KOLAR Document ID: 1452623

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 # 32446
Name: Merit Energy Company, LLC
Address 1: 13727 NOEL ROAD, SUITE 1200
Address 2:
City: DALLAS State: TX Zip: 75240 + ____
Contact Person: IDANIA MEDINA
Phone: (620) 629-4228
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Merit Energy 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 #:

10/17/2018 Spud Date or Recompletion Date
10/28/2018 Date Reached TD
11/17/2018 Completion Date or Recompletion Date

API No.: 15-081-22183-01-00
Spot Description:
SE - NE - NE - NW Sec. 16 Twp. 28 S. R. 34 ☐ East ☑ West
426 Feet from ☑ North / ☐ South Line of Section
2488 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Haskell
Lease Name: GOERING JACOB Well #: M3H
Field Name: Eubank
Producing Formation: Morrow Lime
Elevation: Ground: 3049 Kelly Bushing: 3061
Total Vertical Depth: 6343 Plug Back Total Depth: 6675
Amount of Surface Pipe Set and Cemented at: 1810 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: 900 ppm Fluid volume: 678 bbls
Dewatering method used: Evaporated
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:** Karen Ritter **Date:** 03/05/2019

Operator Name: Merit Energy Company, LLC Lease Name: GOERING JACOB Well #: M3H

Sec. 16 Twp. 28 S. R. 34 ☐ East ☑ West County: Haskell

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)*	☐ Yes	☑ No	
Samples Sent to Geological Survey	☑ Yes	☐ No	
Cores Taken	☐ Yes	☑ No	
Electric Log Run	☐ Yes	☑ No	
Geologist Report / Mud Logs	☐ Yes	☑ No	

List All E. Logs Run:

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	24	1810	A-CON	525	See Attached
Production	7.875	5.5	17	6733	Class H	560	See Attached

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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: 11/17/2018

Producing Method: ☑ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	15.4		370		

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

PRODUCTION INTERVAL:

Top	Bottom
6118	6594

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
Attached	Attached	Attached	Attached	Attached	Attached

TUBING RECORD: Size: 2.8750 Set At: 5350 Packer At:

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

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	GOERING JACOB M3H
Doc ID	1452623

Tops

Name	Top	Datum
Hutchinson	2373	
Chase	2608	
Wabaunsee	3295	
Topeka	3632	
Heebner	4017	
Iola	4272	
Swope	4519	
Hertha	4574	
Marmaton	4663	
Cherokee	4835	
Atoka	5043	
Morrow group	5290	

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Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSetAt	Material Record
2	6118	6120			Morrow LIme / Frac- 3576 bbls, total 30/50 flowpro 150,227 lbs total N2 5,055,000 SCF
2	6130	6132			" " ' "
2	6136	6138			" " ' "
2	6154	6156			" " ' "
2	6556	6558			Morrow Lime / Frac- total load 2547 bbls, total 30/50 flopro 150,102 lbs, total N2 5,950,000 SCF
2	6568	6570			
2	6580	6582			
2	6592	6594			

Form	ACO1 - Well Completion
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Doc ID	1452623

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	8.625	24	1810	A-CON	525	See Attached
Production	7.875	5.5	17	6733	Class H	560	See Attached

Company: **MERIT ENERGY CO.**
Field: **1st run**
County:
Well Name: **Goering Jacob M3H**
Rig: **DUKE RIG # 9**

Job Number:
Magnetic Decl:
Grid Corr:
Total Survey Corr:
Date Printed:

Proposed Azimuth: **360.000**
Target Inclination: **0.00**
TVD:
BRN From Survey: **#VALUE!**
BRN From Bit: **#DIV/0!**

