KOLAR Document ID: 1412203

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 #	API No.:					
Name:	Spot Description:					
Address 1:						
Address 2:	Feet from North / South Line of Section					
City:	Feet from					
Contact Person:	Footages Calculated from Nearest Outside Section Corner:					
Phone: ()	□NE □NW □SE □SW					
CONTRACTOR: License #	GPS Location: Lat:, Long:, (e.axxx.xxxxx)					
Name:	Datum: NAD27 NAD83 WGS84					
Wellsite Geologist:	County:					
Purchaser:						
Designate Type of Completion:	Lease Name: Well #:					
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:					
☐ Oil ☐ WSW ☐ SWD ☐ Gas ☐ DH ☐ EOR	Producing Formation: Kelly Bushing:					
☐ OG ☐ GSW	Total Vertical Depth: Plug Back Total Depth:					
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet					
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?					
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet					
Operator:	If Alternate II completion, cement circulated from:					
Well Name:	feet depth to: w/ sx cmt.					
Original Comp. Date: Original Total Depth:						
□ Deepening □ Re-perf. □ Conv. to EOR □ Conv. to SWD □ Plug Back □ Liner □ Conv. to GSW □ Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)					
Commission Powert #1	Chloride content:ppm Fluid volume: bbls					
☐ Commingled Permit #: ☐ Dual Completion Permit #:	Dewatering method used:					
SWD Permit #:	Location of fluid disposal if hauled offsite:					
EOR Permit #:	•					
GSW Permit #:	Operator Name:					
	Lease Name: License #:					
Spud Date or Date Reached TD Completion Date or	QuarterSecTwpS. R East West					
Recompletion Date Recompletion Date	Countv: 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 III Approved by: Date:						

KOLAR Document ID: 1412203

Page Two

Operator Name: _				Lease Name:			Well #:		
Sec Twp.	S. R.	E	ast West	County:					
	flowing and shu	ut-in pressures, v	vhether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,	
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.gov	v. Digital electronic log	
Drill Stem Tests Ta			Yes No			on (Top), Depth ar		Sample	
Samples Sent to 0	Geological Surv	/ey	Yes No	Na	me		Тор	Datum	
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No						
		B	CASING eport all strings set-c		New Used	ion, etc.			
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD				
Iop Bottom			ype of Cement	# Sacks Used	sed Type and Percent Additives				
Perforate Protect Casi Plug Back T									
Plug Off Zor									
Did you perform a Does the volume Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,	
Date of first Product Injection:	tion/Injection or R	esumed Production	Producing Meth	nod:	Gas Lift 0	Other (Explain)			
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity	
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			DN INTERVAL: Bottom	
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT	
,	,			B.11 B1					
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid,	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record	
TUBING RECORD:	: Size:	Set	Δ+-	Packer At:					
TODING RECORD:	. 3126.		n.	i donei Al.					

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	KELLS 2
Doc ID	1412203

All Electric Logs Run

7.11 2.13 5.11 5 1 2 3 5 1 tal.
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

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	KELLS 2
Doc ID	1412203

Tops

Name	Тор	Datum
Heebner	4107	
Lansing	4189	
Kansas City	4590	
Marmaton	4731	
Pawnee	4836	
Fort Scott	4874	
Cherokee	4893	
Atoka	5060	
Morrow	5196	
Chester "A"	5331	
Chester "B"	5365	
Chester "C"	5381	
St Genevieve	5382	

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	KELLS 2
Doc ID	1412203

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight		Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	24	1857	Class A	680	See Attached
Production	7.875	5.5	17	5608	Class A	165	See Attached

