KOLAR Document ID: 1467712

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:						
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.xxxxxx) (e.gxxx.xxxxxx)					
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)	Multiple Stage Cementing Collar Used? Yes No					
Cathodic Other (Core, Expl., etc.):						
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: 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)					
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 #:	Location of fluid disposal if fladica offsite.					
GSW Permit #:	Operator Name:					
_	Lease Name: License #:					
Spud Date or Date Reached TD Completion Date or	QuarterSecTwpS. R East West					
Recompletion Date 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: 1467712

Page Two

Operator Name: _				Lease Name:						
Sec Twp.	S. R.	E	ast West	County:						
	flowing and shu	ut-in pressures, v	vhether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,		
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.gov	v. Digital electronic log		
Drill Stem Tests Ta			Yes No			on (Top), Depth ar		Sample		
Samples Sent to 0	Geological Surv	/ey	Yes No	Na	me		Тор	Datum		
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No							
		B	CASING eport all strings set-c		New Used	ion, etc.				
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives		
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD					
Purpose:		epth T Bottom	ype of Cement	# Sacks Used		Type and F	Percent Additives			
Perforate Protect Casi Plug Back T										
Plug Off Zor										
Did you perform a Does the volume Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,		
Date of first Product Injection:	tion/Injection or R	esumed Production	Producing Meth	nod:	Gas Lift 0	Other (Explain)				
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity		
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			DN INTERVAL: Bottom		
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT		
,	,			B.11 B1						
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid,	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record		
TUBING RECORD:	: Size:	Set	Δ+-	Packer At:						
TODING RECORD:	. 3126.		n.	i donei Al.						

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	SCHMITT 1-10
Doc ID	1467712

All Electric Logs Run

CDL/CNL/PE
DIL
MEL
SONIC

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	SCHMITT 1-10
Doc ID	1467712

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	12.250	8.625	23	251	Class A	3% cc, 2% gel



	omer: N		IT REPO	Company and the second		· · · · · · · · · · · · · · · · · · ·	// 1 O	400 50 50 500 500			
			nag			mitt #	71-10	·	Ticket:	ICT	T1954
City, S	-			Coun	500		_	Date: 4/22/20			2/2019
Field	Rep: H	ector	Duke dri	lling s-T	R: 10-	-17S-32	2W		Servicet	ce	ment
Down	hóle in	ormati	on 🦠	////// (1) / s	lurry	新年的高度			Cer	nent Blend	
	Size:		12.25	Weigi	14	.8 #/sx	1	P	roduct	%	# \
Hole D	-		251'	Water / S		/7 gal/sx	1	Class A			16920
Casing	_		8 5/8"	Yie		/5 ft ³ / 5×	1	Gel			338
Casing D Tubing / I	_		251"	Bbls / F			-	CaCI			507
	epth;		in ft	Dep		ft	-	Metso			
Tool / Pa	_			Volum		bbls % %	-	KolSea PhenoS			
	epth:		ft	Exces		76 76 38 bbis	-	Salt			
Displace			14.75	Total Saci	~~~~~~	ex	1	- Seit			
							1	L		Total	17,7
TIME	RATE	PSI	BBLs	REMARKS	TIME	RATE	PSI	BBLs		REMARKS	
115am				Arrivial							
120am				Safety meeting							***************************************
125am	[_		<u> </u>	Rig up equip							
215pm				Run in casing			<u> </u>	1			
1pm			 	Circulate casing							
120pm	5.0	200.0	1	Cement			<u> </u>				
135pm	5.0	200.0	i 	Displace			<u> </u>				
145pm		200.0	-	Shutin	_		<u> </u>	<u> </u>		· · · · · · · · · · · · · · · · · · ·	
150pm 220pm			╂──┼	Wash up and rig down				<u> </u>			
zzobin i			1 1	depart Cement did circulate 5 bbls to pit		_	<u> </u>	<u> </u>	<u>!</u>	· · · · · · · · · · · · · · · · · · ·	······································
			1	Cement did circulate a pois to pit			 	ļ			· · · · · · · · · · · · · · · · · · ·
											
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		CREV		TINU		3/8/2019	L		SUMMARY		
Cem	enter:		Miles Sha		.0	Avera	ge Rate	Ауегэ	ge Pressure	Total Flui	d.
Pump Ope	_		Paul Willia	· · · · · · · · · · · · · · · · · · ·			bpm	200.00		59.63 b	***************************************
	ulk #1:		Alan Rya						•		



Operation:

Uploading recovery &

pressures

Company: Mull Drilling Company, Inc

Lease: Schmitt #1-10

SEC: 10 TWN: 17S RNG: 32W

County: SCOTT State: Kansas

Drilling Contractor: Duke Drilling

Company, Inc - Rig 4 Elevation: 2988 Sur Field Name: Wildcat Pool: Wildcat Job Number: 338

DATE April 28 DST #1 Formation: Lansing Test Interval: 4210 - Total Depth: 4340'

Time On: 05:44 04/28 Time Off: 15:16 04/28

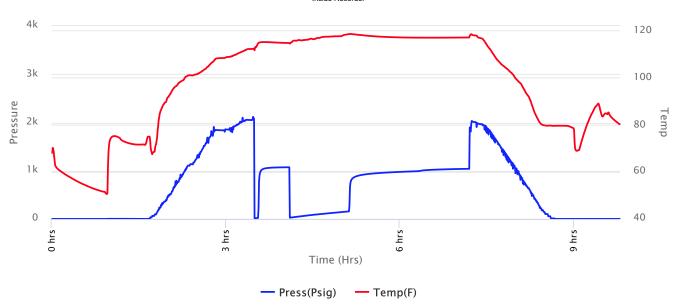
Time On Bottom: 09:08 04/28 Time Off Bottom: 12:43 04/28

