KOLAR Document ID: 1597869

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

KOLAR Document ID: 1597869

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 Taken (Attach Additional Sheets)			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 Report / Mud Logs List All E. Logs Run:			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	of Cement	# Sacks Use		EEZE RECORD	Typo a	nd Percent Additives	
Perforate Protect Ca Plug Back	Top	Bottom	туре	or cement	# Sacks Use	,u		туре а	ia Percent 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, Fracture, Shot, Cementing Squeeze Record (Amount and Kind of Material Used)			Record	
TUBING RECOR	D: Size:		Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Ritchie Exploration, Inc.
Well Name	STUCKY-DIRKS 1
Doc ID	1597869

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	8.63	24	255	H-325	185	3% gel, 2% cc
Production	7.88	5.5	15.5	4728	Common	175	10% salt,2% gel,5# per sack Kolseal, 1/2% CDI- 26



#1 Stucky-Dirks

290' FNL & 1,502' FEL 60' N & 148' E of NE NW NE Section 33-19S-30W Lane County, Kansas

API# 15-101-22657-0000

Elevation: GL: 2,905', KB: 2,910'

Sample Tops

Sumpre rope		
Anhydrite	2229	+681
B/Anhydrite	2247	+663
Stotler	3560	-650
Heebner	3938	-1028
Toronto	3952	-1042
Lansing	3984	-1074
Muncie	4164	-1254
Stark	4270	-1360
Hushpuckney	4306	-1396
BKC	4347	-1437
Marmaton	4381	-1471
Altamont	4395	-1485
Pawnee	4474	-1564
Myrick	4503	-1593
Ft Scott	4517	-1607
Cherokee	4536	-1626
Johnson	4574	-1664
Mississippi	4600	-1690
Spergen	4641	-1731
RTD	4740	-1830

Hurricane Services, Inc. 250 N. Water St., Suite #200 Wichita, KS 67202



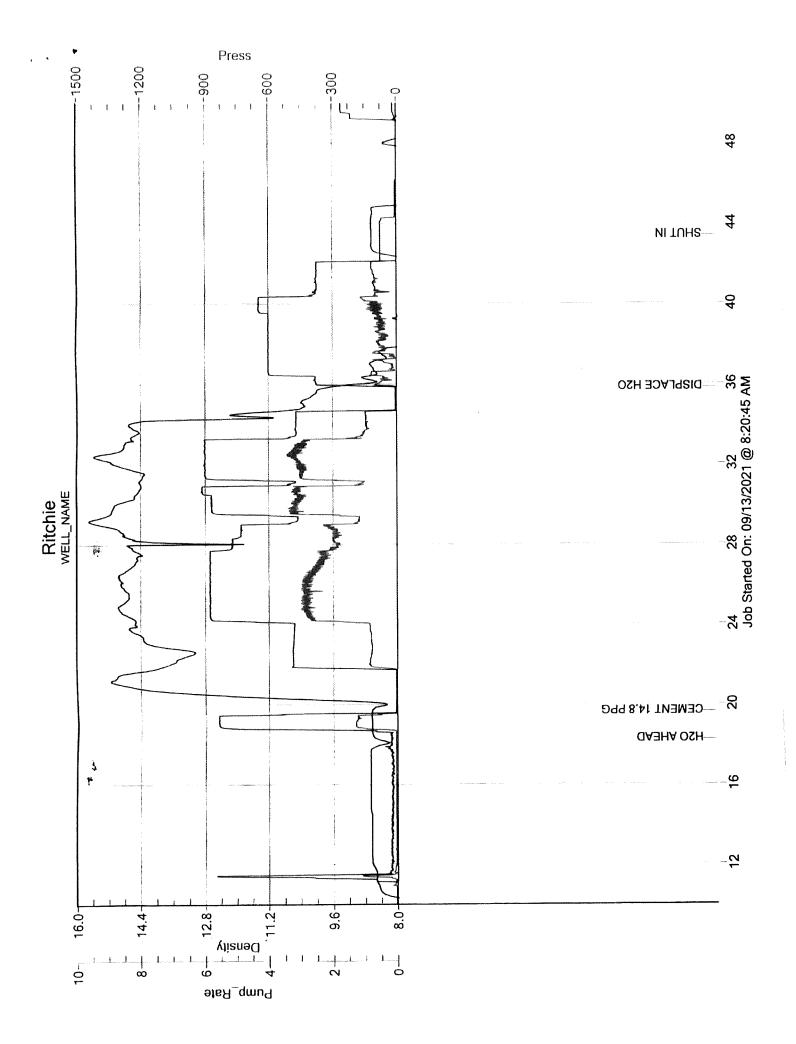
Service District Job Type S Equipment # 73 J	Ritchie Exploration Dakley KS Surface Driver	Inc I PROD	County & State	Stucky-Dirks # 1 Lane KS	Legals S/T/R	33-195-3	ow.	Job#			- 1
Job Type S Equipment # 73 J	Surface	☑ PROD		E-MID IN			# dob #				
Equipment #		131 MOD	☐ INI	[] swp	New Well?	₹YES [No	Ticket#	WP	1854	
73 J	Driver				alysis - A Discuss	ion of Hazards &	Safety Proc	edures			
				√ Gloves	•	✓ Lockout/Tage		✓ Warning Signs & Flagging			
200	losh lesse	✓ Hard hat ✓ H2S Monitor		☑ Eye Protection		Required Pen		Fall Protection			ŀ
	Kale	Safety Footw	*****	Respiratory Pro	otection	Stip/Trip/Fall	Hazards	Specific Job Se	quence/Expec	ctations	
205	Natu	✓ FRC/Protective Clothing Additional Ch				Overhead Ha	zards	✓ Muster Point/®	dedical Locati	ons	- 1
		✓ Hearing Prote		✓ Fire Extinguish	er	Additional co	ncems or iss	ues noted below			
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Con	nments					
							List		ltem		
Product/ Service Code		Desc	ription		Unit of Measure	Quantity		Gross Amount	Discount	Net Am	
	Depth Charge: 0'-56				job	1.00				\$	900.00
1010	response										
M010	Heavy Equipment I	Višeage			sni	75.00					270.00
	Light Equipment M			42000	ml	75,00					135.00
	Ton Mileage				tm	668.25				\$	902.14
CP015	H-325				sack	180.00				\$3,	,240.00
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						+		+			
								 			
							<u> </u>				
						-	 	 			
	<u> </u>			L. Harris Services	s loc 2		Gross		Net	S	5,447.14
Cust	tomer Section: On	tise following suah	e isow would you ra	te Humsane Service	-9-716-	Total Taxable	\$.	Tax Rate:		\supset	\leq
В	lased on this job, I	now likely is it yo	u would recomme	nd HSI to a colleag	ue?	State tax laws do	em certain pro	oducts and services tax exempt.	Sale Tax:	\$	-
	Urassary 1 2	3 4 5	6 7	8 9 10	Extremely Likely	Hurricane Service well information services and/or (above to make	e customer provided e a determination if ex exempt.	Total:	\$	5,447.1
				t prior to sale Credit to				Josh Master		tate of inv	oice. Pas

TERMS: Cash in advance unless Humicane Services Inc. (HSr) has approved credit prior to sale Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 Wh per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an appercy undoor afforce afforced in the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an appercy undoor afforced in the rate of 1 Wh per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an appercy and pay at fees disney, or interestly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discount is invoice price. Upon revocation, the full invoice price without the full invoice price without the price adjustments. Actual charges may vary depending upon time, equipment, and material utilizately required to perform these date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material utilizately required to perform these services. Any discount is based on 30 days net payment terms or cash. DISCLAMER NOTICE: Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no labelity for advice or service and should be used for comparison recommendations made concerning the results from the use of any product or service. The internation presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptance of all terms/conditions stated above, and Humane has been provided accurate well information in determin