FIELD TICKET

Client

MERIT ENERGY COMPANY

Well

Kells I-2

Job Description

Surface

Date

February 14, 2018

Field Ticket # FT-03680-C125P00202-69666

MATERIALS

Product Code	Description	NOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
L100112	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	LB	1,754.0000	\$2.40	\$4,209.60	76.00	\$1,010.30
L100318	CEMENT EXTENDER, GYPSUM, A-10	LB	950.0000	\$0.72	\$684.00	76.00	\$164.16
L100275	CEMENT EXTENDER, SODIUM METASILICATE, A-2	LB	950.0000	\$3.28	\$3,116.00	76.00	\$747.84
L013156	Cement Nose, 8-5/8 in.	EA	1.0000	\$460.00	\$460.00	76.00	\$110.40
L488168	CEMENT, ASTM TYPE I	SK	175.0000	\$44.11	\$7,719.25	76.00	\$1,852.62
L499703	CEMENT, ASTM TYPE III	SK	505.0000	\$57.31	\$28,941.55	76.00	\$6,945.97
L017068	CENTRALIZER,8-5/8"NON- WELD	EA	10.0000	\$246.40	\$2,464.00	76.00	\$591.36
L100120	EXTENDER, BENTONITE	LB	1,899.0000	\$2.08	\$3,949.92	76.00	\$947.98
L015399	Float collars with poppet valve, 8-5/8 in.	EA	1.0000	\$0.00	\$0.00	0.00	\$0.00
1100295	IntegraSeal CELLO	LB	340.0000	\$5.76	\$1,958.40	76.00	\$470.02
L415082	IntegraSeal KOL	LB	2,525.0000	\$1.20	\$3,030.00	76.00	\$727.20
L86718	PLUG,CEMENT 8.6 TOP BJPL	EA	1.0000	\$287.04	\$287.04	76.00	\$68.89
L499632	RETARDER, SUGAR, GRANULAR	LB	100.0000	\$4.16	\$416.00	76.00	\$99.84
L100404	SALT, SODIUM CHLORIDE, A-S	LB	1,224.0000	\$1.04	\$1,272.96	76.00	\$305.51
			Product Materia	l Subtotal:	\$58,508.72		\$14,042.09

SERVICES

Product Code	Description	MOR	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
S-100004	Cement Crew Mobilization- Demobilizaton Fee	EA	1.00	\$10,880.00	\$10,880.000	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



Start Date

2/13/2018

Well

Kells I-2

End Date

2/14/2018

County

Client

MERIT ENERGY COMPANY

State/Province

KS

Client Field Rep

API

15-081-22172

Service Supervisor

Formation

Field Ticket No.

Merit - Kells I-2 - Surface C Rig

Ria

District

Liberal, KS

Type of Job

Surface

WELL GEOMETRY

Туре	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Open Hole	12.25			1,867.00	1,867.00	0.00	V 1	aren do der in i di
Open Hole	12.25			1,867.00	1,867.00	130.00		
Casing	8.10	8.63	24.00	1,857.00	1,857.00		J-55	LTC

Shoe Length (ft):

42

HARDWARE

Bottom Plug Used?	Yes	Tool Type	Float Collar
Bottom Plug Provided By	ВЈ	Tool Depth (ft)	1,814.86
Bottom Plug Size	8.625	Max Tubing Pressure - Rated (psi)	
Top Plug Used?	No	Max Tubing Pressure - Operated (psi)	
Top Plug Provided By		Max Casing Pressure - Rated (psi)	
Top Plug Size		Max Casing Pressure - Operated (psi)	2,500.00
Centralizers Used	Yes	Pipe Movement	None
Centralizers Quantity	10.00	Job Pumped Through	Manifold
Centralizers Type	Bow	Top Connection Thread	8rd
Landing Collar Depth (ft)	1,857	Top Connection Size	8.625
Landing Collar Depth (ft)	1,857	Top Connection Size	8.625

CIRCULATION PRIOR TO JOB



TD-1867 TP-1857 SJ-42.14 Mud-9.1

Prime Lines 2 bbls
Pressure Test 2500 psi
Spacer 10 bbls
LCmt 505 sks @ 12.1 ppg / 232 bbls
TCmt 175 sks @ 15.2 ppg / 40 bbls
Shutdown WashEquipment Drop Plug
Displacement 115 bbls
Slow Rate last 50 bbls @ 2 bbls/min
Bump Plug 500 over PLP
PLP +/- 431 psi
Release Pressure and Check Floats

