

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 # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Recompletion Date \_\_\_\_\_ Date Reached TD \_\_\_\_\_ Completion Date or Recompletion Date \_\_\_\_\_

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

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: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Mustang Energy Corporation
Well Name	GASKILL RANGE 1
Doc ID	1483731

Tops

Name	Top	Datum
Anhydrite	2600	+604
Base	2625	+579
Heebner	3969	-784
Lansing	4008	-804
BKC	4328	-1124
Pawnee	4464	-1260
Myrick Station	4508	-1304
Morrow	4672	-1468
Mississippian	4788	-1584



# **Geological Report**

## **Gaskill Range #1**

2310' FNL & 350' FWL

Sec. 23 T12s R36w

Logan County, Kansas



**Mustang Energy Corporation**

## General Data

Well Data: Mustang Energy Corporation  
Gaskill Range #1  
2310' FNL & 350' FWL  
Sec. 23 T12s R36w  
Logan County, Kansas  
API # 15-109-21600-0000

Drilling Contractor: Discovery Drilling Co., Inc. Rig #4

Geologist: Jason T Alm

Spud Date: October 29, 2019

Completion Date: November 7, 2019

Elevation: 3196' Ground Level  
3204' Kelly Bushing

Directions: Winona KS, west ½ mi to 220 rd, south 3 miles to  
Vista, west 2 miles, south into location.

Casing: 306' 8 5/8" surface casing

Samples: 10' wet and dry, 3600' to RTD

Drilling Time: 3500' to RTD

Electric Logs: Pioneer "Ian Mabb"  
CNL/CDL, DIL, MEL

Drillstem Tests: Two, Diamond Testing, LLC. "Kevin Mack"

Problems: None

Remarks: None

## Formation Tops

<b>Formation</b>	<b>Mustang Energy Corporation</b> <b>Gaskill Range #1</b> <b>Sec. 23 T12s R36w</b> <b>2310' FNL &amp; 350' FWL</b>
Anhydrite	<b>2600' +604</b>
Base	<b>2625' +579</b>
Topeka	<b>3740' -536</b>
Heebner	<b>3969' -765</b>
Lansing	<b>4008' -804</b>
Stark	<b>4261' -1057</b>
BKC	<b>4328' -1124</b>
Marmaton	<b>4372' -1168</b>
Pawnee	<b>4464' -1260</b>
Myrick Station	<b>4508' -1304</b>
Fort Scott	<b>4529' -1325</b>
Cherokee	<b>4560' -1356</b>
Johnson	<b>4608' -1404</b>
Morrow	<b>4672' -1468</b>
Mississippian	<b>4788' -1584</b>
RTD	<b>4800' -1596</b>
LTD	<b>4799' -1595</b>

## Sample Zone Descriptions

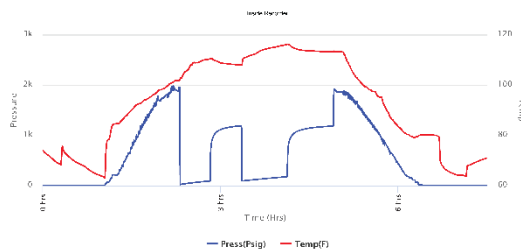
- LKC C**                    **(4042' -838):**                    **Covered in DST #1**  
 Ls – Fine crystalline, oolitic in part with poor to scattered fair inter-crystalline and vuggy porosity, light to fair oil stain with light spotted saturation in part, slight show of free oil, light odor, dull yellow fluorescents, fair cut, 16 gas units.
- LKC D**                    **(4068' -864):**                    **Covered in DST #1**  
 Ls – Fine crystalline, oolitic with fair inter-crystalline and vuggy por, light to good oil stain with scattered fair to good saturation, show of free oil when broken, light show of free oil on cup, fair to good odor, light yellow fluorescents, fair to good stream cut, 21 gas units.
- Myrick Station**        **(4508' -1304):**                    **Covered in DST #2**  
 Ls – Fine crystalline with scattered poor to fair inter-crystalline porosity, light to fair spotted oil stain in porosity, slight show of free oil when broken, light odor, fair yellow fluorescents, good stream cut, chert dark gray to black, 30 gas units.

