KOLAR Document ID: 1447689

Confiden	tiality Re	equested:
Yes	No	

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION Form ACO-1 January 2018 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from Dorth / South Line of Section
City: State: Zip:+	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.xxxx) (e.gxxx.xxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR □ OG □ GSW	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to EOR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Liner Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #: Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
□ EOR Permit #:	Location of huid disposal if hadred offsite.
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. 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 III Approved by: Date:						

KOLAR Document ID: 1447689

Operator Name:	Lease Name: Well #:
Sec TwpS. R East 🗌 West	County:

Page Two

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

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

Drill Stem Tests Taken (Attach Additional Sheets)		<u> </u>	les 🗌 No				og Format	ion (Top), Dep	oth and Datum		Sample		
Samples Sent to			ev	Υ	/es No		N	lame	9		Тор		Datum
Cores Taken Electric Log Run Geologist Report / Mud Logs		Y	/es □ No /es □ No /es □ No										
List All E. Logs F	Run:												
				Rep	CASING ort all strings set	RECORE] Ne , inte		tion, etc.			
Purpose of St	trina		Hole		ze Casing		/eight		Setting	Туре о			Type and Percent
		Dri	lled	Se	et (In O.D.)	Lb	s. / Ft.		Depth	Cemen	t Use	d	Additives
							TING / S	501	EEZE RECORI	 >		I	
Purpose:		De	epth	Type	Type of Cement		# Sacks Used			Type and Percent Additives			
Perforate Top Bottom Protect Casing Plug Back TD		Bottom	Type of content										
Plug Off Z	one												
1. Did you perform	a bydraulic i	fracturi	na treatment	on this v	well?			1	Yes		lo, skip question	is 2 an	d 3)
 Does the volum 	-		-			nt exceed 3	50,000	gallo			lo, skip question		
3. Was the hydrau	lic fracturing	treatm	ent informati	on submi	itted to the chemi	cal disclos	ure regis	stry?	Yes	No (If N	lo, fill out Page	Three c	of the ACO-1)
Date of first Produ	iction/Injectio	on or Re	esumed Proc	luction/	Producing Me			_					
Injection:					Flowing	Pum	oing		Gas Lift	Other (Explain)			
Estimated Produce Per 24 Hours			Oil Bl	ols.	. Gas Mcf			Water Bbls.		Gas-Oil Ratio Gravity			
				1									
	OSITION OF	-					_	COMPLETION:		PRODUCTION INTERVAL: Top Bottom		N INTERVAL: Bottom	
Vented	Sold	-	on Lease		Open Hole	Perf.		Uually Comp. Commingled (Submit ACO-5) (Submit ACO-4)					
(IT Vente	ed, Submit AC	,0-18.)											
Shots Per Foot	Perforati Top	ion	Perforati Bottorr		Bridge Plug Type	Bridge I Set A	Bridge Plug Acid, Fracture, Shot, Cementing Sq Set At <i>(Amount and Kind of Material</i>			Record			

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Packer At:

TUBING RECORD:

Size:

Set At:

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	PHILLIPS 1-20
Doc ID	1447689

All Electric Logs Run

CDL/CNL/PE
MEL
DIL
SONIC

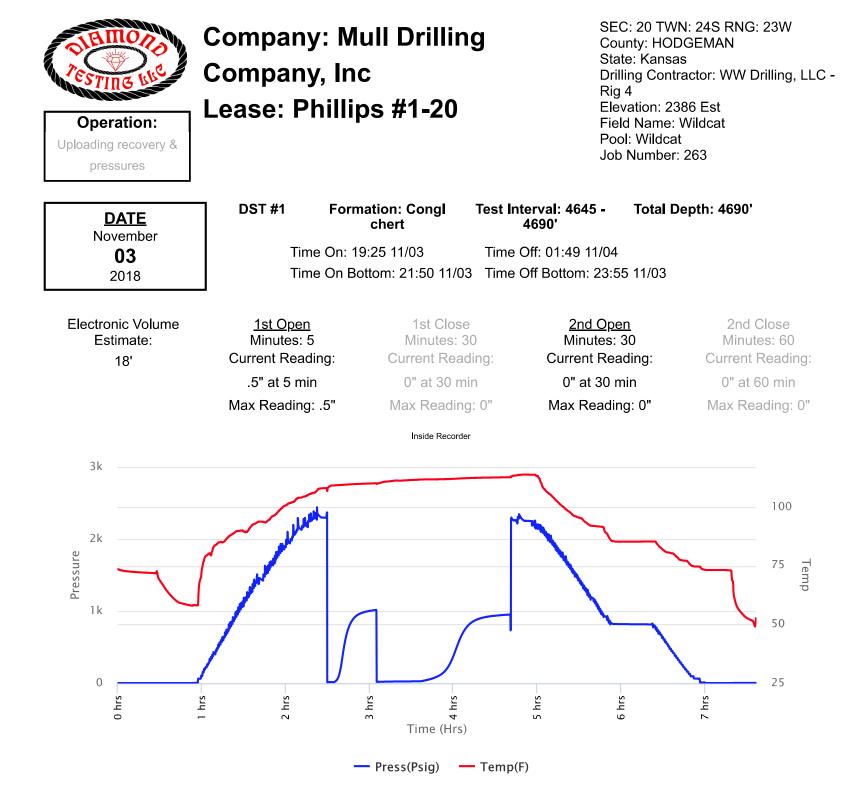
Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	PHILLIPS 1-20
Doc ID	1447689

