KOLAR Document ID: 1667448

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: State: Zip:+	Feet from _ East / _ West Line of Section				
Contact Person:	Footages Calculated from Nearest Outside Section Corner:				
Phone: ()	□NE □NW □SE □SW				
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:				
☐ Oil ☐ WSW ☐ SWD	Elevation: Ground: Kelly Bushing:				
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:				
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet				
CM (Coal Bed Methane) 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				
•	If Alternate II completion, cement circulated from:				
Operator:	•				
Well Name:	feet depth to: 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)				
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls				
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	Quarter Sec. Twp. S. 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 Drill Stem Tests Received					
Geologist Report / Mud Logs Received					
UIC Distribution					
ALT I II III Approved by: Date:					

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### Page Two

Operator Name:				Lease Name:			Well #:	
Sec Twp.	S. R.	Ea	st West	County:				
	lowing and shu	ıt-in pressures, w	hether 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 G	eological 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					
		Re			New Used	ion, etc.		
Purpose of Strin		Hole	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING / SO	QUEEZE RECORD	l		
Purpose:		epth Ty Bottom	pe of Cement	# Sacks Used Type and Percent Additives				
Perforate Protect Casii Plug Back TI								
Plug Off Zon								
Did you perform a hydraulic fracturing treatment on this well?      Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?      Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?      No (If No, skip questions 2 and 3)  No (If No, skip questions 3)  No (If No, fill out Page Three of the ACO-1)								
Date of first Producti Injection:	on/Injection or Re	esumed Production	/ Producing Meth	nod:	Gas Lift 0	Other <i>(Explain)</i>		
			Gas-Oil Ratio	Gravity				
DISPOSITION OF GAS: METHOD OF COMPLETION: PRODUCTION INTERVAL:								
	_	on Lease	Open Hole			mmingled mit ACO-4)	Тор	Bottom
,	Submit ACO-18.)							
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)			Record	
TUBING RECORD:	Size:	Set /	At:	Packer At:				
. 5513   1200  10.	5120.		···	. 30.0.71				

Form	ACO1 - Well Completion				
Operator	Patterson Energy LLC				
Well Name	MORAN 1				
Doc ID	1667448				

### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	23	352	80/20	180	3%cc2%g el
Production	7.875	5.5	15.5	3351	Common	175	10%salt5 %gil

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

Phone 785-483-1071 Cell 785-324-1041

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

No. 2847

OCII 703-324-1041	
Date 6-20-22 Sec. Twp. Range Bo	County State On Location S: 48 pm
Lease Well No.	on Cloflin IE to 140 Aue, IN to 12 Owner Rd, 1/2 E. NIInto
Contractor Discovery #2	To Quality Cilwell Cementing, Inc.
Type Job Surface	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Hole Size 1244" T.D. 353	Charge Patterson Freign
Csg. 85/8" Depth 352"	Street
Tbg. Size Depth	City State
Tool Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. Shoe Joint 15	Cement Amount Ordered 180 80/20 3% CC 1% (2)
Meas Line Displace 21 1/2 BUS	
EQUIPMENT	Common 145
Pumptrk No. Cementer Helper	Poz. Mix 35
Bulktrk 9 No. Driver To Colon	Gel. 3
Butkirk O.W. Driver ROCK	Calcium 7
JOB SERVICES & REMARKS	Hulls
Remarks: Cement did Circulate	Salt
Rat Hole	Flowseal
Mouse Hole	Kol-Seal
Centralizers	Mud CLR 48
Baskets	ÇFL-117 or CD110 CAF 38
D/V or Port Collar	Sand
	Handling 190
energy programmer stages and the stage of th	Mileage
	FLOAT EQUIPMENT
Test Service Code	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge Surface
	Mileage 3/
	A /2 Tax
	Thanks Discount
X Signature	Total Charge