**Drill Stem Tests**  
 Diamond Testing, LLC.  
 "Kevin Mack"

**DST #1 LKC C-D zones**

Interval (4030' – 4090') Anchor Length 60'

IHP	– 1956 #	
IFP	– 30" – BOB 24 min	31-92 #
ISI	– 30" – Dead	1188 #
FFP	– 45" – BOB 22 min	96-180 #
FSI	– 45" – Dead	1185 #
FHP	– 1920 #	
BHT	– 117°F	

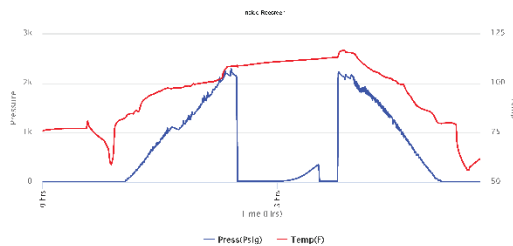


Recovery: 40' Clean Oil  
 330' SOCMW 3% Oil, 55% Water

**DST #2 Myrick Station**

Interval (4495' – 4545') Anchor Length 50'

IHP	– 2192 #	
IFP	– 30" – Built to 1 in.	17-20 #
ISI	– 30" – Dead	354 #
FFP	– 30" – Dead	20-21 #
FHP	– 2170 #	
BHT	– 113°F	



Recovery: 5' Mud w/ oil spots in tool



## Structural Comparison

Formation	Mustang Energy Corporation		Mull Drilling Co		Lauck DR Oil Co.			
	Gaskill Range #1		Andrews #1		Keller #1			
	Sec. 23 T12s R36w		Sec. 15 T12s R36w		Sec. 26 T12s R36w			
	2310' FNL & 350' FWL		SW NE SE		C SW NE			
Anhydrite	2600'	+604	2566'	+605	(-1)	2550'	+600	(+4)
Base	2625'	+579	2589'	+582	(-3)	NA		NA
Topeka	3740'	-536	NA		NA	3699'	-549	(+13)
Heebner	3969'	-765	3955'	-784	(+19)	3926'	-776	(+11)
Lansing	4008'	-804	3999'	-828	(+24)	3970'	-820	(+16)
Stark	4261'	-1057	4243'	-1072	(+15)	4214'	-1064	(+7)
BKC	4328'	-1124	NA		NA	4284'	-1134	(+10)
Marmaton	4372'	-1168	NA		NA	4324'	-1174	(+6)
Pawnee	4464'	-1260	NA		NA	4417'	-1267	(+7)
Myrick	4508'	-1304	NA		NA	4458'	-1308	(+4)
Fort Scott	4529'	-1325	4496'	-1325	FL	4479'	-1329	(+4)
Cherokee	4560'	-1356	NA		NA	4509'	-1359	(+3)
Johnson	4608'	-1404	NA		NA	4556'	-1406	(+2)
Morrow	4672'	-1468	NA		NA	NA		NA
Mississippian	4788'	-1584	4748'	-1577	(-7)	4731'	-1581	(-3)

### Summary

The location for the Gaskill Range #1 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Two Drill Stem Tests were conducted, both of which were negative. After all gathered data had been examined the decision was made to plug and abandon the Gaskill Range #1 well.

Respectfully Submitted,

Jason T Alm  
 Hard Rock Consulting, Inc.  
 AAPG #10134582

JOB LOG

SWIFT Services, Inc.

