 03/14

Time On Bottom: 02:22 03/15 Time Off Bottom: 03:22 03/15

Recovered

Initial Hydrostatic Pressure

**Initial Closed in Pressure** 

**Final Closed in Pressure** 

Final Hydrostatic Pressure

Pressure Change Initial

Close / Final Close

Final Flow Pressure

Oil % **BBLS Description of Fluid** Gas % Water % Mud % **Foot** 0.00492 0 0 0 100 1 Μ

%

Total Recovered: 1 ft

Total Barrels Recovered: 0.00492

Initial Flow

Temperature

Recovery at a glance Reversed Out 0.005 NO PSI 요 0.0025 PSI **PSI** PSI **PSI** Recovery **PSI** °F Gas Oil Water Mud 0% 0% 0% 100%

GIP cubic foot volume: 0



Well Complete

Company: Satchell Creek Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

Drilling Contractor: Feature Drilling

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

**DATE**March **14**2023

Formation: Lans "A&B" Test Interval: 3478 -

Total Depth: 3529'

3529'

Time On: 23:36 03/14

Time Off: 05:25 03/15

Time On Bottom: 02:22 03/15 Time Off Bottom: 03:22 03/15

### **BUCKET MEASUREMENT:**

1st Open: Weak, surface blow. Died in 6 1/2 mins.

DST #1

1st Close: No blow back.

2nd Open: N/A 2nd Close: N/A

**REMARKS:** 

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



Well Complete

**Company: Satchell Creek** Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

**Drilling Contractor: Feature Drilling** 

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

7 7/8

DATE

March 14 2023

Formation: Lans "A&B"

Test Interval: 3478 -

Total Depth: 3529'

3529'

Time On: 23:36 03/14

Time Off: 05:25 03/15

Time On Bottom: 02:22 03/15 Time Off Bottom: 03:22 03/15

### **Down Hole Makeup**

**Heads Up:** 17.57 FT Packer 1: 3472.5 FT

**Drill Pipe:** 3281 FT Packer 2: 3478 FT

ID-3 1/2 Top Recorder: 3461.42 FT

Weight Pipe: FT **Bottom Recorder:** 1 FT

Collars: 181 FT Well Bore Size:

ID-2 1/4

**Surface Choke:** 1" **Test Tool:** 34.57 FT

**Bottom Choke:** 5/8" ID-3 1/2-FH

Jars Safety Joint

**DST #1** 

**Total Anchor:** 51

**Anchor Makeup** 

Packer Sub:

Perforations: (top): 15 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



Well Complete

Company: Satchell Creek Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

Drilling Contractor: Feature Drilling

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

**DATE** March

14 2023 Formation: Lans "A&B"

DST #1

Test Interval: 3478 -

Total Depth: 3529'

3529'

Time On: 23:36 03/14

Time Off: 05:25 03/15

Time On Bottom: 02:22 03/15 Time Off Bottom: 03:22 03/15

### **Mud Properties**

Mud Type: Chemical Weight: 9.1 Viscosity: 48 Filtrate: 6.4 Chlorides: 2,000 ppm



Well Complete

**Company: Satchell Creek** Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

**Drilling Contractor: Feature Drilling** 

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

**DATE** March 14

2023

DST #1 Formation: Lans "A&B"

Test Interval: 3478 -

Total Depth: 3529'

3529'

Time On: 23:36 03/14

Time Off: 05:25 03/15

Time On Bottom: 02:22 03/15 Time Off Bottom: 03:22 03/15

### **Gas Volume Report**

1st Open 2nd Open



Well Complete

**Company: Satchell Creek** Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

**Drilling Contractor: Feature Drilling** 

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

**DATE** 

March 15 2023

**DST #2** Formation: Lans "C" Test Interval: 3533 -

Total Depth: 3547'

2nd Close

N/A

3547'

Time On: 11:16 03/15

Time Off: 17:07 03/15

2nd Open

N/A

Time On Bottom: 13:42 03/15 Time Off Bottom: 14:42 03/15

Electronic Volume Estimate:

0'