Electronic Volume Estimate: 293'

2019

1st Open Minutes: 5 Current Reading: 2.6" at 5 min Max Reading: 2.6" 1st Close Minutes: 30 Current Reading: 0" at 30 min Max Reading: 0" 2nd Open Minutes: 60 Current Reading: 23.1" at 60 min Max Reading: 23.1" 2nd Close Minutes: 120 Current Reading: 0" at 120 min Max Reading: 0"

Inside Recorder





Operation:
Uploading recovery & pressures

SEC: 10 TWN: 17S RNG: 32W County: SCOTT

County: SCOTT State: Kansas

Drilling Contractor: Duke Drilling

Company, Inc - Rig 4 Elevation: 2988 Sur Field Name: Wildcat Pool: Wildcat Job Number: 338

DATEApril **28**2019

DST #1 Formation: Lansing Test Interval: 4210 - Total Depth: 4340'

Time On: 05:44 04/28 Time Off: 15:16 04/28

Time On Bottom: 09:08 04/28 Time Off Bottom: 12:43 04/28

Recovered

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

 310
 4.4113
 M (trace O)
 0
 .1
 0
 99.9

Total Recovered: 310 ft

Initial Hydrostatic Pressure

Initial Flow

Total Barrels Recovered: 4.4113

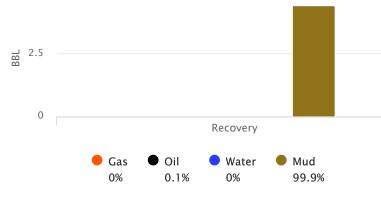
2053

13 to 23

Reversed Out NO
PSI
PSI
PSI
PSI

Initial Closed in Pressure 1072 Final Flow Pressure 30 to 157 **Final Closed in Pressure** 1038 PSI Final Hydrostatic Pressure 2030 PSI °F Temperature 119 Pressure Change Initial 3.2 % Close / Final Close

Recovery at a glance



GIP cubic foot volume: 0



Operation: Uploading recovery & pressures

State: Kansas Drilling Contractor: Duke Drilling

SEC: 10 TWN: 17S RNG: 32W

Company, Inc - Rig 4 Elevation: 2988 Sur Field Name: Wildcat Pool: Wildcat Job Number: 338

County: SCOTT

<u>DATE</u> April 28 2019

Formation: Lansing "I-L" Total Depth: 4340' DST #1 Test Interval: 4210 -4340'

Time On: 05:44 04/28 Time Off: 15:16 04/28

Time On Bottom: 09:08 04/28 Time Off Bottom: 12:43 04/28

BUCKET MEASUREMENT:

1st Open: 1/4" blow building to 2 1/4"

1st Close: No BB

2nd Open: Surface blow building to BOB 31 1/2 min.

2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas 3% Oil 0% Water 97% Mud



Operation: Uploading recovery & pressures

DATE

April

28

2019

Elevation: 2988 Sur Field Name: Wildcat Pool: Wildcat Job Number: 338

Company, Inc - Rig 4

County: SCOTT State: Kansas

SEC: 10 TWN: 17S RNG: 32W

Drilling Contractor: Duke Drilling

Formation: Lansing Test Interval: 4210 -"I-L"

Total Depth: 4340'

Bottom Choke:

5/8"

4340'

Time On: 05:44 04/28 Time Off: 15:16 04/28

Time On Bottom: 09:08 04/28 Time Off Bottom: 12:43 04/28

Down Hole Makeup

Heads Up: 9.749999999996 FT Packer 1: 4204.66 FT

Drill Pipe: 4186.84 FT Packer 2: 4209.66 FT

ID-3 1/2

DST #1

Top Recorder: 4194.08 FT

Weight Pipe: 0 FT **Bottom Recorder:** 4309 FT

ID-2 7/8 Well Bore Size:

7 7/8 Collars: 0 FT

Surface Choke: 1" ID-2 1/4

Test Tool: 33.57 FT

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 130.34

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 FT

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 92.34 FT

ID-3 1/2

Change Over: 1 FT

Perforations: (below): 32 FT

4 1/2-FH



SEC: 10 TWN: 17S RNG: 32W

County: SCOTT State: Kansas

Drilling Contractor: Duke Drilling

Company, Inc - Rig 4 Elevation: 2988 Sur Field Name: Wildcat Pool: Wildcat Job Number: 338

Operation: Uploading recovery & pressures

> **DATE** April 28 2019

Formation: Lansing "I-L" Total Depth: 4340' DST #1 Test Interval: 4210 -

4340'

Time On: 05:44 04/28 Time Off: 15:16 04/28

Time On Bottom: 09:08 04/28 Time Off Bottom: 12:43 04/28

Mud Properties

Mud Type: Chemical Weight: 9.1 Viscosity: 53 Filtrate: 6.4 Chlorides: 2,500 ppm



Operation:
Uploading recovery & pressures

State: Kansas Drilling Contractor: Duke Drilling Company, Inc - Rig 4 Elevation: 2988 Sur Field Name: Wildcat

SEC: 10 TWN: 17S RNG: 32W

Field Name: Wildcat Pool: Wildcat Job Number: 338

County: SCOTT

DATEApril **28**2019

DST #1 Formation: Lansing Test Interval: 4210 - Total Depth: 4340'