CUSTOMER AUTHORIZATION SIGNATURE
OUDIOMETRACIA



						_			
MENT 1	(RE	TMENT	REPO	RT					
Custon	ner: F	Ritchie E	xplorat	on Inc	Well:	Stucky-Dir	ks # 1	Ticket:	WP 1854
City, St	ate: (Dakley K	S		County:	Lane k	(S	Date:	9/11/2021
	-	ep: Josh Mosier			S-T-R:	33-198-3	30W	Service:	Surface
					Calculated SI	uror Load		Calcula	ated Slurry - Tail
		formatio			Blend:	H- 325		Blend:	
Hole S	-	12.25			Weight:	14.8 ppg		Weight:	ppg
Hole De Casing S	-	255 f 8 5/8 f			Water / Sx:	6.9 gal/sx		Water / Sx:	gal / s×
casing De		255			Yield:	1.41 ft³ / sx		Yield:	ft³/sx
ubing / Li			in		Annular Bbls / Ft.:	0.0735 bbs / ft.		Annular Bbls / Ft.:	bbs/ft.
	epth:		ft		Depth:	255 ft		Depth:	Ħ
ool / Pac					Annular Volume:	18.7 bbls		Annular Volume:	0 bbls
Tool De			ft		Excess:			Excess:	
isplacem		16.2	bbls		Total Slurry:	45.2 bbls		Total Slurry:	0.0 bbls
			STAGE	TOTAL	Total Sacks:	180 sx		Total Sacks:	0 sx
IME F	RATE	PSI	BBLs	BBLs	REMARKS				
745P					GOT TO LOCATION				
750P				•	SAFETY MEETING				
765P				•	RIGGED UP TRUCKS				
835P					LANDED CASING	STUDIO DUMO			
840P				-	CIRCULATED HOLE W	ITH RIG PUMP			
848P 3		200.0	5,0	5.0	PUMPED H20 AHEAD MIXED 180 SKS OF H	276 AN 266 ET			
850P 4		400.0	45.2	50.2	DISPLACED WITH H20				
900P 4	4.3	200.0	14.9	65.1	PLUG DOWN		·		
905P				65,1 65,1	WASHED UP PUMP TE	auck			
909P				65.1	RIGGED DOWN TRUC				
920P					OFF LOCATION				
940P									
					6 BBLS CEMENT TO F	NT .			
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					12000				
			 						
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		CREV			73	Averag	e Rate	Average Pressure	Total Fluid
	nenter	Jos			230	·	bpm	267 psi	65 bbls
Pump Op		Jess			205				
	lulk #1 lulk #2		-			1]			





TICKET NUMBER_	1345 K-C
LOCATION	1200 trong Kis
FOREMAN /	ALL TOUR

FIELD TICKET & TREATMENT REPORT CEMENT

Jason Arruston

SERVICES, LI	c			CEMEN	T			2
DATE	CUSTOMER#	WELL	NAME & NUMBE	R	SECTION	TOWNSHIP	RANGE	COUNTY
9-23-21		Street	-Dirks \$	4)	33	195	30W	Lana
CUSTOMER				Amy				
Lite	we Ex	placeta	on Fine	8-500th	TRUCK #	DRIVER	TRUCK#	DRIVER
MAILING ADDRE	:88	V		1-west	802-820			
CITY		STATE	ZIP CODE]	801-850	JONGS		
		OTATE	Zii CODL	5,5		Cory D.		
JOB TYPE Pro	color turn H	OLE SIZE	77/8-	J HOLE DEPTH	49401	CASING SIZE & \	NEIGHT 5	1/2 1515
CASING DEPTH_						ONOTICO OFFICE A	OTHER	01015
- SLURRY WEIGHT	14,2 s	SLURRY VOL	\ \	WATER gal/sk		CEMENT EET in		1)
DISPLACEMENT_	D	ISPLACEMENT	PSI I	MIX PSI		RATE		
REMARKS: 50	tole Most	fier a Rice	UD ded. Y	Marten	#104, x	1130 81.23	Ja 13	1 there
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ACCOUNT CODE	QUANTITY o	or UNITS	DES	SCRIPTION of S	SERVICES or PRO	DUCT	UNIT PRICE	TOTAL
	1		PUMP CHARGE				2,800 20	2,8000
	45		MILEAGE			12.00	715	30175
	9,5	52	Ton mil	OSCO Do	busan		175	749 70
				3-13-11-11	7	77		
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		o sks	Litower	st Blan	0Y		16 00	480 00
	5	350 #	Salt				170	63750
	<u> </u>	75 7	Kolsey!				150	437.50
		300	heil				.50	150,00
		82 #	CD1-26	_			980	73800
	5cc		Much to	15 h			65	32500
) /	5/2 AFR) Float.	Short	^	585-00	58500
		1	5/241 201	ch down	Alve USSY	3	4000	4000
	/	7	5/11 Tort	XI-1 Conff	rizo		11000	77000
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						4-1	SALES TAX	
	1						ESTIMATED	
ITUODIZATION		_ ~					TOTAL	
THORIZATION _	/			TITLE			DATE	

	, Inc.
	rvices
5	Sen

CHAR	GETO: RETCHES EXPLOSATED	TICKET
ADDR	IESS	
Ì		6
5	CITY, STATE, ZIP CODE	T \{

33912

Services, Inc.	ces, Inc.	СІТУ,	CITY, STATE, ZIP CODE					PAGE 1	0F
SERVICE LOPATIONS		CT NO.	STUCKY DRKG	COUNTY/PARISH	STATE CITY			DATE 0W	OWNER Can c
2.	TICKET TYPE M SERVICE SALES	CONTRACTOR HSX		RIG NAME/NO.	├ ──	DELIVERED TO		ORDER NO.	
	WELL TYPE		WELL CATEGORY JO	JOB PURPOSE		WELL PERMIT NO.	A	WELL LOCATION	
REFERRAL LOCATION		INVOICE INSTRUCTIONS		ובי ואו ובי				SSI LULI	
PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	/ ACCOUNTING LOC ACCT	<u> </u>	DESCRIPTION		QTY. U/M QTY.	W/n	UNIT	AMOUNT
SHS			MILEAGE # 115		1	<u> </u>		200	270/00
STED			Pump CHARCE - POST COLLING	- Por Coura		Jes 2183	#	1820 00	150000
275		_	Gorandsees Au	Hous	*			3500	70,00
329-8			60/40 Pezmax	(82cci)	36	365 548	_	12/80	438000
276			Flocele		17:	135 185	_	Š	375/00
290			D-A20			SEA		42 60	210,00
581			SERVITE CHARGE CEMEN	E CEMEN	47	470/548		00 7	940 00
583			DOSTUGE		1-10K	41054 485 923, 72 m	£ 7	00	923 172
				The second secon					-
LEGAL TERMS: the terms and con	LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include,	dges and agrees to sreof which include,	REMIT PAYMENT TO:		SURVEY OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE UNDECIDED	D DISAGREE	PAGE TOTAL	- Oilo
but are not limited	but are not limited to, PAYMENT, RELEASE, INDEMNITY, and	INDEMNITY, and		WEUNDE	WE UNDERSTOOD AND				71.0000

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DECIVERY OF GOODS. **LIMITED WARRANTY** provisions.

X P.M. TIME SIGNED DATE SIGNED 9-29-201

NESS CITY, KS 67560 P.O. BOX 466 785-798-2300

TOTAL ARE YOU SATISFIED WITH OUR SERVICE? METYOUR NEEDS?
OUR SERVICE WAS
PERFORMED WITHOUT DELAY?
WE OPERATED THE EQUIPMENT
AND PERFORMED JOB
CALCULATIONS
SATISFACTORILY? SWIFT SERVICES, INC.

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

☐ CUSTOMER DID NOT WISH TO RESPOND

SWIFT OPERATOR WANE WISCH

APPROVAL

Thank You!

		***************************************	T					
MARJE, PRESTON, ISAAC								
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Company: Ritchie Exploration, Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API#: 15-101-22657

Operation: Uploading recovery & pressures

> **DATE** September 16

2021

DST #1 Formation: Lansing Test Interval: 4259 -Total Depth: 4304' "J&K" 4304'

Time On: 02:39 09/16 Time Off: 12:55 09/16

Time On Bottom: 07:45 09/16 Time Off Bottom: 10:45 09/16

Electronic Volume Estimate: 391'

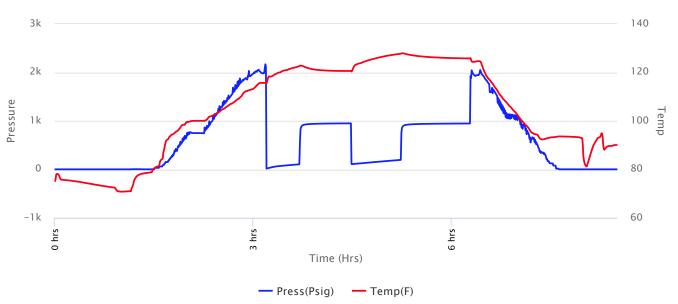
1st Open Minutes: 30 **Current Reading:** 12.2" at 30 min Max Reading: 12.2"