1st Open Minutes: 30

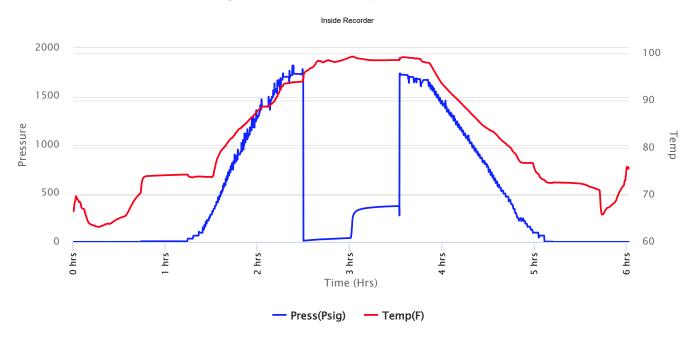
**Current Reading:** 

0" at 30 min Max Reading: 0"

1st Close Minutes: 30

**Current Reading:** 0" at 30 min

Max Reading: 0"





Well Complete

**Company: Satchell Creek** Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

**Drilling Contractor: Feature Drilling** 

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

**DATE** March

15 2023 **DST #2** Formation: Lans "C" Test Interval: 3533 -Total Depth: 3547'

3547'

Time On: 11:16 03/15 Time Off: 17:07 03/15

Time On Bottom: 13:42 03/15 Time Off Bottom: 14:42 03/15

### Recovered

**Description of Fluid** Oil % **BBLS** Gas % Water % Mud % **Foot** 62 0.30504 M (trace oil) 0 0 99.9 .1

Total Recovered: 62 ft

Total Barrels Recovered: 0.30504

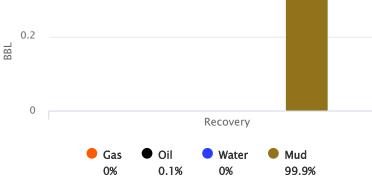
Reversed Out NO

Initial Hydrostatic Pressure	1732	PSI
Initial Flow	15 to 41	PSI
Initial Closed in Pressure	371	PSI
Final Flow Pressure	0	PSI
Final Closed in Pressure	0	PSI
Final Hydrostatic Pressure	1726	PSI
Temperature	100	°F
Pressure Change Initial	0.0	%

Close / Final Close







GIP cubic foot volume: 0



Well Complete

Company: Satchell Creek Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

Drilling Contractor: Feature Drilling

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

**DATE** March

**15** 2023

DST #2 Formation: Lans "C" Test Interval: 3533 - Total Depth: 3547'

3547'

Time On: 11:16 03/15 Time Off: 17:07 03/15

Time On Bottom: 13:42 03/15 Time Off Bottom: 14:42 03/15

### **BUCKET MEASUREMENT:**

1st Open: Weak, surface blow. Died in 5 mins.

1st Close: No blow back.

2nd Open: N/A 2nd Close: N/A

**REMARKS:** 

Tool Sample: 0% Gas .1% Oil 0% Water 99.9% Mud



Well Complete

**Company: Satchell Creek** Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

**Drilling Contractor: Feature Drilling** 

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

7 7/8

**DATE** March

15 2023 **DST #2** Formation: Lans "C" Test Interval: 3533 -Total Depth: 3547'

3547'

Well Bore Size:

Time On: 11:16 03/15 Time Off: 17:07 03/15

Time On Bottom: 13:42 03/15 Time Off Bottom: 14:42 03/15

### **Down Hole Makeup**

Heads Up: 9.57 FT Packer 1: 3527.5 FT

**Drill Pipe:** 3328 FT Packer 2: 3533 FT

ID-3 1/2 Top Recorder: 3516.42 FT

Weight Pipe: FT **Bottom Recorder:** 1 FT

Collars: 181 FT

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:** 14

Packer Sub:

**Anchor Makeup** 

Perforations: (top): 3 FT

4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT

ID-3 1/2

Change Over: FT

Perforations: (below): 10 FT

4 1/2-FH



Well Complete

Company: Satchell Creek Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

**Drilling Contractor: Feature Drilling** 

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

DATE March

**15** 2023

DST #2 Formation: Lans "C" Test Interval: 3533 - Total Depth: 3547'

3547'

Time On Bottom: 13:42 03/15 Time Off Bottom: 14:42 03/15

### **Mud Properties**

Mud Type: Chemical Weight: 9.3 Viscosity: 44 Filtrate: 7.6 Chlorides: 4,000 ppm



Well Complete

Company: Satchell Creek Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

Drilling Contractor: Feature Drilling

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

**DATE** March

**15** 2023 DST #2 Formation: Lans "C" Test Interval: 3533 - Total Depth: 3547'

3547'