Time On: 05:44 04/28 Time Off: 15:16 04/28

Time On Bottom: 09:08 04/28 Time Off Bottom: 12:43 04/28

Gas Volume Report

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



Company: Mull Drilling Company, Inc

Lease: Schmitt #1-10

SEC: 10 TWN: 17S RNG: 32W

County: SCOTT State: Kansas

Drilling Contractor: Duke Drilling

Total Depth: 4450'

Company, Inc - Rig 4 Elevation: 2988 GL Field Name: Wildcat Pool: WILDCAT Job Number: 338

Operation:
Uploading recovery & pressures

DATE
April
29
2019

DST #2 Formation: Test Interval: 4355 -

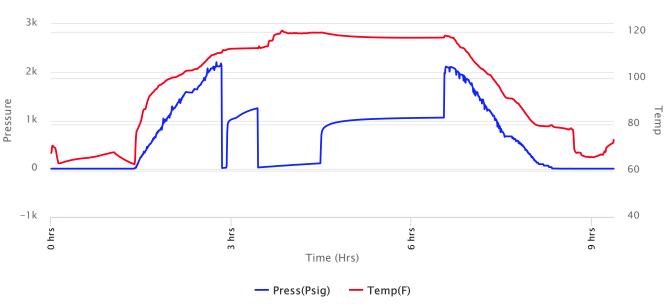
Marmaton 4450'

Time On: 07:32 04/29 Time Off: 16:38 04/29

Time On Bottom: 10:17 04/29 Time Off Bottom: 13:52 04/29

Electronic Volume Estimate: 184' 1st Open Minutes: 5 Current Reading: 1.7" at 5 min Max Reading: 1.7" 1st Close Minutes: 30 Current Reading: 0" at 30 min Max Reading: 0" 2nd Open Minutes: 60 Current Reading: 13.8" at 60 min Max Reading: 13.8" 2nd Close Minutes: 120 Current Reading: 0" at 120 min Max Reading: 0"

Inside Recorder





Company: Mull Drilling
Company, Inc

Lease: Schmitt #1-10

SEC: 10 TWN: 17S RNG: 32W

County: SCOTT State: Kansas

Drilling Contractor: Duke Drilling

Company, Inc - Rig 4 Elevation: 2988 GL Field Name: Wildcat Pool: WILDCAT Job Number: 338

Operation:
Uploading recovery & pressures

DATEApril **29**2019

DST #2 Formation: Test Interval: 4355 - Total Depth: 4450' Marmaton 4450'

Time On: 07:32 04/29 Time Off: 16:38 04/29

Time On Bottom: 10:17 04/29 Time Off Bottom: 13:52 04/29

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid	<u>Gas %</u>	Oil %	Water %	Mud %
155	2.20565	MUD	0	0	0	100
60	0.8538	HWCM	0	0	32	68

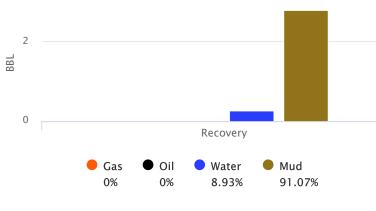
Total Recovered: 215 ft

Total Barrels Recovered: 3.05945

Reversed Out
NO

Initial Hydrostatic Pressure	2124	PSI
Initial Flow	13 to 22	PSI
Initial Closed in Pressure	1253	PSI
Final Flow Pressure	24 to 111	PSI
Final Closed in Pressure	1058	PSI
Final Hydrostatic Pressure	2118	PSI
Temperature	121	°F
Pressure Change Initial	15.5	%
Close / Final Close		

Recovery at a glance



GIP cubic foot volume: 0



Operation: Uploading recovery & pressures

State: Kansas Drilling Contractor: Duke Drilling

SEC: 10 TWN: 17S RNG: 32W

County: SCOTT

Company, Inc - Rig 4 Elevation: 2988 GL Field Name: Wildcat Pool: WILDCAT Job Number: 338

<u>DATE</u> April 29 2019

DST #2 Formation: Test Interval: 4355 -Total Depth: 4450' Marmaton 4450'

Time On: 07:32 04/29 Time Off: 16:38 04/29

Time On Bottom: 10:17 04/29 Time Off Bottom: 13:52 04/29

BUCKET MEASUREMENT:

1st Open: 1/4" blow building to 2"

1st Close: No BB

2nd Open: Surface blow building to BOB 54 min.

2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas .1% Oil 4.9% Water 95% Mud

Ph: 9.0

Measured RW: .34 @ 70 degrees °F

RW at Formation Temp: 0.204 @ 121 °F

Chlorides: 13,000 ppm



Company: Mull Drilling
Company, Inc

Operation:
Uploading recovery & pressures

Lease: Schmitt #1-10

SEC: 10 TWN: 17S RNG: 32W

County: SCOTT State: Kansas

Drilling Contractor: Duke Drilling

Company, Inc - Rig 4 Elevation: 2988 GL Field Name: Wildcat Pool: WILDCAT Job Number: 338

DATEApril **29**2019

DST #2 Formation: Test Interval: 4355 - Total Depth: 4450'

Marmaton 4450'

