

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1210825

Form ACO-1
August 2013
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. 15		
Name:			Spot Description:		
Address 1:			Sec.	TwpS. R	East West
Address 2:			F	eet from North /	South Line of Section
City: S	tate: Zip	D:+	F	eet from East /	West Line of Section
Contact Person:			Footages Calculated from	Nearest Outside Section	Corner:
Phone: ()			□ NE □ NV	v □se □sw	
CONTRACTOR: License #			GPS Location: Lat:	. Lona:	
Name:				(e.g. xx.xxxxx)	(e.gxxx.xxxxx)
Wellsite Geologist:			Datum: NAD27	NAD83 WGS84	
Purchaser:			County:		
Designate Type of Completion:			Lease Name:	V	Vell #:
	-Entry	Workover	Field Name:		
	_	_	Producing Formation:		
☐ Oil ☐ WSW	SWD	SIOW	Elevation: Ground:	Kelly Bushinç	j:
☐ Gas ☐ D&A	☐ ENHR	☐ SIGW	Total Vertical Depth:	Plug Back Total	Depth:
CM (Coal Bed Methane)	□ GSW	Temp. Abd.	Amount of Surface Pipe Se	et and Cemented at:	Feet
Cathodic Other (Con	e Expl etc)		Multiple Stage Cementing		_
If Workover/Re-entry: Old Well In			If yes, show depth set:		
Operator:			If Alternate II completion, o		
Well Name:			feet depth to:		
Original Comp. Date:			loot doparto.	<i></i>	
Deepening Re-perf.	_	NHR Conv. to SWD	B		
Plug Back	Conv. to GS		Drilling Fluid Manageme (Data must be collected from t		
			Chlavida content	nom Fluid valum	o. bblo
Commingled	Permit #:		Chloride content:		
Dual Completion	Permit #:		Dewatering method used:		
SWD	Permit #:		Location of fluid disposal if	f hauled offsite:	
☐ ENHR	Permit #:		Operator Name:		
GSW	GSW Permit #:			License #:_	
			Quarter Sec		
Spud Date or Date Recompletion Date	ached TD	Completion Date or Recompletion Date	County:		

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 Approved by: Date:					

Page Two



Operator Name:			L	ease Name: _			Well #:	
Sec Twp	S. R	East We	est C	County:				
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres	sures, whether sh	ut-in pressur	e reached stati	c level, hydrosta	tic pressures, bott		
Final Radioactivity Lo files must be submitted					gs must be ema	iled to kcc-well-log	gs@kcc.ks.go	. Digital electronic log
Drill Stem Tests Taker (Attach Additional		Yes	No	L		n (Top), Depth an		Sample
Samples Sent to Geo	logical Survey	Yes	No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		Yes Yes	No No					
List All E. Logs Run:								
		(CASING REC	ORD Ne	w Used			
		· ·		ıctor, surface, inte	ermediate, producti		T	
Purpose of String	Size Hole Drilled	Size Casin Set (In O.D		Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADD	ITIONAL CEN	MENTING / SQL	JEEZE RECORD			
Purpose:	Depth Top Bottom	Type of Cem	ent #	# Sacks Used Type and Percent Additives				
Perforate Protect Casing	100 20111111							
Plug Back TD Plug Off Zone								
1 lag on zono								
Did you perform a hydrau	ulic fracturing treatment	on this well?			Yes	No (If No, ski)	o questions 2 ar	nd 3)
Does the volume of the to		•				_	o question 3)	(" 100 ")
Was the hydraulic fractur	ing treatment information	on submitted to the c	hemical disclo	sure registry?	Yes	No (If No, fill o	out Page Three	of the ACO-1)
Shots Per Foot		ION RECORD - Bri Footage of Each Int				cture, Shot, Cement		d Depth
	, ,				,		,	
TUBING RECORD:	Size:	Set At:	Pa	acker At:	Liner Run:			
						Yes No		
Date of First, Resumed	Production, SWD or Ef		cing Method: owing	Pumping	Gas Lift C	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls. G	as Mcf	Wate	er Bl	ols. G	ias-Oil Ratio	Gravity
DIODOCITI	ON OF CAS:		RACT!!		TION		DRODUCTIO	AN INTEDVAL.
Vented Solo	ON OF GAS: Used on Lease	Open Ho		IOD OF COMPLE \Box		nmingled	PHODUCIIC	ON INTERVAL:
	bmit ACO-18.)	Other (S	necify)	(Submit		mit ACO-4)		