Time On: 11:16 03/15 Time Off: 17:07 03/15
Time On Bottom: 13:42 03/15 Time Off Bottom: 14:42 03/15

### **Gas Volume Report**

1st Open 2nd Open

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



Well Complete

Company: Satchell Creek Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

**Drilling Contractor: Feature Drilling** 

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

DATE

March **16** 2023

DST #3 Formation: Lans Test Interval: 3550 - Total Depth: 3580'

Time On: 01:38 03/16 Time Off: 07:39 03/16

Time On Bottom: 03:25 03/16 Time Off Bottom: 05:25 03/16

Electronic Volume Estimate:

45'

<u>1st Open</u> Minutes: 30 Current Reading:

.9" at 30 min

Max Reading: .9"

1st Close Minutes: 30 Current Reading:

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

.10" at 30 min

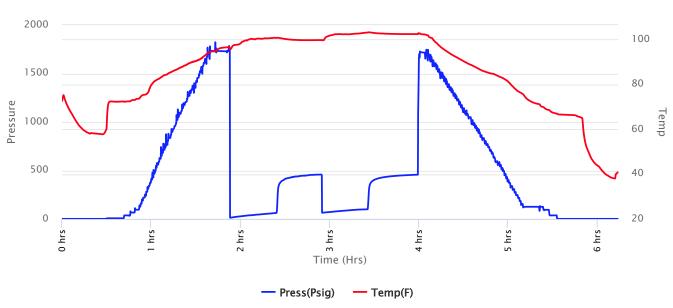
Max Reading: .8"

2nd Close Minutes: 30 Current Reading:

0" at 30 min

Max Reading: 0"







Well Complete

Company: Satchell Creek Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

Drilling Contractor: Feature Drilling

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

DATE March 16

2023

DST #3 Formation: Lans Test Interval: 3550 - Total Depth: 3580'

3580'

Time On: 01:38 03/16 Time Off: 07:39 03/16

Time On Bottom: 03:25 03/16 Time Off Bottom: 05:25 03/16

### Recovered

<u>Foot</u>	BBLS	Description of Fluid	<u>Gas %</u>	<u>Oil %</u>	Water %	Mud %
60	0.8538	SLWCM	0	0	10	90
60 foot	0.37899	SLWCM	0	0	10	90
130	0.6396	MCW	0	0	75	25

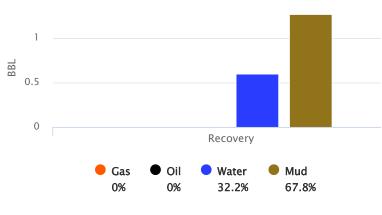
Total Recovered: 250 ft

Total Barrels Recovered: 1.87239

Reversed Out NO
NO

Initial Hydrostatic Pressure	1784	PSI
Initial Flow	14 to 62	PSI
Initial Closed in Pressure	456	PSI
Final Flow Pressure	67 to 99	PSI
Final Closed in Pressure	456	PSI
Final Hydrostatic Pressure	1700	PSI
Temperature	104	°F
Pressure Change Initial	0.0	%
Close / Final Close		

### Recovery at a glance



GIP cubic foot volume: 0



Well Complete

Company: Satchell Creek Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

**Drilling Contractor: Feature Drilling** 

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

DATE March 16

**16** 2023

DST #3 Formation: Lans

Test Interval: 3550 -

Total Depth: 3580'

3580'

Time On: 01:38 03/16 Time Off: 07:39 03/16

Time On Bottom: 03:25 03/16 Time Off Bottom: 05:25 03/16

### **BUCKET MEASUREMENT:**

1st Open: Weak, surface blow building to .9 in.

1st Close: No blow back.

2nd Open: Weak, surface blow building to .10 in.

2nd Close: No blow back.

**REMARKS:** 

Tool Sample: 0% Gas 0% Oil 80% Water 20% Mud

Measured RW: 2.9 @ 34 degrees °F

RW at Formation Temp: 1.067 @ 104 °F

Chlorides: 4,700 ppm



Well Complete

# **Company: Satchell Creek**

Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

**Drilling Contractor: Feature Drilling** 

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

DATE March

16 2023 **DST #3** Formation: Lans Test Interval: 3550 -Total Depth: 3580'

3580'

