KOLAR Document ID: 1661064

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?
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 Approved by: Date:							

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Page Two

Operator Name:					_ Lease Nam	ne:			Well #:			
Sec Tw	pS	S. R	Eas	st West	County:							
	, flowing an	d shut-in pres	sures, wh	ether shut-in pre	ssure reached	static	level, hydrostat	ic pressures, bo		val tested, time tool erature, fluid recovery,		
Final Radioactivi files must be sub							gs must be emai	led to kcc-well-l	ogs@kcc.ks.go	v. Digital electronic log		
Drill Stem Tests (Attach Addit		1		Yes No		Lo		n (Top), Depth a		Sample		
Samples Sent to	Geological	Survey		Yes No		Name			Тор	Datum		
Cores Taken Electric Log Run Geologist Report List All E. Logs F	t / Mud Log	s		Yes No Yes No Yes No								
			Rej	CASING	RECORD [Nev		on, etc.				
Purpose of St	ring	Size Hole Drilled		Size Casing let (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives		
				ADDITIONAL	CEMENTING /	SQUE	EEZE RECORD		'			
Purpose: Perforate		Depth Top Bottom	Тур	pe of Cement	e of Cement # Sacks Used			Type and Percent Additives				
Protect Ca												
Plug Off Z												
Did you perform Does the volume Was the hydraul	e of the total	base fluid of the	hydraulic	fracturing treatment		-	Yes yes Yes	No (If No, s	kip questions 2 ar kip question 3) Il out Page Three			
Date of first Produ Injection:	ction/Injectio	n or Resumed Pi	roduction/	Producing Meth	od:		Gas Lift O	ther <i>(Explain)</i>				
Estimated Product Per 24 Hours		Oil	Bbls.		Mcf	Water			Gas-Oil Ratio	Gravity		
DISPO	OSITION OF	GAS:		N	ETHOD OF CO	MPLET	ΓΙΟΝ:			DN INTERVAL: Bottom		
Vented	Sold	Used on Lease		Open Hole	_	Dually (Submit A		nmingled nit ACO-4)	Тор	BOLLOTTI		
,	· I											
Shots Per Foot	Perforation Top	on Perfor Bott		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeeze and of Material Used)			
TUBING RECORI	D: S	size:	Set A	: -	Packer At:							

Form	ACO1 - Well Completion
Operator	Patterson Energy LLC
Well Name	HABIGER 1
Doc ID	1661064

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	394	80/20	180	3%cc2%g el
Production	7.875	5.5	17	3270	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. 2804

Date 4-20-22 S	ec. Twp.	Range	Ric	County	KS State	On Location	Finish PN		
			Location	on Claft	10-4/2	E, 5/Intr	>		
Lease Habiase	V	Vell No.		Owner					
Contractor	scover	1 2		To Quality O	ilwell Cementing, Inc.	comenting equipmer	at and furnish		
Type Job Surface		7		cementer an	d helper to assist own	ner or contractor to d	o work as listed.		
Hole Size 1214"	T.D.	394'		Charge Po	itterson !	Energy	-		
Csg. 85/8"	Depth	3941		Street					
Tbg. Size	Depth			City		State			
Tool	Depth			The above wa	s done to satisfaction a	nd supervision of owner	r agent or contractor.		
Cement Left in Csg.	Shoe Jo) 1	Cement Amo	ount Ordered 180	80/20 3%(L 2% Gel		
Meas Line	Displace	23 3/4	BUS						
	UIPMENT			Common /	43				
Pumptrk No. Cementer Helper	David			Poz. Mix	35				
Bulktrk 21 No. Driver Driver	oug		×,	Gel. 3					
Bulktirk O. W.O. Driver Priver	300			Calcium 7					
JOB SERVI	CES & REMAR	RKS		Hulls					
Remarks: Cement d	id (Circula	e	Salt					
Rat Hole				Flowseal					
Mouse Hole				Kol-Seal					
Centralizers				Mud CLR 48			-7		
Baskets				CFL-117 or 0	CD110 CAF 38				
D/V or Port Collar				Sand					
	esting files	3.5		Handling /	10				
				Mileage					
			or mustify		FLOAT EQUIPMI	ENT			
			75,558	Guide Shoe	4.00				
		***************************************	i i i i i	Centralizer	· . — An . in				
				Baskets					
		in the state of		AFU Inserts					
				Float Shoe					
				Latch Down					
					<u> </u>				
			+ 16	Pumptrk Cha	rge Surfac	<u></u>			
		***************************************		Mileage 40	31				
					1 10	Tax			
					Thanks	Discount			
X Signature				V		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. 2773