Form	ACO1 - Well Completion					
Operator	Mai Oil Operations, Inc.					
Well Name	Krug "L" 2					
Doc ID	1210825					

Tops

Name	Тор	Datum	
Anhydrite	793	+994	
Tarkio Lime	2408	-621	
Topeka	2675	-888	
Heebner	2908	-1121	
Toronto	2925	-1138	
Lansing	2970	-1183	
Base Kansas City	3173	-1396 -1430	
Arbuckle	3217		

JAMES C. MUSGROVE

Petroleum Geologist, LLC 212 Main Street P.O. Box 215 Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

Mai Oil Operations Krug 'L' #2 S/2-NE-SE-NW (1875'FNL&2310'FWL) Section 15-15s-14w Russell County, Kansas Page 1

5 1/2" Production Casing Set

Contractor:

Southwind Drilling Co. (Rig #3)

Commenced:

February 13, 2014

Completed:

February 17, 2014

Elevation:

1787' K.B; 1779' D.F; 1773' G.L.

Casing program:

Surface; 8 5/8" @ 534'

Production; 5 1/2" @ 3299'

Sample:

Samples saved and examined 2800' to the Rotary Total Depth.

Drilling time:

One (1) foot drilling time recorded and kept 2800 ft. to the Rotary Total

Depth.

Measurements:

All depths measured from the Kelly Bushing.

Drill Stem Tests:

None.

Electric Log:

By Nabors; Dual Induction, Compensated Density/Neutron Log and Micro.

Formation	Log Depth	Sub-Sea Datum
Anhydrite	793	+994
Base Anhydrite	826	+961
Grand Haven	2338	-551
1 st Tarkio Sad	2350	-563
Dover	2304	-577
2 nd Tarkio Sand	2380	-593
Tarkio Lime	2408	-621
Elmont	2470	-683
Howard	2609	-822
Topeka	2675	-888
Heebner	2908	-1121
Toronto	2925	-1138
Lansing	2970	-1183
Base Kansas City	3173	-1396
Arbuckle	3217	-1430
Rotary Total Depth	3300	-1513
Log Total Depth	3299	-1512
(All tone and zones co	rected to Electric Log	meacuremente)

(All tops and zones corrected to Electric Log measurements).

Mai Oil Operations Krug'L' #2 S/2-NE-SE-NW (1875' FNL & 2310' FWL) Section 15-15s-14w Russell County, Kansas Page 2

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

TARKIO SANDS SECTION

2350-2470' No samples or drilling time was caught and/or kept through the

Tarkio Sections. (Remarks: the hole was flowing water and it

was decided to mud up with starch mud at 2700ft.)

TOPEKA SECTION

2835-2845' Limestone; tan, fossiliferous, chalky, poor porosity, trace

black/brown stain, no show of free oil and no odor in fresh

samples.

2854-2870' Limestone; tan, fossiliferous, fair fossil cast porosity, fair stain

and saturation, show of free oil in fresh samples

TORONTO SECTION

2925-2939' Limestone; white/gray, finely crystalline, oolitic, chalky,

questionable stain/discoloration, no free oil and no odor, trace

gray chert.

LANSING SECTION

2970-2980' Limestone; gray and white, fine and medium crystalline,

scattered intercrystalline porosity, chalky, dark brown/brown

stain, no free oil and no odor in fresh samples.

2994-3004' Limestone; tan, few sub oomoldic, poor porosity, trace poor

stain, no free oil and no odor in fresh samples.

3006-3013' Limestone; as above, poor porosity, questionable edge staining,

no show of free oil and no odor.

3050-3060' Limestone; gray, finely oomoldic, chalky, poorly developed

porosity, no shows.

3062-3077' Limestone; gray, white, oomoldic, scattered porosity, trace brown

stain, no free oil and no odor in fresh samples.

3134-3140' Limestone; gray, white, cream, finely crystalline, sub oomoldic,

chalky, no stain, no free oil and no odor.

3152-3160' Limestone; gray, oomoldic, good oomoldic porosity, gray and

brown stain, show of free oil and faint/fair odor in fresh samples.

3185-3196' Limestone; tan, finely and medium crystalline, few fossiliferous,

chalky, brown and golden brown stain, show of free oil and odor

in fresh samples.

