Confidentiality Requested: Yes No

KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1166369

Form ACO-1 August 2013 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. 15
Name:	Spot Description:
Address 1:	
Address 2:	Feet from Dorth / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:, (e.gxxx.xxxxx)
Name:	
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD ☐ SIOW □ Gas □ D&A □ ENHR □ SIGW	Elevation: Ground: Kelly Bushing:
OG GSW Temp. Abd.	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? Yes No
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 ENHR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
ENHR Permit #:	
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West
Recompletion Date Recompletion Date	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								
Geologist Report Received								
UIC Distribution								
ALT I II III Approved by: Date:								

	Page Two	 				
Operator Name:	Lease Name:	Well #:				
Sec TwpS. 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 (Attach Additional She	eets)	Yes No	L	Log Formation (Top), Depth and Datum				
Samples Sent to Geolog	,	Yes No	Nam	e		Тор	Datum	
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No						
List All E. Logs Run:								
		CASING Report all strings set-c			on, 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 / SQL	EEZE RECORD				
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	ks Used Type and Percent Additives				
Protect Casing Plug Back TD								
Plug Off Zone								
Did you perform a hydraulic	fracturing treatment of	on this well?		Yes	No (If No, ski	o questions 2 an	d 3)	
		raulic fracturing treatment ex				p question 3)	(11 400 4)	
Was the hydraulic fracturing	rreatment information	ilsclosure registry?	Yes	No (If No, fill o	out Page Three o	of the ACO-1)		

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated					e		Depth		
TUBING RECORD:	Si	ze:	Set At	:	Packe	r At:	Liner F		No	
Date of First, Resumed	Product	tion, SWD or ENHF	} .	Producing Me	ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wat	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITI	d 🗌	Used on Lease		Open Hole Other <i>(Specify)</i> _	Perf.	OF COMPLE	Comp.	Commingled (Submit ACO-4)		NTERVAL:
		Mail to: KCC	- Con	servation Div	ision, 130	S. Market	- Room	2078, Wichita, Kan	sas 67202	

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Mark Sievers, Chairman Thomas E. Wright, Commissioner Shari Feist Albrecht, Commissioner Sam Brownback, Governor

October 31, 2013

Shawn Hildreth Linn Operating, Inc. 600 TRAVIS STE 5100 HOUSTON, TX 77002-3018

Re: ACO1 API 15-075-20868-00-00 MCDONALD C-4 ATU-45 NW/4 Sec.24-26S-39W Hamilton County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, Shawn Hildreth

		JOB SUM	MAR	Y			TN # 16			TICKET DATE	7/5/201	3
Hamilton [Linn Energy						CUSTOMER REP						
ASE NAME Well No. JOB TYPE EARLOYEE					EMPLOYEE NAM	n Higgins						
McDonald C-4	ATU 45	Surface				Jessie McClain						
Jessie McClain	-	1		1	1			_				
Jason Jones												
Rory Morris												
Ed Pickard					f				\square			
Form. NameCouncil - Grove	Τν	pe:			1_	22						
Packer Type	6.	t At	Date	Ca	(led C 7/	ut .	On Location	n	Job	Started	Job C	ompleted
Bottom Hole Temp		essure	Date		- 18	9/13	07/05	/13	1	07/06/13		7/06/13
Retainer Depth	— То	tal Depth	Time		130	0	1700	i		2315		0:30
Tools and A	cces	ories			-		Well [Data		2010		0.30
Type and Size	Qty				1	lew/Used	Weight	Size G		From	To	Max. Allo
Auto Fill Tube	1	IR	Casing	L		New	24#	8.625"	344	KB	730	1600
Centralizers	5	IR	Liner						_			
Top Plug	1	IR IR	Liner		\rightarrow							
HEAD	1	IR IR	Drill Pi					<u> </u>				
Limit clamp	$-\mathbf{i}$	IR	Open I				I	12.25	11 - 1	K.B.	730'	-
Weld-A	2	IR I	Perfora					12.20	-	N.B.	/30	Shots/F
Texas Pattern Guide Shoe	1	IR	Perfora					 	-			+
Cement Basket	0	IR	Perfora	ation	\$							+
Materi Mud Type WBM	als Density	20 (1-0-1)	Hours	On I	ocati	on	Operating	Hours		Descrip	tion of Jot)
	Jensin Densih	8.9 Lb/Gal 8.33 Lb/Gal	Dat 07/05	8	<u> </u>	urs .5	Date 07/06/13	Hour	5	Surface		
Spacer type H20 BBL	- unung		07100	13		.0	07/06/13	1.3			-	
Spacer type BBL								[SU DOIS	cmt to pit Imp psi 30	0
Acid Type Gal.		%			<u> </u>					Pittal pt	imp pst 30	0
Acid Type Gal.		%						<u> </u>	\neg			
Surfactant Gal.											1	-
NE Agent Gal.	Lb	in									1.1.1.1.1.1	
Fluid Loss Gal/ Gelling Agent Gal/	LD	in F		_								
Fric. Red Gal/	-D	in						L				
VISC. Gal/	LD	in	Total	_		.5	L					
	•		I Uldi			.0	Total	1.3				
Perfpac Balls	Qh	1.		_			Pre	ssures	-			2.0
Other			MAX		9	40	AVG.	5				
Other							Average	Rates in	BPN	A		
Other			MAX			4	AVG	3				
Other			Feet	44			Cement	Left in I	ipe			
			reet	-4-4	-		Reason		-	SHOE	JOINT	
Stage Sacks Ceme	nt		C	eme	nt Da	ta			-			
1 450 Class			Additive		0.25	WSK. Ce	loficka		_	W/Rg		Lbs/Ga
2					ال کرد		NUINARE			6.30	1,32	14.8
3				_								
4							· · · · ·		• •			
				_								
Preflush	Туг	e:	Sur	nma	irv Prefli	ich	вві	10.	00		a — 3	120
Breakdown	<u> </u>				Load	& Bkdn:	Gal - BRI	10.	ųΨ	Pad Bb		20
		Returns N	0		Exce	ss /Return	881	50	5	Calc Dis		44
verage		ual TOC c. Gradient	Surface		Calc	TOC	_	Surf	ace	Actual D	Disp 🚺	43.60
SP5 Min		Min 15 Mi	0		Ireat	ment: ent Slurry:	Gal - BBI	410		Disp Bb	1	
						Volume	BBI	106				-
						VOIUITE	001	103	1			
		1.17	10	ΤĹ		r						
CUSTOMER REPRES	ENT	TIVE Ult	chan t	fre	<a,< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></a,<>							
					77		SIGNATURE					
					L					For Usi		
							0	- TE		Pumping	7	
											-	