Sec.	Twp.	Range		County	State	On Location	Finish			
Date 4-24-22 5	18	10	K	ice	RC		5:45 Pm			
			Location				7 7 7			
Lease HAbiger		Well No. (T	a Flin 4	٤				
Contractor Discovery				To Quality O	ilwell Cementing, Inc.					
Type Job 3270				cementer and	eby requested to rent d helper to assist own	cementing equipment er or contractor to d	nt and furnish o work as listed.			
Hole Size	T.D.			Charge Potterson Enersy						
Csg. 5-1	Depth	7	-	Street						
Tbg. Size	Depth			City State						
Tool	Depth			The above was	s done to satisfaction an		agent or contractor.			
Cement Left in Csg.	Shoe J	oint 38. S	4	Cement Amo			bold 5%			
Meas Line	Displac	e76. 9		100 9	4/ F1066		2007 6 6.			
EQUIPA	IENT			Common /	75					
Pumptrk / No. Cementer Helper		13:11		Poz. Mix						
Bulktrk No. Driver Driver	,	Nick		Gel.						
Bulktrk 9 No. Driver Driver		JORdes	า	Calcium						
JOB SERVICES	& REMA	RKS		Hulls						
Remarks:	***************************************			Salt 14						
Rat Hole				Flowseal	_					
Mouse Hole 15				Kol-Seal 7	5011	,				
Centralizers 3 0				Mud CLR 48 \$ 500 gol						
Baskets				CFL-117 or C	D110 CAF 38	1,				
D/V or Port Collar				Sand						
Dipeset e 32	170			Handling /9/						
ShoeJ	38	, 57		Mileage						
Insert 32	3/	46			FLOAT EQUIPME	NT				
Pump 500 gal F	lush)		Guide Shoe						
Cem+ 135ay				Centralizer — 5						
Pump plugue	76.	21992		Baskets -	1					
Land plug &	15	00 #		AFU Inserts			-			
Flort did h	00			Float Shoe						
				Latch Down	+					
							and the second s			
			one,	Pumptrk Char	ge Drod 51	r/n 4				
				Mileage 40	1					
		Auto anno anno anno anno anno anno anno an			1 6	Tax				
					Thanks	Discount				
Signature	3	000000000				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: Habiger #1

API: 15-159-22882-00-00

Location: Rice County

License Number: Region: Kansas

Surface Coordinates: Section 5, Township 18 South, Range 10 West

980' FNL & 2257' FEL

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

Coordinates:

Ground Elevation (ft): 1,764 K.B. Elevation (ft): 1,772 Logged Interval (ft): 2,700 To: 3,274 Total Depth (ft): 3,274

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

Drilling time was recorded, and rock samples were collected and evaluated from 2,700'-3,270'. There were several zones in the Lansing-Kansas City that exhibited good porosity development with oil stain (see below). Significant porosity development and good oil shows were encountered in the Arbuckle. Structurally, the LKC top was picked flat to the comparison well, located 74' west, Habiger #5 (5/1985). Structure thinned throughout the LKC, but thickened just below the B/KC, and the Arbuckle top was also picked flat to the comparison well. 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 Habiger #1 on April 24, 2022.