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	218	Common	3% cc, 2% gel

GLOBAL OIL FIELD SERVICES, LLC0013243

REMIT TO	24 S. Linc Russell, K				SERVICE POINT:	Ru35411	KS
DATE /0-29-	14 SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE Phillps	WELL #.	1-20	LOCATION 9 - South	which Jaw	more to CRM	COUNTY Hodgenan	STATE
OLD OR NEW ((CIRCLE ONE)		and the second se	Contraction of the		110-3-46481	
	WW AN	11ins	R13 44	OWNER	Mull Br	illing	
HOLE SIZE /	2 / 4	1	D. 2/3	CEMENT	1 .	-	
CASING SIZE	854		DEPTH		ORDERED / 50	SX Com	3760
TUBING SIZE DRILL PIPE			DEPTH	2%	Come 1		
TOOL			DEPTH				
PRES. MAX			DEPTH				
MEAS, LINE			IINIMUM HOE JOINT		·	@	
CEMENT LEFT IN	CSG. 2.5	<u>ن</u>	HOE JOINT	POZMIX _		@	
PERFS		,		GEL		@	
DISPLACEMENT					E	@	
	EQUIPME	ENT		ASC		@	
						@	
PUMP TRUCK	CEMENTER	Colly	·			@	
<u>¥ 409</u>	HELPER	Pasad		**************************************		@	
BULK TRUCK						@ @	
+ 973	DRIVER	Cors_				@	
BULK TRUCK						@	
<u> </u>	DRIVER					@	
				HANDLIN	G	@	
				MILEAGE			
Run 5 45 to Rig 1	0-1 3 2 Broker 2	ARKS: Càs (m. u deu là f	1 jt Hooled		GED	TOTAL	
talimp + + taplace		ples 10	120 y Shut T	A/ DEDETLOO		VICE	
				- DEFINOR	JOB CK CHARGE		
		<u> </u>				@	
Come	n# (D.)	16-110	what to Sarta	MILEAGE		@	
)	@	
				1.000 (100 (100 (100 (100 (100 (100 (100		@	•
	Mall	Dut					
CHARGE TO:		121111	ng			-	
TREET						TOTAT	
			P			TOTAL	,
CITY	STATE	ZI				T EQUIPMENT	[
Global Oil Fie	Id Services,	z	IP			AT EQUIPMENT	[
Global Oil Fie	Id Services, requested to	LLC rent ceme	pting equipment and	· · · · · · · · · · · · · · · · · · ·		AT EQUIPMENT	[
Global Oil Fie You are hereby furnish cementer	Id Services, requested to and helper(s)	LLC rent ceme	nting equipment and		· · · · · · · · · · · · · · · · · · ·	AT EQUIPMENT @ @	ſ
Global Oil Fie You are hereby furnish cementer to work as is list	Id Services, requested to and helper(s) ted. The abov	LLC rent ceme to assist o ye work wa	nting equipment and wher or contractor to is done to satisfaction		· · · · · · · · · · · · · · · · · · ·	AT EQUIPMENT @ @ @ @	
Global Oil Fie You are hereby furnish cementer to work as is list and supervision	Id Services, requested to and helper(s) ted. The abov of owner ager	LLC rent ceme to assist o 'e work wa at or contra	nting equipment and wher or contractor to is done to satisfaction		· · · · · · · · · · · · · · · · · · ·	AT EQUIPMENT @ @ @ @	
Global Oil Fie You are hereby furnish cementer to work as is list and supervision of understand the	Id Services, requested to and helper(s) ted. The abov of owner ager "GENERAL	LLC rent ceme to assist o 'e work wa at or contra	nting equipment and wher or contractor to is done to satisfaction		· · · · · · · · · · · · · · · · · · ·	AT EQUIPMENT @ @ @ @	
Global Oil Fie You are hereby furnish cementer to work as is list and supervision of understand the	Id Services, requested to and helper(s) ted. The abov of owner ager "GENERAL	LLC rent ceme to assist o 'e work wa at or contra	nting equipment and wher or contractor to is done to satisfaction		· · · · · · · · · · · · · · · · · · ·	AT EQUIPMENT @ @ @ @ @ @	[
Global Oil Fie You are hereby furnish cementer to work as is list and supervision of inderstand the isted on the reve	Id Services, requested to and helper(s) ted. The abov of owner ager "GENERAL	LLC rent ceme to assist o 'e work wa at or contra	nting equipment and wher or contractor to is done to satisfaction			AT EQUIPMENT @ @ @ @ @ TOTAL	[
Global Oil Fie You are hereby furnish cementer to work as is list and supervision of inderstand the isted on the reve	Id Services, requested to and helper(s) ted. The abov of owner ager "GENERAL	LLC rent ceme to assist o 'e work wa at or contra	nting equipment and wher or contractor to is done to satisfaction	SALES TAX	([If Any)	AT EQUIPMENT @ @ @ @ @ TOTAL	
Global Oil Fie You are hereby furnish cementer to work as is list and supervision	Id Services, requested to and helper(s) ted. The abov of owner ager "GENERAL	LLC rent ceme to assist o 'e work wa at or contra	nting equipment and wher or contractor to is done to satisfaction	SALES TAX		AT EQUIPMENT @ @ @ @ @ TOTAL	





Operation:

Uploading recovery &

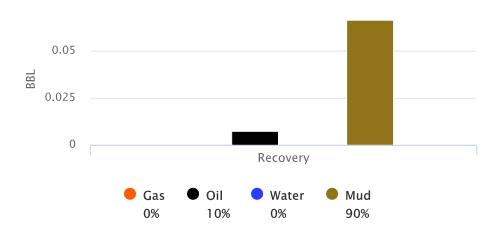
pressures

Company: Mull Drilling Company, Inc Lease: Phillips #1-20

SEC: 20 TWN: 24S RNG: 23W County: HODGEMAN State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 4 Elevation: 2386 Est Field Name: Wildcat Pool: Wildcat Job Number: 263

DATE November 03		DST #1 F	Test Interva 4690		Total Depth: 4690'		
		Time O	Time Off: (01:49 11/04			
2018		Time O	n Bottom: 21:50 11/0	3 Time Off B	ottom: 23:58	5 11/03	
Recov	<u>vered</u>						
<u>Foot</u>	BBLS	<u>Descripti</u>	on of Fluid	<u>Gas %</u>	<u>Oil %</u>	Water %	<u>Mud %</u>
15	0.0738	SLO	DCM	0	10	0	90
Total Recove Total Barrels		ed: 0.0738	Reversed Out NO		Recover	y at a glance	

Initial Hydrostatic Pressure	2296	PSI
Initial Flow	14 to 16	PSI
Initial Closed in Pressure	1017	PSI
Final Flow Pressure	19 to 26	PSI
Final Closed in Pressure	953	PSI
Final Hydrostatic Pressure	2269	PSI
Temperature	113	°F
Pressure Change Initial	6.3	%
Close / Final Close		