1st Close Minutes: 45 **Current Reading:** 0" at 45 min Max Reading: 0"

2nd Open Minutes: 45 **Current Reading:** 16.1" at 45 min Max Reading: 16.1"

2nd Close Minutes: 60 **Current Reading:** 0" at 60 min Max Reading: 0"

Inside Recorder





Company: Ritchie Exploration, Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512

API #: 15-101-22657

Operation:
Uploading recovery & pressures

DATE
September
16
2021

DST #1 Formation: Lansing Test Interval: 4259 - Total Depth: 4304' 4304'

Time On: 02:39 09/16 Time Off: 12:55 09/16

Time On Bottom: 07:45 09/16 Time Off Bottom: 10:45 09/16

Recovered

<u>Foot</u>	<u>BBLS</u>	<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
105	1.49415	SLWCM	0	0	9	91
120	1.7076	HWCM	0	0	39	61
185	1.5562209	SLMCW	0	0	96	4

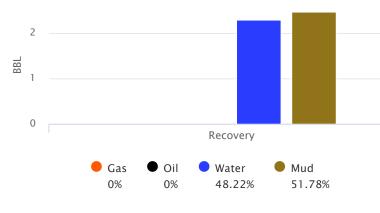
Total Recovered: 410 ft

Total Barrels Recovered: 4.7579709

Reversed Ou	t
NO	

Initial Hydrostatic Pressure	1988	PSI
Initial Flow	16 to 105	PSI
Initial Closed in Pressure	949	PSI
Final Flow Pressure	109 to 196	PSI
Final Closed in Pressure	946	PSI
Final Hydrostatic Pressure	1981	PSI
Temperature	128	°F
Pressure Change Initial	0.3	%
Close / Final Close		

Recovery at a glance



GIP cubic foot volume: 0



Company: Ritchie Exploration, Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

Operation:
Uploading recovery & pressures

DATE
September
16
2021

DST #1 Formation: Lansing Test Interval: 4259 - Total Depth: 4304'

Time On: 02:39 09/16 Time Off: 12:55 09/16

Time On Bottom: 07:45 09/16 Time Off Bottom: 10:45 09/16

BUCKET MEASUREMENT:

1st Open: 1/4" blow building to BOB 30 min.

1st Close: No BB

2nd Open: Surface blow building to BOB 34 1/2 min.

2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas 0% Oil 87% Water 13% Mud

Ph: 8.0

Measured RW: .31 @ 81 degrees °F

RW at Formation Temp: 0.202 @ 128 °F

Chlorides: 20,000 ppm



Company: Ritchie Exploration, Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL

Field Name: Wildcat Pool: WILDCAT Job Number: 512 API#: 15-101-22657

Operation: Uploading recovery & pressures

> **DATE** September 16

2021

DST #1 Formation: Lansing Test Interval: 4259 -Total Depth: 4304' "J&K" 4304'

Time On: 02:39 09/16 Time Off: 12:55 09/16

Time On Bottom: 07:45 09/16 Time Off Bottom: 10:45 09/16

Down Hole Makeup

Heads Up: 7.129999999999 FT Packer 1: 4253.81 FT

Drill Pipe: 4117.76 FT Packer 2: 4258.81 FT

ID-3 1/2

ID-2 7/8

ID-2 1/4

Top Recorder: 4243.23 FT

Surface Choke:

1"

Weight Pipe: 0 FT **Bottom Recorder:** 4297 FT

> Well Bore Size: 7 7/8

Collars: 115.61 FT

Bottom Choke: 5/8" **Test Tool:** 33.57 FT

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 45.19

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 FT

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 31.19 FT

ID-3 1/2

Change Over: 1 FT

Perforations: (below): 8 FT

4 1/2-FH



Company: Ritchie Exploration,

Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W County: LANE

State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE

September

16 2021

Formation: Lansing "J&K" **DST #1** Test Interval: 4259 -Total Depth: 4304' 4304'

Time On: 02:39 09/16 Time Off: 12:55 09/16

Time On Bottom: 07:45 09/16 Time Off Bottom: 10:45 09/16

Mud Properties

Mud Type: Chemical Weight: 9.1 Viscosity: 52 Filtrate: 7.2 Chlorides: 2,400 ppm



Company: Ritchie Exploration,

Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W County: LANE

State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE September 16 2021

Formation: Lansing "J&K" **DST #1** Test Interval: 4259 -Total Depth: 4304' 4304'

Time On: 02:39 09/16 Time Off: 12:55 09/16

Time On Bottom: 07:45 09/16 Time Off Bottom: 10:45 09/16

Gas Volume Report

	1st Op	en			2nd O	pen	
Time	Orifice	PSI	MCF/D	Time	Orifice	PSI	MCF/D



Company: Ritchie Exploration, Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

Total Depth: 4444'

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512

API#: 15-101-22657

Operation:
Uploading recovery & pressures

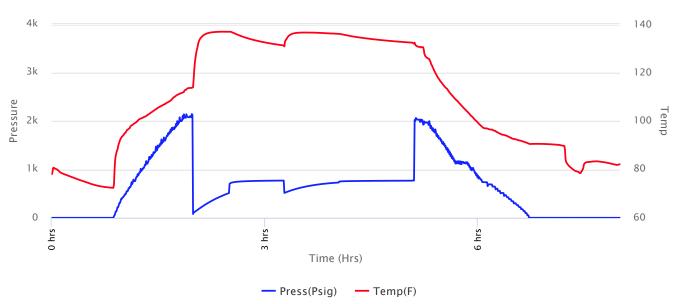
DATE
September
17
2021

DST #2 Formation: Altamont Test Interval: 4413 - "B" 4444'

Time On Bottom: 08:16 09/17 Time Off Bottom: 11:16 09/17

Electronic Volume Estimate: 1817' 1st Open Minutes: 30 Current Reading: 106.3" at 30 min Max Reading: 106.3" 1st Close Minutes: 45 Current Reading: 0" at 45 min Max Reading: 0" 2nd Open Minutes: 45 Current Reading: 58.2" at 45 min Max Reading: 58.2" 2nd Close Minutes: 60 Current Reading: 0" at 60 min Max Reading: 0"

Inside Recorder





Uploading recovery &

pressures

Company: Ritchie Exploration,

Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT

Job Number: 512 API #: 15-101-22657

DATE September 17 2021

Total Depth: 4444' DST #2 **Formation: Altamont** Test Interval: 4413 -"B" 4444'

> Time On: 06:20 09/17 Time Off: 14:07 09/17

Time On Bottom: 08:16 09/17 Time Off Bottom: 11:16 09/17

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid	<u>Gas %</u>	<u>Oil %</u>	Water %	<u>Mud %</u>
475	6.75925	HWCM (trace O)	0	.1	43.9	56
820	11.6686	SLMCW	0	0	99	1
245	2.9686209	W	0	0	100	0
60	0.2952	HMCW	0	0	69	31

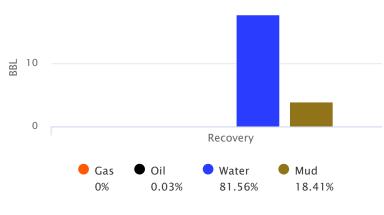
Total Recovered: 1600 ft

Total Barrels Recovered: 21.6916709

Reversed	Out
NO	

Initial Hydrostatic Pressure	2074	PSI
Initial Flow	80 to 511	PSI
Initial Closed in Pressure	769	PSI
Final Flow Pressure	514 to 728	PSI
Final Closed in Pressure	769	PSI
Final Hydrostatic Pressure	2060	PSI
Temperature	138	°F
Pressure Change Initial	0.0	%
Close / Final Close		

Recovery at a glance



GIP cubic foot volume: 0



Company: Ritchie Exploration, Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

Operation:
Uploading recovery & pressures

DATE
September
17
2021

DST #2 Formation: Altamont Test Interval: 4413 - Total Depth: 4444'

Time On: 06:20 09/17 Time Off: 14:07 09/17

Time On Bottom: 08:16 09/17 Time Off Bottom: 11:16 09/17

BUCKET MEASUREMENT:

1st Open: 1 1/2 " blow building to BOB 2 1/2 min.

1st Close: No BB

2nd Open: 3/4"" blow building to BOB 5 1/2 min.

