

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 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
--	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	MAE 2-10
Doc ID	1408148

All Electric Logs Run

ANULAR HOLE VOLUME LOG 5 CASING
ARRAY COMPENSATED TRUE RESISTIVITY LOG 1
ARRAY COMPENSATED TRUE RESISTIVITY LOG 2
ARRAY COMPENSATED TRUE RESISTIVITY LOG 5
ARRAY RESISTIVITY SPECTRAL DENSITY DUAL SPACED NEUTRON SONIC QUAD COMBO LOG
BOREHOLE COMPENSATED SONIC ARRAY LOG
MICROLOG
SPECTRAL DENSITY DUAL SPACED NEUTRON LOG

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	MAE 2-10
Doc ID	1408148

Tops

Name	Top	Datum
STONE CORRAL	1844	
HUTCHINSON SALT	2323	
CHASE	2544	
COUNCIL GROVE	2828	
HEEBNER	3910	
TORONTO	3927	
LANSING	3958	
LANSING F	4148	
LANSING G	4199	
SWOPE	4346	
HERTHA	4380	
MARMATON GROUP	4502	
ALTAMONT	4522	
PAWNEE	4583	
CHEROKEE	4630	
ATOKA	4741	
MORROW	4837	
CHESTER	4919	
ST GENEVIEVE	5029	
SPERGEN	5237	

