## KOLAR Document ID: 1442640

Confiden	tiality Re	quested:
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	· DESCRIPTIO	N OF WELL	& LEASE

OPERATOR: License #	API No.:
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:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
	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	Drilling Fluid Management Plan
Plug Back Liner Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:	
SwD Permit #:	Location of fluid disposal if hauled offsite:
	Operator Name:
	Lease Name: License #:
Sourd Data or Data Data Data TD Completion Data or	Quarter Sec TwpS. R East West
Recompletion Date Reached TD Completion Date of 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 Drill Stem Tests Received					
Geologist Report / Mud Logs Received					
UIC Distribution					
ALT I II III Approved by: Date:					

### KOLAR Document ID: 1442640

Operator Name:	Lease Name: Well #:
Sec TwpS. R East 🗌 West	County:

Page Two

**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		۱ []	⁄es 🗌 No		L	.og Fo	ormation (To	p), Depth an	d Datum	Sample
(Attach Additional Sh					Nam	е			Тор	Datum
Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:	Logs		res No res No res No res No							
		Rep	CASING ort all strings set-o	RECORD [	Ne	ew Use	ed production, etc	c.		
Purpose of String	Size Hole Drilled	Si	ze Casing et (In O.D.)	Weight Lbs. / Ft.		Settir Dept	ng h	Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING	/ SQL	JEEZE REG	CORD			
Purpose: Perforate Protect Casing	Depth Top Bottom	Тур	e of Cement	# Sacks Use	ed			Type and Pe	ercent Additives	
Plug Back TD Plug Off Zone										
<ol> <li>Did you perform a hydra</li> <li>Does the volume of the</li> <li>Was the hydraulic fractular</li> </ol>	ulic fracturing treatment total base fluid of the ring treatment inform	ent on this w hydraulic fr ation subm	well? acturing treatment itted to the chemic	t exceed 350,000 al disclosure reg	0 gallo jistry?	ער [] אר ו	Yes I	No (If No, skip No (If No, skip No (If No, fill d	o questions 2 an o question 3) out Page Three (	nd 3) of the ACO-1)
Date of first Production/Inj Injection:	ection or Resumed Pr	oduction/	Producing Meth	nod:		Gas Lift	Other (	Explain)		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er	Bbls.	G	as-Oil Ratio	Gravity
DISPOSITION	NOF GAS:		N		MPLE	TION:			PRODUCTIC Top	ON INTERVAL: Bottom
Vented Sold	Used on Lease		Open Hole	_ Perf(	Dually Submit	Comp. ACO-5)	] Comming (Submit AC	led <i>O-4)</i>		
Shots Per Per Foot	foration Perfor Top Bott	ation om	Bridge Plug Type	Bridge Plug Set At			Acid, Fractu (An	ure, Shot, Cem	enting Squeeze of Material Used)	Record
TUBING RECORD:	Size:	Set At:		Packer At:						

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	MCALLISTER 4
Doc ID	1442640

# 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	23	221	Common	150	3% C.C., 2% gel
Production	7.875	5.50	15.5	3112	Common	175	10% Salt- 5% Gilsonite

# GLOBAL OIL FIELD SERVICES, LLC0013237

XEMIT TO 24 S. Lincoln Russell, KS 67665	SERVIC	E POINT:	Russer	1 KS
SEC. TWP. RANGE CA	LLED OUT ON	LOCATION	JOB START	JOB FINISH
DATE 0-23-16 17 25 13W		COMIN CONCIDENCE	a pay merestory	2:30 RM
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ONTRACTOR Dig Course Doubles Dis #3	OWNER Jal	· · · · ·	Farme C	
YPE OF JOB	- Andrew Grit resources	unitisecond to	malthe lanei yos	N PERSONAL PROPERTY
OLE SIZE 12/4 T.D. 771	CEMENT			erris on an animi
ASING SIZE Shin DEPTH 270'	AMOUNT ORDERE	n 150	<2 C	m 320
UBING SIZE DEPTH	7 % (-01			100
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DRIVER			@	
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GNATURE	TOTAL CHARGES_		- 44 - Ja	
				DATE DI SO DATO
	DISCOUNT			PAID IN 30 DAYS

# QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Home Office P.O. Box 32 Russell, KS 67665

No. 1130

Phone 785-483-2025

Cell 785-324-1041										<b>`</b>
Sec.	Twp.	Range	0	County	Sta	ate	On	Location	Finis	<sup>h</sup> 1λ.ΛΛ
Date 10-28-18   '	2	15	nu	5541	KS	11 25		<u>&lt;1 6</u>	1 . J	<u>- HY''</u> /<
Lease McAllester	ſ	Well No. 4	Locati	on nusse	<u>-11-9</u> - 51-	N JI	- 70	Utop :	Sign 1	182+
Contractor D.Statele (u#2	} ·	1		To Quality O	ilwell Cem	enting, Inc.			t and furnia	
Type Job Button Stone		·		cementer an	d helper to	assist owr	cementi her or co	ng equipment ontractor to d	o work as li	n sted.
Hole Size 77/8" 3	T.D.	3115'		Charge: 7	John-	$\Theta - F_0$	sme	۲ ا		
CSg. 51/24 15.50# New	Depth	3112.9	41	Street						
Tbg. Size	Depth			City			State			••
Tool DU Teel	Depth	776'		The above wa	is done to s	atisfaction a	nd super	vision of owne	r agent or cor	ntractor.
Cement Left in Csg. 43,40	Shoe .	Joint 43,1	40	Cement Amo	ount Order	red 175	Com	162 Sal	<u>t SXG?)</u>	sonite
Meas Line	Displa	<u>.e 73</u>	<u>Brs</u>	<u>500 genl</u>	mud	Clear L	18 10	OBISKCI	+	·
EQUIPA	MENT			Common	175					
Pumptrk 17 No. Dementer Do	wil			Poz. Mix	175		a			
Bulktrk 19 No. Driver On	5			Gel.	2		2			
Bulkerr D. U. Driver Kill	L			Caletum A	Ch_	6al			<u> </u>	
JOB SERVICES	& REM	ARKS		Hulls						
Remarks:				Salt /O						
Rat Hole				Flowseal	7- 4				· ·	
Mouse Hole	~~	12m		Kol-Seal	<u>5071</u>					
Centralizers 1, 3, 5, 7, 9	22			Mud CLR 48	3_50	ð				
Baskets 8 S6 61	*******			CFL-117. or	CD110 CA	\F 38		. <u>in</u>		
D/V or Port Collar 56	<u></u>	<u>-16.</u>		Sand	01	. gelder Aller Aller - generationer		· · · · · · · · · · · · · · · · · · ·		
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X Signature Ann W.o. A. Mach	t- ese							Total Charge	э 🔤	
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# QUALITY OILWELL CEMENTING, INC.

Federal Tax	I.D.# 20-2886107
Phone 785-483-2025 Home Office P.O. B Cell 785-324-1041	ox 32 Russell, KS 67665 No. 1131
Sec. Twp. Range	County State On Location Finish
Date 10-28-18 17 12 13 Rus	sell Ks 4: UD AM
Locati	on Russeh-9N. 3E to Stop Sign 185, 4E
Lease MicHillister Well No. 4	Owner Strate
Contractor Discoverund 2	To Quality Oilwell Cementing, Inc.
Type Joh Too Stang.	cementer and helper to assist owner or contractor to do work as listed.
	Charge Toho = D = Facing
Con 5/1 15 50 New Denth 3117.941	Streat
The Size	
Tod. Size Depth	The show was done to estimate and supervision of super agent or contractor
	Compet Amount Ordered 20 a 80/2 Gwan ( 1/4 Tu)
Cement Left in Csg. Shoe Joint 4 5, 90	Comment Annount Ordered DELD 0-126 OF INDE 14+ PID SEAN
Meas Line Displace 1 5 72 ISLS	2 A 2 D Etho D Mail -
	Common Contract of the Contrac
Pumptrk / Helper Jand	Poz. Mix
Bulktrk O Driver Or L	Gel.
Bulktrk J.U. Driver Kill	Calcium
JOB SERVICES & REMARKS	Hulls
Remarks:	Salt
Rat Hole 70 s	Flowseal 507
Mouse Hole 155%	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
Dr or Port Collar 706' #56	Sand
Dide on bottom break Circulation	Handling 270
Thurs Pot & may so hado's Hospit. In	Mileage
Casha + min 125 54 Camera, Shut	FLOAT EQUIPMENT
daux wash owned there Disolared	Guide Shoe
Obe with 1815 RIC 11/2 Roleased +	Centralizer
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<u> </u>	Mileage / / Tay
X A LE L	
Signature Una Weanny	Total Charge



P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

### DRILLER'S LOG

Operator:	John O. Farmer, Inc.	;#
	370 West Wichita Avenue - P.O. Box 352	
	Russell, KS 67665 + 2635	

 5135
 Contractor: Discovery Drilling Co., Inc. LIC#31548

 PO Box 763
 Hays, KS 67601

Lease: McAllister # 4

Location: <u>1110 FNL - 1675 FEL</u> <u>SW/SE/NW/NE</u> <u>Section 17/ 12S/ 13W</u> Russell County, KS

Loggers Total Depth: 3116'

Rotary Total Depth: 3115'

Commenced: 10/22/2018

Casing: 8 5/8" @ 220.31'W/150sks 5 1/2" @ 3112'W/175sks

Cement Did Circulate

DV Tool @ 776'W/175sks

API#15- <u>167-24,081-00-00</u> Elevation: <u>1725 GL - 1733 KB</u>

Completed: 10/28/2018

Status: Oil Well

#### DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	0'	Shale	801'
Dakota Sand	164'	Shale & Lime	1419'
Shale	226'	Shale	1877'
Cedar Hill Sand	353'	Shale & Lime	2268'
Red Bed Shale	494'	Lime & Shale	2902'
Anhydrite	770'	RTD	3115'
Base Anhydrite	801'		

STATE OF KANSAS))

) ss COUNTY OF ELLIS )

Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log'of the above captioned well.