Time On: 07:32 04/29 Time Off: 16:38 04/29

Time On Bottom: 10:17 04/29 Time Off Bottom: 13:52 04/29

Down Hole Makeup

Heads Up: 21.23 FT **Packer 1:** 4349.71 FT

Drill Pipe: 4343.37 FT **Packer 2:** 4354.71 FT

ID-3 1/2 Top Recorder: 4339.13 FT

Weight Pipe: 0 FT

Bottom Recorder: 4423 FT

ID-2 7/8

Collars: 0 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: 95.29

Anchor Makeup
Packer Sub: 1 FT

Perforations: (top): 3 FT

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 61.29 FT

ID-3 1/2

Change Over: 1 FT

Perforations: (below): 28 FT

4 1/2-FH



Operation: Uploading recovery & pressures

Elevation: 2988 GL Field Name: Wildcat Pool: WILDCAT

County: SCOTT State: Kansas

Job Number: 338

Company, Inc - Rig 4

SEC: 10 TWN: 17S RNG: 32W

Drilling Contractor: Duke Drilling

DATE April 29 2019

Total Depth: 4450' DST #2 Formation: Test Interval: 4355 -

Marmaton 4450'

Time On: 07:32 04/29 Time Off: 16:38 04/29

Time On Bottom: 10:17 04/29 Time Off Bottom: 13:52 04/29

Mud Properties

Viscosity: 51 Chlorides: 3,500 ppm Mud Type: Chemical Weight: 9.3 Filtrate: 8.0



Operation:

Uploading recovery &

pressures

Company: Mull Drilling Company, Inc

Lease: Schmitt #1-10

SEC: 10 TWN: 17S RNG: 32W

County: SCOTT State: Kansas

Drilling Contractor: Duke Drilling

Company, Inc - Rig 4 Elevation: 2988 GL Field Name: Wildcat Pool: WILDCAT Job Number: 338

DATE April 29 2019

DST #2 Total Depth: 4450' Formation: Test Interval: 4355 -

Marmaton 4450'

Time On: 07:32 04/29 Time Off: 16:38 04/29

Time On Bottom: 10:17 04/29 Time Off Bottom: 13:52 04/29

Gas Volume Report

1st Open					
Time	Orifice	PSI	MCF/D	Time	

2nd Open				
Time	Orifice	PSI	MCF/D	



Company: Mull Drilling Company, Inc

Operation: Uploading recovery & pressures

Lease: Schmitt #1-10

SEC: 10 TWN: 17S RNG: 32W

County: SCOTT State: Kansas

Drilling Contractor: Duke Drilling

Company, Inc - Rig 4 Elevation: 2988 GL Field Name: Wildcat Pool: WILDCAT Job Number: 338

DATE April 30 2019

DST #3 Formation: Altamont "C"-Myric Station

Test Interval: 4440 -Total Depth: 4530'

4530'

Time On: 06:49 04/30 Time Off: 13:02 04/30

Time On Bottom: 09:30 04/30 Time Off Bottom: 11:05 04/30

Electronic Volume Estimate:

18'

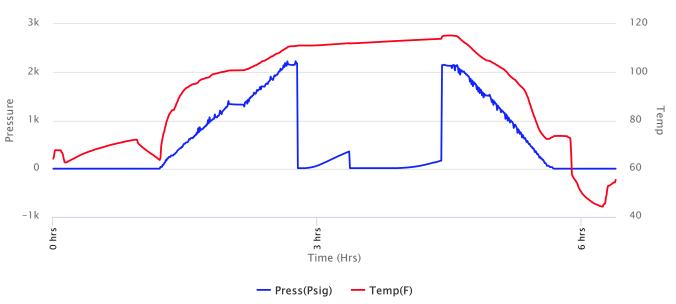
1st Open Minutes: 5 **Current Reading:** .8" at 5 min Max Reading: .8"

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: .7"

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

Inside Recorder





SEC: 10 TWN: 17S RNG: 32W

County: SCOTT State: Kansas

Drilling Contractor: Duke Drilling

Company, Inc - Rig 4 Elevation: 2988 GL Field Name: Wildcat Pool: WILDCAT Job Number: 338



DATE

April

30

2019

DST #3 Formation: Altamont "C"-Myric Station

Test Interval: 4440 -4530'

Total Depth: 4530'

Time On: 06:49 04/30

Time Off: 13:02 04/30

Time On Bottom: 09:30 04/30 Time Off Bottom: 11:05 04/30

Recovered

BBLS Foot 5 0.07115 **Description of Fluid** Μ

Gas % 0

<u>Oil %</u> 0

Water % 0

Mud % 100

Total Recovered: 5 ft

Total Barrels Recovered: 0.07115

Reversed Out

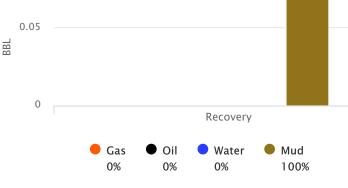
NO

Initial Hydrostatic Pressure	2153	PSI
Initial Flow	11 to 11	PSI
Initial Closed in Pressure	357	PSI
Final Flow Pressure	11 to 12	PSI
Final Closed in Pressure	168	PSI
Final Hydrostatic Pressure	2148	PSI
Temperature	114	°F
Pressure Change Initial	53.0	%

Close / Final Close

GIP cubic foot volume: 0

Recovery at a glance





Company: Mull Drilling Lease: Schmitt #1-10

Company, Inc

Company, Inc - Rig 4 Elevation: 2988 GL Field Name: Wildcat Pool: WILDCAT Job Number: 338

County: SCOTT State: Kansas

SEC: 10 TWN: 17S RNG: 32W

Drilling Contractor: Duke Drilling

Operation: Uploading recovery & pressures

> <u>DATE</u> April 30 2019

DST #3 Formation: Altamont Test Interval: 4440 -Total Depth: 4530' "C"-Myric Station 4530'

Time On: 06:49 04/30 Time Off: 13:02 04/30

Time On Bottom: 09:30 04/30 Time Off Bottom: 11:05 04/30

BUCKET MEASUREMENT:

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

1st Close: No BB

2nd Open: Weak surface blow lasting 25-30 min.

