KOLAR Document ID: 1546243

Сс	onfiden	tiality R	equested:
	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

		DECODIDEIO		
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:
Name:	(e.g. xx.xxxx) (e.gxxx.xxxx)
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:
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)	Multiple Stage Cementing Collar Used? Yes No
Cathodic Other (Core, Expl., etc.):	
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	
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 Produc	(Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	
EOR 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 Drill Stem Tests Received					
Geologist Report / Mud Logs Received					
UIC Distribution					
ALT I II III Approved by: Date:					

KOLAR Document ID: 1546243

Operator Nam	ne:			Lease Name:	Well #:
Sec	Twp	S. 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 (Attach Additional Sh	acate)	Y	′es 🗌 No			og Formatio	n (Top), Depth a	and Datum	Sample
Samples Sent to Geolo			⁄es 🗌 No	1	Name	Э		Тор	Datum
Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:		□ Y □ Y	Yes ☐ No Yes ☐ No Yes ☐ No						
		Rep	CASING ort all strings set-c] Ne	w Used rmediate, productio	on. etc.		
Purpose of String	Size Hole Drilled	Siz	ze Casing et (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
[ADDITIONAL	CEMENTING /	SQU	EEZE RECORD			
Purpose:	Depth Top Bottom	Туре	e of Cement	# Sacks Use	d		Type and	Percent Additives	
Protect Casing Plug Back TD Plug Off Zone									
 Did you perform a hydra Does the volume of the Was the hydraulic fracture 	total base fluid of the	hydraulic fr	acturing treatment		-	☐ Yes ns? ☐ Yes ☐ Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three	
Date of first Production/Inj Injection:	jection or Resumed Pr	oduction/	Producing Meth	iod:		Gas Lift 🗌 O	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er Bb	ls.	Gas-Oil Ratio	Gravity
DISPOSITIO	N OF GAS:		Ν	IETHOD OF COM	MPLE	TION:		PRODUCTIC Top	DN INTERVAL: Bottom
Vented Sold (If vented, Subn	Used on Lease		Open Hole		-	·	nit ACO-4)	юр	Bollom
	foration Perform Top Botto		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeezend of Material Used)	
TUBING RECORD:	Size:	Set At:		Packer At:					

Form	ACO1 - Well Completion	
Operator	Patterson Energy LLC	
Well Name	MEHL 1	
Doc ID	1546243	

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set		Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	23	311	common	190	80/20
Production	7.875	5.5	17	3351	Common	200	10% Salt

Patterson Energy Mehl #1 Ellsworth Co Ks

9-19-20 Moved casing to location

9-20-20

Ran 80 jts of 5 ½ 17# R-3 LT@C new casing, installed centerlizers thru pay zones. Set pipe 3' off bottom at 3351. Cir and rotated for ½ hr. Pumped 500 gal mud flush and 10 bbls KCL water. Plugged rat hole w/ 30 sxs and moush hole lw/ 20 sxs. Cemented w/ 150 sxs common w/ 10% salt and 53 gil. Good cir through out job. Pumping pressure 800# landed plug w/ 1500# Plug down at 5:15 PM Insert held OK Set slips and released rig. 9:15 PM

5 ½ cement guide shoe	1.00	3351
$5\frac{1}{2}$ shoe jt	29.53	
Total shoe jt	30.53	3320
5 ½ 17# R-3 <u>LT@C</u> new casing	79 jts 3310.49	
Landing jt	13.00	
Total pipe	3354	11' KB
Pipe set 3' Off bottom	3351	

Phone 785-483-1071 Cell 785-324-1041	Home Office	P.O. Box 32 Ru	ssell, KS 67665	No	2053		
Date 9/16/2020 18	ingo indingo	County Ellsworth	State Kansas	On Location	Finish 1:00am		
		Location		JE 145 E			
Lease Mehl	Well No. /	Owner					
Contractor Murfin Dri	Iling Rig#20	You are her	Dilwell Cementing, Inc. eby requested to rent nd helper to assist owr	cementina equipmer	nt and furnish lo work as listed.		
Hole Size 124	T.D. 311	Charge f	atterson En	0			
Csg. 85/8	Depth 309	Street		₹9¥			
Tbg. Size	Depth	City		State			
Tool	Depth		as done to satisfaction ar		r agent or contracto		
Cement Left in Csg. 15'	Shoe Joint 15'		ount Ordered				
Meas Line	Displace 18,5			110-20-			
EQUI	PMENT	Common	50				
Pumptrk 7 No. Cementer 7	im	Poz. Mix	40				
No. Driver	us	Gel. 2	/0				
Bulktrk PU. No. Driver Day	(1	Calcium					
	S & REMARKS	Hulls					
Remarks:		Salt					
Rat Hole			Flowseal				
Mouse Hole			Kol-Seal				
Centralizers	al and a second s	Mud CLR 48	3				
Baskets			CD110 CAF 38				
D/V or Port Collar	-10 ⁻² 0-20-20-20-20-20-20-20-20-20-20-20-20-20	Sand					
1986 - 1997 - 1998 1986 - 1997 - 1998	With the second second second	Handling	99	da Tuto			
		Mileage		10. zerosta 1990 egyantz Landense 2007 (Salatina egyantz)			
de la construcción de la	P VARANINE -	a trace and the	FLOAT EQUIPME	NT			
and the manual of the	Strange of the second second	Guide Shoe					
		Centralizer	terretaria de la construction de la constituir de la constituir de la constituir de la constituir de la constit				
		Baskets	-				
	anto alla del sur college de	and the second					
	securit R E	Float Shoe					
and the second	Personal March Person	Latch Down		i the second s			
		Laton Down	2016.2				
Cement Did	Circular	e	The second	1			
		Pumptrk Cha	irge Surface				
		Mileage 40					
				Тах			
A	<i>(</i> 1)		hanks	Discount			
Signature ATTUR Labo	205			Total Charge			