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Dist (ft)	Closure Ang (°)	DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')
0	TIE-ON	0	0	0	N 0.00 E		0.00	0.00	0.00	0.00					
1	INC	296	0.6	326.4	N 33.60 W	296	295.99	1.29	1.29 N	0.86 W	1.55	326.40	0.20	0.20	-11.35
2	INC	449	0.8	316.4	N 43.60 W	153	448.98	2.73	2.73 N	2.04 W	3.41	323.28	0.15	0.13	-6.54
3	MWD	759	0.7	321.4	N 38.60 W	310	758.96	5.78	5.78 N	4.71 W	7.46	320.81	0.04	-0.03	1.61
4	MWD	916	0.7	294.4	N 65.60 W	157	915.94	6.92	6.92 N	6.18 W	9.28	318.24	0.21	0.00	-17.20
5	MWD	1069	1.2	292.4	N 67.60 W	153	1068.92	7.92	7.92 N	8.52 W	11.63	312.93	0.33	0.33	-1.31
6	MWD	1222	0.6	216.4	S 36.40 W	153	1221.91	7.89	7.89 N	10.47 W	13.11	306.98	0.79	-0.39	-49.67
7	MWD	1374	0.2	261.4	S 81.40 W	152	1373.90	7.21	7.21 N	11.21 W	13.32	302.74	0.32	-0.26	29.61
8	MWD	1528	0.3	248.4	S 68.40 W	154	1527.90	7.02	7.02 N	11.85 W	13.77	300.64	0.07	0.06	-8.44
9	MWD	1681	0.4	68.4	N 68.40 E	153	1680.90	7.07	7.07 N	11.72 W	13.69	301.08	0.46	0.07	-117.65
10	MWD	1785	0.1	7.4	N 7.40 E	104	1784.90	7.29	7.29 N	11.37 W	13.51	302.66	0.35	-0.29	-58.65
11	MWD	1843	0.26	259.62	S 79.62 W	58	1842.90	7.32	7.32 N	11.50 W	13.63	302.47	0.53	0.28	434.86
12	MWD	1996	0.57	160.81	S 19.19 E	153	1995.90	6.54	6.54 N	11.59 W	13.30	299.42	0.43	0.20	-64.58
13	MWD	2150	0.51	154.94	S 25.06 E	154	2149.89	5.19	5.19 N	11.05 W	12.21	295.17	0.05	-0.04	-3.81
14	MWD	2305	0.69	158.15	S 21.85 E	155	2304.88	3.70	3.70 N	10.41 W	11.04	289.57	0.12	0.12	2.07
15	MWD	2462	0.87	171.04	S 8.96 E	157	2461.87	1.65	1.65 N	9.87 W	10.01	279.47	0.16	0.11	8.21
16	MWD	2618	0.47	175.17	S 4.83 E	156	2617.86	-0.16	0.16 S	9.63 W	9.63	269.04	0.26	-0.26	2.65
17	MWD	2774	0.37	192.61	S 12.61 W	156	2773.85	-1.29	1.29 S	9.69 W	9.77	262.41	0.10	-0.06	11.18
18	MWD	2931	0.67	190.87	S 10.87 W	157	2930.85	-2.69	2.69 S	9.97 W	10.33	254.92	0.19	0.19	-1.11
19	MWD	3089	1	196.68	S 16.68 W	158	3088.83	-4.92	4.92 S	10.54 W	11.63	245.00	0.22	0.21	3.68
20	MWD	3247	0.89	202.93	S 22.93 W	158	3246.81	-7.37	7.37 S	11.41 W	13.58	237.17	0.10	-0.07	3.96
21	MWD	3404	1.11	207.5	S 27.50 W	157	3403.78	-9.84	9.84 S	12.59 W	15.98	232.00	0.15	0.14	2.91
22	MWD	3561	1.3	206.25	S 26.25 W	157	3560.75	-12.78	12.78 S	14.08 W	19.02	227.77	0.12	0.12	-0.80
23	MWD	3641	1.05	196.91	S 16.91 W	80	3640.73	-14.30	14.30 S	14.70 W	20.50	225.78	0.39	-0.31	-11.68
24	MWD	3718	0.62	179.69	S 0.31 E	77	3717.72	-15.39	15.39 S	14.90 W	21.42	224.07	0.64	-0.56	-22.36
25	MWD	3923	0.43	104.78	S 75.22 E	205	3922.72	-16.70	16.70 S	14.15 W	21.89	220.28	0.32	-0.09	-36.54
26	MWD	4030	0.56	102.7	S 77.30 E	107	4029.71	-16.91	16.91 S	13.25 W	21.49	218.08	0.12	0.12	-1.94
27	MWD	4186	0.82	106.47	S 73.53 E	156	4185.70	-17.40	17.40 S	11.44 W	20.82	213.32	0.17	0.17	2.42
28	MWD	4343	1.11	126.39	S 53.61 E	157	4342.68	-18.62	18.62 S	9.14 W	20.74	206.14	0.28	0.18	12.69
29	MWD	4500	0.91	143.41	S 36.59 E	157	4499.65	-20.52	20.52 S	7.17 W	21.74	199.25	0.23	-0.13	10.84
30	MWD	4620	0.89	157.36	S 22.64 E	120	4619.64	-22.15	22.15 S	6.24 W	23.01	195.74	0.18	-0.02	11.63
31	MWD	4668	0.87	160.58	S 19.42 E	48	4667.63	-22.83	22.83 S	5.98 W	23.60	194.67	0.11	-0.04	6.71
32	MWD	4700	0.81	226.46	S 46.46 W	32	4699.63	-23.22	23.22 S	6.06 W	24.00	194.63	2.86	-0.19	205.88
33	MWD	4732	3.18	260.9	S 80.90 W	32	4731.61	-23.52	23.52 S	7.10 W	24.56	196.80	7.98	7.41	107.63
34	MWD	4763	6.25	272.81	N 87.19 W	31	4762.50	-23.57	23.57 S	9.64 W	25.46	202.24	10.34	9.90	38.42
35	MWD	4795	9.94	281.2	N 78.80 W	32	4794.18	-22.95	22.95 S	14.09 W	26.93	211.54	12.08	11.53	26.22
36	MWD	4827	13.91	282.78	N 77.22 W	32	4825.48	-21.56	21.56 S	20.55 W	29.78	223.63	12.45	12.41	4.94
37	MWD	4859	18.32	282.04	N 77.96 W	32	4856.22	-19.66	19.66 S	29.22 W	35.22	236.07	13.80	13.78	-2.31
38	MWD	4890	23.38	281.99	N 78.01 W	31	4885.18	-17.36	17.36 S	40.01 W	43.62	246.54	16.32	16.32	-0.16
39	MWD	4922	27.67	281.05	N 78.95 W	32	4914.05	-14.62	14.62 S	53.52 W	55.48	254.72	13.47	13.41	-2.94
40	MWD	4954	31.61	279.75	N 80.25 W	32	4941.86	-11.77	11.77 S	69.08 W	70.08	260.33	12.47	12.31	-4.06