DATE 10-30-19 PAGE NO. 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Mustang Energy Corp		#1		Croskell Range		Surface Pipe		032860	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	0200								On Location 8 5/8" 23lb/A
									RTD: 306'
	0245								Start 8 5/8" 23lb/ft Casing in well
	0400								Break Circulation
	0415	3 1/2	5		✓	200			Pump 5 bbl H <sub>2</sub> O Spacer
	0420	4	45		✓	200			⊗ Mix 185 sks of Standard 2% gel 3% CC CMT @ 14.7ppg
	0435	4	0		✓	100			Displace CMT
		4	15 1/2			200			- Circulate CMT to Surface * 15 sks to the Pit *
	0445	0	19		✓	300			KO Pump * Shut-in * Release Pressure * HOLD * - Plug down @ 4:45 AM
	0445								Washup Trk #112
	0500								Job Complete
									185 sks of Standard 2% gel 3% CC used - 15 sks to the Pit
									Thank You
									Gideon, Preston, Kirby



JOB LOG

SWIFT Services, Inc.

DATE 11-6-19 PAGE NO.

CUSTOMER MUSTANG ENERGY WELL NO. #1 LEASE Gaskill Range JOB TYPE RTA TICKET NO. 32635

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2000							On location
								1st Plug - 2615'
								50 sks cmt
		3.5	5			300		pump wtr spacer
		3.5	13			300		pump cmt
		3.5	2			200		pump wtr Disp
			30					Disp w/ MUD
								2nd Plug - 1500
								100 sks cmt
		3.5	5			200		pump wtr spacer
		3.5	26			200		pump cmt
		3.5	5			200		Disp w/ wtr
								3rd Plug - 355
								50 sks cmt
		3.5	1			200		pump wtr spacer
		3.5	13			200		pump cmt
		0	1			0		Disp
								4th plug - 40
		2.5	2			0		10 sks cmt
								pump cmt to top off
		2.5	8			0		Plug rat hole - 30 sks
		2.5	4			0		plug mouse hole - 15 sks
	0000							JOB Complete
								THANKS
								DAVID, ZACH & ISAAC



# Company: Mustang Energy Corporation

## Lease: Gaskill Range #1

SEC: 23 TWN: 12S RNG: 36W  
County: LOGAN  
State: Kansas  
Drilling Contractor: Discovery Drilling Company, Inc. - Rig 4  
Elevation: 3199 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 410  
API #: 15-109-21600-00-00

**Operation:**  
Uploading recovery & pressures

**DATE**  
November  
**05**  
2019

**DST #2**      **Formation: Myrick Station**      **Test Interval: 4495 - 4545'**      **Total Depth: 4545'**  
Time On: 05:23 11/05      Time Off: 10:49 11/05  
Time On Bottom: 07:49 11/05      Time Off Bottom: 09:04 11/05

Electronic Volume Estimate:  
33'

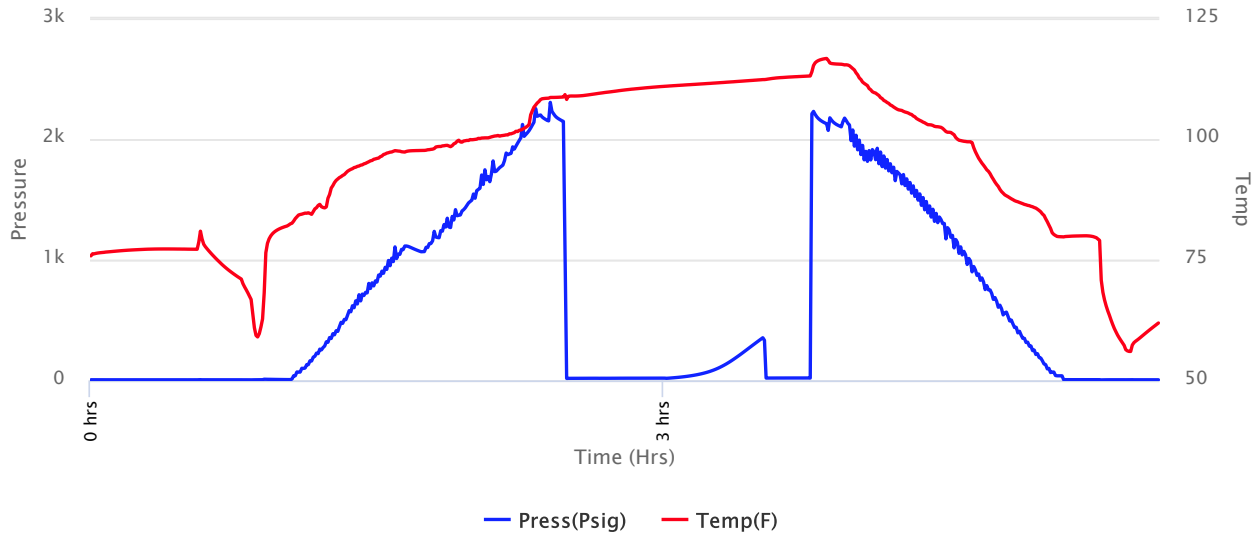
1st Open  
Minutes: 30  
Current Reading: 1" at 30 min  
Max Reading: 1"

