

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](mailto: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	Merit Energy Company, LLC
Well Name	HMU 207W
Doc ID	1405864

All Electric Logs Run

ANNULAR 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



# Cementing Treatment



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

## TEMPERATURE

<b>Ambient Temperature (°F)</b>	<b>Slurry Cement Temperature (°F)</b>
<b>Mix Water Temperature (°F)</b>	<b>Flow Line Temperature (°F)</b>

## BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Lead Slurry	Multi Density Cement	12.1000	2.5410	14.71	503	1,285.0000	228.8000
Tail Slurry	Class A Cement	15.2000	1.2692	5.74	175	222.0000	39.4000
Displacement Final	Displacement	8.3400				0.0000	115.5000

Fluid Type	Fluid Name	Component	Concentration	UOM
Lead Slurry	Multi Density Cement	CEMENT, ASTM TYPE I	100.00	PCT
Lead Slurry	Multi Density Cement	CEMENT EXTENDER, GYPSUM, A-10	2.00	BWOB

# Cementing Treatment



Lead Slurry	Multi Density Cement	CEMENT EXTENDER, SODIUM METASILICATE, A-2	2.00 BWOB
Lead Slurry	Multi Density Cement	EXTENDER, BENTONITE	4.00 BWOB
Lead Slurry	Multi Density Cement	SALT,SODIUM CHLORIDE, A-5	2.00 BWOB
Lead Slurry	Multi Density Cement	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A- 7P, PELLETS	3.00 BWOB
Lead Slurry	Multi Density Cement	IntegraSeal CELLO	0.50 LBS/SK
Tail Slurry	Class A Cement	IntegraSeal CELLO	0.50 LBS/SK
Tail Slurry	Class A Cement	CEMENT, ASTM TYPE I	100.00 PCT
Tail Slurry	Class A Cement	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A- 7P, PELLETS	2.00 BWOB

## TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
	Multi Density Cement	0.00	228.80			
	Class A Cement	0.00	39.40			
	Displacement	0.00	115.50			

	Min	Max	Avg
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Pressure (psi)

Rate (bpm)

## DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	Amount of Cement Returned/Reversed
Calculated Displacement Volume (bbls)	Method Used to Verify Returns
Actual Displacement Volume (bbls)	Amount of Spacer to Surface
Did Float Hold? Yes	Pressure Left on Casing (psi)
Bump Plug No	Amount Bled Back After Job

# Cementing Treatment



<b>Bump Plug Pressure (psi)</b>		<b>Total Volume Pumped (bbbls)</b>	
<b>Were Returned Planned at Surface</b>	No	<b>Top Out Cement Spotted</b>	No
<b>Cement returns During Job</b>		<b>Lost Circulation During Cement Job</b>	No

## CEMENT PLUG

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<b>Bottom of Cement Plug?</b>	No	<b>Wiper Balls Used?</b>	No
<b>Wiper Ball Quantity</b>		<b>Plug Catcher</b>	No
<b>Number of Plugs</b>			

## SQUEEZE

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

## COMMENTS

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Surface String Cement: (Spacer) 20 bbbls FW; (lead):  
515 sx, 12.1 # 1 gal, 2.55 cf/sk Class A:  
2% Gypseal, 2% NATMS, 2% NaCl, 4% gel  
3% CaCl; 1/2 # sk Flo-Seal, w/ 130% excess 2.55  
cu ft/sx followed by  
(Tail) 175 sx Class A Common IS. 2 # gal, 1.27  
cf/sx with 3% CaCl; .25 # 1/2 sk Flo-Seal  
w/ 0% excess.  
Casing set @ 1831

### FIELD TICKET

**Client** MERIT ENERGY COMPANY  
**Well** HMU 207W  
**Job Description** Long String  
**Date** December 20, 2017



Field Ticket # FT-02035-MOK1K50202-19483

**MATERIALS**

*Casing Set @ 4991*

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
L100495 <i>404</i>	SALT, Sodium Chloride, Medium	LB	1,795.0000	\$0.57	\$1,023.15	76.00	\$245.56
L100120	EXTENDER, BENTONITE	LB	495.0000	\$2.08	\$1,029.60	76.00	\$247.10
L100294	LOST CIRCULATION, LCM-1	LB	1,405.0000	\$4.00	\$5,620.00	76.00	\$1,348.80
L100295	IntegraSeal CELLO	LB	71.0000	\$5.76	\$408.96	76.00	\$98.15
L100318	CEMENT EXTENDER, GYPSUM, A-10	LB	1,339.0000	\$0.72	\$964.08	76.00	\$231.38
20000002	CD-100	LB	29.0000	\$9.35	\$271.15	76.00	\$65.08
L101196	FP-25, Dry Foam Preventer (BJS Only)	LB	50.0000	\$14.52	\$726.00	76.00	\$174.24
L100317	CEMENT, FLY ASH (POZZOLAN)	SK	86.0000	\$25.68	\$2,208.48	76.00	\$530.04
L398117	IntegraGuard ULTRA II	BBL	24.0000	\$234.85	\$5,636.40	76.00	\$1,352.74
L100022	CEMENT, CLASS H	SK	86.0000	\$50.27	\$4,323.22	76.00	\$1,037.57
20000018	CFL-210	LB	124.0000	\$22.72	\$2,817.28	76.00	\$676.15
L100019	CEMENT, CLASS A	SK	110.0000	\$43.34	\$4,767.40	76.00	\$1,144.18
L017116	Collars and Cement Baskets, 5-1/2 in.	EA	1.0000	\$395.00	\$395.00	76.00	\$94.80
L014007	Float Shoe - circulating diff. type, 5-1/2 in.	EA	1.0000	\$545.00	\$545.00	76.00	\$130.80
L017421	Latch Down Plug & Assembly, 5-1/2 in.	EA	1.0000	\$660.00	\$660.00	76.00	\$158.40
L017348	STAGE TOOL,CEM,5-1/2"N80,8RD-L	EA	1.0000	\$11,495.00	\$11,495.00	76.00	\$2,758.80
1000098	THREAD LOCK, 5-1/2 IN.	EA	6.0000	\$125.00	\$750.00	76.00	\$180.00
<b>Product Material Subtotal:</b>					<b>\$43,640.72</b>		<b>\$10,473.79</b>

**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



## Cementing Treatment



Edgar Rodriguez was at location since 1:00am putting the 2 stage tool  
Arrived at location, spotted trucks, rig up  
Safety meeting, pressure test lines  
pumped 12bbls of HIVIS sweep spacer  
pumped 33bbls of cement from 120sacks at 13.6lbs  
drop plug, start displacement of 114bbls bump plug,  
drop cancelling tool and close dv tool  
pumped 12bbls of HIVIS sweep spacer  
pumped 36.5bbls of cement from 110sacks at 13.6lbs  
drop plug and start displacement of 97bbls  
Bump plug and check floats  
Rat and mouse hole were filled from 50sacks at 13.6lbs/13.8bbls