Company:	MERIT ENERGY CO.			Job Number:				Proposed Azimuth:	360.000						
Field:	1st run			Magnetic Decl:				Target Inclination:	0.00						
County:				Grid Corr:				TVD:							
Well Name:	Goering Jacob M3H			Total Survey Corr:				BRN From Survey:	#VALUE!						
Rig:	DUKE RIG # 9			Date Printed:				BRN From Bit:	#DIV/0!						

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Dist (ft)	Closure Ang (°)	DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')
41	MWD	4986	35.33	279.5	N 80.50 W	32	4968.54	-8.82	8.82 S	86.48 W	86.93	264.17	11.63	11.63	-0.78
42	MWD	5017	39.09	277.93	N 82.07 W	31	4993.23	-6.00	6.00 S	105.01 W	105.18	266.73	12.51	12.13	-5.06
43	MWD	5048	42.92	275.25	N 84.75 W	31	5016.62	-3.68	3.68 S	125.21 W	125.26	268.32	13.59	12.35	-8.65
44	MWD	5078	46.89	274.4	N 85.60 W	30	5037.87	-1.90	1.90 S	146.31 W	146.32	269.25	13.38	13.23	-2.83
45	MWD	5109	50.74	274.29	N 85.71 W	31	5058.28	-0.14	0.14 S	169.57 W	169.57	269.95	12.42	12.42	-0.35
46	MWD	5140	53.98	272.88	N 87.12 W	31	5077.21	1.39	1.39 N	194.06 W	194.07	270.41	11.05	10.45	-4.55
47	MWD	5171	56.62	272.02	N 87.98 W	31	5094.85	2.48	2.48 N	219.52 W	219.54	270.65	8.82	8.52	-2.77
48	MWD	5203	58.11	271.37	N 88.63 W	32	5112.11	3.27	3.27 N	246.46 W	246.48	270.76	4.96	4.66	-2.03
49	MWD	5235	59.15	271.41	N 88.59 W	32	5128.77	3.93	3.93 N	273.77 W	273.80	270.82	3.25	3.25	0.13
50	MWD	5266	59.9	271.64	N 88.36 W	31	5144.49	4.65	4.65 N	300.48 W	300.52	270.89	2.50	2.42	0.74
51	MWD	5290	60.29	271.61	N 88.39 W	24	5156.45	5.24	5.24 N	321.28 W	321.32	270.93	1.63	1.63	-0.12
52	MWD	5329	60.8	271.49	N 88.51 W	39	5175.63	6.15	6.15 N	355.22 W	355.28	270.99	1.33	1.31	-0.31
53	MWD	5361	62.94	271.4	N 88.60 W	32	5190.72	6.87	6.87 N	383.43 W	383.49	271.03	6.69	6.69	-0.28
54	MWD	5392	66.94	271.37	N 88.63 W	31	5203.85	7.54	7.54 N	411.50 W	411.57	271.05	12.90	12.90	-0.10
55	MWD	5424	70.97	270.89	N 89.11 W	32	5215.33	8.13	8.13 N	441.35 W	441.43	271.06	12.67	12.59	-1.50
56	MWD	5455	75.43	270.23	N 89.77 W	31	5224.29	8.42	8.42 N	471.02 W	471.10	271.02	14.53	14.39	-2.13
57	MWD	5518	83.14	270.93	N 89.07 W	63	5236.00	9.05	9.05 N	532.87 W	532.95	270.97	12.29	12.24	1.11
58	MWD	5550	84.94	271.29	N 88.71 W	32	5239.32	9.67	9.67 N	564.69 W	564.77	270.98	5.74	5.62	1.13
59	MWD	5581	85.67	271.6	N 88.40 W	31	5241.86	10.45	10.45 N	595.58 W	595.67	271.00	2.56	2.35	1.00
60	MWD	5613	86.55	271.96	N 88.04 W	32	5244.03	11.44	11.44 N	627.49 W	627.59	271.04	2.97	2.75	1.12