Operation:

Uploading recovery &

pressures

Company: Mull Drilling Company, Inc Lease: Phillips #1-20 SEC: 20 TWN: 24S RNG: 23W County: HODGEMAN State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 4 Elevation: 2386 Est Field Name: Wildcat Pool: Wildcat Job Number: 263

 DST #1
 Formation: Congl chert
 Test Interval: 4645 -4690'
 Total Depth: 4690'

 Time On: 19:25 11/03
 Time Off: 01:49 11/04
 Time Off: 01:49 11/04

 Time On Bottom: 21:50 11/03
 Time Off Bottom: 23:55 11/03

BUCKET MEASUREMENT:

REMARKS:

Tool Sample: 0% Gas 15% Oil 0% Water 85% Mud



SEC: 20 TWN: 24S RNG: 23W County: HODGEMAN State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 4 Elevation: 2386 Est Field Name: Wildcat Pool: Wildcat Job Number: 263

_

DST #1	Formation: Congl chert	Test Interval: 4645 - 4690'	Total Depth: 4690'
	Time On: 19:25 11/03	Time Off: 01:49 11/04	
	Time On Bottom: 21:50 11/03	Time Off Bottom: 23:55	11/03

Down Hole Makeup

Heads Up:	31.27 FT	Packer 1:	4640.07 FT
Drill Pipe:	4534.6 FT	Packer 2:	4645.07 FT
ID-3 1/2		Top Recorder:	4632.07 FT
Weight Pipe: ID-2 7/8	FT	Bottom Recorder:	4688 FT
		Well Bore Size:	7 7/8

Collars: ID-2 1/4	116.58 FT	Surface Choke: Bottom Choke:	1" 5/8"
Test Tool: ID-3 1/2-FH	26.16 FT		
Total Anchor:	44.93		
Anchor	<u>Makeup</u>		
Packer Sub:	1 FT		
Perforations: (top): 4 1/2-FH	7 FT		
Change Over:	1 FT		
Drill Pipe: (in anchor): ID-3 1/2	31.93 FT		
Change Over:	1 FT		
Perforations: (below): 4 1/2-FH	3 FT		



SEC: 20 TWN: 24S RNG: 23W County: HODGEMAN State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 4 Elevation: 2386 Est Field Name: Wildcat Pool: Wildcat Job Number: 263

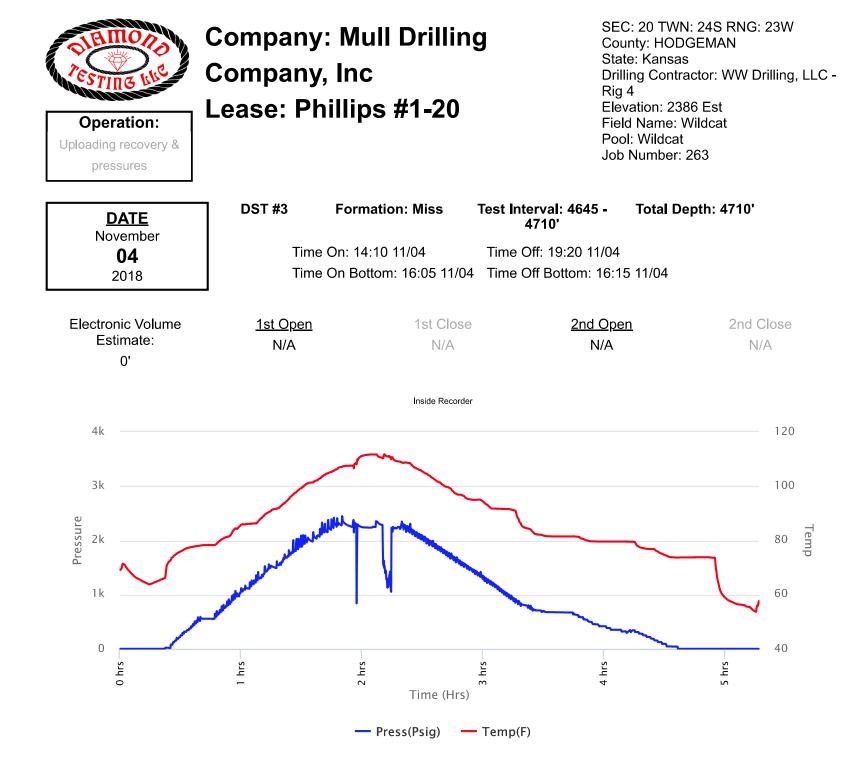
DATE November	DST #1	Formation: Congl chert	Test Interval: 4645 - 4690'	Total Depth: 4690'
03 2018		ne On: 19:25 11/03 ne On Bottom: 21:50 11/03	Time Off: 01:49 11/04 Time Off Bottom: 23:55	5 11/03
		Mud Proper	rties	

wuu rype. Chemical weight. 9.1 viscosity. 39 Finrate. 10.4 Chiondes. 6000 pp	Mud Type: Chemical	Weight: 9.1	Viscosity: 59	Filtrate: 10.4	Chlorides: 6800 ppm
------------------------------------------------------------------------------	--------------------	-------------	---------------	----------------	---------------------



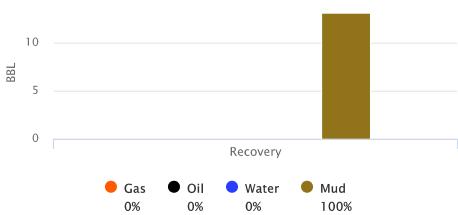
Gas Volume Report

1st Open				2nd Oj	oen		
Time	Orifice	PSI	MCF/D	Time	Orifice	PSI	MCF/D



Coperation: Uploading recovery & pressures	Company: Mu Company, Inc Lease: Phillips	_	Cour State Drillin Rig 4 Eleva Field Pool	•	N VW Drilling, LLC -
DATE November	DST #3 Forma		val: 4645 - 10'	Total Depth: 4	710'
04	Time On: 14:1	0 11/04 Time Off	: 19:20 11/04		
2018	Time On Botto	om: 16:05 11/04 Time Off	Bottom: 16:15	11/04	
<u>Recovered</u> <u>Foot</u> <u>BBLS</u> 100013.1446	<u> </u>	<u>-Iuid Gas %</u> 0	<u>Oil %</u> 0	<u>Water %</u> 0	<u>Mud %</u>
1000 13.1440	6402 M	0	0	0	100
Total Recovered: 10 Total Barrels Recov	Dev	ersed Out NO	Recovery	v at a glance	