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

2nd Open  
Minutes: 15  
Current Reading: 0" at 15 min  
Max Reading: 0"

2nd Close  
N/A

Inside Recorder







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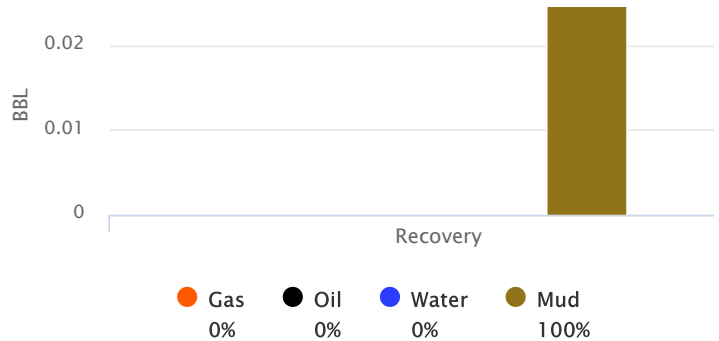
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
5	0.0246	M	0	0	0	100

Total Recovered: 5 ft  
 Total Barrels Recovered: 0.0246

**Reversed Out**  
**NO**

Initial Hydrostatic Pressure	2192	PSI
Initial Flow	17 to 20	PSI
<b>Initial Closed in Pressure</b>	<b>354</b>	<b>PSI</b>
Final Flow Pressure	20 to 21	PSI
<b>Final Closed in Pressure</b>	<b>0</b>	<b>PSI</b>
Final Hydrostatic Pressure	2170	PSI
Temperature	113	°F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**



GIP cubic foot volume: 0



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**DATE**  
November  
**05**  
2019

<b>DST #2</b>	<b>Formation: Myrick Station</b>	<b>Test Interval: 4495 - 4545'</b>	<b>Total Depth: 4545'</b>
	Time On: 05:23 11/05	Time Off: 10:49 11/05	
	Time On Bottom: 07:49 11/05	Time Off Bottom: 09:04 11/05	

### BUCKET MEASUREMENT:

1st Open: Weak surface blow built to 1" over 30 min.  
1st Close: No Return  
2nd Open: No Blow  
2nd Close: Pulled tools during FSI.

### REMARKS:

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



# Company: Mustang Energy Corporation

SEC: 23 TWN: 12S RNG: 36W  
County: LOGAN  
State: Kansas  
Drilling Contractor: Discovery Drilling Company, Inc. - Rig 4

**Operation:**  
Uploading recovery &  
pressures

# Lease: Gaskill Range #1

Elevation: 3199 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 410  
API #: 15-109-21600-00-00

**DATE**  
November  
**05**  
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**DST #2**      **Formation: Myrick Station**      **Test Interval: 4495 - 4545'**      **Total Depth: 4545'**  
Time On: 05:23 11/05      Time Off: 10:49 11/05  
Time On Bottom: 07:49 11/05      Time Off Bottom: 09:04 11/05