		TN # 162	TICKETDATE	2013			
	UMMARY	CUSTOMEN REP	1 100				
Hamilton ILinn E	nergy	Weldon Higgins					
LEASE NAME Well No. JOB TYPE McDonald C-4 ATU 45 Produc		Michael Chalfa	nt				
Chris Lewis							
Steve Crocker							
Form Name Type;	I Called Out	On Location Joh 07/07/13	o Started	lob Completed			
Packer Type Set At	Date 7/7/13	07/07/13	07/07/13	07/07/13			
Bottom Hole Temp. Pressure	1Time 0230	730	1220	1500			
Retainer Depth Tools and Accessories	Time 0230	Well Data	1244	1000			
Type and Size Qty Make		Weight Size Grade	From	To Max. Allow			
Auto Fill Tube 1 IR	Casing New	15.5 5.5 34	surface 3	155 3500			
Insert Float Valve 1 IR	Liner		<u> </u>				
Centralizers 26 IR Top Plug 1 IR	Liner Tubing						
HEAD 1 IR	Drill Pipe						
Limit clamp 1 IR	Open Hole	7.875*	K.B.	Shots/Ft.			
Weld-A 0 IR Terras Pattern Guide Shoe 1 IR	Perforations Perforations						
Texas Pattern Guide Shoe 1 IR Cement Basket 0 IR	Perforations						
Materials	Hours On Location	Operating Hours	Description	of Job			
Mud Type WBM Density 8.9 Disp. Fluid H20 Density 8.33	Lb/Gal Date Hours Lb/Gal 07/07/13 7.0	Date Hours 07/07/13 2.0	Production				
Disp. Fluid H20 Density 8.33 Spacer type H20 BBL. 10			Сел	nent to surface			
Spacer type BBL			Cen	nent in shoe joint			
Acid Type Gal%							
Acid TypeGal% SurfactantGalIn							
NE Agent Gal In							
Fluid Loss Gal/Lb In							
Gelling Agent Gal/Lb In Fric, Red Gal/Lb In			1				
MISCGal/Lb In	Total 7.0	Total 2.0					
		Pressures					
Perfpac BallsQty	MAX 3500	AVG. 400		STR			
Other		Average Rates in B	PM				
Other	MAX 3	AVG 3 Cement Left in Pir					
Other	Feet 44	Reason	Shoe Joi	nt			
Stage Sacks Cement	Additives P. + 5% GYP, + 0.25#/SK. Cellottake		W/Rg. 23.49	Yield Lbs/Gal 3.65 10.8			
	-+ 5% GYP, +0.258/SKL Canona and take		10.4	1.90 13.0			
	UMP OVER 4 B.P.M. WATCH FOR CIRC. WHILE PU	MPING JOB. 2 B.P.M. MIN. IF NO	CIRC.				
4							
Preflush 10 Type:	Summary H20 Preflush	881 10.03	Type:	H20			
Breakdown MAXIMUM	Load & Bkdn	Gal - BBI	Pad Bbl -G	al			
Lost Returns-1 Actual TOC	0 Excess /Retu Surface Calc. TOC	rn BBI 130 Surfac					
Average Frac. Gradient		Gal - BBI	Disp Bbl	74.00			
10 Min 10 Min	V: BBI 165.0						
	Total Volume	BBI 249.0					
	Will Hick						
CUSTOMER REPRESENTATIVE	www. Ingen-	SIGNATURE					
			u For Using	1			
			Pumping				
			1118 TT 12				