Company: **MERIT ENERGY CO.**
 Field: **1st run**
 County: _____
 Well Name: **Mae 2-10**
 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		Closure		DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')
									N/S (ft)	E/W (ft)	Dist (ft)	Ang (°)			
0	TIE-ON	0	0	0	N 0.00 E		0.00	0.00	0.00	0.00					
1	INC	378	0.9	304.8	N 55.20 W	378	377.98	1.69	1.69 N	2.44 W	2.97	304.80	0.24	0.24	-14.60
2	INC	774	0.7	320.8	N 39.20 W	396	773.95	5.34	5.34 N	6.52 W	8.43	309.34	0.08	-0.05	4.04
3	MWD	977	0.5	359	N 1.00 W	203	976.94	7.19	7.19 N	7.32 W	10.26	314.49	0.21	-0.10	18.82
4	MWD	1044	1.1	133.8	S 46.20 E	67	1043.93	7.04	7.04 N	6.86 W	9.83	315.73	2.23	0.90	-336.12
5	MWD	1200	0.8	280.8	N 79.20 W	156	1199.92	6.21	6.21 N	6.85 W	9.24	312.17	1.17	-0.19	94.23
6	MWD	1358	0.7	282.8	N 77.20 W	158	1357.91	6.63	6.63 N	8.87 W	11.07	306.75	0.07	-0.06	1.27
7	MWD	1548	1.8	134.8	S 45.20 E	190	1547.88	4.78	4.78 N	7.89 W	9.22	301.21	1.27	0.58	-77.89
8	MWD	1706	1.1	289.8	N 70.20 W	158	1705.86	3.54	3.54 N	7.55 W	8.34	295.14	1.79	-0.44	98.10
9	MWD	1849	1.8	271.04	N 88.96 W	143	1848.82	4.05	4.05 N	11.09 W	11.81	290.06	0.59	0.49	-13.12
10	MWD	1913	1.4	264.4	S 84.40 W	64	1912.79	3.99	3.99 N	12.87 W	13.48	287.23	0.69	-0.63	-10.38
11	MWD	1977	2.1	267.1	S 87.10 W	64	1976.76	3.86	3.86 N	14.82 W	15.32	284.58	1.10	1.09	4.22
12	MWD	2040	3.7	269.8	S 89.80 W	63	2039.68	3.79	3.79 N	18.01 W	18.40	281.89	2.55	2.54	4.29
13	MWD	2102	4.6	271.9	N 88.10 W	62	2101.52	3.87	3.87 N	22.50 W	22.82	279.75	1.47	1.45	3.39
14	MWD	2164	5.8	273.3	N 86.70 W	62	2163.26	4.13	4.13 N	28.11 W	28.41	278.36	1.95	1.94	2.26
15	MWD	2227	6	264.8	S 84.80 W	63	2225.93	4.01	4.01 N	34.56 W	34.80	276.62	1.42	0.32	-13.49
16	MWD	2290	5.5	254.1	S 74.10 W	63	2288.61	2.89	2.89 N	40.75 W	40.85	274.06	1.87	-0.79	-16.98
17	MWD	2354	5.7	245.1	S 65.10 W	64	2352.31	0.71	0.71 N	46.58 W	46.59	270.87	1.41	0.31	-14.06
18	MWD	2416	5.2	250.5	S 70.50 W	62	2414.03	-1.52	1.52 S	52.02 W	52.04	268.32	1.15	-0.81	8.71
19	MWD	2480	5.5	252.7	S 72.70 W	64	2477.75	-3.40	3.40 S	57.68 W	57.78	266.62	0.57	0.47	3.44
20	MWD	2543	6.8	257.1	S 77.10 W	63	2540.38	-5.13	5.13 S	64.20 W	64.41	265.43	2.19	2.06	6.98
21	MWD	2607	8.6	253	S 73.00 W	64	2603.81	-7.38	7.38 S	72.47 W	72.85	264.19	2.94	2.81	-6.41
22	MWD	2668	9.7	253.5	S 73.50 W	61	2664.03	-10.17	10.17 S	81.76 W	82.39	262.91	1.81	1.80	0.82
23	MWD	2731	11.6	255.4	S 75.40 W	63	2725.94	-13.28	13.28 S	92.98 W	93.92	261.87	3.07	3.02	3.02
24	MWD	2824	13.4	257.4	S 77.40 W	93	2816.73	-17.99	17.99 S	112.55 W	113.98	260.92	1.99	1.94	2.15
25	MWD	2918	12.9	256.7	S 76.70 W	94	2908.27	-22.78	22.78 S	133.39 W	135.32	260.31	0.56	-0.53	-0.74
26	MWD	3012	12.3	257.4	S 77.40 W	94	3000.00	-27.37	27.37 S	153.37 W	155.80	259.88	0.66	-0.64	0.74
27	MWD	3104	12.8	260.64	S 80.64 W	92	3089.81	-31.17	31.17 S	172.99 W	175.78	259.79	0.94	0.54	3.52
28	MWD	3198	12.3	262.2	S 82.20 W	94	3181.56	-34.22	34.22 S	193.19 W	196.19	259.95	0.64	-0.53	1.66
29	MWD	3292	12.8	260.1	S 80.10 W	94	3273.31	-37.37	37.37 S	213.36 W	216.61	260.07	0.72	0.53	-2.23
30	MWD	3385	12	260.6	S 80.60 W	93	3364.14	-40.72	40.72 S	233.05 W	236.58	260.09	0.87	-0.86	0.54
31	MWD	3480	12.7	260.9	S 80.90 W	95	3456.95	-43.98	43.98 S	253.10 W	256.90	260.14	0.74	0.74	0.32
32	MWD	3575	11.5	256.8	S 76.80 W	95	3549.83	-47.80	47.80 S	272.64 W	276.80	260.06	1.55	-1.26	-4.32
33	MWD	3637	11.3	255.8	S 75.80 W	62	3610.61	-50.70	50.70 S	284.54 W	289.02	259.90	0.45	-0.32	-1.61
34	MWD	3700	10.7	257.8	S 77.80 W	63	3672.45	-53.45	53.45 S	296.24 W	301.03	259.77	1.13	-0.95	3.17
35	MWD	3764	9.2	259.7	S 79.70 W	64	3735.49	-55.62	55.62 S	307.08 W	312.08	259.73	2.40	-2.34	2.97
36	MWD	3826	8	258.8	S 78.80 W	62	3796.79	-57.35	57.35 S	316.19 W	321.35	259.72	1.95	-1.94	-1.45