2nd Close: No BB

REMARKS:

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



SEC: 10 TWN: 17S RNG: 32W

County: SCOTT State: Kansas

Drilling Contractor: Duke Drilling

Company, Inc - Rig 4 Elevation: 2988 GL Field Name: Wildcat Pool: WILDCAT Job Number: 338

Operation:
Uploading recovery & pressures

DATE
April
30
2019

DST #3 Formation: Altamont Test Interval: 4440 - Total Depth: 4530' "C"-Myric Station 4530'

Time On: 06:49 04/30 Time Off: 13:02 04/30

Time On Bottom: 09:30 04/30 Time Off Bottom: 11:05 04/30

Down Hole Makeup

Heads Up: 29.62 FT **Packer 1:** 4434.71 FT

Drill Pipe: 4436.76 FT **Packer 2:** 4439.71 FT

ID-3 1/2 Top Recorder: 4424.13 FT

Weight Pipe: 0 FT

Bottom Recorder: 4508 FT

ID-2 7/8

Collars: 0 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: 90.29

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 FT

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 61.29 FT

ID-3 1/2

Change Over: 1 FT

Perforations: (below): 23 FT

4 1/2-FH



Operation: Uploading recovery &

pressures

Drilling Contractor: Duke Drilling Company, Inc - Rig 4 Elevation: 2988 GL Field Name: Wildcat Pool: WILDCAT

County: SCOTT State: Kansas

SEC: 10 TWN: 17S RNG: 32W

Job Number: 338

DATE April 30 2019

DST #3 Formation: Altamont Test Interval: 4440 -Total Depth: 4530' "C"-Myric Station 4530'

Time On: 06:49 04/30 Time Off: 13:02 04/30

Time On Bottom: 09:30 04/30 Time Off Bottom: 11:05 04/30

Mud Properties

Mud Type: Chemical Weight: 9.4 Viscosity: 54 Filtrate: 8.8 Chlorides: 4,400 ppm



Operation:
Uploading recovery & pressures

County: SCOTT State: Kansas Drilling Contractor: Duke Drilling

SEC: 10 TWN: 17S RNG: 32W

Company, Inc - Rig 4

Company, Inc - Rig 4 Elevation: 2988 GL Field Name: Wildcat Pool: WILDCAT Job Number: 338

DATEApril **30**2019

DST #3 Formation: Altamont Test Interval: 4440 -

terval: 4440 - Total Depth: 4530' 4530'

"C"-Myric Station 4530

Time On: 06:49 04/30 Time Off: 13:02 04/30

Time On Bottom: 09:30 04/30 Time Off Bottom: 11:05 04/30

Gas Volume Report

1st Open				
Time Orifice PSI MCF/D				

2nd Open				
Time	Orifice	PSI	MCF/D	



pressures

Company: Mull Drilling Company, Inc Lease: Schmitt #1-10

Operation:
Uploading recovery &

SEC: 10 TWN: 17S RNG: 32W

County: SCOTT State: Kansas

Drilling Contractor: Duke Drilling

Company, Inc - Rig 4 Elevation: 2988 GL Field Name: Wildcat Pool: WILDCAT Job Number: 338

DATEMay **01**2019

DST #4 Formation: Johnson Test Interval: 4545 - Total Depth: 4645'

Time On: 07:47 05/01 Time Off: 13:49 05/01

Time On Bottom: 10:17 05/01 Time Off Bottom: 11:52 05/01

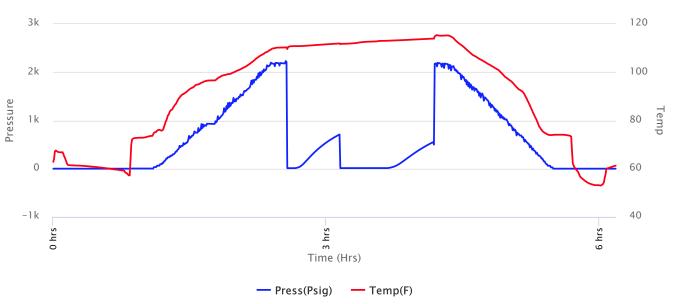
Electronic Volume Estimate:

19'

1st Open Minutes: 5 Current Reading: 1.0" at 5 min Max Reading: 1.0" 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: .5" 2nd Close Minutes: 30 Current Reading: 0" at 30 min Max Reading: 0"

Inside Recorder





Company: Mull Drilling

Company, Inc

Lease: Schmitt #1-10

SEC: 10 TWN: 17S RNG: 32W

County: SCOTT State: Kansas

Drilling Contractor: Duke Drilling

Company, Inc - Rig 4 Elevation: 2988 GL Field Name: Wildcat Pool: WILDCAT Job Number: 338

Operation: Uploading recovery & pressures

> **DATE** May 01 2019

Total Depth: 4645' DST #4 Formation: Johnson Test Interval: 4545 -

4645'

Time On: 07:47 05/01 Time Off: 13:49 05/01

Time On Bottom: 10:17 05/01 Time Off Bottom: 11:52 05/01

Recovered

Mud % **BBLS Description of Fluid** Gas % <u>Oil %</u> Water % **Foot** 5 0.07115 0 100 Μ 0 0

