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

1349159

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

### WELL COMPLETION FORM

	-	-	-	-	
WELL HISTORY -	٠D	DESCRIPTIO	N OF V	VELL 8	& 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:
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 ENHR Conv. to SWD	Drilling Fluid Management Plan
Plug Back 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:
SWD Permit #:	Leastion of fluid diamonal if hould offaite:
ENHB Permit #:	Location of huid disposal if natied offsite.
GSW Permit #:	Operator Name:
	Lease Name: License #:
Sourd 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	1349159		
Operator Name:	_ Lease Name:	Well #:		
Sec TwpS. R East _ West	County:			
	tail all aaroo Dapart all final	conice of drill stome tests giving interval tested, time test		

**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		og Formatio	on (Top), Depth a	nd Datum	Sample
Samples Sent to Geolog	jical Survey	Yes No	Name	Э		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
		CASING Report all strings set-c	RECORD Ne	w Used rmediate, product	ion, 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 / SQU	EEZE RECORD			

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing				
Plug Back TD				
Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?	Yes
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes

(If No, skip questions 2 and 3) (If No, skip question 3)

No

🗌 No

No

(If No, fill out Page Three of the ACO-1)

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated				/	Acid, Fracture, Shot, Co (Amount and Kind	ement Squeeze Record I of Material Used)	Depth		
TUBING RECORD:	Si	ze:	Set At:		Packer	r At:	Liner R	un:	No	
Date of First, Resumed	I Product	ion, SWD or ENH	٦.	Producing M	lethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
					R\/Δ1 ·					
Vented Solo (If vented, Su	d	Used on Lease		Open Hole Other <i>(Specify)</i>	Perf.	Unit / Dually	Comp. ACO-5)	Commingled (Submit ACO-4)		

Form	ACO1 - Well Completion
Operator	Vonfeldt, Alan J
Well Name	MICHAELIS 3
Doc ID	1349159

Tops

Name	Тор	Datum
TARKIO LIME	2298	-577
ТОРЕКА	2574	-858
HEEBNER SHALE	2803	-1079
TORONTO	2822	-1098
DOUGLAS SHALE	2838	-1114
LKC	2872	-1152
ВКС	3131	-1407
ARBUCKLE	3161	-1433
RTD	3202	-1478

Form	ACO1 - Well Completion
Operator	Vonfeldt, Alan J
Well Name	MICHAELIS 3
Doc ID	1349159

## 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	33	698	60/40 POS	350	2%GEL 4%CC
Production	7.825	4.5	14	3172	60/40 POS	230	10%SALT 2%GEL

Company: Address:	<b>OPERATOR</b> ALAN J. VONFELDT PO BOX 611 RUSSELL, KANSAS 67665								
Contact Geologist: Contact Phone Nbr: Well Name: Location: API:	ALAN VONFELDT 785-483-0252 MICHAELIS # 3 W2 SE SW SW SEC.33-T14S-R13W 15-167-24,055-00-00								
Pool: State:	IN FIELD Field: KANSAS Country:	HALL-GURNEY USA							
Scale 1:240 Imperial									
Well Name: Surface Location: Bottom Location:	MICHAELIS # 3 W2 SE SW SW SEC.33-T14S-R13W								
License Number: Spud Date: Region:	7281 3/13/2017 Time: RUSSELL COUNTY	3:00 PM							
Drilling Completed: Surface Coordinates:	3/18/2017 Time: 330' FSL & 751' FWL	4:06 AM							
Bottom Hole Coordinates: Ground Elevation: K.B. Elevation: Logged Interval: Total Depth: Formation: Drilling Fluid Type:	1718.00ft 1724.00ft 2100.00ft To: 3202.00ft TARKIO SAND CHEMICAL/FRESH WATER GEL	3202.00ft							
SURFACE CO-ORDINATES									
Well Type: Longitude: Latitude: N/S Co-ord: E/W Co-ord:	Vertical -98.7777589 38.7847878 330' FSL 751' FWL								
	LOGGED BY								
Company: Address:	SOLUTIONS CONSULTING, INC. 108 W 35TH HAYS, KS 67601								
Phone Nbr: Logged By:	(785) 639-1337 GEOLOGIST Name:	HERB DEINES							
Contractor: Rig #:	CONTRACTOR ROYAL DRILLING INC. 1								
Rig Type: Spud Date: TD Date: Rig Release:	MUD ROTARY     Time:       3/13/2017     Time:       3/18/2017     Time:       3/18/2017     Time:	3:00 PM 4:06 AM 10:00 PM							
ELEVATIONS									
K.B. Elevation: K.B. to Ground:	1724.00ftGround Elevation:6.00ft	1718.00ft							
NOTES									

RECOMMENDATION TO RUN PRODUCTION CASING BASED ON SAMPLE EVALUATION AND LOG ANALYSIS.