61	MWD	5644	86.9	271.97	N 88.03 W	31	5245.80	12.50	12.50 N	658.42 W	658.54	271.09	1.13	1.13	0.03
62	MWD	5675	86.4	272.1	N 87.90 W	31	5247.61	13.60	13.60 N	689.35 W	689.48	271.13	1.67	-1.61	0.42
63	MWD	5707	85.6	271.9	N 88.10 W	32	5249.84	14.71	14.71 N	721.25 W	721.40	271.17	2.58	-2.50	-0.63
64	MWD	5738	85.74	271.86	N 88.14 W	31	5252.18	15.73	15.73 N	752.14 W	752.31	271.20	0.47	0.45	-0.13
65	MWD	5769	86.1	271.8	N 88.20 W	31	5254.39	16.71	16.71 N	783.05 W	783.23	271.22	1.18	1.16	-0.19
66	MWD	5801	85.92	271.56	N 88.44 W	32	5256.62	17.65	17.65 N	814.96 W	815.15	271.24	0.94	-0.56	-0.75
67	MWD	5833	86.72	271.6	N 88.40 W	32	5258.67	18.53	18.53 N	846.88 W	847.08	271.25	2.50	2.50	0.13
68	MWD	5871	87.55	270.92	N 89.08 W	38	5260.57	19.36	19.36 N	884.82 W	885.03	271.25	2.82	2.18	-1.79
69	MWD	5903	88.64	271.32	N 88.68 W	32	5261.63	19.99	19.99 N	916.80 W	917.02	271.25	3.63	3.41	1.25
70	MWD	5932	89.4	271.67	N 88.33 W	29	5262.13	20.75	20.75 N	945.78 W	946.01	271.26	2.89	2.62	1.21
71	MWD	5963	89.85	272.35	N 87.65 W	31	5262.33	21.83	21.83 N	976.76 W	977.01	271.28	2.63	1.45	2.19
72	MWD	5994	90.29	271.75	N 88.25 W	31	5262.29	22.94	22.94 N	1007.74 W	1008.00	271.30	2.40	1.42	-1.94
73	MWD	6025	90.77	271.61	N 88.39 W	31	5262.01	23.85	23.85 N	1038.73 W	1039.00	271.32	1.61	1.55	-0.45
74	MWD	6057	91.22	271.26	N 88.74 W	32	5261.45	24.65	24.65 N	1070.71 W	1071.00	271.32	1.78	1.41	-1.09
75	MWD	6088	91.1	271.15	N 88.85 W	31	5260.82	25.30	25.30 N	1101.70 W	1101.99	271.32	0.53	-0.39	-0.35
76	MWD	6119	91.05	271.03	N 88.97 W	31	5260.24	25.89	25.89 N	1132.69 W	1132.99	271.31	0.42	-0.16	-0.39
77	MWD	6151	91.13	270.82	N 89.18 W	32	5259.63	26.41	26.41 N	1164.68 W	1164.98	271.30	0.70	0.25	-0.66
78	MWD	6182	91.35	271.13	N 88.87 W	31	5258.96	26.94	26.94 N	1195.67 W	1195.97	271.29	1.23	0.71	1.00
79	MWD	6213	91.63	270.63	N 89.37 W	31	5258.16	27.41	27.41 N	1226.65 W	1226.96	271.28	1.85	0.90	-1.61
80	MWD	6245	91.69	270.26	N 89.74 W	32	5257.23	27.66	27.66 N	1258.64 W	1258.94	271.26	1.17	0.19	-1.16
81	MWD	6259	91.41	270.31	N 89.69 W	14	5256.85	27.73	27.73 N	1272.63 W	1272.94	271.25	2.03	-2.00	0.36

Company: **MERIT ENERGY CO.**
Field: **1st run**
County:
Well Name: **Goering Jacob M3H**
Rig: **DUKE RIG # 9**

Job Number:
Magnetic Decl:
Grid Corr:
Total Survey Corr:
Date Printed:

Proposed Azimuth: **360.000**
Target Inclination: **0.00**
TVD:
BRN From Survey: **#VALUE!**
BRN From Bit: **#DIV/0!**