FIELD TICKET

uso1-027192

Client

MERIT ENERGY COMPANY

Well

Kells 1-2

Job Description

Long String

Date

February 19, 2018

BJ

Field Ticket # FT 03870 M6Z4S90202-78058

MATERIALS

SCHOSU08

Product Code	Description	UOM	Quantity	List Price	Gross Amount	Disc (%)	Net Amount
L100318	CEMENT EXTENDER, GYPSUM, A-10	LB	1,213,0000	\$0.72	\$873.36	78.00	\$192.14
L488168	CEMENT, ASTM TYPE 1 3	SK	215,0000	\$44.11	\$9,483.65	78.00	\$2,086.40
2000000	CFL-210	LB ==	102.0000	\$22.72	\$2,317.44	78.00	\$509.84
L100120	EXTENDER, BENTONITE	LB	405.0000	\$2.08	\$842.40	78.00	\$185.33
L101196	Foam Preventer, FP-25	LB	41,0000	\$14.52	\$595.32	78.00	\$130.97
L488735	IntegraGuard BOND IIA Concentrate	GAL	12.0000	\$159.60	\$1,915.20	78.00	\$421.34
L100295	IntegraSeal CELLO	LB	54.0000	\$5,76	\$311.04	78.00	\$68.43
L415082	IntegraSeal KOL	LB	1,075.0000	\$1,20	\$1,290.00	78.00	\$283.80
4.86710	PLUG,CEMENT 5.5 TOP	EA	1.0000	\$1,026.48	\$1,026.48	78.00	\$225.83
L100404	SALT,SODIUM CHLORIDE,	LB	1,716.0000	\$1.04	\$1,784.64	78.00	\$392.62
			Product Materi	al Subtotal:	\$20,439.53		\$4,496.70

SERVICES

Product Code	Description	MOU	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-100053	Cement pump charge, 5,001-6,000 feet/1,501 - 1,800 m	6/HR	1.00	\$7,032.00	\$7,032.000	92.00	\$562.560
S-100066	Cement pump charge, Additional Hours	HR	0.00	#Error	\$0.000	92.00	\$0.000
S-100072	Circulating Equipment	JOB	1.00	\$5,248.00	\$5,248.000	92.00	\$419.840
S-100001	Mileage - vehicle heavy weight	MI	50.00	\$18.96	\$948.000	92.00	\$75.840
S-100002	Mileage - vehicle light weight	MI	50.00	\$10.72	\$536.000	92.00	\$42.880



 Tail Cement
 4.00
 56.90

 Displacement
 4.00
 129.50

	Min	Max	Avg
Pressure (psl)	0.00	2,500.00	500.00
Rate (bpm)	2.00	5.00	4.00

DISPLACEMENT AND END OF JOB SUMMARY

Di	splaced By		BJ	Amount of Cement Returned/Reversed	0.00
	alculated Displacement Vo bls)	lume	129.00	Method Used to Verify Returns	Visual
A	ctual Displacement Volume	e (bbls)	129.00	Amount of Spacer to Surface	0.00
D	d Float Hold?		Yes	Pressure Left on Casing (psi)	0.00
В	ump Plug		No	Amount Bled Back After Job	1.00
В	ump Plug Pressure (psi)		1,430.00	Total Volume Pumped (bbis)	214.00
W	ere Returns Planned at Su	rface	No	Top Out Cement Spotted	No
C	ement 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)

Injection Pressure (psi) ISIP (psi)
Type of Squeeze FSIP (psi)

Operators Max SQ Pressure (psi)



COMMENTS

Treatment Report

12bbls of HiVIS Sweep Spacer 17bbls of cement for rat and mouse hole 56bbls of cement 129bbls of displacement with KCL water

Job Summary

Arrived at location, spot truck, rig up, safety meeting, pressure test lines to 2500psi pump 12bbls of hivis sweep spacer pump 17bbls of cement to fill rat and mouse hole from 50sacks at 13.6lbs pump 56bbls from 165sacks at 13.6lbs
Drop plug/.wash pump and lines to pit start displacement of 129bbls with KCL water bump plug./check if float holds, rig down

RH- 50 SX