



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1231173
OIL & GAS CONSERVATION DIVISION

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

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: _____



1231173

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: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Kramer "A" 10
Doc ID	1231173

Tops

Name	Top	Datum
Anhydrite	879	+1020
Tarkio Lime	2517	-618
Topeka	2791	-892
Heebner	3019	-1120
Toronto	3035	-1136
Lansing	3081	-1182
Base Kansas City	3284	-1385
Arbuckle	3330	-1431

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
Kramer 'A' #10
N/2-SW-NW-SW (1800'FSL & 330'FWL)
Section 14-15s-14w
Russell County, Kansas

Page 1

5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (rig #3)

Commenced: June 2, 2014

Completed: June 8, 2014

Elevation: 1893' K.B., 1891' D.F., 1885' G.L.

Casing program: Surface; 8 5/8" @ 515'
Production, 5 1/2" @ 3399'

Sample: Samples saved and examined 2300' to the Rotary Total Depth.

Drilling time: One (1) foot drilling time recorded and kept 2300 ft. to the Rotary Total Depth.

Measurements: All depths measured from the Kelly Bushing.

Drill Stem Tests: There were two (2) Drill Stem Tests ran by Trilobite Testing Co.

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

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	888	+1005
Base Anhydrite	922	+971
Grand Haven	2447	-554
1 st Tarkio Sand	2460	-567
Dover	2471	-578
2 nd Tarkio Sand	2475	-582
Tarkio Lime	2517	-624
Willard Sand (3 rd Tarkio)	2551	-658
Elmont	2579	-686
Howard	2718	-825
Topeka	2790	-897
Heebner	3017	-1124
Toronto	3031	-1138
Lansing	3079	-1186
Base Kansas City (Mai)	3283	-1390
Arbuckle	3328	-1435
Rotary Total Depth	3400	-1507
Log Total Depth	3401	-1508

All tops and zones corrected to Electric Log Measurement.

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

1ST TARKIO SAND

2460-2466' Sand, gray; very fine grained 'highly shaley' siltstone, no shows.

2nd TARKIO SAND

2475-2492' No visible sands, poorly developed siltstone.

3rd TARKIO SAND "WILLARD"

2531-2566' Sand, white, gray, very fine grained, sub-rounded; few friable; trace brown stain, trace of free oil and no odor.

TOPEKA SECTION

2810-2815' Limestone, cream, fossiliferous, fossiliferous in part, questionable stain, no show of free oil and no odor.

2897-2910' Limestone, gray, cream, fossiliferous, chalky, poor visible porosity, trace brown stain, weak show of free oil and no odor.

2950-2960' Limestone, tan, fossiliferous, slightly cherty; scattered vuggy porosity, dark brown stain, no free oil and no odor in fresh samples.

2961-2980' Limestone, white, cream, finely crystalline, fossiliferous in part, chalky, poor brown stain, weak show of free oil and no odor in fresh sample.

TORONTO SECTION

3033-3042' Limestone, white/cream, finely crystalline, chalky, poor visible porosity, few scattered pinpoint type porosity, golden brown stain, no free oil and no odor in fresh samples.

LANSING SECTION

3080-3086' Limestone, tan, gray, fossiliferous, chalky in part; brown stain, weak show of free oil and good odor in fresh samples.

3100-3105' Limestone, cream, white, finely oolitic, scattered porosity; brown stain, trace of free oil and faint odor in fresh samples.

3112-3130' Limestone, tan, white, oomoldic, good oomoldic porosity; brown and golden brown stain, show of free oil and fair odor in fresh sample.

Drill Stem Test #1 3082-3140

Times: 30-30-30-45

Blow: Weak

Recovery: 15' mud, with oil spots

**Pressures: ISIP 330 psi
FSIP 308 psi
IFP 2-7 psi
FFP 8-11 psi
HSH 1535-1497 psi**

- 3151-3155' Limestone, white, cream, oolitic, chalky; trace of brown stain, weak show of free oil and faint odor in fresh samples.
- 3176-3192' Limestone, white, cream, oomoldic, fair oomoldic porosity, trace brown stain, show of free oil and faint odor in fresh samples.
- 3208-3216' Limestone, gray, white, highly oolitic, dense inter-crystalline porosity.
- 3225-3236' Limestone, white, gray, oolitic, sub-oomoldic, chalky, no stains.
- 3243-3253' Limestone, gray, white, oolitic, sub-oomoldic, chalky, no shows.
- 3259-3276' Limestone, as above, light brown stain/golden brown stain; no free oil and no odor in fresh samples.
- 3295-3302' Limestone, white, gray, finely crystalline, chalky, no shows.

ARBUCKLE SECTION

- 3328-3330' Dolomite, cream, white, finely crystalline, slightly cherty, trace iron pyrite, brown stain, show of free oil and faint odor.
- 3330-3334' Dolomite, cream, white, light gray, fine and medium crystalline, scattered inter-crystalline to fair vuggy porosity, brown stain, show of free oil and fair odor in fresh samples.