2nd Close: No BB

REMARKS:

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

Ph: 7.5

Measured RW: .26 @ 75 degrees °F

RW at Formation Temp: 0.147 @ 138 °F

Chlorides: 28,000 ppm



Company: Ritchie Exploration,

Inc. Lease: Stucky-Dirks #1 SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL

Field Name: Wildcat Pool: WILDCAT Job Number: 512 API#: 15-101-22657

4415 FT

7 7/8

Operation: Uploading recovery & pressures

> **DATE** September

> > 17 2021

DST #2 Formation: Altamont Test Interval: 4413 -Total Depth: 4444' "B"

Bottom Recorder:

Well Bore Size:

Surface Choke:

4444'

Time On: 06:20 09/17 Time Off: 14:07 09/17

Time On Bottom: 08:16 09/17 Time Off Bottom: 11:16 09/17

Down Hole Makeup

Heads Up: 9.8500000000004 FT Packer 1: 4408 FT

Drill Pipe: 4274.67 FT Packer 2: 4413 FT

ID-3 1/2

Top Recorder: 4397.42 FT

Weight Pipe: 0 FT

ID-2 7/8

Collars: 115.61 FT

ID-2 1/4

Bottom Choke: 5/8" **Test Tool:** 33.57 FT

ID-3 1/2-FH

Jars Safety Joint

Total Anchor:

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 0 FT

4 1/2-FH

Change Over: 0 FT

Drill Pipe: (in anchor): 0 FT

ID-3 1/2

Change Over: 0 FT

Perforations: (below): 30 FT

4 1/2-FH



Company: Ritchie Exploration, SEC: 33 TWN: 19S RNG: 30W County: LANE

Inc.

Lease: Stucky-Dirks #1

State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE

September

17

2021

Formation: Altamont "B" **DST #2** Test Interval: 4413 -Total Depth: 4444' 4444'

Time On: 06:20 09/17 Time Off: 14:07 09/17

Time On Bottom: 08:16 09/17 Time Off Bottom: 11:16 09/17

Mud Properties

Chlorides: 3,000 ppm Mud Type: Chemical Weight: 9.2 Viscosity: 61 Filtrate: 9.6



Company: Ritchie Exploration,

Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W County: LANE

State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE September 17 2021

Formation: Altamont "B" DST #2 Test Interval: 4413 -Total Depth: 4444' 4444'

> Time On: 06:20 09/17 Time Off: 14:07 09/17

Time On Bottom: 08:16 09/17 Time Off Bottom: 11:16 09/17

Gas Volume Report

	1st Open					2nd O	pen	
Time	Orifice	PSI	MCF/D		Time	Orifice	PSI	MCF/E



Uploading recovery &

pressures

Company: Ritchie Exploration, Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512

API#: 15-101-22657

DATE

September

17 2021

Formation: Pawnee

Test Interval: 4463 - 4494'

Total Depth: 4494'

Time On: 22:51 09/17

Time Off: 07:29 09/18

Time On Bottom: 01:30 09/18 Time Off Bottom: 04:30 09/18

Electronic Volume Estimate:

351'

1st Open Minutes: 30 Current Reading:

DST #3

12.9" at 30 min Max Reading: 12.9" 1st Close Minutes: 45 Current Reading:

0" at 45 min Max Reading: 0" 2nd Open Minutes: 45 Current Reading:

10.5" at 45 min

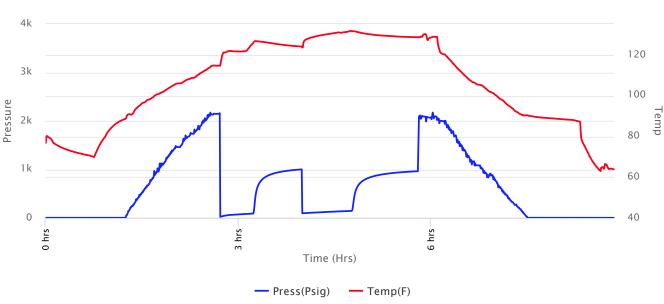
Max Reading: 10.5"

2nd Close Minutes: 60 Current Reading:

0" at 60 min

Max Reading: 0"

Inside Recorder





Company: Ritchie Exploration, Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

Operation:

Uploading recovery & pressures

DATE
September
17
2021

DST #3 Formation: Pawnee Test Interval: 4463 - Total Depth: 4494'

Time On: 22:51 09/17 Time Off: 07:29 09/18

Time On Bottom: 01:30 09/18 Time Off Bottom: 04:30 09/18

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid	<u>Gas %</u>	<u>Oil %</u>	Water %	Mud %
65	0.92495	G	100	0	0	0
10	0.1423	O	0	100	0	0
110	1.5653	WCHOCM	0	36	23	41
180	1.4850709	SLOCSLMCW	0	7	77	16

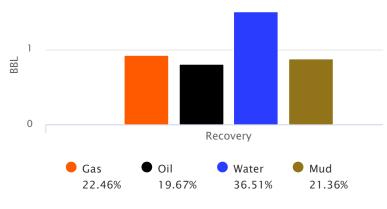
Total Recovered: 365 ft

Total Barrels Recovered: 4.1176209

Reversed Out
NO

Initial Hydrostatic Pressure	2143	PSI
Initial Flow	20 to 89	PSI
Initial Closed in Pressure	1000	PSI
Final Flow Pressure	95 to 144	PSI
Final Closed in Pressure	961	PSI
Final Hydrostatic Pressure	2113	PSI
Temperature	132	°F
Pressure Change Initial	3.9	%
Close / Final Close		

Recovery at a glance



GIP cubic foot volume: 5.19313



Uploading recovery &

pressures

Company: Ritchie Exploration,

Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE

September

17 2021

DST #3 Formation: Pawnee Test Interval: 4463 - Total Depth: 4494'

Time On: 22:51 09/17 Time Off: 07:29 09/18

Time On Bottom: 01:30 09/18 Time Off Bottom: 04:30 09/18

BUCKET MEASUREMENT:

1st Open: 3/4" blow building to BOB 27 min.

1st Close: 1/4" BB

2nd Open: Surface blow building to 10 1/2"

2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas 5% Oil 84% Water 11% Mud

Ph: 7.0

Measured RW: .43 @ 60 degrees °F

RW at Formation Temp: 0.207 @ 132 °F

Chlorides: 18,000 ppm



Uploading recovery &

pressures

Company: Ritchie Exploration,

Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat

Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE

September

17

2021

DST #3 Formation: Pawnee

Test Interval: 4463 -

Total Depth: 4494'

4494'

Time On: 22:51 09/17

Time Off: 07:29 09/18

Time On Bottom: 01:30 09/18 Time Off Bottom: 04:30 09/18

Down Hole Makeup

Heads Up: 23.14 FT **Packer 1:** 4458 FT

Drill Pipe: 4337.96 FT **Packer 2**: 4463 FT

ID-3 1/2

Top Recorder: 4447.42 FT

5/8"

Bottom Choke:

Weight Pipe: 0 FT

Bottom Recorder: 4465 FT

ID-2 7/8

Collars: 115.61 FT Well Bore Size: 7 7/8

ID-2 1/4 Surface Choke: 1"

Test Tool: 33.57 FT

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 31

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 0 FT

4 1/2-FH

Change Over: 0 FT

Drill Pipe: (in anchor): 0 FT

ID-3 1/2

Change Over: 0 FT

Perforations: (below): 30 FT

4 1/2-FH



Uploading recovery &

pressures

Company: Ritchie Exploration, SEC: 33 TWN: 19S RNG: 30W County: LANE

Inc.