Total Recovered: 5 ft

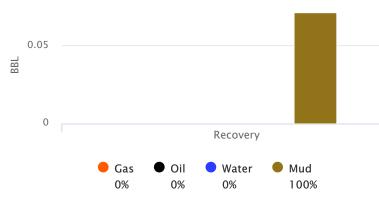
Total Barrels Recovered: 0.07115

Close / Final Close

Reversed Out

Initial Hydrostatic Pressure	2181	PSI
Initial Flow	11 to 12	PSI
Initial Closed in Pressure	709	PSI
Final Flow Pressure	11 to 13	PSI
Final Closed in Pressure	551	PSI
Final Hydrostatic Pressure	2181	PSI
Temperature	114	°F
Pressure Change Initial	22.4	%

GIP cubic foot volume: 0



Recovery at a glance



Operation: Uploading recovery & pressures

Drilling Contractor: Duke Drilling Company, Inc - Rig 4

SEC: 10 TWN: 17S RNG: 32W

Elevation: 2988 GL

Field Name: Wildcat Pool: WILDCAT Job Number: 338

County: SCOTT State: Kansas

DATE May 01 2019

Total Depth: 4645' DST #4 Formation: Johnson Test Interval: 4545 -

4645'

Time On: 07:47 05/01 Time Off: 13:49 05/01

Time On Bottom: 10:17 05/01 Time Off Bottom: 11:52 05/01

BUCKET MEASUREMENT:

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

1st Close: No BB

2nd Open: Weak surface blow lasting 23 min.

2nd Close: No BB

REMARKS:

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



Operation: Uploading recovery & pressures

Drilling Contractor: Duke Drilling Company, Inc - Rig 4 Elevation: 2988 GL Field Name: Wildcat Pool: WILDCAT

County: SCOTT State: Kansas

SEC: 10 TWN: 17S RNG: 32W

Job Number: 338

4529.13 FT

DATE May 01 2019

DST #4 Formation: Johnson Test Interval: 4545 -Total Depth: 4645'

4645'

Time On: 07:47 05/01 Time Off: 13:49 05/01

Time On Bottom: 10:17 05/01 Time Off Bottom: 11:52 05/01

Down Hole Makeup

Heads Up: 18.51 FT Packer 1: 4539.71 FT

Drill Pipe: 4530.65 FT Packer 2: 4544.71 FT

ID-3 1/2 Top Recorder:

Weight Pipe: 0 FT

Bottom Recorder: 4613 FT ID-2 7/8

Well Bore Size: 7 7/8 Collars: 0 FT

Surface Choke: 1" ID-2 1/4

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

ID-3 1/2-FH

Jars Safety Joint

Total Anchor: 100.29

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 FT

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 61.29 FT

ID-3 1/2

Change Over: 1 FT

Perforations: (below): 33 FT

4 1/2-FH



Operation:

Uploading recovery &

pressures

Company: Mull Drilling Company, Inc

Lease: Schmitt #1-10

SEC: 10 TWN: 17S RNG: 32W

County: SCOTT State: Kansas

Drilling Contractor: Duke Drilling

Company, Inc - Rig 4 Elevation: 2988 GL Field Name: Wildcat Pool: WILDCAT Job Number: 338

DATE May 01 2019

DST #4 Total Depth: 4645' Formation: Johnson Test Interval: 4545 -

4645'

Time On: 07:47 05/01 Time Off: 13:49 05/01

Time On Bottom: 10:17 05/01 Time Off Bottom: 11:52 05/01

Mud Properties

Viscosity: 60 Chlorides: 2,300 ppm Mud Type: Chemical Weight: 9.25 Filtrate: 7.2



Operation: Uploading recovery & pressures

County: SCOTT State: Kansas Drilling Contractor: Duke Drilling

SEC: 10 TWN: 17S RNG: 32W

Company, Inc - Rig 4 Elevation: 2988 GL Field Name: Wildcat Pool: WILDCAT Job Number: 338

DATE May 01 2019

DST #4 Total Depth: 4645' Formation: Johnson Test Interval: 4545 -

4645'