Company: **MERIT ENERGY CO.**
 Field: **1st run**
 County: _____
 Well Name: **Mae 2-10**
 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		Closure		DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')
									N/S (ft)	E/W (ft)	Dist (ft)	Ang (°)			
37	MWD	3888	7.7	258.6	S 78.60 W	62	3858.21	-59.00	59.00 S	324.50 W	329.82	259.69	0.49	-0.48	-0.32
38	MWD	3951	6.9	258.6	S 78.60 W	63	3920.70	-60.59	60.59 S	332.34 W	337.82	259.67	1.27	-1.27	0.00
39	MWD	4015	6.3	260.2	S 80.20 W	64	3984.27	-61.94	61.94 S	339.57 W	345.18	259.66	0.98	-0.94	2.50
40	MWD	4077	4.7	261.5	S 81.50 W	62	4045.99	-62.90	62.90 S	345.44 W	351.12	259.68	2.59	-2.58	2.10
41	MWD	4140	3.3	256.4	S 76.40 W	63	4108.83	-63.71	63.71 S	349.75 W	355.51	259.68	2.29	-2.22	-8.10
42	MWD	4202	2.3	237	S 57.00 W	62	4170.76	-64.80	64.80 S	352.53 W	358.44	259.58	2.20	-1.61	-31.29
43	MWD	4266	2.4	222.1	S 42.10 W	64	4234.71	-66.50	66.50 S	354.51 W	360.69	259.38	0.96	0.16	-23.28
44	MWD	4360	2.3	226.4	S 46.40 W	94	4328.63	-69.26	69.26 S	357.19 W	363.84	259.03	0.22	-0.11	4.57
45	MWD	4455	1.2	222.6	S 42.60 W	95	4423.58	-71.31	71.31 S	359.25 W	366.25	258.77	1.16	-1.16	-4.00
46	MWD	4550	1.2	231.64	S 51.64 W	95	4518.56	-72.66	72.66 S	360.70 W	367.94	258.61	0.20	0.00	9.52
47	MWD	4643	1.2	227.74	S 47.74 W	93	4611.54	-73.91	73.91 S	362.18 W	369.65	258.47	0.09	0.00	-4.19
48	MWD	4738	1.1	218.7	S 38.70 W	95	4706.52	-75.29	75.29 S	363.49 W	371.21	258.30	0.22	-0.11	-9.52
49	MWD	4853	1	239.9	S 59.90 W	115	4821.50	-76.66	76.66 S	365.05 W	373.01	258.14	0.35	-0.09	18.43
50	MWD	4926	1	228.84	S 48.84 W	73	4894.49	-77.40	77.40 S	366.08 W	374.17	258.06	0.26	0.00	-15.15
51	MWD	5020	0.9	277.5	N 82.50 W	94	4988.48	-77.84	77.84 S	367.43 W	375.58	258.04	0.84	-0.11	51.77
52	MWD	5114	0.8	281.5	N 78.50 W	94	5082.47	-77.61	77.61 S	368.80 W	376.88	258.12	0.12	-0.11	4.26
53	MWD	5196	0.3	254.2	S 74.20 W	82	5164.47	-77.56	77.56 S	369.57 W	377.62	258.15	0.67	-0.61	-33.29
54	MWD														
55	MWD														
56	MWD														
57	MWD														
58	MWD														
59	MWD														
60	MWD														
61	MWD														
62	MWD														
63	MWD														
64	MWD														
65	MWD														
66	MWD														
67	MWD														
68	MWD														
69	MWD														
70	MWD														
71	MWD														
72	MWD														

##

	TARGET
TVD	
VS	0.00
N/S	0.00 N
E/W	0.00 E

Inc. Needed	Direction Needed	Dist To Target
-------------	------------------	----------------

-0.45	124.8	2.97
-0.62	129.3	8.43
-0.60	134.5	10.26
-0.54	135.7	9.83
-0.44	132.2	9.24
-0.47	126.7	11.07
-0.34	121.2	9.22
-0.28	115.1	8.34
-0.37	110.1	11.81
-0.40	107.2	13.48
-0.44	104.6	15.32
-0.52	101.9	18.40
-0.62	99.8	22.82
-0.75	98.4	28.41
-0.90	96.6	34.80
-1.02	94.1	40.85
-1.13	90.9	46.59
-1.24	88.3	52.04
-1.34	86.6	57.78
-1.45	85.4	64.41
-1.60	84.2	72.85
-1.77	82.9	82.39
-1.97	81.9	93.92
-2.32	80.9	113.98
-2.66	80.3	135.32
-2.97	79.9	155.80
-3.26	79.8	175.78
-3.53	80.0	196.19
-3.79	80.1	216.61
-4.02	80.1	236.58
-4.25	80.1	256.90
-4.46	80.1	276.80
-4.58	79.9	289.02
-4.69	79.8	301.03
-4.78	79.7	312.08
-4.84	79.7	321.35