Lease: Stucky-Dirks #1

State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE

September

17 2021

DST #3 Formation: Pawnee Test Interval: 4463 -Total Depth: 4494'

4494'

Time On: 22:51 09/17 Time Off: 07:29 09/18

Time On Bottom: 01:30 09/18 Time Off Bottom: 04:30 09/18

Mud Properties

Mud Type: Chemical Weight: 9.1 Viscosity: 54 Filtrate: 8.0 Chlorides: 3,400 ppm



Uploading recovery &

pressures

Company: Ritchie Exploration,

Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W County: LANE

State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE

September 17 2021

DST #3 Formation: Pawnee Test Interval: 4463 -Total Depth: 4494' 4494'

Time On: 22:51 09/17 Time Off: 07:29 09/18

Time On Bottom: 01:30 09/18 Time Off Bottom: 04:30 09/18

Gas Volume Report

1st Open 2nd Open

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



Company: Ritchie Exploration,

Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

Operation:
Uploading recovery & pressures

DATE
September
18
2021

DST #4 Formation: Myrick

Formation: Myrick Test Inter Station/Ft. Scott 45

Test Interval: 4492 - Total Depth: 4536'

4536'

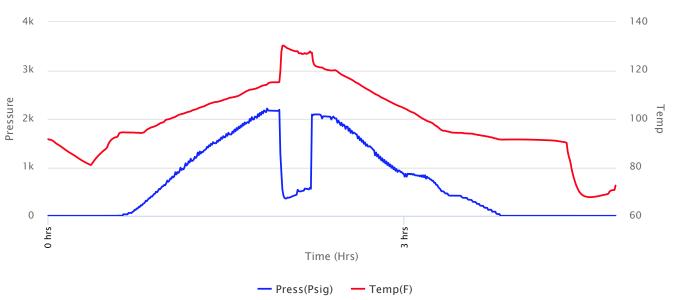
Time On Bottom: 20:35 09/18 Time Off Bottom: 00:00 01/01

Electronic Volume Estimate: 801' 1st Open Minutes: 5 Current Reading: 60.2" at 5 min Max Reading: 60.2" <u>1st Close</u> N/A

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

60.2" at 5 min

Inside Recorder





Company: Ritchie Exploration,

Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512

API#: 15-101-22657

Operation:
Uploading recovery & pressures

DATE
September
18
2021

DST #4 Formation: Myrick Station/Ft. Scott

Test Interval: 4492 -

Total Depth: 4536'

4536'

Time On: 18:41 09/18 Time Off: 23:21 09/18

Time On Bottom: 20:35 09/18 Time Off Bottom: 00:00 01/01

Recovered

 Foot
 BBLS
 Description of Fluid
 Gas %
 Oil %
 Water %
 Mud %

 615
 7.6751209
 M
 0
 0
 0
 100

Total Recovered: 615 ft

Total Barrels Recovered: 7.6751209

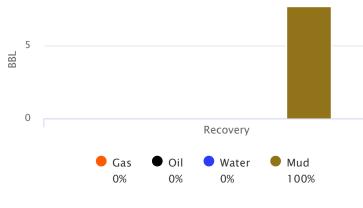
Close / Final Close

Reversed	Out

Initial Hydrostatic Pressure	0	PSI
Initial Flow	0	PSI
Initial Closed in Pressure	0	PSI
Final Flow Pressure	0	PSI
Final Closed in Pressure	0	PSI
Final Hydrostatic Pressure	0	PSI
Temperature	0	°F
Pressure Change Initial	0.0	%

GIP cubic foot volume: 0

Recovery at a glance





Company: Ritchie Exploration,

Inc.

DST #4

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W County: LANE

State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE

September

18 2021 **Formation: Myrick** Station/Ft. Scott

Test Interval: 4492 -

Total Depth: 4536'

4536'

Time On: 18:41 09/18 Time Off: 23:21 09/18

Time On Bottom: 20:35 09/18 Time Off Bottom: 00:00 01/01

BUCKET MEASUREMENT:

1st Open: 8" blow building to BOB 30 sec.

REMARKS:

PACKER FAILURE



Company: Ritchie Exploration, Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL

Field Name: Wildcat Pool: WILDCAT Job Number: 512 API#: 15-101-22657

Operation: Uploading recovery & pressures

DATE

September 18

2021

DST #4

115.61 FT

Formation: Myrick

Test Interval: 4492 -4536'

Total Depth: 4536'

4486.67 FT

Station/Ft. Scott

Time On: 18:41 09/18

Time Off: 23:21 09/18

Time On Bottom: 20:35 09/18 Time Off Bottom: 00:00 01/01

Down Hole Makeup

Heads Up: 25.94 FT Packer 1:

Drill Pipe: 4369.43 FT Packer 2: 4491.67 FT

ID-3 1/2

ID-2 7/8

Collars:

Top Recorder: 4476.09 FT

Weight Pipe: 0 FT **Bottom Recorder:** 4529 FT

Well Bore Size: 7 7/8

1" **Surface Choke:** ID-2 1/4

Bottom Choke: 5/8" **Test Tool:** 33.57 FT

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 44.33

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 2 FT

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 31.33 FT

ID-3 1/2

Change Over: 1 FT

Perforations: (below): 8 FT

4 1/2-FH



Company: Ritchie Exploration, SEC: 33 TWN: 19S RNG: 30W County: LANE

Formation: Myrick

Inc.

DST #4

Lease: Stucky-Dirks #1

State: Kansas

Drilling Contractor: Murfin Drilling

Total Depth: 4536'

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE

September

2021

18

Station/Ft. Scott 4536'

Time On: 18:41 09/18 Time Off: 23:21 09/18

Time On Bottom: 20:35 09/18 Time Off Bottom: 00:00 01/01

Test Interval: 4492 -

Mud Properties

Mud Type: Chemical Weight: 9.3 Viscosity: 49 Filtrate: 8.8 Chlorides: 3,600 ppm



Company: Ritchie Exploration,

Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W County: LANE

State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE September 18 2021

DST #4 **Formation: Myrick** Station/Ft. Scott

Test Interval: 4492 -

Total Depth: 4536'

4536'

Time On: 18:41 09/18 Time Off: 23:21 09/18

Time On Bottom: 20:35 09/18 Time Off Bottom: 00:00 01/01

Gas Volume Report

1st Open					
Time	Orifice	PSI	MCF/D		

2nd Open					
Time	Orifice	PSI	MCF/D		



Company: Ritchie Exploration, Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API#: 15-101-22657

Operation: Uploading recovery & pressures

> **DATE** September 19 2021

DST #5 Formation: Myrick/Ft. Scott Test Interval: 4490 -

Total Depth: 4536'

4536'

Time On: 23:58 09/19 Time Off: 07:44 09/19

Time On Bottom: 02:13 09/19 Time Off Bottom: 04:13 09/19

Electronic Volume Estimate: 1754'

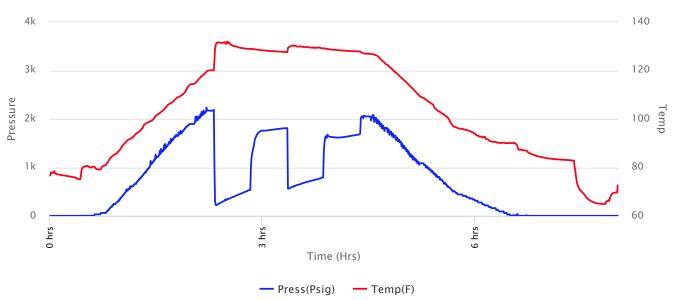
1st Open Minutes: 30 **Current Reading:** 95.1" at 30 min Max Reading: 95.1"

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

2nd Open Minutes: 30 **Current Reading:** 59.6" at 30 min Max Reading: 59.6"

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

Inside Recorder





Company: Ritchie Exploration,

Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512

API#: 15-101-22657

Operation: Uploading recovery & pressures

> **DATE** September 19 2021

DST #5 Formation: Myrick/Ft. Scott Test Interval: 4490 -

Total Depth: 4536'

Water %

0

4536'

Time On: 23:58 09/19 Time Off: 07:44 09/19

Time On Bottom: 02:13 09/19 Time Off Bottom: 04:13 09/19

Gas %

0

Recovered

BBLS Foot 1675 22.7589209 **Description of Fluid** Μ

<u>Oil %</u>

0

Mud % 100

Total Recovered: 1675 ft

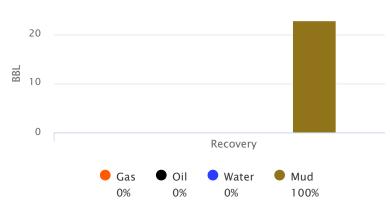
Total Barrels Recovered: 22.7589209

NO

Initial Hydrostatic Pressure	2168	PSI
Initial Flow	224 to 537	PSI
Initial Closed in Pressure	1809	PSI
Final Flow Pressure	562 to 796	PSI
Final Closed in Pressure	1679	PSI
Final Hydrostatic Pressure	2088	PSI
Temperature	132	°F
Pressure Change Initial	7.2	%

Pressure Change Initial Close / Final Close

Recovery at a glance



GIP cubic foot volume: 0



Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

Operation:
Uploading recovery &
pressures

DATE
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19
2021

DST #5 Formation: Test Interval: 4490 - Total Depth: 4536' Myrick/Ft. Scott 4536'

Time On: 23:58 09/19 Time Off: 07:44 09/19

Time On Bottom: 02:13 09/19 Time Off Bottom: 04:13 09/19

BUCKET MEASUREMENT:

1st Open: 8" blow building to BOB 30 sec.

1st Close: No BB

2nd Open: 3" blow building to BOB 5 min.