Initial Hydrostatic Pressure	2260	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	2231	PSI	
Temperature	112	°F	
Pressure Change Initial Close / Final Close	0.0	%	





Operation:

Uploading recovery &

pressures

Company: Mull Drilling Company, Inc Lease: Phillips #1-20 SEC: 20 TWN: 24S RNG: 23W County: HODGEMAN State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 4 Elevation: 2386 Est Field Name: Wildcat Pool: Wildcat Job Number: 263

DATE
November
04
2018

BUCKET MEASUREMENT:

1st Open: Miss Run

REMARKS:

Miss Run

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

DST #3	Formation: Miss	Test Interval: 4645 - 4710'	Total Depth: 4710'
	Time On: 14:10 11/04	Time Off: 19:20 11/04	
	Time On Bottom: 16:05 11/04	Time Off Bottom: 16:15	11/04



SEC: 20 TWN: 24S RNG: 23W County: HODGEMAN State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 4 Elevation: 2386 Est Field Name: Wildcat Pool: Wildcat Job Number: 263

DST #3 Formation: Miss Test Interval: 4645 - Total Depth: 4710' 4710' Time On: 14:10 11/04 Time Off: 19:20 11/04 Time On Bottom: 16:05 11/04 Time Off Bottom: 16:15 11/04

Down Hole Makeup

Heads Up:	32 FT	Packer 1:	4639.53 FT
•	4534.79 FT	Packer 2:	4644.53 FT
ID-3 1/2		Top Recorder:	4631.53 FT
Weight Pipe: ID-2 7/8	FT	Bottom Recorder:	4693 FT
12 2 110		Well Bore Size:	7 7/8

Collars: ID-2 1/4	116.58 FT	Surface Choke: Bottom Choke:
Test Tool: ID-3 1/2-FH	26.16 FT	
Total Anchor:	65.47	
<u>Anchor</u> Packer Sub:	<u>Makeup</u> 1 FT	
Perforations: (top): 4 1/2-FH	13 FT	
Change Over:	1 FT	
Drill Pipe: (in anchor): ID-3 1/2	31.47 FT	
Change Over:	1 FT	
Perforations: (below): 4 1/2-FH	18 FT	



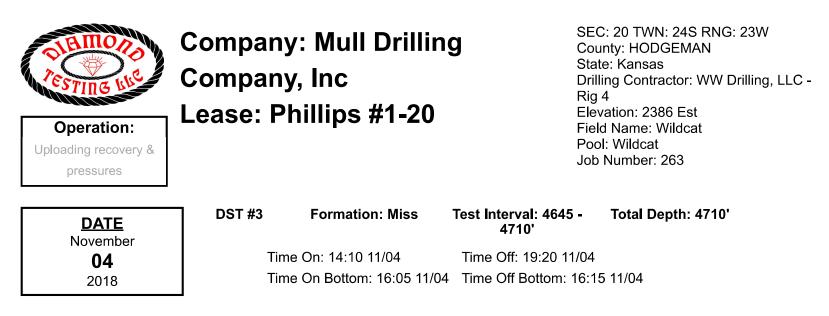
SEC: 20 TWN: 24S RNG: 23W County: HODGEMAN State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 4 Elevation: 2386 Est Field Name: Wildcat Pool: Wildcat Job Number: 263

1"

5/8"

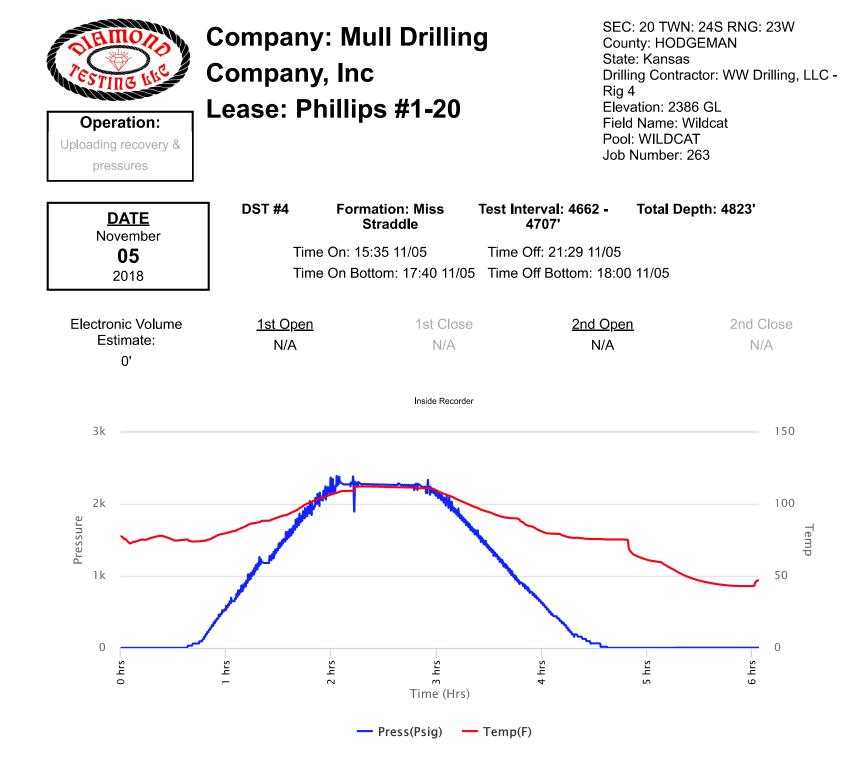
DATE November	DST #3	Formation: Miss	Test Interval: 4645 - 4710'	Total Depth: 4710'
04 2018		ie On: 14:10 11/04 ie On Bottom: 16:05 11/04	Time Off: 19:20 11/04 Time Off Bottom: 16:15	5 11/04
		Mud Prope	rties	