Time On: 01:38 03/16 Time Off: 07:39 03/16

Time On Bottom: 03:25 03/16 Time Off Bottom: 05:25 03/16

### **Down Hole Makeup**

**Heads Up:** 25.57 FT Packer 1: 3544.5 FT

**Drill Pipe:** 3361 FT Packer 2: 3550 FT

ID-3 1/2 Top Recorder: 3533.42 FT

Weight Pipe: FT **Bottom Recorder:** 1 FT

Collars: 181 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

**Total Anchor:** 30

Safety Joint

**Anchor Makeup** 

Packer Sub:

Perforations: (top): FT

4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT

ID-3 1/2

Change Over: FT

Perforations: (below): 29 FT

4 1/2-FH



Company: Satchell Creek Petroleum, LLC

Lease: Worcester "A" #5-21

State: Kansas

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

Drilling Contractor: Feature Drilling

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

Operation: Well Complete

DATE March

**16** 2023

DST #3 Formation: Lans

Test Interval: 3550 -

Total Depth: 3580'

3580'

Time On: 01:38 03/16

Time Off: 07:39 03/16

Time On Bottom: 03:25 03/16 Time Off Bottom: 05:25 03/16

### **Mud Properties**

Mud Type: Chemical Weight: 9.3 Viscosity: 44 Filtrate: 7.6 Chlorides: 4,000 ppm



Well Complete

Company: Satchell Creek Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

Drilling Contractor: Feature Drilling

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

**DATE** March

16 2023 DST #3 Formation: Lans

Test Interval: 3550 -

Total Depth: 3580'

3580'

Time On: 01:38 03/16 Time Off: 07:39 03/16

Time On Bottom: 03:25 03/16 Time Off Bottom: 05:25 03/16

### **Gas Volume Report**

1st Open 2nd Open

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



Well Complete

**Company: Satchell Creek** Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

**Drilling Contractor: Feature Drilling** 

Total Depth: 3655'

2nd Close

N/A

LLC - Rig 1

2nd Open

N/A

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

**DATE** March

16 2023 **DST #4** Formation: Lans "H-Test Interval: 3610 -3655'

> Time Off: 02:34 03/17 Time On: 20:27 03/16

Time On Bottom: 23:33 03/16 Time Off Bottom: 00:33 03/17

Electronic Volume Estimate:

29'

1st Open Minutes: 30 **Current Reading:** 

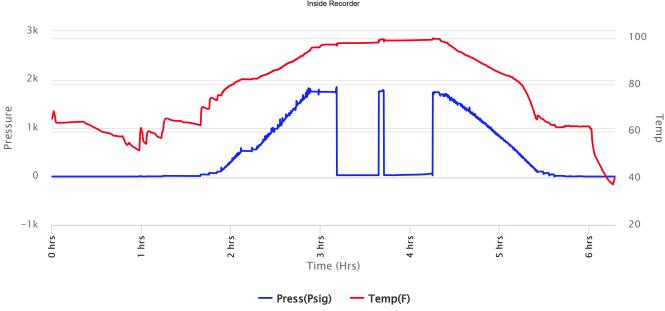
0" at 30 min

Max Reading: 1.1"

1st Close Minutes: 30 **Current Reading:** 

0" at 30 min Max Reading: 0"

Inside Recorder





Well Complete

**Company: Satchell Creek** Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

Drilling Contractor: Feature Drilling

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

**DATE** March

16 2023 Formation: Lans "H-

Test Interval: 3610 -

Total Depth: 3655'

3655'

Time On: 20:27 03/16

Time Off: 02:34 03/17

Time On Bottom: 23:33 03/16 Time Off Bottom: 00:33 03/17

### Recovered

<u>Foot</u>	<u>BBLS</u>	<b>Description of Fluid</b>	<u>Gas %</u>	<u>Oil %</u>	Water %	Mud %
10	0.0492	M	0	0	0	100

Total Recovered: 10 ft

Total Barrels Recovered: 0.0492

Reversed Out
NO

1845	PSI
27 to 60	PSI
62	PSI
0	PSI
0	PSI
1733	PSI
100	°F
0.0	%
	27 to 60 62 0 0 1733

**DST #4** 

Close / Final Close



Oil

0%

Water

0%

Mud

100%

GIP cubic foot volume: 0

Gas

0%



**Company: Satchell Creek** Petroleum, LLC Lease: Worcester "A" #5-21

**Drilling Contractor: Feature Drilling** 

SEC: 21 TWN: 7S RNG: 22W

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

County: GRAHAM State: Kansas

Operation:

Well Complete

**DATE** 

March 16 2023

Formation: Lans "H-

Test Interval: 3610 -

Total Depth: 3655'

3655'

Time On: 20:27 03/16 Time Off: 02:34 03/17

Time On Bottom: 23:33 03/16 Time Off Bottom: 00:33 03/17

### **BUCKET MEASUREMENT:**

1st Open: 1 in. blow. Died in 10 mins.