Time On: 07:47 05/01 Time Off: 13:49 05/01

Time On Bottom: 10:17 05/01 Time Off Bottom: 11:52 05/01

Gas Volume Report

1st Open				
Time	Orifice	PSI	MCF/D	Tim

2nd Open					
Time Orifice PSI MCF/D					

KEVIN L. KESSLER CONSULTING PETROLEUM GEOLOGIST (316) 522 - 7338 **ELEVATION OPERATOR:** MULL DRILLING CO. INC. LEASE: SCHMITT **KB**: 2997' **WELL #:** 1 - 10 **LOCATION**: 602' FNL & 2151' FWL **GL**: 2988' **SEC**: 10 **TWP**: 17S **RGE**: 32W MEASURMENTS FROM: COUNTY: SCOTT **STATE:** KANSAS KB CONTRACTOR: DUKE DRILLING RIG # 4 CASING RECORD: SURFACE: COMM: 04 - 22 - 2019 COMP: 05 - 02 - 2019 8 5/8" @ 231' LTD: 4740 RTD: 4740 PRODUCTION: GEOLOGICAL SUPERVISION FROM: 3900 TO: RTD NONE SAMPLES SAVED FROM: 3900 TO: RTD SAMPLE TOP DATUM TOP LOG DATUM COMP. FORMATION: **ELECTRICAL SURVEYS:** DIL 3948 HEEBNER 3948 - 951 - 951 - 06 CNL/CDL 3990 - 993 3990 LANSING - 993 + 01 **MICRO** STARK 4276 - 01 - 1279 4276 - 1279 SONIC BASE/KC - 1373 4370 - 03 4370 - 1373 - 1566 CHEROKEE 4563 - 08 - 1566 4563 4678 MISSISSIPPI - 1681 4678 - 1681 - 19 REFERENCE WELL FOR STRUCTURAL COMPARISON: MULL DRLG # 1-11 SCMITT COUNTY 11-17S-32W SCOTT CO KS 3900 -LST: CRM - GRAY FXTAL SUBCHKY -DNSE SLI FOSS. MINOR OOLITES PR VIS. INTRPART, POR, NSO LST: A. A. NO VIS. POR. NSO LST: CRM - GRAY FXTAL SOFT CHKY OOLITIV W/ RARE FOSS. FR INTPRT. POR. CHALK FILLED NSO IEEBNER 3948 (951) 3950 -SHALE: BLACK CARB. W/ FR AMT GRAY MUD CHECK @ 3950 MOTTLED DNSE LST. NO VIS. POR. NSO SHALE: GRAY SILTY NO VIS. POR. NSO LST: WHT - CRM FXTAL SUBCHKY -DNSE SLI FOSS, CHERTY IN PART W/ LITE GRAY SHARP FRESH CHERT NO VIS. POR. NSO LST: A. A. NO VIS. POR NSO ANSING 3990 (993) SHALE: GRAY - GREEN CALC, W/ MINOR SOFT WHT LST. NO VIS. POR. NSO LST: WHT. - CRM - GRAY FXTAL 4000 SUBCHKY - MOST DISE BRITTLE OOLITIC IN PART SLI FOSS, PR - FR INTRPRT. POR. NSO LST: A. A. OOLITIC IN PART PR INTRPRT. POR. NSO LST: CRM - GRAY - WHT FXTAL DNSE HARD SLI FOSS. NO VIS. POR. NSO LST: DNSE A. A. W/ MINOR DARK GRAY -BLACK CARB. SHALE NO VIS. POR. NSO SHALE: GRAY - GREEN CALC. IN PART SILTY NO VIS. POR. NSO LST: CRM - GRAY - WHT. FXTAL SLI 4050 MUD CHECK @ 40 FOSS. HARD BRITTLE MICRITIC IN PART NO VIS. POR. NSO W/T LST: CRM - GRAY FXTAL DNSE BLOCKY RARE FOSS. NO VIS. POR. NSO LST: A. A. MOST DNSE W/ MINOR GRAY SHALE NO VIS. POR. NSO LST: WHT - CRM - GRAY FXTAL DNSE BLOCKY SLI FOSS. NO VIS. POR. NSO SHALE: DRK GRAY - BLACK CARB. W/ MINOR DNSE MICRITIC LST. NO VIS. POR. NSO LST: WHT - CRM - GRAY FXTAL 4100 SUBCHKY - DNSE FOSS. IN PART NO VIS. POR. NSO LST: A. A. DNSE HARD BLOCKY NO VIS. POR. NSO SHALE: GRAY SILTY NO VIS. POR. NSO LST: WHT - CRM - GRAY FXTAL SUBCHKY - DNSE FOSS. IN PART RARE OOLITES PR INTRPRT. POR. NSO LST: A. A. W/ MINOR DRK GRAY CALC. SHALE NO VIS. POR. NSO LST: WHT - CRM HARD DNSE BLOCKY 4150 -CHECK @ 4 NO VIS. POR. NSO MLÉD V//T LST: A. A. SLI FOSS. BLOCKY NO VIS. POR. NSO LST: CRM - GRAY FXTAL SUBCHKY -DNSE FOSS. IN PART MINOR GRAY SHALE NO VIS. POR. NSO LST: CRM - GRAY FXTAL SUBCHKY -DNSE FOSS, IN PART NO VIS. POR. NSO LST: A. A. MOST DNSE MINOR SHALE NO VIS. POR. NSO LST: DNSE MOTTLED W/ FR AMT BLACK 4200 -DST # 1 (4210 - 4340) CARB. FISSILE SHALE NO VIS. POR. NSO 310' NI SSO REC JEP: 1 LST: CRM - GRAY FXTAL SUBCHKY -DNSE FOSS, W/ FR INTRPRT FOSS, POR. I\$IP: 1071# NSO 1037# FSIP: LST: A. A. BECOME DNSE HARD BLOCKY SLI FOSS. NO VIS. POR. NSO LST: A. A. NO VIS. POR. NSO LST: CRM - TAN FXTAL DNSE MOTTLED RARE FOSS FR AMT BLACK CARB. SHALE NO VIS. POR. NSO