MAD Thomas H. Alm

Subscribed and sworn to before me on 10-30-18

6-28-2622 My Commission expires:

(Place stamp or seal below)



S. Hoffman rna Notary Public

HARDROCK Consulting, Inc.		Geologic Report Drilling Time and Sample Log											
Operator John O. Far	mer. In	c.		EI VD	evation								
Lease McAllister		No	4	DF	1735								
A DI # 15 1(5 34001 (	0000	110.		GL Casii	ng Record								
AP1# 15-10/-24081-0	0000			Surface									
Field Waldo Northwe	est			8 5/8 Productio	s" @ 221' n								
Location 1110/ ENL	0. 16751	<b>FFI</b>		5 1/2	" @ 3115'								
Location III0. FNL (	x 10/5	FEL		Electri	cal Surveys								
Sec. 17 Twp.	12s	Rge.	13w	CNL/CD	DL, DIL, MEI								
County Russell	State	Kan	sas										
Formation	Log	Tops	Sampl	e Tops	Struct Com								
Anhydrite	766'	+967	770'	+963 -2									
Base	801'	+932	801'	+932									
Topeka	2657	' -924	2656	' -923	-11								
Heebner	2888	-1155	2886'	-1153	-15								
Toronto	2907	-1174	2906'	-1173	-15								
Lansing	2942	-1209	2940'	-1207	-15								
C zone porosity	2985	-1252	2984'	-1251	-17								
G zone porosity	3048	-1315	3046'	-1313	-16								
Total Depth	3116	-1383	3115'	-1382									
Reference Well For Structural 590' FNL & 1220' FEL Sec. 17 T	Comparison	n John O. 1 Russell Com	Farmer, Inc.	McAlliste	r #1								

Drilling Contracto	or Dis	scovery Drill	ling, Inc.	Rig #2	
Commenced	10-22-2018	Comp	leted	10-27-2018	
Samples Saved Fr	om	2600'	То	RTD	
Drilling Time Kep	ot From	2600'	То	RTD	
Samples Examine	d From	2600'	То	RTD	
Geological Superv	vision From	2600'	То	RTD	

Displacement

2497'

Mud Type Chemical

# Summary and Recommendations

The location for the McAllister #4 was found via 3-D seismic survey. The new well ran slightly lower structurally than expected via the survey. No Drill Stem Tests were conducted. After all gathered data had been examined the decision was made to run 5 1/2 inch production casing to further evaluate the McAllister #4 well.

Perfs: LKC G 3049' - 3058' LKC C 2986' - 2994' LKC B 2970' - 2975'

Respectfully Submitted,

Jason T Alm Hard Rock Consulting, Inc.

IN Limetone Out.Lime Clow Dolomica SAMPLE DESCRIPTIONS REMARKS	Sh- Gry, Sl. Sikh Geo on Loc. 9:30 p.m. 10-26-2018	Ls - a/a, SI. Fassil	UN CAN JOOT	Ls-ala, DNS Lz-Ton-Lt-ENT, Methed whos	Ls-For Officer Fin Han St. Plin	LELORY FN-Subda, Mosth, DNS, LS- ala	Lar, The Detersion allowing with a low	SA-Drk Gry-Blk SA- Gry	LST. Toni Firston, Fassi wi	Ls- Tan-Subxhn, ONS	Sh- Cny LS Ton-Li. Gry. Subxla. Facer Sh- Dak Gry- Bik	LS. Fer. Way. Subsh. Ool.	Ls- ala	Un long	Ls-ala. Masty DNS	Ls - Plan. Erissukala, Matthed	Str-Bilk, Cord. LS-Ton, Subuch, UNS	54- 64- 1311- 600 LSJ. Tgg Offich, Substa, DNS,	Sh. Ern, Saft	sh- ala	LE Tan Supels. DNS 51	sh-bry-tan	Log Reals of a Distriction Olin	LS - Ten, Frader, OL. PLST w/ Ecology Brand Dar, Scot Ly Borres, S. Pepel Color, Scot Ly	L'Sinten, Subata, Calin Ret,	Sh. Dik Gry- Blk	Ls-Ton-Offich, Subxln, DNS
DEPTH Antiyofite 3.alt Sanotrane Shale Carl	m m	M	50 Topeka 2656:-923	~~~	۰ ۲ ۳	~~~^	w. <sub>V</sub>	- <b>~</b> M	<b>^</b> W	<b>~~</b>	s N N N	- <b>~</b> w	~^	<b>у</b> л	₩		16864:1153	00 A Toronto 2906-1173	۸,	Lansing	so A 2940-1207	W	<u>م</u>	2984 <sup>12</sup> 1251	<b>%</b>	M	Г <sup>л</sup> и