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Dist (ft)	Closure Ang (°)	DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')
82	MWD	6291	90.71	270.36	N 89.64 W	32	5256.26	27.92	27.92 N	1304.63 W	1304.93	271.23	2.19	-2.19	0.16
83	MWD	6322	90.71	270	N 90.00 W	31	5255.87	28.02	28.02 N	1335.62 W	1335.92	271.20	1.16	0.00	-1.16
84	MWD	6354	89.51	269.57	S 89.57 W	32	5255.81	27.90	27.90 N	1367.62 W	1367.91	271.17	3.98	-3.75	-1.34
85	MWD	6385	88.98	269.1	S 89.10 W	31	5256.22	27.54	27.54 N	1398.62 W	1398.89	271.13	2.29	-1.71	-1.52
86	MWD	6417	89.06	268.59	S 88.59 W	32	5256.77	26.89	26.89 N	1430.61 W	1430.86	271.08	1.61	0.25	-1.59
87	MWD	6448	89.01	268.69	S 88.69 W	31	5257.29	26.16	26.16 N	1461.59 W	1461.83	271.03	0.36	-0.16	0.32
88	MWD	6513	89.01	268.71	S 88.71 W	65	5258.41	24.68	24.68 N	1526.57 W	1526.77	270.93	0.03	0.00	0.03
89	MWD	6576	88.08	267.18	S 87.18 W	63	5260.01	22.42	22.42 N	1589.50 W	1589.66	270.81	2.84	-1.48	-2.43
90	MWD	6607	87.89	266.95	S 86.95 W	31	5261.10	20.84	20.84 N	1620.44 W	1620.58	270.74	0.96	-0.61	-0.74
91	MWD	6639	87.16	266.33	S 86.33 W	32	5262.49	18.96	18.96 N	1652.36 W	1652.47	270.66	2.99	-2.28	-1.94
92	MWD														
93	MWD														
94	MWD														
95	MWD														
96	MWD														
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119	MWD														

Company: **MERIT ENERGY CO.**
Field: **1st run**
County:
Well Name: **Goering Jacob M3H**
Rig: **DUKE RIG # 9**

Job Number:
Magnetic Decl:
Grid Corr:
Total Survey Corr:
Date Printed:

Proposed Azimuth: **360.000**
Target Inclination: **0.00**
TVD:
BRN From Survey: **#VALUE!**
BRN From Bit: **#DIV/0!**

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Dist (ft)	Closure Ang (°)	DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')
120	MWD														
121	MWD														
122	MWD														
123	MWD														
124	MWD														
125	MWD														
126	MWD														
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147	MWD														
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152	MWD														
153	MWD														
154	MWD														
155	MWD														

Company: **MERIT ENERGY CO.**
Field: **1st run**
County:
Well Name: **Goering Jacob M3H**
Rig: **DUKE RIG # 9**

Job Number:
Magnetic Decl:
Grid Corr:
Total Survey Corr:
Date Printed:

Proposed Azimuth: **360.000**
Target Inclination: **0.00**
TVD:
BRN From Survey: **#VALUE!**
BRN From Bit: **#DIV/0!**

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Dist (ft)	Closure Ang (°)	DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')
156	MWD														
157	MWD														
158	MWD														
159	MWD														
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Company: **MERIT ENERGY CO.** | Job Number: | Proposed Azimuth: **360.000**
Field: **1st run** | Magnetic Decl: | Target Inclination: **0.00**
County: | Grid Corr: | TVD:
Well Name: **Goering Jacob M3H** | Total Survey Corr: | BRN From Survey: **#VALUE!**
Rig: **DUKE RIG # 9** | Date Printed: | BRN From Bit: **#DIV/0!**

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Dist (ft)	Closure Ang (°)	DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')
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Company: **MERIT ENERGY CO.**
Field: **1st run**
County:
Well Name: **Goering Jacob M3H**
Rig: **DUKE RIG # 9**

Job Number:
Magnetic Decl:
Grid Corr:
Total Survey Corr:
Date Printed:

Proposed Azimuth: **360.000**
Target Inclination: **0.00**
TVD:
BRN From Survey: **#VALUE!**
BRN From Bit: **#DIV/0!**

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Dist (ft)	Closure Ang (°)	DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')
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Company:	MERIT ENERGY CO.	Job Number:		Proposed Azimuth:	360.000
Field:	1st run	Magnetic Decl:		Target Inclination:	0.00
County:		Grid Corr:		TVD:	
Well Name:	Goering Jacob M3H	Total Survey Corr:		BRN From Survey:	#VALUE!
Rig:	DUKE RIG # 9	Date Printed:		BRN From Bit:	#DIV/0!