FIELD TICKET

Client **MERIT ENERGY COMPANY**

Well **Mae 2-10**

Job Description **Surface**

Date **January 05, 2018**



Field Ticket # **FT-02441-R3R9Y50202-63382**

MATERIALS

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
L488168	CEMENT, ASTM TYPE I	SK	660.0000	\$44.11	\$29,112.60	76.00	\$6,987.03
L100404	SALT,SODIUM CHLORIDE, A-5	LB	1,190.0000	\$1.04	\$1,237.60	76.00	\$297.03
L015399	Float collars with poppet valve, 8-5/8 in.	EA	1.0000	\$0.00	\$0.00	76.00	\$0.00
L100120	EXTENDER, BENTONITE	LB	1,824.0000	\$2.08	\$3,793.92	76.00	\$910.55
L100318	CEMENT EXTENDER, GYPSUM, A-10	LB	912.0000	\$0.72	\$656.64	76.00	\$157.60
L100275	CEMENT EXTENDER, SODIUM METASILICATE, A-2	LB	912.0000	\$3.28	\$2,991.36	76.00	\$717.93
L100112	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	LB	1,697.0000	\$2.40	\$4,072.80	76.00	\$977.48
L100295	Integraseal CELLO	LB	330.0000	\$5.76	\$1,900.80	76.00	\$456.20
L013156	Cement Nose, 8-5/8 in.	EA	1.0000	\$460.00	\$460.00	76.00	\$110.40
L017068	CENTRALIZER,8-5/8"NON-WELD	EA	10.0000	\$246.40	\$2,464.00	76.00	\$591.36
L016033	Float Collars with aluminum flapper, 8-5/8 in.	EA	1.0000	\$1,214.00	\$1,214.00	76.00	\$291.36
L86718	PLUG,CEMENT 8.6 TOP BIPL	EA	1.0000	\$287.04	\$287.04	76.00	\$68.89
L499632	RETARDER, SUGAR, GRANULAR	LB	50.0000	\$4.16	\$208.00	76.00	\$49.92
Product Material Subtotal:					\$48,398.76		\$11,615.75

SERVICES

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
S-100004	Cement Crew Mobilization-Demobilization Fee	EA	1.00	\$10,880.00	\$10,880.00	91.00	\$979.200
S-100475	Cement head	EA	1.00	\$2,656.00	\$2,656.000	91.00	\$239.040
S-100049	Cement pump charge, 1,001-2,000 feet/ 301-600 m	4/HR	1.00	\$4,680.00	\$4,680.000	91.00	\$421.200

Cementing Treatment



Well Circulated By	Rig	Solids Present at End of Circulation	No
Circulation Prior to Job	Yes	10 sec SGS	
Circulation Time (min)		10 min SGS	
Circulation Rate (bpm)		30 min SGS	
Circulation Volume (bbbls)		Flare Prior to/during the Cement Job	No
Lost Circulation Prior to Cement Job	No	Gas Present	No
Mud Density In (ppg)		Gas Units	
Mud Density Out (ppg)			
PV Mud In			
PV Mud Out			
YP Mud In			
YP Mud Out			

TEMPERATURE

Ambient Temperature (°F)	20.00	Slurry Cement Temperature (°F)	70.00
Mix Water Temperature (°F)	50.00	Flow Line Temperature (°F)	

BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Vol (sk)	Vol (Cu Ft)	Vol (bbbls)
Lead Slurry	Multi Density Cement	12.1000	2.5410	14.71	485	1,224.0000	217.8000
Tail Slurry	Class A Cement	15.2000	1.2692	5.74	175	222.0000	39.4000
Displacement Final	Displacement	8.3400				0.0000	111.3000