Mai Oil Operations Krug'L' #2 S/2-NE-SE-NW (1875' FNL & 2310' FWL) Section 15-15s-14w Russell County, Kansas Page 3

ARBUCKLE SECTION

3217-3230'	Dolomite; white/cream, medium crystalline, fair/good intercrystalline porosity, golden brown to brown stain and saturation, show of free oil and good odor in fresh samples.
3230-3235'	Dolomite; as above, good porosity, brown and golden brown stain and saturation, show of free oil and good odor in fresh samples.
3235-3240'	Dolomite; white, gray, medium crystalline, few coarse crystalline good intercrystalline and vuggy type porosity, good stain and saturation, good show of free oil and fair odor in fresh samples.
3240-3260'	Dolomite; as above, fair to good porosity, brown and golden brown stain, show of free oil and fair odor, plus white/gray, oolitic, opaque chert.
3260-3280'	Dolomite; cream, white, medium crystalline, scattered porosity, no shows.
3280-3300'	Dolomite; as above, sandy in part, trace gray and white chert and iron pyrite.

Rotary Total Depth Log Total Depth 3300 3299

Recommendations:

5 ½" production casing was set and cemented in the Krug 'L' #2.

Respectfully submitted;

James C. Musgrove, Petroleum Geologist LLC

and iron none

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

Phone 785-483-2025 Cell 785-324-1041

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

No. 7103

Cell 785-324-1041							Tr.	
Sec.	Twp.	Range	1	County	State	On Location	Finish	
Date 2-14-14 15	15	14	Ku	33e11	Ks .	10 12 Sec. 12 10 10 10 10 10 10 10 10 10 10 10 10 10	1:30 AM	
	oreg 8	il tears are be	Locati	on Russell	sto winterse	+ Rd, 3hw, N	12	
Lease Krug L	The state of	Well No. 2	1000	Owner	Bridge Associated and the	da Pake be dige	art arterones	
Contractor South wind	3	most intelligence		You are here	ilwell Cementing, Inc. by requested to rent of	cementing equipmen	t and furnish	
Type Job Surface	1	of qa sia la to "	13 20 19	cementer an	d helper to assist own	er or contractor to d	o work as listed.	
Hole Size 12 1/4	T.D.	534	and mark	Charge Mo	rigil	oftensor or a sector	THE PROPERTY OF THE PROPERTY O	
Csg. 8 5/8	Depth	534	sed do	Street	palmente de l'obliga la	CONTROL OF SERVING	SMEN TIE	
Tbg. Size	Depth			City	American principal and a service	State	Control din A. I	
Tool	Depth	throughs today	2017 N		as done to satisfaction an			
Cement Left in Csg.	Shoe J	oint 20		Cement Amo	ount Ordered 250	x 60/40 3%occ	270981	
Meas Line	Displac	e 32 /2 661	1990	H conth	distance is exceed they be	TURKO PBRAN	CMMOT	
EQUIPM	IENT		W. 150	Common	hallowing to mag to a	selected on exports	Shoot Yeller	
Pumptrk 17 No. Cementer Helper NIC	le			Poz. Mix	731.63731	Karakisha ka		
Bulktrk 3 No. Driver Driver	d			Gel.	Makapan sekina doj s	H. CHORAGO YOU	AMAN SATS	
Bulktrk Ph No. Driver Travis	- 14-		- 19	Calcium				
JOB SERVICES	& REMA	RKS	11. 10 d'	Hulls	later does not see do	as beginners as his	bod solite inersal	
Remarks: comput did circul	late.	40 000 Ode VI	1400	Salt				
Rat Hole	i manua		10.00	Flowseal				
Mouse Hole				Kol-Seal			tone demonstration	
Centralizers	Lint mas	ted you yet help		Mud CLR 48	Searcial social vic	a prápa fyrot to tu	rescribed to	
Baskets	arisb i	0.2000-00000	i November	CFL-117 or CD110 CAF 38				
D/V or Port Collar		4400	(real by the	Sand				
				Handling				
		(n.org	Mileage		A STATE OF THE PARTY OF THE PAR	ed missed or par	
	ile e			100	FLOAT EQUIPME	ENT	all employ socion	
distribution of soling logarity				Guide Shoe			VITALE:	
CONSTRUCTO DOSESTA AL ABORDO			6	Centralizer	solor wito	M wine to distant	some at peaces	
	s babba		R Original	Baskets				
Timber Court Williams			87	AFU Inserts			ENEW YEAR	
to grad three lands and		12 62	1	Float Shoe				
				Latch Down			A PROPERTY OF	
	e w an		57130	10 with the party			The second sections	
		1616	18900				distante D	
				Pumptrk Cha	arge			
Clark and appear to a supply a state of the	WC XI	3 to the contract of the	STALL STALL	Mileage	version beginning	Description of the	ymkovi (8)	
CONTRACTOR AND IN STRUMPON	0 00000	e en complete		500 2.63 er er 8		Tax		
× A) (10.00	an Yilliah y	d esco	States (C)		Discount	R nerollantage o	
Signature Signature			1	Later Complete (1)		Total Charge	CELLS OF TO KIN	