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Dist (ft)	Closure Ang (°)	DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')
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Company: **MERIT ENERGY CO.**
Field: **1st run**
County:
Well Name: **Goering Jacob M3H**
Rig: **DUKE RIG # 9**

Job Number:
Magnetic Decl:
Grid Corr:
Total Survey Corr:
Date Printed:

Proposed Azimuth: **360.000**
Target Inclination: **0.00**
TVD:
BRN From Survey: **#VALUE!**
BRN From Bit: **#DIV/0!**

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Dist (ft)	Closure Ang (°)	DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')
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Company:	MERIT ENERGY CO.					Job Number:						Proposed Azimuth:	360.000				
Field:	1st run					Magnetic Decl:						Target Inclination:	0.00				
County:						Grid Corr:						TVD:					
Well Name:	Goering Jacob M3H					Total Survey Corr:						BRN From Survey:	#VALUE!				
Rig:	DUKE RIG # 9					Date Printed:						BRN From Bit:	#DIV/0!				

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Dist (ft)	Closure Ang (°)	DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')
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Company: **MERIT ENERGY CO.** Job Number: Proposed Azimuth: **360.000**

Field: **1st run** Magnetic Decl: Target Inclination: **0.00**

County: Grid Corr: TVD:

Well Name: **Goering Jacob M3H** Total Survey Corr: BRN From Survey: **#VALUE!**

Rig: **DUKE RIG # 9** Date Printed: BRN From Bit: **#DIV/0!**

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Dist (ft)	Closure Ang (°)	DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')
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Company: **MERIT ENERGY CO.**
Field: **1st run**
County:
Well Name: **Goering Jacob M3H**
Rig: **DUKE RIG # 9**

Job Number:
Magnetic Decl:
Grid Corr:
Total Survey Corr:
Date Printed:

Proposed Azimuth: **360.000**
Target Inclination: **0.00**
TVD:
BRN From Survey: **#VALUE!**
BRN From Bit: **#DIV/0!**

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Dist (ft)	Closure Ang (°)	DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')
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		Company:	MERIT ENERGY CO.			Job Number:				Proposed Azimuth:	360.000							
		Field:	1st run			Magnetic Decl:				Target Inclination:	0.00							
		County:				Grid Corr:				TVD:								
		Well Name:	Goering Jacob M3H			Total Survey Corr:				BRN From Survey:	#VALUE!							
		Rig:	DUKE RIG # 9			Date Printed:				BRN From Bit:	#DIV/0!							

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Dist (ft)	Closure Ang (°)	DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')
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450		3000	55.00	0.00	N 0.00 E	3000	#VALUE!	1351.63	1351.63 N	1652.36 W	2134.76	309.28	1.83	1.83	0.00
451		3330	90.00	20.00	N 20.00 E	330	#VALUE!	1654.02	1654.02 N	1593.56 W	2296.78	316.07	12.02	10.61	6.06
452															
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Company:	**MERIT ENERGY CO.**	Job Number:		Proposed Azimuth:	**360.000**
Field:	**1st run**	Magnetic Decl:		Target Inclination:	**0.00**
County:		Grid Corr:		TVD:	
Well Name:	**Goering Jacob M3H**	Total Survey Corr:		BRN From Survey:	**#VALUE!**
Rig:	**DUKE RIG # 9**	Date Printed:		BRN From Bit:	**#DIV/0!**

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Dist (ft)	Closure Ang (°)	DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')
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TARGET

TVD	
VS	**0.00**
N/S	**47.98 N**
E/W	**2127.40 W**

Inc. Needed	Direction Needed	Dist To Target
-82.08	271.3	2127.05
-78.07	271.2	2125.84
-70.33	271.1	2123.11
-66.65	271.1	2121.61
-63.23	271.1	2119.26
-60.01	271.1	2117.31
-57.01	271.1	2116.59
-54.17	271.1	2115.95
-51.54	271.1	2116.07
-49.86	271.1	2116.42
-48.95	271.1	2116.29
-46.68	271.1	2116.22
-44.56	271.2	2116.79
-42.57	271.2	2117.46
-40.71	271.3	2118.04
-38.98	271.3	2118.32
-37.37	271.3	2118.29
-35.85	271.4	2118.04
-34.43	271.4	2117.52
-33.10	271.5	2116.71
-31.86	271.6	2115.60
-30.70	271.6	2114.19
-30.14	271.7	2113.62
-29.62	271.7	2113.45
-28.32	271.8	2114.24
-27.69	271.8	2115.14
-26.83	271.8	2116.97
-26.01	271.8	2119.31
-25.24	271.9	2121.34
-24.67	271.9	2122.32
-24.45	271.9	2122.61
-24.31	271.9	2122.53
-24.15	271.9	2121.50
-23.99	271.9	2118.97
-23.80	271.9	2114.50
-23.60	271.9	2108.00
-23.38	271.8	2099.27
-23.15	271.8	2088.41
-22.89	271.7	2074.82
-22.62	271.7	2059.18