Mud Type: Chemical Weight: 9.2 Viscosity: 60 Filtrate: 10.4 Chiorides: 6800	Mud Type: Chemical	Weight: 9.2	Viscosity: 60	Filtrate: 10.4	Chlorides: 6800 ppm
-----------------------------------------------------------------------------	--------------------	-------------	---------------	----------------	---------------------



Gas Volume Report

1st Open					2nd Oj	oen		
Time	Orifice	PSI	MCF/D		Time	Orifice	PSI	MCF/D



	AMC	
re	TING	

Operation:

Uploading recovery &

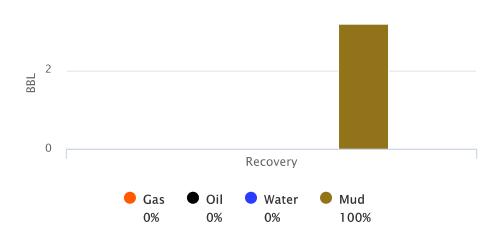
pressures

Company: Mull Drilling Company, Inc Lease: Phillips #1-20

SEC: 20 TWN: 24S RNG: 23W County: HODGEMAN State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 4 Elevation: 2386 GL Field Name: Wildcat Pool: WILDCAT Job Number: 263

DATE November		DST #4 Fo	ormation: Miss Straddle	Test Interva 4707		Total Depth: 48	823'
05 2018			: 15:35 11/05 Bottom: 17:40 11/0		21:29 11/05 ottom: 18:00	0 11/05	
Recover	ed						
<u>Foot</u> 300 3.	<u>BBLS</u> 1836402	<u>Descriptio</u> N		<u>Gas %</u> 0	<u>Oil %</u> 0	<u>Water %</u> 0	<u>Mud %</u> 100
Total Recovered: 300 ft Total Barrels Recovered: 3.1836402			Reversed Out NO		Recover	y at a glance	

Initial Hydrostatic Pressure	2272	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	2236	PSI
Temperature	112	°F
Pressure Change Initial Close / Final Close	0.0	%





Formation: Miss

Straddle

Time On: 15:35 11/05

SEC: 20 TWN: 24S RNG: 23W County: HODGEMAN State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 4 Elevation: 2386 GL Field Name: Wildcat Pool: WILDCAT Job Number: 263

Total Depth: 4823'

Test Interval: 4662 -

4707'

Time On Bottom: 17:40 11/05 Time Off Bottom: 18:00 11/05

Time Off: 21:29 11/05

DATE	
November	
05	
2018	

pressures

BUCKET MEASUREMENT:

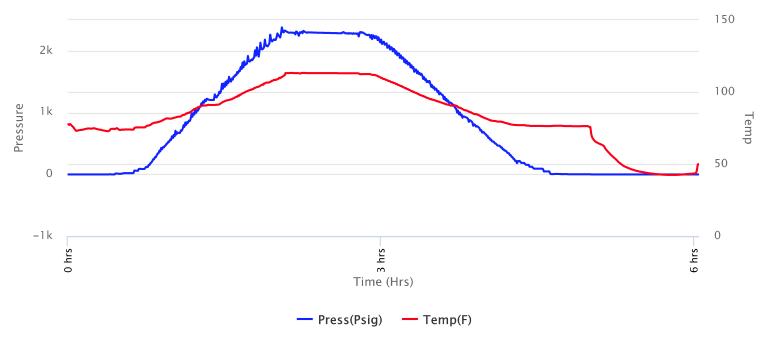
1st Open: Miss run

REMARKS:

Miss Run

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

Below Straddle Recorder



Operation: Uploading recovery &

DST #4



SEC: 20 TWN: 24S RNG: 23W County: HODGEMAN State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 4 Elevation: 2386 GL Field Name: Wildcat Pool: WILDCAT Job Number: 263

DST #4	Formation: Miss Straddle	Test Interval: 4662 - 4707'	Total Depth: 4823'
	Time On: 15:35 11/05	Time Off: 21:29 11/05	
	Time On Bottom: 17:40 11/05	Time Off Bottom: 18:00	11/05

Down Hole Makeup

Heads Up:	11.31 FT	Packer 1:	4657 FT
•	4531.07 FT	Packer 2:	4662 FT
ID-3 1/2		Packer 3:	4707 FT
Weight Pipe: ID-2 7/8	FT	Top Recorder:	4648.5 FT
		Bottom Recorder:	4708 FT

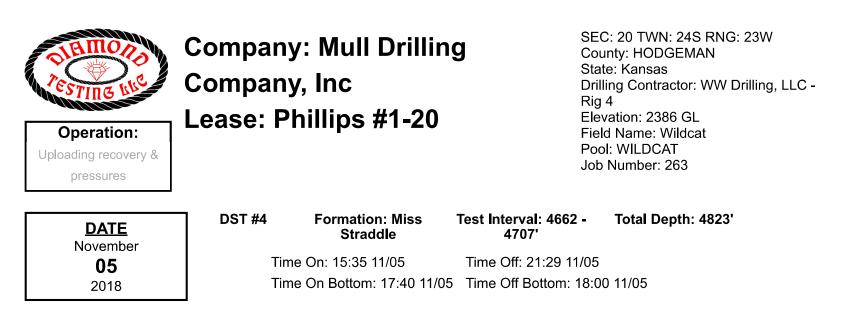
Collars: ID-2 1/4	116.58 FT	Below Straddle Recorder:	4811 FT
		Well Bore Size:	7 7/8
Test Tool: ID-3 1/2-FH	26.66 FT	Surface Choke:	1"
Total Anchor:	45	Bottom Choke:	5/8"
Anchor	<u>Makeup</u>		
Packer Sub:	1 FT		
Perforations: (top):	44 FT		
4 1/2-FH			
Change Over:	FT		
Drill Pipe: (in anchor):	FT		
ID-3 1/2			
Change Over:	FT		
Perforations: (below):	FT		
4 1/2-FH			
STRA	DDLE		
Straddle Packer(s):	1 FT		
Change Over:	1 FT		
Drill Pipe: ID-3 1/2"	96.10 FT		
Change Over:	1 FT		
Perforations (in tail pipe): 4 1/2-FH	13 FT		



SEC: 20 TWN: 24S RNG: 23W County: HODGEMAN State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 4 Elevation: 2386 GL Field Name: Wildcat Pool: WILDCAT Job Number: 263

