KOLAR Document ID: 1408766

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: Katherine McClurkan
Phone: (972) 628-1660
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Merit 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 #:

01/11/2018	01/15/2018	02/01/2018
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-081-22169-00-00
Spot Description:
NE - NE - SW - SE Sec. 15 Twp. 28 S. R. 34 ☐ East ☑ West
1283 Feet from ☐ North / ☑ South Line of Section
1557 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: JACQUART Well #: 3
Field Name: Eubank
Producing Formation: Morrow
Elevation: Ground: 3021 Kelly Bushing: 3034
Total Vertical Depth: 5675 Plug Back Total Depth: 5616
Amount of Surface Pipe Set and Cemented at: 1790 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: 2000 ppm Fluid volume: 882 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: 05/10/2018
☐ **Confidential Release Date:** 05/09/2020
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 05/11/2018

Operator Name: Merit Energy Company, LLC Lease Name: JACQUART Well #: 3

Sec. 15 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:

Attached

☐ 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	1740	Class A	645	See Attached
Production	7.875	5.5	17	5660	Class A	245	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: 02/01/2018

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	75				

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
5362	5371
5380	5392

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)*
4	5481	5501	CIBP Cast Iron Bridge Plug	5475	
4	5380	5392			
4	5362	5392			

TUBING RECORD: Size: 2.8750 Set At: 5416 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	JACQUART 3
Doc ID	1408766

Tops

Name	Top	Datum
Hutchunson Salt	2378	
Marmaton	4716	
Checkboard	4877	
Atoka	5140	
Morrow Group	5235	
Chester	5455	
St Genevieve	5510	
St Louis	5608	

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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	1740	Class A	645	See Attached
Production	7.875	5.5	17	5660	Class A	245	See Attached

Cementing Treatment

Surface Cement

Well Circulated By	Rig	**Solids Present at End of Circulation**	No
Circulation Prior to Job	Yes	**10 sec SGS**	
Circulation Time (min)	45.00	**10 min SGS**	
Circulation Rate (bpm)	7.00	**30 min SGS**	
Circulation Volume (bbls)		**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)	7.00	**Slurry Cement Temperature (°F)**	54.00
Mix Water Temperature (°F)	53.00	**Flow Line Temperature (°F)**	55.00

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	2.5793	14.53	475	1,213.0000	215.9000
Tail Slurry	Class A Cement	15.2000	1.2692	5.74	170	213.0000	37.9000
Displacement Final	Displacement	8.3400				0.0000	110.1000

Fluid Type	Fluid Name	Component	Concentration	UOM
Lead Slurry	Multi Density Cement	IntegraSeal KOL	5.0000	LBS/SK
Lead Slurry	Multi Density Cement	EXTENDER, BENTONITE	4.0000	BWOB
Lead Slurry	Multi Density Cement	CEMENT EXTENDER,	2.0000	BWOB

		SODIUM METASILICATE, A-2		
Lead Slurry	Multi Density Cement	SALT,SODIUM CHLORIDE, A-5	2.0000	BWOW
Lead Slurry	Multi Density Cement	IntegraSeal CELLO	0.5000	LBS/SK
Lead Slurry	Multi Density Cement	CEMENT, ASTM TYPE I	100.0000	PCT
Lead Slurry	Multi Density Cement	CEMENT EXTENDER, GYPSUM, A-10	2.0000	BWOB
Lead Slurry	Multi Density Cement	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	3.0000	BWOB
Tail Slurry	Class A Cement	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000	BWOB
Tail Slurry	Class A Cement	CEMENT, ASTM TYPE I	100.0000	PCT
Tail Slurry	Class A Cement	IntegraSeal CELLO	0.5000	LBS/SK

TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
	Multi Density Cement	0.00	215.90			
	Class A Cement	0.00	37.90			
	Displacement	0.00	110.10			

	Min	Max	Avg
Pressure (psi)	0.00	2,800.00	200.00
Rate (bpm)	3.00	8.00	7.00

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	**Amount of Cement Returned/Reversed**	70.00
Calculated Displacement Volume (bbls)	111.39	**Method Used to Verify Returns**	Visual
Actual Displacement Volume (bbls)	111.39	**Amount of Spacer to Surface**	10.00
Did Float Hold?	Yes	**Pressure Left on Casing (psi)**	0.00

Cementing Treatment

Bump Plug	Yes	**Amount Bled Back After Job**	0.50
Bump Plug Pressure (psi)	950.00	**Total Volume Pumped (bbls)**	378.00
Were Returns Planned at Surface	Yes	**Top Out Cement Spotted**	No
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