TARGET

TVD	
VS	**0.00**
N/S	**47.98 N**
E/W	**2127.40 W**

Inc. Needed	Direction Needed	Dist To Target
-22.34	271.6	2041.71
-22.06	271.5	2023.11
-21.76	271.5	2002.86
-21.47	271.4	1981.72
-21.17	271.4	1958.43
-20.85	271.4	1933.90
-20.53	271.4	1908.42
-20.21	271.4	1881.47
-19.88	271.4	1854.15
-19.56	271.4	1827.43
-19.31	271.4	1806.63
-18.91	271.4	1772.67
-18.58	271.4	1744.45
-18.25	271.3	1716.38
-17.92	271.4	1686.52
-17.60	271.4	1656.85
-16.94	271.4	1595.00
-16.61	271.4	1563.18
-16.29	271.4	1532.28
-15.97	271.4	1500.36
-15.65	271.4	1469.41
-15.33	271.4	1438.46
-15.00	271.4	1406.54
-14.68	271.3	1375.63
-14.36	271.3	1344.71
-14.02	271.3	1312.79
-13.69	271.3	1280.86
-13.29	271.3	1242.91
-12.96	271.3	1210.93
-12.66	271.3	1181.93
-12.34	271.3	1150.93
-12.01	271.3	1119.94
-11.69	271.3	1088.94
-11.36	271.3	1056.94
-11.04	271.3	1025.95
-10.71	271.3	994.96
-10.38	271.3	962.96
-10.05	271.3	931.97
-9.72	271.3	900.98
-9.39	271.3	869.00
-9.24	271.4	855.01

TARGET

TVD	
VS	**0.00**
N/S	**47.98 N**
E/W	**2127.40 W**

Inc. Needed	Direction Needed	Dist To Target
-8.90	271.4	823.02
-8.57	271.4	792.03
-8.23	271.5	760.04
-7.90	271.6	729.07
-7.55	271.7	697.11
-7.22	271.9	666.16
-6.52	272.2	601.28
-5.85	272.7	538.50
-5.51	273.1	507.68
-5.17	273.5	475.93

WellView

Daily Activity and Cost Summary

Well Name: GOERING JACOB M3H

API/UWI	Lease Line Legal Desc	Field Name	License #	State/Province KANSAS	Well Configuration Type
Original KB Elevation (ft) 3,062.00	KB-Tubing Head Distance (ft)	Original Spud Date	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB)

Rpt #	Start Date	End Date	Day Total (Cost)	Cum To Date (Cost)	Summary	Last Mod By
3.0	10/17/2018	10/18/2018	21,275.00	262,789.00	Drill actual to 1820' CTCH Wiper trip to GL CTCH TOOH and LD BHA Rig up casing crew Run 9 5/8 36# LTC J-55 to 1810' CTCH and RU Basic Surface Cement: (Spacer) 20bbls FW; (Lead): 390sx, 12.1 #/gal, 2.41 cf/sk ""A-Con Blend"" 2% Gypsum, 2% NAMS, 3% CaCl, 1/2 #/sk Celloflake, w/130% excess followed by (Tail): 135sx Class C Premium Plus 14.8 #/gal, 1.35 cf/sk with 2% CaCl, #1/2sk Celloflake w/0% excess. Land plug at 10:15 am 10/18/18. Circ 50 bbls to the pit. (525 sx total) NU BOP MU BHA: 8 3/4 MDSI613, 6-16's 6 1/2 7/8 5.0 Slick 1.83 FBH .29 RPG 6 3/4 UBHO XOver 4 1/2 IF X 4 1/2 XH 2-6 3/4 NMDC 6 1/2 Gap Sub 6 1/2 NMDC XOver 4 1/2 XH X 4 1/2 IF 12-6 1/4 DC 6 1/2 Drilling jars 5-6 1/4 DC 51- 4" HWDP 27# 4 1/2 DP TIH and surface test Dir tools, pulse tool not working. Go off EM only Psi test BOP to 600# Drill out cement shoe and start Production Drill actual to 1920'	Duke9
4.0	10/18/2018	10/19/2018	21,275.00	284,064.00	Drill actual to 3004' Displce well	Duke9
5.0	10/19/2018	10/20/2018	21,275.00	305,339.00	Drilling actual to 3295' CTCH TOOH and found motor was to loose Swap out with another SSS100 1.83 bend and re scribe TIH and drill actual to 3628'	Duke9
6.0	10/20/2018	10/21/2018	21,275.00	326,614.00	Drill actual to 4005' CTCH Wiper trip to 3200' Drill actual to 4620'	rogonzal

