

1210825

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, 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 / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes 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, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Krug "L" 2
Doc ID	1210825

Tops

Name	Top	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
Arbuckle	3217	-1430

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.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	793	+994
Base Anhydrite	826	+961
Grand Haven	2338	-551
1 st Tarkio Sad	2350	-563
Dover	2364	-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 tops and zones corrected to Electric Log measurements).

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.

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 3300
Log Total Depth 3299

Recommendations:

5 1/2" production casing was set and cemented in the Krug 'L' #2.

Respectfully submitted;

James C. Musgrove
James C. Musgrove,
Petroleum Geologist LLC



3299-3300 Dolomite; as above, sandy in part, trace gray and white chert and iron pyrite.

Rotary Total Depth 3300
Log Total Depth 3299

Recommendations:
5 1/2" production casing was set and cemented in the Krug 'L' #2.

Respectfully submitted;

James C. Musgrove

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

Date	Sec.	Twp.	Range	County	State	On Location	Finish
2-14-14	15	15	14	Russell	Ks		1:30AM

Location: Russell 5 to winter set Rd, 3/4 W, N 2

Lease	Well No.	Owner
Krug L	2	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor		
Southwind	3	
Type Job		
Surface		
Hole Size	T.D.	Charge To
12 1/4	534	Mg oil
Csg.	Depth	Street
8 5/8	534	
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	Cement Amount Ordered
	20	250 sk 60/40 3%cc 2%gel
Meas Line	Displace	
	32 1/2 bbl	

EQUIPMENT

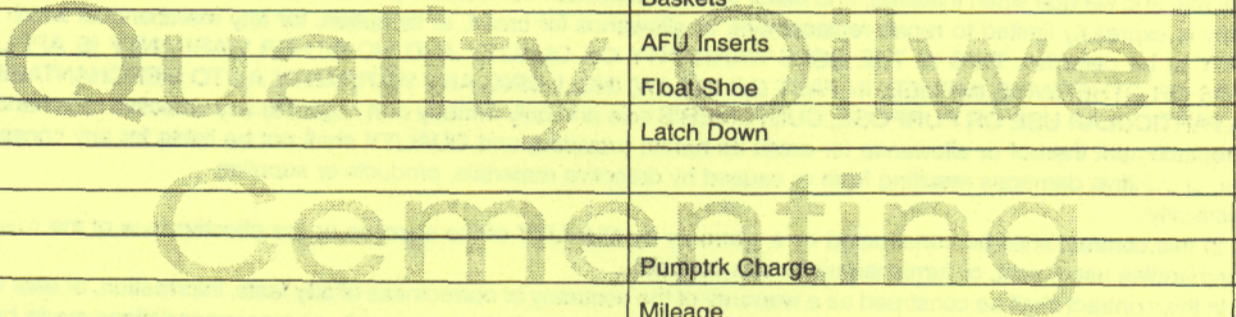
	No.	Cementer	Common
Pumptrk	17	Helper	Poz. Mix
		Nick	
	No.	Driver	Gel.
Bulktrk	3	Driver	
		David	
	No.	Driver	Calcium
Bulktrk	PH	Driver	
		Travis	

JOB SERVICES & REMARKS

Remarks:	Hulls
cement did circulate	Salt
Rat Hole	Flowseal
Mouse Hole	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand
	Handling
	Mileage

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down



	Pumptrk Charge	Tax
	Mileage	Discount
		Total Charge
X Signature		
Jay Duke		

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	Sec.	15	Twp.	15	Range	14	County	Russell	State	Ks	On Location	2:00 AM	Finish	
Lease								Location		Russell Sta Unit 5 Set 74W					
Lease								Well No.		2					
Contractor								Owner		N INTO					
Type Job								To Quality Oilwell Cementing, Inc. 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								Charge To		M Oil					
Csg.								Street		M Oil					
Tbg. Size								City		State					
Tool								The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.								Shoe Joint		Cement Amount Ordered					
Meas Line								Displace		15 90 salt Yu-flow					
EQUIPMENT								Common							
Pumptrk								No.		100 60/40 2% gel					
Bulktrk								No.		10% salt Yu-flow					
Bulktrk								No.		Gel.					
Bulktrk								No.		Calcium					
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
Dropped Bulk								Handling							
US Min								Mileage							
plug Rat hole								FLOAT EQUIPMENT							
70 s/s down hole								Guide Shoe							
Dis placed with water								Centralizer							
80 BBL								Baskets							
L ft 8.00 PSI								AFU Inserts							
Land 1600 PSI								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Mileage							
								Tax							
								Discount							
X Signature								Total Charge							

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/>

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

Sam Brownback, Governor

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