2nd Close: No BB

REMARKS:

When setting packers, we lost weight a couple of times and slid a little.

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



Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL

Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

Operation:
Uploading recovery & pressures

DATE September

2021

19

DST #5 Formation: Test Interval: 4490 - Total Depth: 4536' Myrick/Ft. Scott 4536'

Time On: 23:58 09/19 Time Off: 07:44 09/19

Time On Bottom: 02:13 09/19 Time Off Bottom: 04:13 09/19

Down Hole Makeup

Heads Up: 28.94 FT **Packer 1:** 4484.67 FT

Drill Pipe: 4370.43 FT **Packer 2:** 4489.67 FT

ID-3 1/2 Top Recorder: 4474.09 FT

Weight Pipe: 0 FT Bottom Recorder: 4527 FT

ID-2 7/8

Collars: 115.61 FT Well Bore Size: 7 7/8

ID-2 1/4 Surface Choke: 1"

Test Tool: 33.57 FT Bottom Choke: 5/8"

ID-3 1/2-FH Jars

Safety Joint

Total Anchor: 47.33

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 2 FT

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 31.33 FT

ID-3 1/2

Change Over: 1 FT

Perforations: (below): 11 FT

4 1/2-FH



Company: Ritchie Exploration,

Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W County: LANE

State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE September

19 2021 **DST #5**

Formation: Myrick/Ft. Scott Test Interval: 4490 -

Total Depth: 4536'

4536'

Time On: 23:58 09/19 Time Off: 07:44 09/19

Time On Bottom: 02:13 09/19 Time Off Bottom: 04:13 09/19

Mud Properties

Mud Type: Chemical Weight: 9.3 Viscosity: 49 Filtrate: 8.8 Chlorides: 3,600 ppm



Company: Ritchie Exploration,

Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W County: LANE

State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE September 19 2021

DST #5

Formation: Myrick/Ft. Scott Test Interval: 4490 -

Total Depth: 4536'

PSI

MCF/D

4536'

Time On: 23:58 09/19 Time Off: 07:44 09/19

Time On Bottom: 02:13 09/19 Time Off Bottom: 04:13 09/19

Gas Volume Report

1st Open				2nd O _l	oen	
Time	Orifice	PSI	MCF/D	Time	Orifice	Ρ



Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

Operation:
Tripping in hole with test tool

DATE
September
19
2021

DST#6

Formation: Myrick/Ft. Scott/Cherokee Test Interval: 4504 -

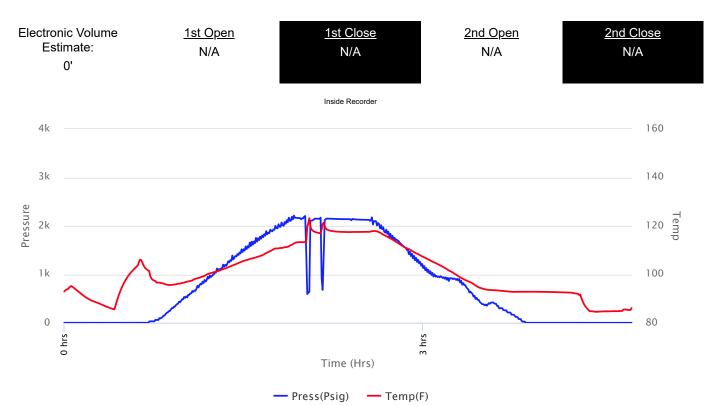
Total Depth: 4561'

4561'

Time On: 15:42 09/19

Time Off: 20:19 09/20

Time On Bottom: 00:00 01/01 Time Off Bottom: 00:00 01/01





Inc.

Lease: Stucky-Dirks #1

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

SEC: 33 TWN: 19S RNG: 30W

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512

API #: 15-101-22657

Operation:
Tripping in hole with test tool

DATE
September
19
2021

DST #6 Formation: Myrick/Ft. Test Interval: 4504 -

Total Depth: 4561'

4561'

Scott/Cherokee
Time On: 15:42 09/19

Time Off: 20:19 09/20

Time On Bottom: 00:00 01/01 Time Off Bottom: 00:00 01/01

0

Recovered

Foot BBLS 760 9.7384709 Description of Fluid M Gas % Oil %

Water % 0

Mud % 100

Total Recovered: 760 ft

Total Barrels Recovered: 9.7384709

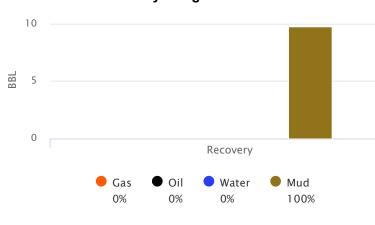
Close / Final Close

Reversed Out NO

Initial Hydrostatic Pressure	0	PSI
Initial Flow	0	PSI
Initial Closed in Pressure	0	PSI
Final Flow Pressure	0	PSI
Final Closed in Pressure	0	PSI
Final Hydrostatic Pressure	0	PSI
Temperature	0	°F
Pressure Change Initial	0.0	%

Recovery at a glance

0



GIP cubic foot volume: 0



Company: Ritchie Exploration,

Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W County: LANE

State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE September

19 2021 **DST #6** Formation: Myrick/Ft.

Test Interval: 4504 -

Total Depth: 4561'

4561'

Scott/Cherokee Time On: 15:42 09/19

Time Off: 20:19 09/20

Time On Bottom: 00:00 01/01 Time Off Bottom: 00:00 01/01

BUCKET MEASUREMENT:

REMARKS:

PACKER FAILURE



Company: Ritchie Exploration,

Inc. Lease: Stucky-Dirks #1 SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat

Pool: WILDCAT Job Number: 512 API#: 15-101-22657

DATE September 19 2021

DST#6

Formation: Test Interval: 4504 -Myrick/Ft.

Total Depth: 4561'

4561'

Scott/Cherokee Time On: 15:42 09/19

Time Off: 20:19 09/20

Time On Bottom: 00:00 01/01 Time Off Bottom: 00:00 01/01

Down Hole Makeup

Heads Up: 13.94 FT Packer 1: 4498.67 FT

Drill Pipe: 4369.43 FT Packer 2: 4503.67 FT

ID-3 1/2 Top Recorder: 4488.09 FT

Weight Pipe: 0 FT **Bottom Recorder:** 4544 FT

Well Bore Size: 7 7/8

115.61 FT 1" ID-2 1/4 **Surface Choke:**

Test Tool: Bottom Choke: 5/8" 33.57 FT

ID-3 1/2-FH

ID-2 7/8

Collars:

Jars Safety Joint

Total Anchor: 57.33

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 5 FT

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 31.33 FT

ID-3 1/2

Change Over: 1 FT

Perforations: (below): 18 FT

4 1/2-FH



Company: Ritchie Exploration,

Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Total Depth: 4561'

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE September 19 2021

DST #6

Formation: Myrick/Ft. Scott/Cherokee Test Interval: 4504 -

4561'

Time On: 15:42 09/19

Time Off: 20:19 09/20

Time On Bottom: 00:00 01/01 Time Off Bottom: 00:00 01/01

Mud Properties

Weight: 9.1 Viscosity: 52 Chlorides: 4,000 ppm Mud Type: Chemical Filtrate: 8.0



Company: Ritchie Exploration,

Inc.