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Rpt #	Start Date	End Date	Day Total (Cost)	Cum To Date (Cost)	Summary	Last Mod By
17.0	10/31/2018	11/1/2018	193,204.00	839,165.00	Finish TIH to TD CTCH TOOH and LDDP and BHA LD kelly, RH/MH RU casing crew Run 5 1/2 J-55 BTC to 6733' PBTD-6687' KLX Toe Sleeve-6675' We CTCH before going into curve CTCH and thin mud RU Basic. Cement: Production Cement: (Spacer) 5bbls FW, 35bbls Super Flush II & 5bbls of FW followed by (Single Slurry): 510 sx 13.8#/gal, 1.49 cf/sk Class H, 10% NaCl, 5% gypsum, 1/4# defoamer, 5# Gilsonite, 0.2% WCA-1, 0.8% C-17 w/30% excess. 50sx RH/MH, (560sx total) Displace with fresh water and 10 bbl sugar water for KLX IPA Toe sleeve. Land plug with 1000#. Plug down at 20:45pm 11/1/18. Jet cellar, ND BOP, set slips, and clean pits Rig release at 2:45am 11/2/18.	dcoats
18.0	11/6/2018	11/6/2018	12,050.00	851,215.00	Move in a Welder and Weld a 5000#M well head, w/ 5000 # valves. Rigged up pioneer Wire Line and Run CBL. Rig down the Wire line. and Rigged up Chaosland press truck. press up the well to 3000# and start the process. to open the Toe Sleeve 250 psi all time. to 4900 psi. Toe Sleeve Didn't open. try press up and bleed press off several time , Toe Sleeve Didn't open. Rig down the Chaosland Press truck. Wait on Rig. Move a Ricks Well Service Rig to Loc. Filled up the JSA. Rig up the unit. ND the 5000# Frac valve. NU 3000# BOP. Prepared for tbg. pick up 2 7/8 tbg off the trailer. TIHW CF AS-1 10000K PKR. 146 jts 2 7/8 set the PKR @ 4724' SWIFN &SDFD	stevek
19.0	11/7/2018	11/8/2018	6,000.00	857,215.00	crew drove to loc, filled up JSA, rigged up choasland pump truck hook up down the tbg and tbg it was full of water, pressure tbg to 5300 psi and open the TOE SLEEVE, pumped 15 bbls 4 % kcl with 2000 psi, bleed pressure off and had problems to release PKR, trip out of the hole and lay down 146 jnts 2.7/8" tbg on the groun and lay down PKR,Left safety sleeve from packer in hole. nipple down manual bop and rigged up frac valve.run in hole with RBP with 5 jts and seat RBP @ 162' j-off and trip out the hole, rigged up choasland pump truck and load casing with 3.8 bbls press test frac valve to 4500 psi and the frac valve leaked, take off frac valve wait for another valve, nipple up and rigged up pump truck and pressure test valve to 4700 psi and held good for 30 min, go back in the hole with 5 jnts and latch on RBP release it trip out the hole and lay down RBP, chaosland hook up on back side load csg with 35 bbls and pumed 30 bbls with 2000 psi 3.3 Bpm, rigged unit down, clean loc, moved rig out, SDFN, Crew travel, no accidents...	stevek

MERIT ENERGY COMPANY

Job Daily Summary- State Report

Support Line: 972-628-1700 #1
Report Date:
Report #

Well Name: GOERING JACOB M3H

Accounting ID	Original Spud Date	Operator	SAP API Number	Lease	Unit Name
30976-01		MERIT ENERGY COMPANY	150812218300	Unassigned	GOERING JACOB M3H
Working Interest	**Original KB Elevation (ft)**	**SAP Latitude**	**SAP Longitude**	**Total Depth**	**KB Adjustment (ft)**
100.0000	3,062.00				12.00
Field Name	**County**	**State/Province**	**Field Office**	**Accounting Group**	**Producing Status**
Eubank North	HASKELL	KANSAS	SUBLETTE	Haskell - APC16	Producing Oil

Daily Operations

Report Start Date	Primary Activity	Last Mod By
11/8/2018		stevek

Frac 1st stage.
Total load 3576 bbls
Total 30/50 flowpro 150,227 lbs
Total N2 5,055,000 SCF
Average rate 80 bbl/min
Max rate 84 bbl/min
Average pressure 2736 psi
Max pressure 2988 psi
ISIP 1407 psi
5- 1245psi
10- 1166 psi
15- 1118 psi

Daily Operations

Report Start Date	Primary Activity	Last Mod By
11/8/2018		stevek

RD E-Line
Frac 2nd stage
Total load 2547 bbls
Total 30/50 Flopro 150,102 lbs
Total N2 5,950,000 scf
Average rate 80 bbl/min
Max rate 86 bbl/min
Average pressure 3093 psi
Max pressure 4075 psi
ISIP 2692 psi
5- 2569 psi
10- 2500 psi
15- 2445 psi
RDMO Gore