Fluid Type	Fluid Name	Component	Concentration	UOM
Lead Slurry	Multi Density Cement	EXTENDER, BENTONITE	4.00	BWOB

Cementing Treatment



Lead Slurry	Multi Density Cement	CEMENT EXTENDER, SODIUM METASILICATE, A-2	2.00	BWOB
Lead Slurry	Multi Density Cement	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A- 7P, PELLETS	3.00	BWOB
Lead Slurry	Multi Density Cement	CEMENT, ASTM TYPE 1	100.00	PCT
Lead Slurry	Multi Density Cement	CEMENT EXTENDER, GYPSUM, A-10	2.00	BWOB
Lead Slurry	Multi Density Cement	SALT,SODIUM CHLORIDE, A-5	2.00	BWOW
Lead Slurry	Multi Density Cement	Integraseal CELLO	0.50	LBS/SK
Tail Slurry	Class A Cement	CEMENT, ASTM TYPE 1	100.00	PCT
Tail Slurry	Class A Cement	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A- 7P, PELLETS	2.00	BWOB
Tail Slurry	Class A Cement	Integraseal CELLO	0.50	LBS/SK

TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
	Multi Density Cement	5.00	217.80			
	Class A Cement	5.00	39.40			
	Displacement	5.00	111.30			

	Min	Max	AVG
Pressure (psi)	0.00	1,500.00	200.00
Rate (bpm)	3.00	7.00	6.00

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	50.00
Calculated Displacement Volume (bbbls)	111.00	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbbls)	111.00	Amount of Spacer to Surface	

Cementing Treatment



Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	Yes	Amount Bled Back After Job	0.50
Bump Plug Pressure (psi)	900.00	Total Volume Pumped (bbls)	379.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	Yes
Cement returns During Job	Full	Lost Circulation During Cement Job	No

CEMENT PLUG

Bottom of Cement Plug?	No	Wiper Balls Used?	No
Wiper Ball Quantity		Plug Catcher	No
Number of Plugs			

SQUEEZE

Injection Rate (bpm)		Fluid Density (ppg)	
Injection Pressure (psi)		ISIP (psi)	
Type of Squeeze		FSIP (psi)	
Operators Max SQ Pressure (psi)			

COMMENTS

Treatment Report

10bbls of water spacer
219bbls of lead cement
39bbls of tail cement
111bbls of water displacement

Job Summary

Drive to location, spot trucks, rig up to rig
safety meeting, pressure test lines to 1500psi
pump 10bbls of water spacer
pump 219bbls of lead cement from 485sacks @12.1lbs
pump 39bbls of tail cement from 175sacks @15.2lbs
Drop plug/wash pump on top of plug
Displacement of 111bbls of water
Bump plug/check if float holds

FIELD TICKET

Client MERIT ENERGY COMPANY

Well Mae 2-10

Job Description Long String

Date January 11, 2018



Field Ticket # FT-02566-W0D9C50203-65374

MATERIALS

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
L100120	EXTENDER, BENTONITE	LB	489.0000	\$2.08	\$1,017.12	78.00	\$223.77
20000018	CFL-210	LB	123.0000	\$22.72	\$2,794.56	78.00	\$614.80
L100295	IntegraSeal CELLO	LB	65.0000	\$5.76	\$374.40	78.00	\$82.37
L100318	CEMENT EXTENDER, GYPSUM, A-10	LB	1,467.0000	\$0.72	\$1,056.24	78.00	\$232.37
L101196	Foam Preventer, FP-25	LB	49.0000	\$14.52	\$711.48	78.00	\$156.53
L415082	IntegraSeal KOL	LB	1,300.0000	\$1.20	\$1,560.00	78.00	\$343.20
L488168	CEMENT, ASTM TYPE 1	SK	260.0000	\$44.11	\$11,468.60	78.00	\$2,523.09
L100404	SALT,SODIUM CHLORIDE, A-5	LB	2,067.0000	\$1.04	\$2,149.68	78.00	\$472.93
L013152	Cement Nose, 5-1/2 in.	EA	1.0000	\$561.00	\$561.00	78.00	\$123.42
L017064	CENTRALIZER,5-1/2"NON-WELD	EA	20.0000	\$193.05	\$3,861.00	78.00	\$849.42
L015395	FLOAT COLLAR,CEM,5-1/2"K55	EA	1.0000	\$1,243.00	\$1,243.00	78.00	\$273.46
L488735	IntegraGuard BOND IIA Concentrate	GAL	5.0000	\$159.60	\$798.00	78.00	\$175.56
L86710	PLUG,CEMENT 5.5 TOP BIPL	EA	1.0000	\$1,026.48	\$1,026.48	78.00	\$225.83
Product Material Subtotal:					\$28,621.56		\$6,296.75