Lease: Stucky-Dirks #1

Time On: 15:42 09/19

SEC: 33 TWN: 19S RNG: 30W County: LANE

State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE September 19 2021

DST #6 Formation: Test Interval: 4504 -

Total Depth: 4561'

4561'

Myrick/Ft. Scott/Cherokee

Time Off: 20:19 09/20

Time On Bottom: 00:00 01/01 Time Off Bottom: 00:00 01/01

Gas Volume Report

1st Open				
Time	Orifice	PSI	MCF/D	

2nd Open					
Time	Orifice	PSI	MCF/D		



Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512

API#: 15-101-22657

Operation:
Uploading recovery & pressures

DATE
September
19
2021

DST #7

Formation: Cherokee

Test Interval: 4534 -

Total Depth: 4561'

4561'

Time On: 20:54 09/19

Time Off: 04:47 09/20

Time On Bottom: 22:41 09/19 Time Off Bottom: 01:41 09/20

Electronic Volume Estimate: 42' 1st Open Minutes: 30 Current Reading: 1.2" at 30 min Max Reading: 1.2" 1st Close Minutes: 45 Current Reading: 0" at 45 min

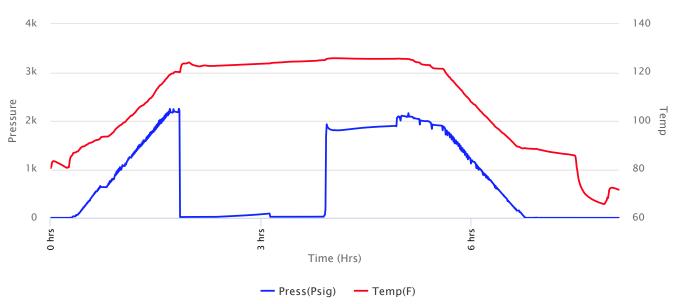
0" at 45 min
Max Reading: 0"

2nd Open Minutes: 45 Current Reading: 0" at 45 min

Max Reading: 0"

2nd Close Minutes: 60 Current Reading: 0" at 60 min Max Reading: 0"

Inside Recorder





Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

Operation:
Uploading recovery &
pressures

DATE
September
19
2021

DST #7 Formation: Cherokee

Test Interval: 4534 -

Total Depth: 4561'

4561'

Time On: 20:54 09/19

Time Off: 04:47 09/20

Time On Bottom: 22:41 09/19 Time Off Bottom: 01:41 09/20

Recovered

Foot BBLS 20 0.0984

Description of Fluid SLOCM

 Gas %
 Oil %
 Water %
 Mud %

 0
 1
 0
 99

Recovery at a glance

Total Recovered: 20 ft

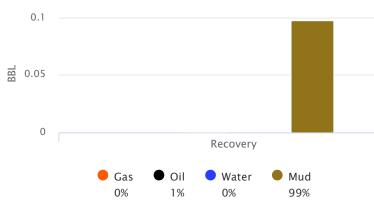
Total Barrels Recovered: 0.0984

Close / Final Close

Reversed Out NO

2178	PSI
16 to 21	PSI
90	PSI
22 to 25	PSI
0	PSI
2160	PSI
126	°F
100.0	%
	16 to 21 90 22 to 25 0 2160 126

GIP cubic foot volume: 0





Operation:

Uploading recovery &

pressures

Company: Ritchie Exploration,

Formation:

Inc.

DST #7

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE

September 19 2021

Cherokee

Test Interval: 4534 -

Total Depth: 4561'

4561'

Time On: 20:54 09/19

Time Off: 04:47 09/20

Time On Bottom: 22:41 09/19 Time Off Bottom: 01:41 09/20

BUCKET MEASUREMENT:

1st Open: 1/4" blow building to 1"

1st Close: No BB

2nd Open: Surface blow 2nd Close: Surface blow

REMARKS:

There was no final shut-in pressure because the tool must have slid down a little and the slips kept the hydrostatic tool to stay

shut.

Tool Sample: 0% Gas 4% Oil 0% Water 96% Mud



Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL

Total Depth: 4561'

Field Name: Wildcat Pool: WILDCAT Job Number: 512 API#: 15-101-22657

Operation: Uploading recovery & pressures

DATE

September 19

2021

DST #7 Formation: Test Interval: 4534 -

Time On: 20:54 09/19

Cherokee

Time Off: 04:47 09/20

4561'

Time On Bottom: 22:41 09/19 Time Off Bottom: 01:41 09/20

Down Hole Makeup

Heads Up: 14.94 FT Packer 1: 4529 FT

Drill Pipe: 4400.76 FT Packer 2: 4534 FT

ID-3 1/2 Top Recorder: 4518.42 FT

Weight Pipe: 0 FT **Bottom Recorder:** 4536 FT

ID-2 7/8

Well Bore Size: 7 7/8 Collars: 115.61 FT

Surface Choke: ID-2 1/4

Bottom Choke: 5/8" **Test Tool:** 33.57 FT

ID-3 1/2-FH Jars

Safety Joint

Total Anchor:

Anchor Makeup

1 FT

Packer Sub:

Perforations: (top): 0 FT

4 1/2-FH

Change Over: 0 FT

Drill Pipe: (in anchor): 0 FT

ID-3 1/2

Change Over: 0 FT

Perforations: (below): 26 FT

4 1/2-FH



Company: Ritchie Exploration,

Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W County: LANE

State: Kansas

Drilling Contractor: Murfin Drilling

Total Depth: 4561'

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE

September

19 2021 **DST #7** Formation: Cherokee

Test Interval: 4534 -

4561'

Time On: 20:54 09/19

Time Off: 04:47 09/20

Time On Bottom: 22:41 09/19 Time Off Bottom: 01:41 09/20

Mud Properties

Chlorides: 4,000 ppm Mud Type: Chemical Weight: 9.1 Viscosity: 52 Filtrate: 8.0



Company: Ritchie Exploration,

Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W County: LANE

State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE September 19

2021

DST #7 Formation: Test Interval: 4534 -Total Depth: 4561' Cherokee

4561'

Time On: 20:54 09/19 Time Off: 04:47 09/20

Time On Bottom: 22:41 09/19 Time Off Bottom: 01:41 09/20

Gas Volume Report

1st Open				
Time	Orifice	PSI	MCF/D	Ti

2nd Open					
Time	Orifice	PSI	MCF/D		



Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API#: 15-101-22657

Operation: Uploading recovery & pressures

> **DATE** September 20

2021

DST #8

Formation: Mississippian Test Interval: 4587 -

Total Depth: 4612'

4612'

Time On: 17:03 09/20

Time Off: 02:01 09/21

Time On Bottom: 20:01 09/20 Time Off Bottom: 23:01 09/20

Electronic Volume Estimate: 256'

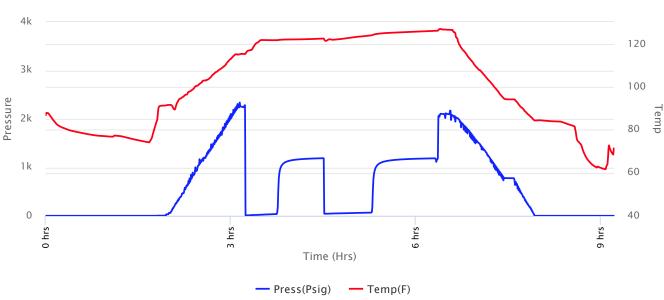
1st Open Minutes: 30 **Current Reading:** 5.3" at 30 min Max Reading: 5.3"

1st Close Minutes: 45 **Current Reading:** 0" at 45 min Max Reading: 0"

2nd Open Minutes: 45 **Current Reading:** 9.5" at 45 min Max Reading: 9.5"

2nd Close Minutes: 60 **Current Reading:** 0" at 60 min Max Reading: 0"

Inside Recorder





Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

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Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512

API #: 15-101-22657

Operation:
Uploading recovery & pressures

DATE
September
20
2021

DST #8 Formation: Test Interval: 4587 - Total Depth: 4612' Mississippian 4612'

Time On: 17:03 09/20 Time Off: 02:01 09/21

Time On Bottom: 20:01 09/20 Time Off Bottom: 23:01 09/20

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid
160	2.2768	G
115	0.9325209	0
40	0.1968	OCM

Total Recovered: 315 ft

Total Barrels Recovered: 3.4061209

Reversed Out
NO

Initial Hydrostatic Pressure	2241	PSI
Initial Flow	11 to 37	PSI
Initial Closed in Pressure	1185	PSI
Final Flow Pressure	42 to 67	PSI
Final Closed in Pressure	1187	PSI
Final Hydrostatic Pressure	2171	PSI
Temperature	127	°F
Pressure Change Initial	0.0	%
Close / Final Close		

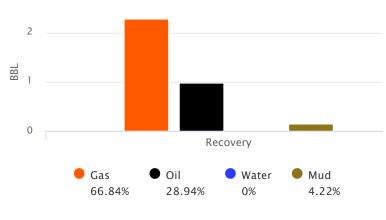
 Gas %
 Oil %
 Water %
 Mud %

 100
 0
 0
 0

 0
 100
 0
 0

27

Recovery at a glance



GIP cubic foot volume: 12.78309



Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

Operation:
Uploading recovery &
pressures

DATE
September
20
2021

DST #8 Formation: Test Interval: 4587 - Total Depth: 4612' Mississippian 4612'

Time On: 17:03 09/20 Time Off: 02:01 09/21

Time On Bottom: 20:01 09/20 Time Off Bottom: 23:01 09/20

BUCKET MEASUREMENT:

1st Open: Surface blow building 5 1/2"

1st Close: No BB

2nd Open: Surface blow building to 9 1/4"