**Drill Stem Test #2 3305-3373
(3306-3334) Log measurements**

Times: 30-30-30-30

Blow: Strong

Recovery: 63' gas in pipe
 83' gassy slightly mud cut oil
 (55% gas; 40% oil; 5% mud)
 63' slightly mud cut gassy oil
 Trace of water
 (20% gas; 65% oil; 10% water; 5% mud)
 126' oil and gas cut watery mud
 (45% gas; 30% oil; 20% water; 5% mud)
 315' slightly oil cut muddy water
 (5% oil; 75% water; 20% mud)

Pressures: ISIP 1084 psi
 FSIP 1082 psi
 IFP 20-142 psi
 FFP 146-245 psi
 HSH 1695-1632 psi

- 3335-3350' Dolomite, cream, white, fine and medium crystalline, fair to good inter-crystalline and vuggy type porosity; brown stain and saturation, fair to good show of free oil and good odor in fresh samples.

Mai Oil Operations
Kramer 'A' #10
N/2-SW-NW-SW (1800'FSL & 330'FWL)
Section 14-15s-14w
Russell County, Kansas

Page 4

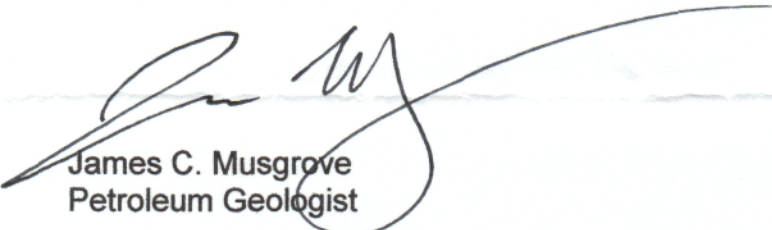
3350-3360'	Dolomite as above.
3360-3370'	Dolomite, white, gray, medium and coarse crystalline, good stain and saturation, good show of free oil and good odor in fresh samples.
3370-3380'	Dolomite, as above, good stain/saturation, good show of free oil and good odor in fresh samples.
3380-3400'	Dolomite, white, finely crystalline, sandy, fair porosity, black and gray to brown stain, show of free oil and fair odor, plus white chert.

Rotary Total Depth	3400
Log Total Depth	3401

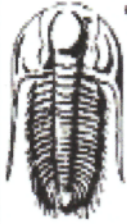
Recommendations:

5 1/2" production casing was set and cemented on the Kramer 'A' #10.

Respectfully submitted;



James C. Musgrove
Petroleum Geologist



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations, Inc
 8411 Preston Rd Ste 800
 Dallas, TX 75225
 ATTN: Jim Musgrove

14-15s-14w Russell,KS
Kramer "A" #10
 Job Ticket: 59376 **DST#: 1**
 Test Start: 2014.06.06 @ 22:45:00

GENERAL INFORMATION:

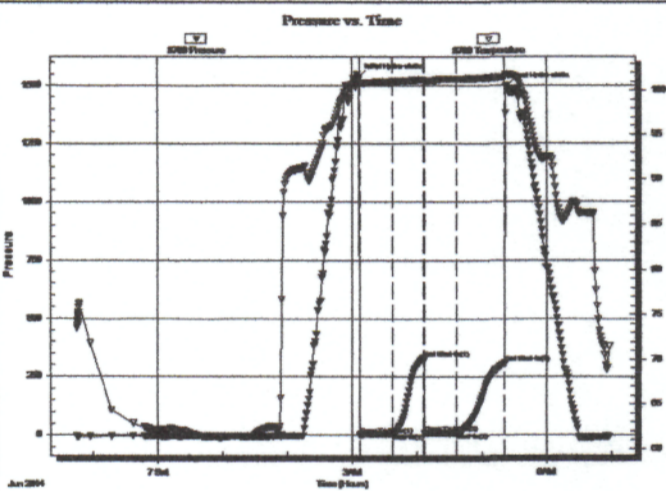
Formation: **LKC "A-C"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:06:30
 Time Test Ended: 06:57:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Phillip Gage
 Unit No: 70
 Interval: **3082.00 ft (KB) To 3140.00 ft (KB) (TVD)**
 Total Depth: 3140.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Reference Elevations: 1893.00 ft (KB)
 1885.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8700

Outside

Press@RunDepth: 11.86 psig @ 3105.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.06.06 End Date: 2014.06.07 Last Calib.: 2014.06.07
 Start Time: 22:45:05 End Time: 06:57:29 Time On Btm: 2014.06.07 @ 03:06:00
 Time Off Btm: 2014.06.07 @ 05:22:00