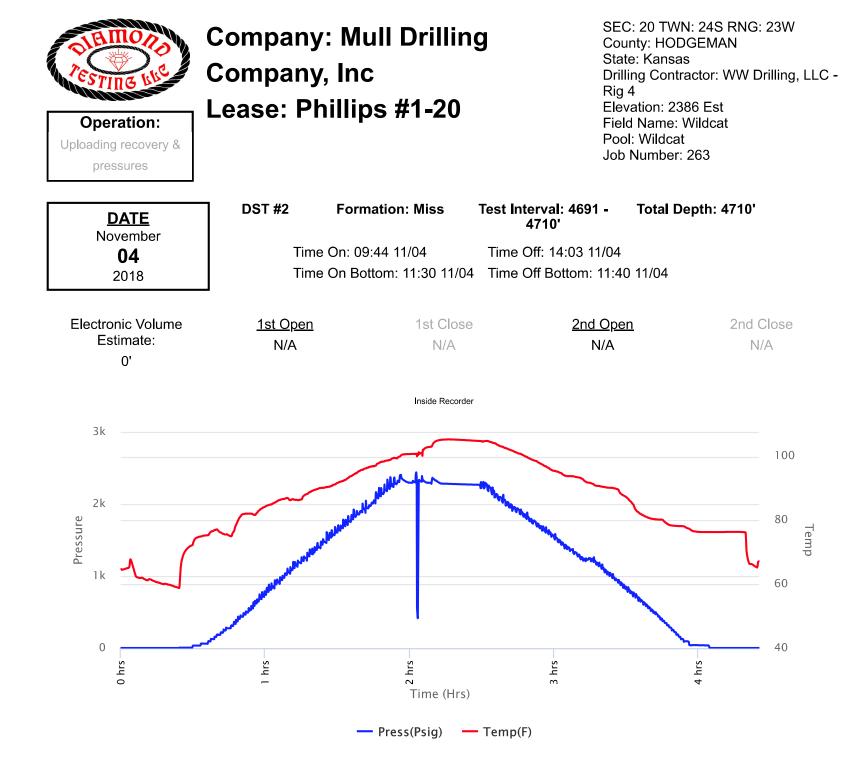
DATE November	DST #4	Formation: Miss Straddle	Test Interval: 4662 - 4707'	Total Depth: 4823'
05 2018		e On: 15:35 11/05 e On Bottom: 17:40 11/05	Time Off: 21:29 11/05 Time Off Bottom: 18:00	11/05
		Mud Prope	rties	

Mud Type: Chemical	Weight: 9.2	Viscosity: 61	Filtrate: 10.4	Chlorides: 6800 ppm
--------------------	-------------	---------------	----------------	---------------------



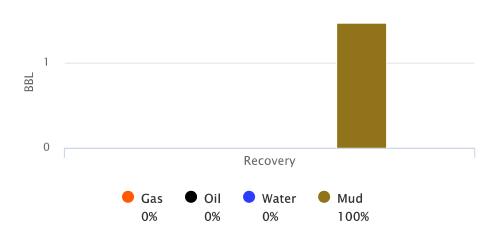
Gas Volume Report

1st Open				2nd Oj	oen			
Time	Orifice	PSI	MCF/D		Time	Orifice	PSI	MCF/D



Correction: Uploading recovery & pressures	Company	/: Mull Drilli /, Inc hillips #1-20	-	Coun State Drillin Rig 4 Eleva Field Pool:	•	N VW Drilling, LLC -
DATE November	DST #2	Formation: Miss	Test Interv 471		Total Depth: 4	710'
04	Tim	e On: 09:44 11/04	Time Off:	14:03 11/04		
2018	Tim	e On Bottom: 11:30 11/	04 Time Off E	Bottom: 11:40	11/04	
<u>Recovered</u> <u>Foot</u> <u>BBL</u> 1801.4760		<u>ription of Fluid</u> M	<u>Gas %</u> 0	<u>Oil %</u> 0	<u>Water %</u> 0	<u>Mud %</u> 100
Total Recovered: 1 Total Barrels Recov		02 Reversed Out NO		Recovery	at a glance	

Initial Hydrostatic Pressure	2297	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	2297	PSI
Temperature	102	°F
Pressure Change Initial Close / Final Close	0.0	%





Operation:

Uploading recovery &

pressures

Company: Mull Drilling Company, Inc Lease: Phillips #1-20 SEC: 20 TWN: 24S RNG: 23W County: HODGEMAN State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 4 Elevation: 2386 Est Field Name: Wildcat Pool: Wildcat Job Number: 263

DATE	
November	
04	
2018	

DST #2 Formation: Miss Test Interval: 4691 -4710' Total Depth: 4710' Time On: 09:44 11/04 Time Off: 14:03 11/04 Time Off: 14:03 11/04 Time On Bottom: 11:30 11/04 Time Off Bottom: 11:40 11/04

BUCKET MEASUREMENT:

1st Open: Miss run

REMARKS:

Miss run tried settings packers twice both unsuccessful

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



SEC: 20 TWN: 24S RNG: 23W County: HODGEMAN State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 4 Elevation: 2386 Est Field Name: Wildcat Pool: Wildcat Job Number: 263

DST #2	Formation: Miss	Test Interval: 4691 - 4710'	Total Depth: 4710'
	Time On: 09:44 11/04	Time Off: 14:03 11/04	
	Time On Bottom: 11:30 11/04	Time Off Bottom: 11:40	11/04

Down Hole Makeup

Heads Up:	17.83 FT	Packer 1:	4686 FT
•	4567.09 FT	Packer 2:	4691 FT
ID-3 1/2		Top Recorder:	4678 FT
Weight Pipe: ID-2 7/8	FT	Bottom Recorder:	4693 FT
// •		Well Bore Size:	7 7/8