1st Close: No blow back.

2nd Open: N/A 2nd Close: N/A

**REMARKS:** 

Flushed tool on 1st Open. Weak, surface blow. Died in 10 secs.

DST #4

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



Well Complete

**Company: Satchell Creek** Petroleum, LLC

DST#4

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

**Drilling Contractor: Feature Drilling** 

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

DATE March

16 2023 Formation: Lans "H-

Test Interval: 3610 -

Total Depth: 3655'

3655'

Time Off: 02:34 03/17 Time On: 20:27 03/16

Time On Bottom: 23:33 03/16 Time Off Bottom: 00:33 03/17

### **Down Hole Makeup**

**Heads Up:** 11.57 FT Packer 1: 3604.5 FT

**Drill Pipe:** 3407 FT Packer 2: 3610 FT

ID-3 1/2 Top Recorder: 3593.42 FT

Weight Pipe: FT **Bottom Recorder:** 1 FT

Collars: 181 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

**Total Anchor:** 45

Safety Joint

**Anchor Makeup** 

Packer Sub:

Perforations: (top): 9 FT

4 1/2-FH

**Change Over:** .5 FT

Drill Pipe: (in anchor): FT

ID-3 1/2

**Change Over:** .5 FT

Perforations: (below): 34 FT

4 1/2-FH



Well Complete

**Company: Satchell Creek** Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

**Drilling Contractor: Feature Drilling** 

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

**DATE** 

March 16 2023

Formation: Lans "H-J" **DST #4** 

Test Interval: 3610 -

Total Depth: 3655'

3655'

Time Off: 02:34 03/17 Time On: 20:27 03/16

Time On Bottom: 23:33 03/16 Time Off Bottom: 00:33 03/17

### **Mud Properties**

Mud Type: Chemical Weight: 9.3 Viscosity: 46 Filtrate: 8.0 Chlorides: 4,000 ppm



Well Complete

**Company: Satchell Creek** Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

**Drilling Contractor: Feature Drilling** 

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

**DATE** March

16 2023

Formation: Lans "H-J" **DST #4** 

Test Interval: 3610 -

Total Depth: 3655'

3655'

Time Off: 02:34 03/17 Time On: 20:27 03/16

Time On Bottom: 23:33 03/16 Time Off Bottom: 00:33 03/17

### **Gas Volume Report**

1st Open 2nd Open

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



Well Complete

# Company: Satchell Creek Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

**Drilling Contractor: Feature Drilling** 

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

DATE

March

17

2023

DST #5 Formation: Lans "K&L"/Conglomerate

Test Interval: 3650 -

Total Depth: 3705'

3705'

Time On: 13:18 03/17

Time Off: 21:22 03/17

Time On Bottom: 16:43 03/17 Time Off Bottom: 18:43 03/17

Electronic Volume Estimate:

41'

1st Open Minutes: 30 Current Reading:

1.5" at 30 min

Max Reading: 1.5"

1st Close Minutes: 30 Current Reading:

0" at 30 min

Max Reading: 0"

2nd Open Minutes: 30 Current Reading:

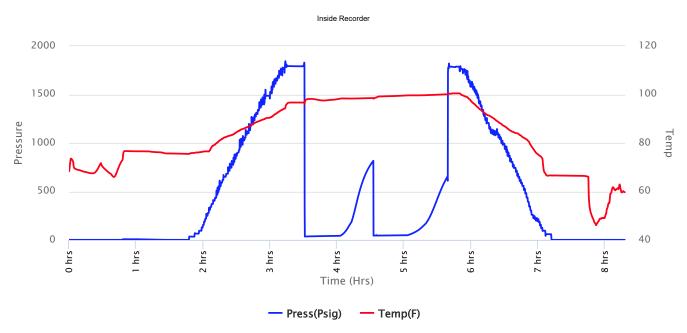
0" at 30 min

Max Reading: 0"

2nd Close Minutes: 30 Current Reading:

0" at 30 min

Max Reading: 0"





