

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

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

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.

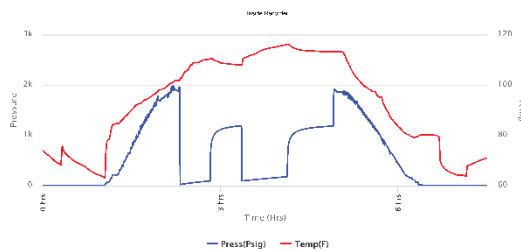
Drill Stem Tests

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	

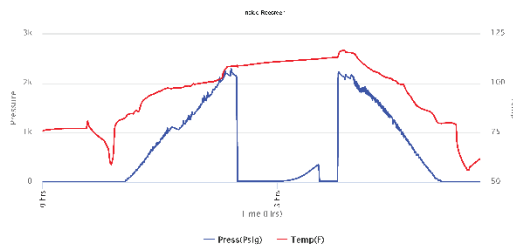


Recovery: 40' Clean Oil
 330' SOCMW 3% Oil, 55% Water

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.
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