## Down Hole Makeup

<b>Heads Up:</b> 35.26 FT	<b>Packer 1:</b> 4490.32 FT
<b>Drill Pipe:</b> 4473.89 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4495.32 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4482.32 FT
<b>Collars:</b> 31.53 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4498 FT
<b>Test Tool:</b> 26.16 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 49.68	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	
<b>Packer Sub:</b> 1 FT	<b>Bottom Choke:</b> 5/8"
<b>Perforations: (top):</b> 13 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> .5 FT	
<b>Drill Pipe: (in anchor):</b> 31.68 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> .5 FT	
<b>Perforations: (below):</b> 3 FT <i>4 1/2-FH</i>	



**Operation:**

**Company: Mustang Energy Corporation**

**Lease: Gaskill Range #1**

SEC: 23 TWN: 12S RNG: 36W  
County: LOGAN  
State: Kansas  
Drilling Contractor: Discovery Drilling Company, Inc. - Rig 4  
Elevation: 3199 EGL  
Field Name: Wildcat

Uploading recovery & pressures

Pool: WILDCAT  
Job Number: 410  
API #: 15-109-21600-00-00

**DATE**  
November  
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Time On Bottom: 07:49 11/05      Time Off Bottom: 09:04 11/05

**Mud Properties**

**Mud Type:** Chem      **Weight:** 8.7      **Viscosity:** 51      **Filtrate:** 8.8      **Chlorides:** 7500 ppm



**Company: Mustang Energy Corporation**  
**Lease: Gaskill Range #1**

Operation:

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State: Kansas  
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Elevation: 3199 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 410



Uploading recovery &  
pressures

API #: 15-109-21600-00-00

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### Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



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SEC: 23 TWN: 12S RNG: 36W  
County: LOGAN  
State: Kansas  
Drilling Contractor: Discovery Drilling Company, Inc. - Rig 4  
Elevation: 3199 EGL  
Field Name: NA  
Pool: WILDCAT  
Job Number: 410  
API #: 15-109-21600-00-00

**Operation:**  
Uploading recovery & pressures

**DATE**  
November  
**03**  
2019

**DST #1**      **Formation: LKC "C,D"**      **Test Interval: 4030 - 4090'**      **Total Depth: 4090'**  
Time On: 10:04 11/03      Time Off: 17:22 11/03  
Time On Bottom: 12:19 11/03      Time Off Bottom: 14:49 11/03

Electronic Volume Estimate:  
370'

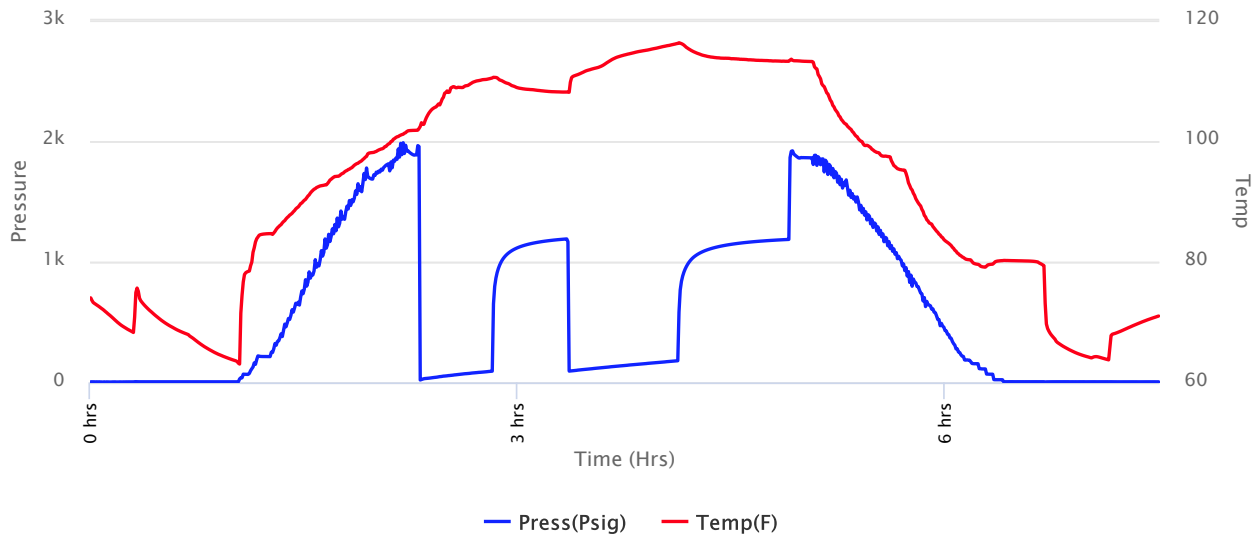
1st Open  
Minutes: 30  
Current Reading:  
12.6" at 30 min  
Max Reading: 12.6"