Well Complete

**Company: Satchell Creek** Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

**Drilling Contractor: Feature Drilling** 

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

**DATE** March 17

2023

**DST #5** Formation: Lans "K&L"/Conglomerate Test Interval: 3650 -

Total Depth: 3705'

3705'

Time On: 13:18 03/17

Time Off: 21:22 03/17

Time On Bottom: 16:43 03/17 Time Off Bottom: 18:43 03/17

### Recovered

<u>Foot</u>	BBLS	Description of Fluid
1	0.00492	0
69	0.33948	OCM

Gas %	<u>Oil %</u>	Water %	Mud %
0	100	0	0
0	20	0	80

Recovery at a glance

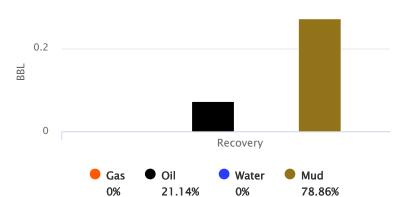
Total Recovered: 70 ft

Total Barrels Recovered: 0.3444

Reversed Out
NO

Initial Hydrostatic Pressure	1830	PSI
Initial Flow	36 to 42	PSI
Initial Closed in Pressure	817	PSI
Final Flow Pressure	45 to 45	PSI
Final Closed in Pressure	649	PSI
Final Hydrostatic Pressure	1780	PSI
Temperature	101	°F
Pressure Change Initial	20.6	%
Close / Final Close		

GIP cubic foot volume: 0





Well Complete

**Company: Satchell Creek** Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

**Drilling Contractor: Feature Drilling** 

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

**DATE** March

17 2023 **DST #5** Formation: Lans "K&L"/Conglomerate Test Interval: 3650 -

Total Depth: 3705'

3705'

Time On: 13:18 03/17 Time Off: 21:22 03/17

Time On Bottom: 16:43 03/17 Time Off Bottom: 18:43 03/17

### **BUCKET MEASUREMENT:**

1st Open: 1 in. blow building to 1 1/2 ins.

1st Close: No blow back

2nd Open: Weak, surface blow. Died in 10 mins.

2nd Close: No blow back.

**REMARKS:** 

Tool Sample: 0% Gas 5% Oil 0% Water 95% Mud



Well Complete

### **Company: Satchell Creek** Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

**Drilling Contractor: Feature Drilling** 

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

DATE

March 17 2023

**DST #5** Formation: Lans "K&L"/Conglomerate Test Interval: 3650 -

Total Depth: 3705'

3705'

Time Off: 21:22 03/17 Time On: 13:18 03/17

Time On Bottom: 16:43 03/17 Time Off Bottom: 18:43 03/17

### **Down Hole Makeup**

**Heads Up:** 32.57 FT Packer 1: 3644.5 FT

**Drill Pipe:** 3468 FT Packer 2: 3650 FT

ID-3 1/2 Top Recorder: 3633.42 FT

Weight Pipe: FT **Bottom Recorder:** 1 FT

Collars: 181 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:** 55

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 9 FT

4 1/2-FH

**Change Over:** .5 FT

Drill Pipe: (in anchor): FT

ID-3 1/2

**Change Over:** .5 FT

Perforations: (below): 44 FT

4 1/2-FH



Well Complete

Company: Satchell Creek Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

**Drilling Contractor: Feature Drilling** 

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

**DATE** March

**17** 2023

DST #5 Formation: Lans "K&L"/Conglomerate

Test Interval: 3650 -

Total Depth: 3705'

3705'

Time On: 13:18 03/17 Time Off: 21:22 03/17

Time On Bottom: 16:43 03/17 Time Off Bottom: 18:43 03/17

### **Mud Properties**

Mud Type: Chemical Weight: 9.3 Viscosity: 52 Filtrate: 8.0 Chlorides: 2,000 ppm



Well Complete

Company: Satchell Creek Petroleum, LLC

Lease: Worcester "A" #5-21

SEC: 21 TWN: 7S RNG: 22W

County: GRAHAM State: Kansas

Drilling Contractor: Feature Drilling

LLC - Rig 1

Elevation: 2257 GL Field Name: Alda South

Pool: Infield Job Number: 652 API #: 15-065-24234

**DATE** March

17 2023 DST #5 Formation: Lans "K&L"/Conglomerate

Test Interval: 3650 -

Total Depth: 3705'

3705'

Time On Bottom: 16:43 03/17 Time Off Bottom: 18:43 03/17

### **Gas Volume Report**

1st Open 2nd Open

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