OPEN HOLE LOGS BY GEMINI WIRELINE: RADIATION GUARD LOG, MICRO LOG.

NO DRILL STEM TESTS WERE RAN ON THIS WELL.

MICHAELIS #3 W2 SE SW SW SEC.33-14S-13W 1724'KB		MICHAELIS # 1 SE NE SW SW SEC.33-14-13W KB 1733'	HEFFERNAN # 2 NW NW NW SEC.4-15-13W KB 1740'		
FORMATION	LOG TOPS	LOG TOPS	LOG TOPS		
Anhydrite	NOT LOGGED	+1048	+1037		
<b>B-Anhydrite</b>	708+1016	+1015	+1004		
Grand Haven	2227- 503	- 501	- 513		
Dover Lime	2249- 525	- 524	- 536		
Stotler/Tarkic	2298- 574	- 572	- 582		
Topeka	2574 - 858	- 852	- 859		
Heebner Sh.	2803-1079	-1084	-1087		
Toronto	2822-1098	-1102	-1106		
Douglas Shale	2838-1114	-1117	-1122		
LKC	2872-1148	-1152	-1156		
ВКС	3131-1407	-1409	-1415		
Arbuckle	3161-1437	-1433	-1446		
RTD	3202-1478	-1485	-1586		

#### SUMMARY OF DAILY ACTIVITY

- 3-13-17 Spud 4:15 PM,
- 3-14-17 698', set 8 5/8" surface casing to 698' w/ 350 sxs 60/40 pos 2%gel 4%CC, WOC 10 hrs, plug down 11:00 AM
- 3-15-17 1285', drilling
- 3-16-17 2100', drilling, displaced 2100'
- 3-17-17 2795', drilling
- 3-18-17 3202, CFS 3158', RTD @4:06AM, short trip, TOWB, logs, TIWB, LDDP, run and cement production casing, RD



#### Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca) Curve Track #1 Curve Track #3 ROP (min/ft) Depth | Intervals Lithology Oil Show DST **Geological Descriptions** Cored Interval **DST** Interval 1:240 Imperial 1:240 Imperial 0 ROP (min/ft) 5 BEGIN 1' DRILL TIME FROM 2250-RTD 8 5/8" SURFACE CASING SET TO 698' W/ 350 SXS BEGIN 10' WET AND DRY SAMPLES FROM 2300' TO 60/40 POS 2%GEL 4%CC RTD 2150 ANHYDRITE TOP- NOT LOGGED OR CALLED ANHYDRITE BASE 708+1016 2160 2170 2180 Lime, crm-lt brn-grayish brn, fnxln, fossiliferous 2190 <u>5</u>2200 Lime, It-med brn, fnxln, fossiliferous (min/ft) Shale, red-dove gray, soft sticky 2210 Lime, It-med brn, fnxln 2220 GRAND HAVEN 2227-503 2230 Lime, It-med brn-med gray, fnxln with gray mottling Lime, It-med brn-med gravish brn, fnxln







Lime, It-med brn, fnxln, slightly fossiliferous-fusulinids

Shale, It-med gray-dark gray, soft blocky

Lime, It med-dark brn, fnxln, slightly fossiliferous

Lime, It-dark brn, fnxIn, slightly fossiliferous

Shale, It-med gray, soft blocky

Lime, It-med brn-med grayish brn, fnxln, slightly fossiliferous

Lime, med brn-med gray, fn-vfxln, slightly fossiliferous

Shale, lime green-med gray, soft blocky

#### TOPEKA 2574-858

Lime, It-med brn, fn-micro xIn

Lime, It-med brn-gray, fn-vfxIn

Lime, It-med brn-med grayish brn, fn-vfxln

Lime, It brn-It grayish brn, fnxln, NS

Lime, It brn-It grayish brn, fn-vfxIn

Lime, It brn-It gray, It chalk wash with bedded chalk and chalky matrix

Lime, It-med brn, fnxIn, slight bedded chalk

Lime, It brn, fnxln with chalky matrix and bedded chalk

Shale, black carbonaceous, blocky

Shale, dove gray-lime green, soft sticky clumps

Lime, crm, fn-micro xln



Ρ



This appears to be a fine grained limestone bearing mostly gas. Would recommend perforating and testing to eliminate possible fracture potential before abandonment of well.