Phone 785-483-1071 Cell 785-324-1041	Home Office P.C	. Box 32 Russell, KS 67665 No.	2054		
Sec	c. Twp. Range	County State On Location	Finish		
Date 9/20/2020 18	5 17 9 E	Ilsworth Kansas	5-15 01		
		scation Holyrood 3E 145 Einto	- poo		
Lease Mehl	Well No.	Owner			
Contractor Murfin Dr	illing R's#20	To Quality Oilwell Cementing, Inc.			
Type Job Production St		You are hereby requested to rent cementing equipment a cementer and helper to assist owner or contractor to do y	und furnish work as listed		
Hole Size 73	T.D. 3360'	Charge Drive E			
Csg. 51/2	Depth 3354	Street			
Tbg. Size	Depth				
Tool	Depth	City State			
Cement Left in Csg. 30,53		The above was done to satisfaction and supervision of owner ac	jent or contract		
		Cement Amount Ordered 200 com 10% sc.1+3	6gilsonit		
Meas Line EQUI	Displace 776-Ls	500gg/ mud clear 20BL KCL			
No. Cementer-		Common 700			
Pumptrk / No. Helper	1 M	Poz. Mix	-		
A NI Driver C	Dug	Gel.			
· · · · · · · · · · · · · · · · · · ·	nu O	Calcium			
	ES & REMARKS	Hutts KCL 2 Gol			
Remarks:		Salt //			
Rat Hole 30 sks		Flowseal			
Mouse Hole 205ks	2	Kol-Seal 80077	1		
Centralizers		Mud CLR 48 500 gol			
Baskets		CFL-117 or CD110 CAF 38	CFL-117 or CD110 CAF 38		
D/V or Port Collar	and the second se	Sand			
Set pipe at 3351	Baffle@ 3321'	Handling 22 5			
and the second second second		Mileage			
Est. Circulation	Pumper 500col	FLOAT EQUIPMENT			
mud Ckar TIDbill	Sc/ Plyman Rat	Guide Shoe			
and mouse hole	inter inter	Centralizer 6			
Cement 51/2 w,	th 1505k	Baskets			
Cleared Line an	I displace Olio	AFU Inserts			
with 1st 10 GrL	kel	Float Shoe			
		Latch Down			
Plus 1 dal Da	15111				
flug Landed Q Lift - Pressure Q	OND	and the second sec			
ait / ////ait O		Durando Du O China			
		Pumptrk Charge prod String			
ř t		Mileage 40			
A 17	1	Total Charge			
ignature for Wear	lip	Total Charge			

AUSTIN B. KLAUS

Cell 785.650.3	3629 PO BOX 352
Work 785.483	.3145 Russell, KS 67665
Ext 225	austin.klaus@johnofarmer.com
	Scale 1:240 (5''=100') Imperial
	Measured Depth Log
Well Name:	Mehl #1
	15-053-21374-00-00
	Ellsworth County
License Number:	Region: Kansas
Spud Date:	
Surface Coordinates:	Section 18 - Township 17 South - Range 9 West
.	1015' FNL & 350' FWL
Bottom Hole Coordinates:	Vertical well w/ minimal deviation, same as above
Ground Elevation (ft):	1,791 K.B. Elevation (ft): 1,802
Logged Interval (ft):	
	Lansing Kansas City - Arbuckle
	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: PO Box 352 Russell, KS 67665

Comments

The Mehl #1 well was drilled by Murfin Drilling Company Inc. Rig #20 (Tool Pusher: Arturo Cabezas).

The Mehl #1 was discovered via 3D seismic survey. Drilling time was recorded, and rock samples were collected and evaluated from 2,500'- 3,360'. Oil shows were encountered in the Lansing G, H, I, J, K, and Arbuckle. Structurally, the Heebner top was picked flat to the comparison well, 900' to the northeast (Mehl #1 - 1951-1991). Structural thinning occurred throughout the LKC and below, which resulted in an Arbuckle top picked 8' high to the comparison well. After comprehensive evaluation of the oil shows, electric logs, and structural position, it was decided that 5 1/2" production casing be set to further evaluate the Mehl #1 on 9/20/2020.