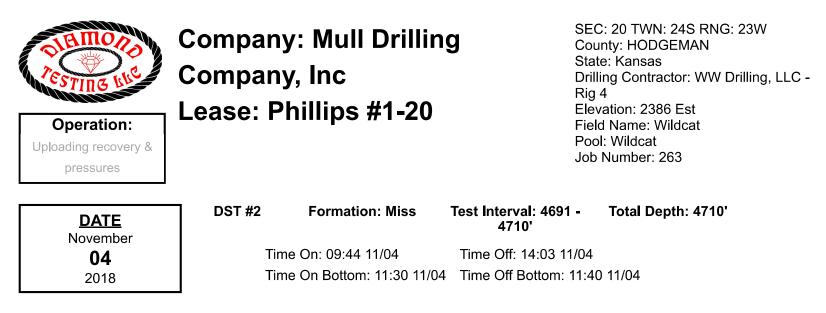
Collars: ID-2 1/4	116.58 FT	Surface Choke: Bottom Choke:	1" 5/8"
Test Tool : ID-3 1/2-FH	26.16 FT		0,0
Total Anchor:	19		
Anchor	Makeup		
Packer Sub:	1 FT		
Facker Sub.	111		
Perforations: (top): 4 1/2-FH	FT		
Change Over:	FT		
Drill Pipe: (in anchor): ID-3 1/2	FT		
Change Over:	FT		
Perforations: (below): 4 1/2-FH	18 FT		



SEC: 20 TWN: 24S RNG: 23W County: HODGEMAN State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 4 Elevation: 2386 Est Field Name: Wildcat Pool: Wildcat Job Number: 263

DATE November	DST #2	Formation: Miss	Test Interval: 4691 - 4710'	Total Depth: 4710'	
04 2018		e On: 09:44 11/04 e On Bottom: 11:30 11/04	Time Off: 14:03 11/04 Time Off Bottom: 11:40	11/04	
Mud Properties					

Mud Type: Chemical V	Neight: 9.3	Viscosity: 52	Filtrate: 10.4	Chlorides: 8600 ppm
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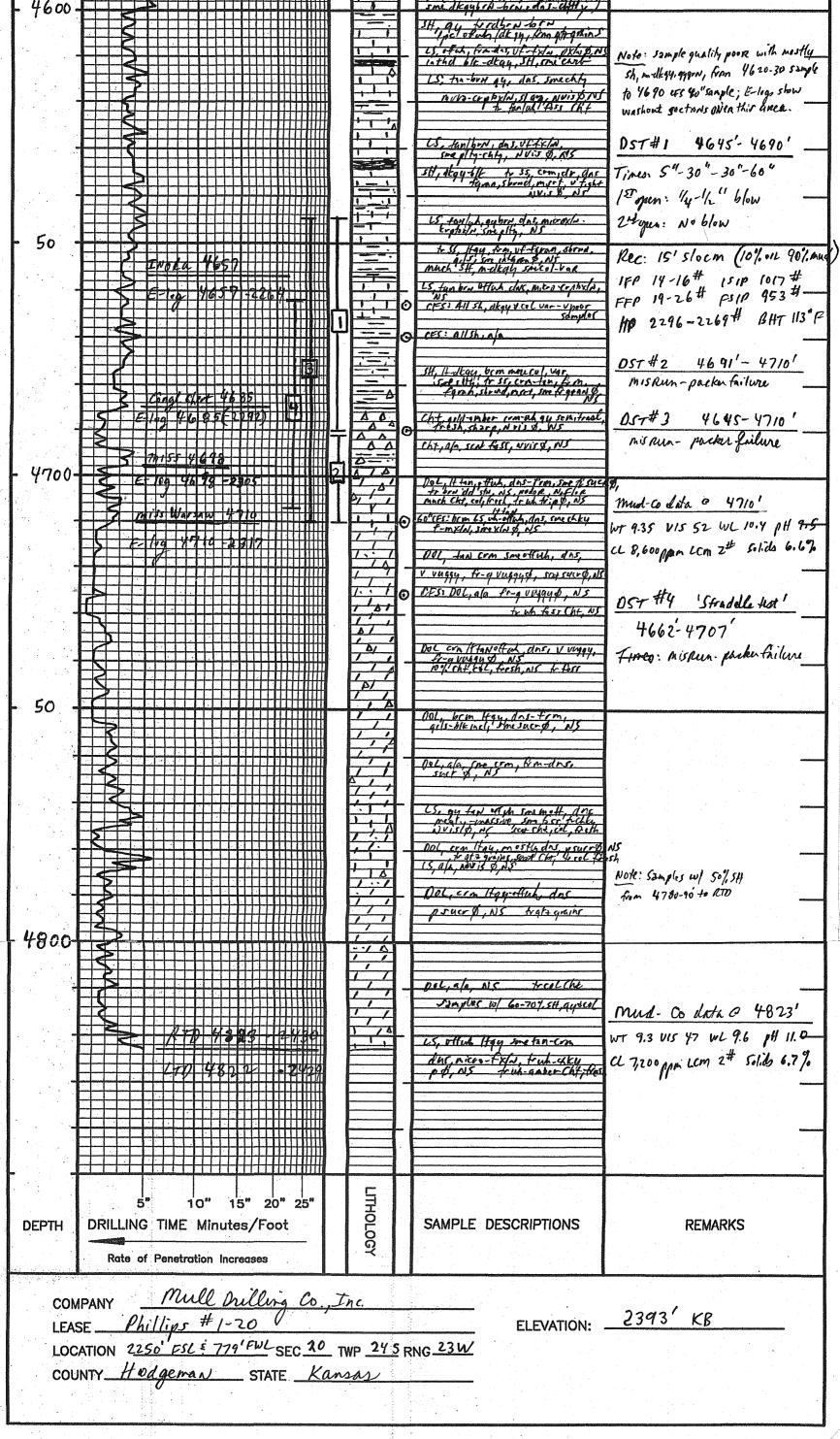
Gas Volume Report