SERVICES

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
S-100004	Cement Crew Mobilization-Demobilization Fee	EA	1.00	\$10,880.00	\$10,880.000	92.00	\$870.400
S-100475	Cement head	EA	1.00	\$2,656.00	\$2,656.000	92.00	\$212.480
S-100052	Cement pump charge, 4,001-5,000 feet/1,201-1,500 m	6/HR	1.00	\$6,192.00	\$6,192.000	92.00	\$495.360
S-100001	Mileage - vehicle heavy weight	MI	50.00	\$18.96	\$948.000	92.00	\$75.840
S-100002	Mileage - vehicle light	MI	50.00	\$10.72	\$536.000	92.00	\$42.880

Cementing Treatment



Well Circulated By Rig Solids Present at End of Circulation No
 Circulation Prior to Job Yes 10 sec SGS
 Circulation Time (min) 30.00 10 min SGS
 Circulation Rate (bpm) 6.00 30 min SGS
 Circulation Volume (bbbls) Flare Prior to/during the Cement Job No
 Lost Circulation Prior to Cement No Gas Present No
 Job Gas Present No
 Mud Density In (ppg) Gas Units
 Mud Density Out (ppg)
 PV Mud In
 PV Mud Out
 YP Mud In
 YP Mud Out

TEMPERATURE

Ambient Temperature (°F) 50.00 Slurry Cement Temperature (°F) 61.00
 Mix Water Temperature (°F) 60.00 Flow Line Temperature (°F) 62.00

BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Vol (sk)	Vol (Cu Ft)	Vol (bbbls)
Spacer / Pre Flush / Flush	UltraFlush	8.4000					12.0000
Displacement Final	Displacement	8.3400				0.0000	119.9000

Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	UltraFlush	IntegraGuard ULTRA II	100.00	PCT

TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
	UltraFlush	0.00	12.00			
	Displacement	0.00	119.90			

	Min	Max	Avg
Pressure (psi)	0.00	2,100.00	500.00
Rate (bpm)	2.00	7.50	6.50

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	0.00
Calculated Displacement Volume (bbls)	120.66	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	120.66	Amount of Spacer to Surface	0.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	Yes	Amount Bled Back After Job	0.50
Bump Plug Pressure (psi)	1,700.00	Total Volume Pumped (bbls)	221.00
Were Returns Planned at Surface	No	Top Out Cement Spotted	No
Cement returns During Job	None	Lost Circulation During Cement Job	No

CEMENT PLUG

Bottom of Cement Plug?	No	Wiper Balls Used?	No
Wiper Ball Quantity		Plug Catcher	No
Number of Plugs			

SQUEEZE

Injection Rate (bpm)		Fluid Density (ppg)	
Injection Pressure (psi)		ISIP (psi)	
Type of Squeeze		FSIP (psi)	

Operators Max SQ Pressure (psi)

COMMENTS

Treatment Report

Job Summary

pressure test lines to 2100PSI
plug RAT/MOUSE hole
12bbbl HIVIS SWEEP
72bbbl Tail cement @ 13.60#
shut down
wash up to the pit
drop plug
120bbbl displacement with KCL water
landed plug @ 1700PSI with final circulation pressure @ 1200PSI
Set @ 5243'
RH cement - 50sx