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

2nd Open  
Minutes: 45  
Current Reading:  
19.6" at 45 min  
Max Reading: 19.6"

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

Inside Recorder





**Company: Mustang Energy Corporation**

**Lease: Gaskill Range #1**

SEC: 23 TWN: 12S RNG: 36W  
 County: LOGAN  
 State: Kansas  
 Drilling Contractor: Discovery Drilling Company, Inc. - Rig 4  
 Elevation: 3199 EGL  
 Field Name: NA  
 Pool: WILDCAT  
 Job Number: 410  
 API #: 15-109-21600-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 November  
**03**  
 2019

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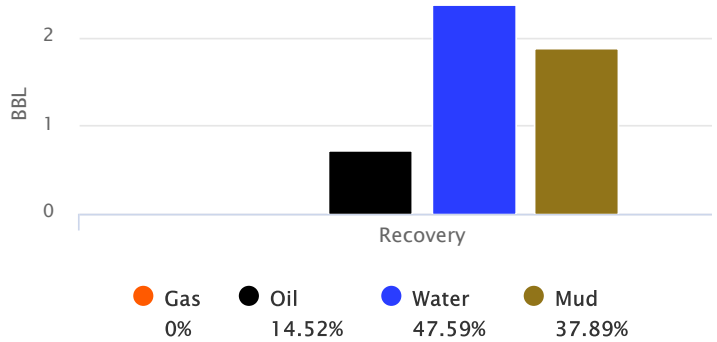
Recovered						
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
40	0.5692	O	0	100	0	0
15	0.21345	SLOCWCM	0	10	20	70
63	0.89649	SLOCWCM	0	5	20	75
63	0.89649	SLOCHWCM	0	5	30	65
63	0.89649	SLOCMCW	0	3	77	20
126	1.4994357	SLOCMCW	0	1	79	20

Total Recovered: 370 ft  
 Total Barrels Recovered: 4.9715557

**Reversed Out**  
**NO**

Initial Hydrostatic Pressure	1956	PSI
Initial Flow	31 to 92	PSI
<b>Initial Closed in Pressure</b>	<b>1188</b>	<b>PSI</b>
Final Flow Pressure	96 to 180	PSI
<b>Final Closed in Pressure</b>	<b>1185</b>	<b>PSI</b>
Final Hydrostatic Pressure	1920	PSI
Temperature	117	°F
Pressure Change Initial Close / Final Close	0.2	%

**Recovery at a glance**



GIP cubic foot volume: 0



# Company: Mustang Energy Corporation

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### BUCKET MEASUREMENT:

1st Open: BoB in 23 min. 43 sec.  
1st Close: No Return  
2nd Open: BoB in 21 min. 45 sec.  
2nd Close: No Return

### REMARKS:

Tool Sample: 0% Gas .1% Oil 84.9% Water 15% Mud  
Gravity: 32.4 @ 60 °F  
Ph: 7  
Measured RW: .12 @ 68 degrees °F  
RW at Formation Temp: 0.072 @ 117 °F  
Chlorides: 63000 ppm



# Company: Mustang Energy Corporation

SEC: 23 TWN: 12S RNG: 36W  
County: LOGAN  
State: Kansas  
Drilling Contractor: Discovery Drilling Company, Inc. - Rig 4