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

FIELD SEC. RTD. SPUD LEASE SAMPLES EXAMINED FROM MUD COMPANY CONTRACTOR COUNTY Hedgeman LOCATION DRILLING TIME KEPT FROM 1400-1600 GEOLOGIST ON WELL GEOLOGICAL SUPERVISION FROM FORMATION TOPS LNO Kerokee Sha Hark Slee PVISUS awnee eebace nhydrite Ę 80 81-6201 4823 3460' 070 Wil. Mull GEOLOG I Phillips NJEN 2250' FSL deat TWSP WW DRilling DRILLING TIME COMP # PETROLEUM GEOLOGIST 9466 1530 6254 510h <u>LS91</u> 6528 4331 245 4698 4822 lig 5897 0121 TYPE 1-20 LTD STATE W, 6 201 44 779' FW Phil. -1553 1863 MUD Chemical. -2292 11-5 -2135 -2264 3900' S 1622 2186 1938 2429 2305 1217 Inc. RGE 4822' Kanan Alley 3800' -18 AND ASKEY N82 1 SAMPL ES 4016 3946 1533 <u>869h</u> 589h 4657 4529 S 182 7/0 SAMPLE LOG 3900 N.S Burg. REPORT -2 5 + 44 ζ 416 * 10 ۱ 4 Ŵ 5 60 AP I # From Measurements From KB ല 砳 SURFACE Б PRODUCT I ON. 5 0 Ŵ ELECTRICAL -per Ĥ .. KWB Old Sonic : DIL REFERENCE Mull Delling 2388 RTD RID **ELEVATIONS** RTD CASING 2393' CNYCOL; 15-083-21961 OIL 140 õ o'he nt ME SURVEYS Are Micro; -20 2/8 \diamond #3 8 \$ REMARKS 7505 The Mull Pailling Co. Phillips #1-20, had four target pay zous, Iwols, congle chert, Missiscoppi and Miss Warshw. The Inola and cong's Chertwere DST is with non-commercial results, The Miss Warshw did not contain samplishows and was determined and Evaluated as wet's on the DIL. The top section of the Missiscoppi did not brave a sample show. Three DSTs were altempted to cover the try of the Missiscoppi but all three had Missins-packer failures. After Forther discussion, it has decided to flag and abandon this Well. Phil askey, 29. LEGEND 0 ۵ 0 0 **Ool.Lime** Chert Dolomite Salt Shale Carb sh Limestone Anhydrite Sandstone 100' ,,, SCALE DRILLING TIME IN MINUTES ПНОГОСА PER FOOT Rate of Penetration Increases SAMPLE DESCRIPTIONS REMARKS 7708 DEPTH 15" 20" 25" 10" 5" 3 1520 Anny 11533 E-100-1930 (+80 1550 1550 1 Samples: 10'wet/dry 3900-3900-3940'; 20' wet/dry 15 of the Hay arm, Am 3940-4400'; 10' wet ldry Bld-FARN, data 4400'-RTD (4803') good scat x/2-smar-grand, NO samples (except for Shete Washowt are as as hoted in report) LS, Fancon, from-day, Frin 26.15 Smg pder Vug-ph &, set X/WS for which ky

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chty, NVIS Ø prup ch+ 94, souble shearb CS. far off qu. R.M. Vixled, Scat XIN \$ 185 LS, tan, das, fr-goocp, NS scort cron Jah, shihler th kay 4300to offich -con, for, oal, fronts NS 0 Mud. Co data e 4311' 15 WT 9.1 VIS 55 WL 9.2 pH 9.0 LSigytan officerm CL 6400 ppm LCM 2# Solido 5.4 % southas - thty, sne. frm to Cht, who Itay, sharp truggy- fed NS Stank 15ht SH, blk carl fim-dno We tak an, MICON V Sofal, some Stochty chty -Ð scat tan, occ, for day, or cp, N) LS, tan 94, fron dus, maron/ trung, tost top, petty, a SH, bik, cash to vaggy-oocp, NS LS, hom tan, dr. contaxinally, NVIS \$, NS some fost, rat sucher 3 pc 0 que fost. 4400 LI aly mostly and they micro-trops in, ws 9 1 BIKG HITT stt s, ay ayard bit snoved Sme Sthy- Soly ŧ LS, up, frm, UFXD, some stick - chky, Scot Rintx/w \$ NS Hoy, for das microx/s gibres, mealy, das, microx/s B/KcK 1. crm tan offich, from dm s to bom-dns, for upp-ph\$, N. 50 14'1, dkay-bile, gygrid other 701712 0401 111 44631-LS, ay gybra, das, mitmo--109vfx/2, some mealy, arg, p. O, N. Some qy Stry SH quard LS. Offut, tow, 1 4; ggben - moth tran da S, Son F hald, Aunzy MUNA. Jon bron/fan, dal- Chty, bilky SH, Itay Stty-sdy some call, fr. LE offich Hay from dos. micro-fold, sent Klar P, NS 4500-For wh senitrod Ch+ fresh POC bit Change LS, offich-up tare, from-das micro-coppeda; 4503 in the US dons- tilley, Aitro- contoning, NB trug chky SH, 61k cart LS 14tan, frondas, virla, trut-they, 1ty, Note: Oder in samples 4440-50 (sloder): 4450-60 (trodor) -109. pA intx/N \$, truggy \$, NVIJ Show, Slodek in Sample AS, an tan off, nostly day micro- unhold, to bran chy NVIS # NS Sec child 81 Buc cht gyjel, wh, ful 50 IH, blk, ti Carl Ine qy gygra SH (5, 94 tan, mostly das, mur ox/s, 1 ply, NUIS \$, NS Mud-Co data e 4570' see of the 10, for das, such the scat plant, de aje the NS the rake & MS AV WT 9.1 VIS 50 WL 10.4 pH 9.5 CL 6, 800 ppm LCm 2th Solids 5.3 % E-100 SH, b/k, CARL LS offich fron-day UF-FXIN some plby, px/20, NS Some fan O' dns, crahola, plby some dkayter ben, das - atty



Conservation Division 266 N. Main St., Ste. 220 Wichita, KS 67202-1513



Phone: 316-337-6200 Fax: 346-337-6211 http://kcc.ks.gov/

Dwight D. Keen, Chair Shari Feist Albrecht, Commissioner Jay Scott Emler, Commissioner Laura Kelly, Governor

February 27, 2019

Mark Shreve Mull Drilling Company, Inc. 1700 N WATERFRONT PKWY BLDG 1200 WICHITA, KS 67206-6637

Re: ACO-1 API 15-083-21961-00-00 PHILLIPS 1-20 SW/4 Sec.20-24S-23W Hodgeman County, Kansas

Dear Mark Shreve:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 10/29/2018 and the ACO-1 was received on February 27, 2019 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department