Surface string Cement:
(Spacer) 20bbls FW;
(Lead): 475sx, 12.1 #/gal, 2.55 cf/sk Class A 2% Gypseal, 2% NAMS, 2% NaCl, 4% gel 3% CaCl; 1/2 #/sk Flo-Seal, w/130% excess 2.55 cu ft/sk followed by
(Tail): 170sx Class A Common 15.2 #/gal, 1.27 cf/sk with 3% CaCl; .25 #1/2sk Flo-seal w/0% excess.
Surfaces Csg set @ 1790'

Job Summary

pressure tested to 2800PSI
10bbl spacer of fresh water
218bbl lead cement @ 12.10#
38bbl tail cement @ 15.20#
shut down
drop plug wash up on top of the plug
111bbl displacement
landed plug @ 950PSI
70bbls of cement circulated to surface

FIELD TICKET

Production Cement
Production Csg
Set @ 5660'

Client	MERIT ENERGY COMPANY
Well	Jacquart 3
Job Description	Long String
Date	January 16, 2018

Field Ticket # FT-02776-K8B6L30202-66733

MATERIALS

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
L100120	EXTENDER, BENTONITE	LB	555.0000	$2.08	$1,154.40	78.00	$253.97
20000018	CFL-210	LB	139.0000	$22.72	$3,158.08	78.00	$694.78
L100295	IntegraSeal CELLO	LB	74.0000	$5.76	$426.24	78.00	$93.78
L100318	CEMENT EXTENDER, GYPSUM, A-10	LB	1,664.0000	$0.72	$1,198.08	78.00	$263.58
L101196	Foam Preventer, FP-25	LB	56.0000	$14.52	$813.12	78.00	$178.89
L398117	IntegraGuard ULTRA II	BBL	12.0000	$234.85	$2,818.20	78.00	$620.01
L415082	IntegraSeal KOL	LB	1,475.0000	$1.20	$1,770.00	78.00	$389.40
L488168	CEMENT, ASTM TYPE I	SK	295.0000	$44.11	$13,012.45	78.00	$2,862.74
L100404	SALT,SODIUM CHLORIDE, A-5	LB	2,345.0000	$1.04	$2,438.80	78.00	$536.54
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
L86710	PLUG,CEMENT 5.5 TOP BJPL	EA	1.0000	$1,026.48	$1,026.48	78.00	$225.83
				Product Material Subtotal:	**$33,480.85**		**$7,365.82**

SERVICES

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
S-100004	Cement Crew Mobilization-Demobilizaton 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-100066	Cement pump charge, Additional Hours	HR	2.00	$2,720.00	$5,440.000	92.00	$435.200
S-100001	Mileage - vehicle heavy weight	MI	50.00	$18.96	$948.000	92.00	$75.840

Cementing Treatment

Job Summary

pressure test lines to 3000PSI
plug RAT/MOUSE hole
12bbl HIVIS SWEEP
84bbl Tail cement @ 13.60#
shut down
wash up pump to the pit
drop the plug
130bbl displacement with KCL water
landed plug @ 1600PSI
floats held good got 1bbl back to the tank

Production string Cement:
(Spacer) 5bbls FW, 12bbls Hi Vis Flush & 5bbls of FW followed by
(Single Slurry): 245 sx class A, 10% NaCl, 6% gypseal 5#/sx Coal Seal, 1/4#/sx Flo-Seal: Slurry wt: 13.6 ppg; yield:1.9 cf/sk. 30% excess

Abbreviation	MD (ft)
T/STNC	1826.94067
B/STNC	1907.8103
HUTCH SALT	2378.74414
HBNR SH	4045.60278
LANS GRP	4143.12012
LNSG F	4303.69336
STRK SH	4537.96289
SWOPE	4553.41748
MRMNT GRP	4716.26514
CHRK GRP	4877.06836
ATKN GRP	5056.2124
ATOKA SH	5140.13281
MRRW GRP	5235.74609
M MRW LM	5281.6875
CHST AZN	5455.63428
CHST BZN	5473.17871
STGN	5510.31055
MRMC	5558.70801
ST LOU C	5608.3374
ST LOU D	5645.46875

MERIT-ENERGY_JACQUART-3_ACRT5
MERIT-ENERGY_JACQUART-3_AHV
MERIT-ENERGY_JACQUART-3_BSAT
MERIT-ENERGY_JACQUART-3_MICROLOG
MERIT-ENERGY_JACQUART-3_POROSITY
MERIT-ENERGY_JACQUART-3_QUAD
Merit Energy -Jacquart 3 Mud Log