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

Phone 785-483-2025 Cell 785-324-1041

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

No. 460

Date 2-18-14 15	Twp. Ra	ange	County Publical	State	On Location	Finish		
		Loca	tion Russe	11 540	witch So	+ 34W		
1 Ha a /		()	Al Al	into)	Wije	1		
Lease //// L	Well N	0.	To Quality Oi	Iwell Cementing, Inc	- TV TO STREET HERE			
Contractor 2 +11 Whiel	1		You are here	by requested to rent	cementing equipment	and furnish		
Type Job Lang Ofring	29	N)	Charge	d helper to assist ow	ner or contractor to do	work as listed.		
Hole Size / 1/8	T.D. 7/4		To	V		Carrier State Control		
Csg. 5 12	Depth 5	99	Street	ICI	011			
Tbg. Size	Depth	Section of the	City		State			
Tool	Depth	- 1 1 2	The above was	s done to satisfaction a	and supervision of owner	agent or contractor.		
Cement Left in Csg. 91,40	Shoe Joint	2:40	Cement Amo	ount Ordered 100	60140 %	908gl		
Meas Line	Displace 9	DBIL	18 705	2017/44	tou	, years and		
EQUIPM	IENT		Common	100 60/40	190,5€			
Pumptrk No. Cementer Helper	H		Poz. Mix/0	90 Salt Yo	4 flow	on to got the Nation		
Bulktrk 9 No. Driver Driver	10		Gel.	printer and the fight		Programa .		
Bulktrk 3 No. Driver Driver	dd	Dus	Calcium	Mary Arrando as	DEL AROES LES	Garage .		
DA JOB SERVICES	& REMARKS		Hulls	and was a first	ad ing ortons such			
Remarks:		Selevination	Salt	Salt				
Rat Hole 30 545	re. Ouelcroer	aboutoom or	Flowseal	Flowseal				
Mouse Hole		1/	Kol-Seal		Anna Programme de la company			
Centralizers [-12, 14,]	-3,26,1	45	Mud CLR 48	1000 03	iod set wyksiach, die			
Baskets # 2, 17, 4	6	Tonggoot jew	CFL-117 or C	CD110 CAF 38	C-045			
D/V or Port Collar 1451	# 4	6	Sand	and the same	46	Note har page		
Droped Bull	Carrie	154 /	Handling					
49 Min Pin	March 7	Phish	Mileage	71 91		ng Singarkusomu		
Dlug Part holo	e Van	() w	920	FLOAT EQUIPM	IENT			
170 5/15 down	~ hole		Guide Shoe					
DE Alved Wit	hilli	· Yak	Centralizer	tur603.	16	1.274.20		
80 131	market Y	Lityo borleimis	Baskets 3 Blu do-					
			AFU Inserts		Marin	in a second side		
DIQ N		N DAIVE	Float Shoe					
Litt Oill	10	SI	Latch Down					
1 1100					the art med control			
1-and 10(1)	10/100		A SALES OF THE REAL PROPERTY.	mases of the contract of the c				
	1		Pumptrk Cha	Pumptrk Charge				
	700,000,000		Mileage					
1000	. /		Tax					
- 1/1	to en losses, set		Discount	· · · · · · · · · · · · · · · · · · ·				
X Signature	Xinne A A A				Total Charge	The same		
Signature	maier				Total Orlarge			

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Sam Brownback, Governor

Shari Feist Albrecht, Chair Jay Scott Emler, Commissioner Pat Apple, Commissioner

June 23, 2014

Allen Bangert3 Mai Oil Operations, Inc. 8411 PRESTON RD STE 800 DALLAS, TX 75225-5520

Re: ACO-1 API 15-167-23944-00-00 Krug "L" 2 NW/4 Sec.15-15S-14W Russell County, Kansas

Dear Allen Bangert3:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 02/13/2014 and the ACO-1 was received on June 17, 2014 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department