2nd Close: Surface BB

REMARKS:

Tool Sample: 0% Gas 34% Oil 0% Water 66% Mud

Gravity: 32.1 @ 60 °F



Operation:

Uploading recovery &

pressures

Inc. Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W Company: Ritchie Exploration,

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat

Pool: WILDCAT Job Number: 512 API#: 15-101-22657

DATE September 20 2021

DST #8 Formation: Test Interval: 4587 -Total Depth: 4612' 4612' Mississippian

Time On: 17:03 09/20 Time Off: 02:01 09/21

Time On Bottom: 20:01 09/20 Time Off Bottom: 23:01 09/20

Down Hole Makeup

Heads Up: 24.46 FT Packer 1: 4582 FT

Drill Pipe: 4463.28 FT Packer 2: 4587 FT

ID-3 1/2 Top Recorder: 4571.42 FT

Weight Pipe: 0 FT **Bottom Recorder:** 4589 FT

Well Bore Size: 7 7/8 Collars:

Surface Choke: ID-2 1/4

Bottom Choke: 5/8" **Test Tool:** 33.57 FT

ID-3 1/2-FH

1 FT

115.61 FT

Jars Safety Joint

ID-2 7/8

Total Anchor: 25

Anchor Makeup

Packer Sub: 0 FT

Perforations: (top):

4 1/2-FH

Change Over: 0 FT

Drill Pipe: (in anchor): 0 FT

ID-3 1/2

Change Over: 0 FT

Perforations: (below): 24 FT

4 1/2-FH



Company: Ritchie Exploration,

Inc.

DST #8

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W County: LANE

State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE September

20 2021

Formation: Test Interval: 4587 -Mississippian

Total Depth: 4612'

4612'

Time On: 17:03 09/20 Time Off: 02:01 09/21

Time On Bottom: 20:01 09/20 Time Off Bottom: 23:01 09/20

Mud Properties

Chlorides: 4,200 ppm Mud Type: Chemical Weight: 9.1 Viscosity: 57 Filtrate: 8.8



Company: Ritchie Exploration,

Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W County: LANE

State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE September 20 2021

DST #8 Formation: Mississippian Test Interval: 4587 -

Total Depth: 4612'

4612'

Time On: 17:03 09/20 Time Off: 02:01 09/21

Time On Bottom: 20:01 09/20 Time Off Bottom: 23:01 09/20

Gas Volume Report

1st Open				
Time	Orifice	PSI	MCF/D	

2nd Open					
Time	Orifice	PSI	MCF/D		



Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512

API#: 15-101-22657

Operation: Tripping out of hole with test tool

> **DATE** September

21

2021

Electronic Volume

Estimate:

271'

DST #9

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

5.1" at 30 min

Max Reading: 5.1"

Formation: Spergen Test Interval: 4631 -Total Depth: 4660' 4660'

Time On: 15:39 09/21 Time Off: 23:06 09/22

Time On Bottom: 17:40 09/21 Time Off Bottom: 20:40 09/21

1st Close Minutes: 45 **Current Reading:** 0" at 45 min

Max Reading: 0"

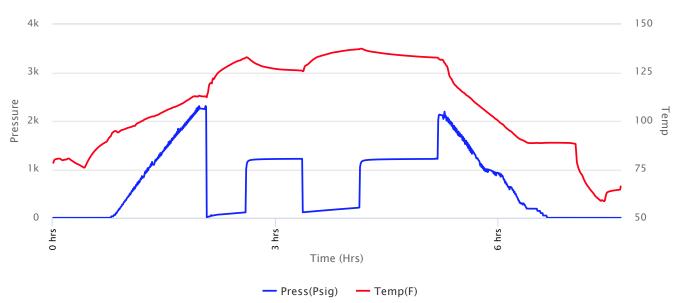
2nd Open Minutes: 45 **Current Reading:** 10.8" at 45 min

Max Reading: 10.8"

2nd Close Minutes: 60 **Current Reading:** 0" at 60 min

Max Reading: 0"







Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512

Water %

Mud %

API#: 15-101-22657

Operation: Tripping out of hole with test tool

> **DATE** September 21 2021

DST #9 Formation: Spergen Test Interval: 4631 -Total Depth: 4660'

Gas %

4660'

<u>Oil %</u>

Time On: 15:39 09/21 Time Off: 23:06 09/22

Time On Bottom: 17:40 09/21 Time Off Bottom: 20:40 09/21

Recovered

BBLS Description of Fluid Foot 450 **SLOCMCW** 5.3271709

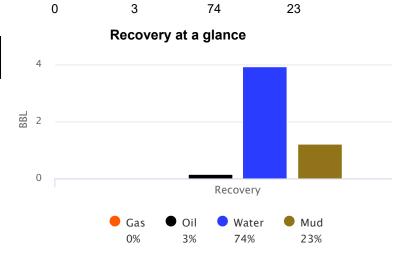
Total Recovered: 450 ft

Total Barrels Recovered: 5.3271709

	Reversed Out
	NO
•	

Initial Hydrostatic Pressure	2242	PSI
Initial Flow	14 to 113	PSI
Initial Closed in Pressure	1218	PSI
Final Flow Pressure	115 to 216	PSI
Final Closed in Pressure	1217	PSI
Final Hydrostatic Pressure	2192	PSI
Temperature	138	°F
Pressure Change Initial	0.1	%
a		

GIP cubic foot volume: 0 Close / Final Close





Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

Operation:
Tripping out of hole with test tool

DATE
September
21
2021

DST #9 Formation: Spergen Test Interval: 4631 - Total Depth: 4660'

Time On: 15:39 09/21 Time Off: 23:06 09/22

Time On Bottom: 17:40 09/21 Time Off Bottom: 20:40 09/21

BUCKET MEASUREMENT:

1st Open: 1/4" blow building to 4 3/4"

1st Close: No BB

2nd Open: Surface blow building to 11"

2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas 10% Oil 40% Water 50% Mud

Ph: 7.0

Measured RW: .47 @ 68 degrees °F

RW at Formation Temp: 0.243 @ 138 °F

Chlorides: 13,000 ppm



Operation:

Tripping out of hole with

test tool

Company: Ritchie Exploration,

Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W

County: LANE State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat

4615.42 FT

Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE

September

21 2021

DST #9 Formation: Spergen Test Interval: 4631 - Total Depth: 4660'

4660'

Time On: 15:39 09/21 Time Off: 23:06 09/22

Time On Bottom: 17:40 09/21 Time Off Bottom: 20:40 09/21

Down Hole Makeup

Heads Up: 11.79 FT **Packer 1:** 4626 FT

Drill Pipe: 4494.61 FT **Packer 2**: 4631 FT

ID-3 1/2 Top Recorder:

Weight Pipe: 0 FT
Bottom Recorder: 4633 FT

ID-2 7/8

Collars: 115.61 FT Well Bore Size: 7 7/8

ID-2 1/4 Surface Choke: 1"

Test Tool: 33.57 FT Bottom Choke: 5/8"

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 29

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 0 FT

4 1/2-FH

Change Over: 0 FT

Drill Pipe: (in anchor): 0 FT

ID-3 1/2

Change Over: 0 FT

Perforations: (below): 28 FT

4 1/2-FH



Operation: Tripping out of hole with test tool

Company: Ritchie Exploration, SEC: 33 TWN: 19S RNG: 30W County: LANE

Inc.

Lease: Stucky-Dirks #1

State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DATE

September

21 2021 **DST #9** Formation: Spergen Test Interval: 4631 -Total Depth: 4660'

4660'

Time On: 15:39 09/21 Time Off: 23:06 09/22

Time On Bottom: 17:40 09/21 Time Off Bottom: 20:40 09/21

Mud Properties

Mud Type: Chemical Weight: 9.2 Viscosity: 54 Filtrate: 9.6 Chlorides: 4,400 ppm



Operation: Tripping out of hole with test tool

DATE

September

21

2021

Company: Ritchie Exploration,

Inc.

Lease: Stucky-Dirks #1

SEC: 33 TWN: 19S RNG: 30W County: LANE

State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 102 Elevation: 2907 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 512 API #: 15-101-22657

DST #9 Formation: Spergen Test Interval: 4631 -

Total Depth: 4660'

4660'

Time On: 15:39 09/21

Time Off: 23:06 09/22

Time On Bottom: 17:40 09/21 Time Off Bottom: 20:40 09/21

Gas Volume Report

1st Open							
Time	Orifice	PSI	MCF/D				

2nd Open								
Time	Orifice	PSI	MCF/D					