The Douglas sand did not show up in samples but logs indicate some development. Recommend perforating from 2863-68 and testing prior to abandonment of well.





# QUALITY OILWELL CEMENTING, INC. 79.21 Federal Tax I.D.# 20-2886107 792) Phone 785-483-2025

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

No. 1672

Cell 785-324-1041

Date 3-14-17 Sec.	Twp.	Range	0	County	X State	On Location	Finish
		1	hu	55011	112		11,221
1000 Mol a 14		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Locat	ion Hlan's	nouse	- 15 V4E	N/TAto
Lease Michealis Well No. 3				Owner To Oursline Oi	huall Camaakina Ia	• •	1
Contractor Nougi				You are hereby requested to rent cementing equipment and furnish			
Type Job Junta (		(0		cementer and helper to assist owner or contractor to do work as listed.			
Hole Size 1214" T.D. 698'				To Alon J. Vonfeldt			
<u>Csg. 7 978 - 524</u>	Depth	6981		Street			
Tbg. Size	Depth			City State			
ool Depth				The above was done to satisfaction and supervision of owner agent or contracto			
Cement Left in Csg. 201	Shoe Joir	<u>n 20</u>	1	Cement Amo	unt Ordered 30	\$ 60/40 4%	CC 2% (2)
Meas Line	Displace	4114	Bas		-		
EQUIPM	ENT			Common 7	10 120		
Pumptrk 8 No. Helper 177	2013			Poz. Mix	40 120	2	
Bulktrk 4 No. Driver David				Gel.	/	**************************************	
Bulktrik D.U. Driver Kill	<u>c –</u>			Calcium / 9	l		
JOB SERVICES 8	REMARK	(S		Hulls			
Remarks: Cement	<u>l:l</u>			Salt			
Rat Hole Cicculate			Flowseal				
Vouse Hole				Kol-Seal			
Centralizers				Mud CLR 48			
3askets				CFL-117 or CE	0110 CAF 38	*******	
D/V or Port Collar				Sand	s		
State of the second sec	1			Handling 3	2n and the	×	•••••••••••••••••••••••••••••••••••••••
<u> </u>	1 Kg	C		Mileage	~		
the second se					FLOAT EQUIPMI	NT	******
	Sale and the second			Saide Shee	Riddar	Na Da c	
				Centralizer	1.0000	14764	
			······	Raskets			
	gero de	No alter a		FLLInearte			
				lost Chon			
	and <u>S</u>	the base of		atah Dawa			
				aten Down	······		
** *** ********************************	an inger i g		Jacobia e		i det. Se la Baltana a	and an an	
		<u> </u>		· · · · · · · · · · · · · · · · · · ·	1 2	~	
			F	umptrk Charge	Long Sur	iace	
			<u>N</u>	Nileage /5		1. 2 M	
						Tax	
 	***************************************			1 <sup>12</sup> 8		Discount	
mature Jour Bud	e diz					Total Charge	

## QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107 Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 123 Cell 785-324-1041 Sec. Twp. On Location Finish Range County State 3 2 8-17 2 54 Date Simo 14 A 19 F 5 how Location 10 3 Lease M Well No. Owner To Quality Oilwell Cementing, Inc. 1/21 Contractor You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. Witten Str Type Job Ve Charge X T.D. 2202 Hole Size To Ì. -7 Csg Depth Street Tbg. Size Depth City State Depth Tool The above was done to satisfaction and supervision of owner agent or contractor. 191 45 Cement Amount Ordered 2 Cement Left in Csg Shoe Joint Theb 1 ZBL model Meas Line Displace EQUIPMENT Common Cementer Helper No. 10 Pumptrk Poz. Mix Driver Driver hear No. Ø Bulktrk Gel. Driver No. Jawet Bułktrk Driver Calcium **JOB SERVICES & REMARKS** Hulls 3 Remarks: Salt SK Rat Hole Flowseal 55K Mouse Hole Kol-Seal Centralizers Mud CLR 48 500 Baskets CFL-117 or CD110 CAF 38 D/V or Port Collar Sand Handling Mileage FLOAT EQUIPMENT Aspect Carta Guide Shoe Centralizer Baskets AFU/Inserts Float Shoe Latch Down Sec. A. Z 1 Pumptrk Charge Orod mas Mileage . Tax Discount X Signature **Total Charge**