LST: WHT - CRM - GRAY FXTAL 4250 SUBCHKY - DNSE FOSS. IN PART RARE MLID CHECK @ 41 50 OOLITE NO VIS. POR. NSO <u>VIS</u> W/T LST: A. A. DNSE HARD BLOCKY NO VIS. POR. NSO SHALE: GRAY NO VIS. POR. NSO S TARK 4276 # LST: CRM - GRAY FXTAL MOST DNSE BRITTLE VERY HARD OOLICASTC W/ GOOD OOLICASTIC POR. NSO LST: CRM - GRAY FXTAL HARD BRITTLE A. A. W/ EXCELLENT OOLICASTIC POR. NSO 0 SHALE: DRK - GRAY - BLACK CARB. 4300 FISSILE IN PART NO VIS. POR. NSO LST: CRM - GRAY FXTAL MOST DISE SLI FOSS. MINOR OOLITES PR INTRPRT. POR. NSO LST: A. A. NO VIS. POR. NSO LST: CRM - GRAY FXTAL SUBCHKY -DNSE FOSS IN PRT SLI - FRSFO GD ODOR SCATT MED BRN SPTY - SUBSAT STN PR - FR INTRPRT POR. LST: CRM - GRAY - WHT FXTAL DNSE BLOCKY FOSS. IN PART NO VIS. POR. NSO LST: A. A. DNSE BLOCKY NO VIS. POR. 4350 MLÉD CHECK#43 NSO W/T SHALE: BLACK CARB. FISSILE NO VIS. POR. NSO ASE/ KC 4370(- 1373) SHALE: GRAY CALC, W/MINOR DNSE MOTTLED REGRESSIVE LST. NO VIS. POR. NSO LST: CRM - GRAY - WHT FXTAL SUBCHKY - MOSTLY DNSE SLIFOSS. NO 2 (4355 4450) VIS. POR. NSO 15' SWCM REC JEP: 1 LST: A. A. NO VIS. POR. NSO TSIP FFR: 2 3 110# FSIP SHALE: GRAY - DRK GRAY - BLACK W/ 4400 Ś DNSE LST. NO VIS. POR. NSO # LST: CRM - TAN FXTAL DNSE BLOCKY MICRITIC IN PART NO VIS. POR. NSO LST: CRM - TAN FXTAL BRITTLE VRY FOSS & OOLITIC WELL CMTD VSSFO YELLOW FLUOR SCATT LT BRN SPTY -SUB SAT STN PR INTRPRT. POR. A. A. NO VIS. POR. NSO LST: CRM - TAN - GRAY FXTAL MOST DNSE FOSS. IN PART NO VIS. POR. NSO SHALE: RED - BRN ARGILACEOUS SILTY 4450 -MUD CHECK @ 44 SANDY IN PART NO VIS. POR. NSO 50 LST: WHT - CRM FXTAL MOST DNSE SLI DST # 3 (4440 - 4530) FOSS FSFO MED BRN SAT STN PR - FR INTRPRT. POR. FR ODOR MUD IFP: 1 - 11# LST: GRAY DNSE RARE FOSS. NO VIS. POR, NSO FFR: 10 - 12# 168# FSIP LST: CRM - GRAY FXTAL DNSE BLOCKY VERY HARD NO VIS. POR. NSO ū # LST: A. A. DNSE VERY HARD RARE FOSS, NO VIS, POR, NSO LST: CRM - GRAY DNSE HARD NO VIS. 4500 -POR. NSO SHALE: BRN EARTHY NO VIS. POR. NSO LST: CRM - GRAY - TAN - BRN FXTAL MOST DNSE HARD MASSIVE RARE FOSS, NO VIS. POR, COUPLE PIECES WITH SPTY DARK BRN STN TRC SFO L/STY: AN ALONDOWIS. POR. NSO SHALE: BLACK NO VIS. POR. NSO LST: CRM - GRAY FXTAL DNSE HARD SLI FOSS. NOVIS. POR. NSO 4550 MUD CHECK @ 4550' LST: A. A. NO VIS. POR. NSO ١٨л 4 HERUKEE 563 (- 1566 SHALE: BLACK CARB, W/ MOTTLED DNSE LST. NO VIS. POR. NSO LST: GRAY DNSE RARE FOSS, FSFO FNT ODOR FEW PCS W/ SUBSAT MED BRN STN. PR PINPOINT POR DST #4 (4545 4645) LST: A. A. W/ ABUND, BLACK CARB. <u>MU</u>D REC FISSILE SHALE NO VIS. POR. NSO IEP: 1 - 11# TSIP: 7 Ś IST: CRM - GRAY EXTAL MOST DISE FFP: 11 - 12# FLAGGY MICRITIC IN PART NO VIS. POR. **FSIP** NSO 4600 SHALE: BLACK CARB, NO VIS, POR, NSO LST: GRAY DNSE W/ BLACK CARB. SHALE NO VIS. POR. NSO SHALE: BLACK CARB, W/ DNSE GRAY LST. NO VIS. POR. NSO LST: GRAY DNSE MINOR FOSS, VRY SSEC ENT ODOR FEW PCS W/ MED BRN SPTY - SUBSATISTN PR VUGGY POR. LST: A. A. NO VIS POR. NSO 4650 -MUD CHECK @ 4650 LST: CRM - GRAY FXTAL DNSE SLI FOSS. М 4 NO VIS. POR. NSO FR AMT. DRK GRAY -BLK SHALE. SHALE: DRK GRAY SILTY. NSO MISSISSIPPI 4678 (1681) SAND: FN GRN WELL ROUNDED QTZ. TIGHT CLUSTERS NSFO NO ODOR NO FLUOR FR INTRGRAN. POR. LST: CRM - WHT FXTAL SUBCHKY -DNSE RARE FOSS. NO VIS. POR. NSO 4700 LST: WHT - CRM FXTAL SUBCHKY -MOSTLY DISE SNADY IN PART RARE FOSS NO VIS. POR. NSO LST: WHT - CRM FXTAL DNSE SLI FOSS NO VIS. POR. NSO LST: A. A. NO VIS. POR. NSO COMMENTS: DUE TO NEGATIVE TEST RESULTS THIS WELL WAS PLUGGED AND ABANDONED KEVIN L. KESSLER