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

Phone 785-483-1071 Cell 785-324-1041

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

No. 2903

Date 6-25-22 3.	Twp. Range	Bac	County	KS State	On Location	Finish 2 to A	
Masaa	Well No.	Location		100-1E	to 140 A	oe, IN to	
Contractor NSCOUG	d 2		Owner / 2	ilwell Cementing, Inc	2E, NIM	6	
	200		You are here	by requested to rent	cementing equipmer ner or contractor to d	nt and furnish	
Hole Size 77/8 n	T.D. 3355		Charge 2	11		o work as listed.	
Csg. 5%" /5. 50				atterson	Energy		
T.bg. Size	Depth		Street City	The second secon	State		
Tool	Depth			s done to satisfaction a	State  nd supervision of owner	r agent or contractor	
Cement Left in Csg.	Shoe Joint 35	62	Cement Amo		175 Cmm	ook Salt	
Meas Line	Displace 79	BUS	5% G		100 aal mu	AC lose US	
	PMENT		Common		3. 110	Citor of c	
Pumptrk 16 No. Cementer Helper	avid		Poz. Mix				
Bulktrk 14 No. Driver No. Driver No.	pert Clayte	5~1	Gel.				
Bulkrik D. U. No. Driver Priver	JK J		Calcium				
JOB SERVICE	S & REMARKS		Hulls				
Remarks:			Salt /4				
Rat Hole 30 5X		100	Flowseal	,			
Mouse Hole 155x			Kol-Seal 750#				
Centralizers 1,4,7,	10,13		Mud CLR 48 500 Gel				
Baskets			CFL-117 or C	D110 CAF 38			
D/V or Port Collar pipe or	bottom bro	eak	Sand				
Circulation on	Maria Para Para Para Para Para Para Para	nud	Handling 19	6			
Clear, Dlug Ro	it 14 Mousehol	65	Mileage				
Hook to 5% Ca	Stra + mix	1305)	(	FLOAT EQUIPM	ENT		
Cement & Shi	Addun was	sh	Guide Shoe		P1411111111111111111111111111111111111		
pump + 19nes Di	splaced plug	. w)	Centralizer 🕏	5			
	eased	1	Baskets				
100			AFU Inserts				
Litt pressi	we 600 s	#	Float Shoe	1			
	245 May 200 May 25 May		atch Down	1			
Land plug -	to 1300 #	t			·		
, 0							
<u> </u>		F	umptrk Char	ge prods	toing		
			Aileage 3/	1	J		
	1		+	De	Tax		
x / d	/		Than	1152	Discount		
Signature					Total Charge		

### **AUSTIN B. KLAUS**

Cell 785.650.3629 Work 785.483.3145 Ext 225

PO BOX 352 Russell, KS 67665 austin.klaus@johnofarmer.com

Scale 1:240 (5"=100') Imperial Measured Depth Log

Well Name: Moran #1

API: 15-009-26347-0000

**Location: Barton County** 

License Number: Region: Kansas

Spud Date: 06/20/2022 Drilling Completed: 06/24/2022

Surface Coordinates: Section 25, Township 17 South, Range 11 West

1,370' FSL & 2,310' FWL

Bottom Hole Vertical well w/ minimal deviation, same as above

Coordinates:

Ground Elevation (ft): 1,823 K.B. Elevation (ft): 1,831 Logged Interval (ft): 2,800 To: 3,354 Total Depth (ft): 3,355

Formation: Heebner - Arbuckle
Type of Drilling Fluid: Chemical (Andy's Mud)

Printed by StripLog from WellSight Systems 1-800-447-1534 www.WellSight.com

### **OPERATOR**

Company: Patterson Energy, LLC

Address: PO Box 400

Hays, KS 67601

### **GEOLOGIST**

Name: Austin Klaus

Company: John O. Farmer, Inc. Address: 370 W. Wichita Ave.

Russell, KS 67665

### Comments

The Moran #1 well was drilled by Discovery Drilling Rig #2 (Tool Pusher: Travis Schmidt).

Drill time was recorded, and rock samples were collected and evaluated from 2,800'-3,355'. There were several zones in the Lansing-Kansas City that exhibited good porosity development with oil stain/show (see below). Significant porosity development and good oil shows were encountered in the Arbuckle. Structurally, the Arbuckle top was picked flat to the comparison well, located 280' north, A.T. Moran #3 (7/1936, The Texas Co.). After comprehensive evaluation of all oil shows, electric logs, and structural position, it was decided that 5-1/2" production casing be set to further evaluate the Moran #1 on June 25, 2022.