TEST COMMENT: 30-IF-Built to 1 1/8"
 30-ISI-No Return.
 30-FF-No Blow.
 45-FSI-No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1535.35	101.18	Initial Hydro-static
1	2.54	100.85	Open To Flow (1)
32	7.84	101.01	Shut-In(1)
60	330.71	101.17	End Shut-In(1)
61	8.54	101.10	Open To Flow (2)
91	11.86	101.28	Shut-In(2)
135	308.15	101.49	End Shut-In(2)
136	1497.09	101.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	M, w with oil spots, 100% m	0.21

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRIBOLITE
TESTING, INC**

DRILL STEM TEST REPORT

Mai Oil Operations, Inc
8411 Preston Rd Ste 800
Dallas, TX 75225
ATTN: Jim Musgrove

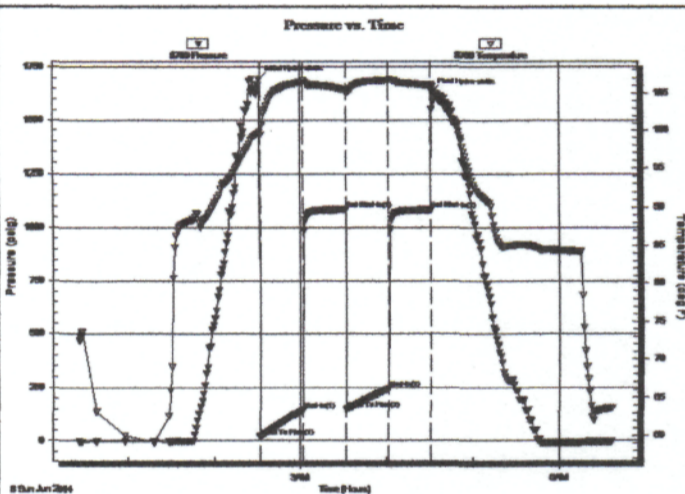
14-15s-14w Russell,KS
Kramer "A" #10
Job Ticket: 59377 DST#: 2
Test Start: 2014.06.08 @ 00:26:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 02:32:00
Time Test Ended: 06:37:00
Interval: **3305.00 ft (KB) To 3333.00 ft (KB) (TVD)**
Total Depth: 3333.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Phillip Gage
Unit No: 70
Reference Elevations: 1893.00 ft (KB)
1885.00 ft (CF)
KB to GRV/CF: 8.00 ft

Serial #: 8700 Outside
Press@RunDepth: 245.09 psig @ 3306.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.06.08 End Date: 2014.06.08 Last Calib.: 2014.06.08
Start Time: 00:26:05 End Time: 06:36:59 Time On Btmr: 2014.06.08 @ 02:31:30
Time Off Btmr: 2014.06.08 @ 04:32:00

TEST COMMENT: 30-IF-BOB in 5 mins.
30-ISI-1 1/4" Return
30-FF-BOB in 10 mins.
30-FSI-1 3/4" Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1695.15	99.69	Initial Hydro-static
1	20.47	99.36	Open To Flow (1)
30	142.17	106.41	Shut-In(1)
60	1084.14	105.39	End Shut-In(1)
61	146.41	105.08	Open To Flow (2)
90	245.09	106.66	Shut-In(2)
120	1082.97	105.90	End Shut-In(2)
121	1632.90	105.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (tbl)
315.00	V SOMCW, 5%o, 20%m, 75%o	4.42
126.00	V SMMOCG, 5%m, 20%w, 30%o, 45%g	1.77
63.00	V SMMGCO, 5%m, 10%w, 20%g, 65%o	0.88
83.00	V SMOCG, 5%m, 40%o, 55%g	1.16
0.00	GIP 63'	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

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. 137

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-3-14	14	15	14	Russell	Ks.		10:30 PM

Location: Russell, KS 8 1/2 S 1/2 W INTO 4S.

Lease	Well No.	Owner	
KRAMER "A"	10	To Quality Oilwell Cementing, Inc.	
Contractor	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.		
SOUTHWIND DRIG. Rig #3			
Type Job	Charge To		
Long Surface	MAI OIL OPERATIONS		
Hole Size	T.D.	Street	
12 7/8	515		
Csg.	Depth	City	
8 5/8 New	515	State	
Tbg. Size	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
23# csg			
Tool	Shoe Joint	Cement Amount Ordered	
		250 sx 60	
Cement Left in Csg.	Displace	2% Gel	3% cc
20'	31 1/2 BBL		

EQUIPMENT

Pumptrk	No.	Cementer	Glenn G.	Common
10		Helper	CODY B.	Poz. Mix
Bulktrk	No.	Driver	LONGHORN M.	Gel.
1		Driver		Calcium
Bulktrk	No.	Driver		
		Driver		

JOB SERVICES & REMARKS

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

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	
Mileage	

Ran 12 New JOINTS OF 23#
8 5/8 Csg.
Set @ 515, received
CIRCULATION, + Cement
Surface w/ 250 SX
60/40 2% Gel, + 3% cc
Release T.R.P. + Displaced
31 1/2 BBL H₂O + SHUT IN
@ 400 #.
Cement Did Circulate TO
Surface

Signature: [Handwritten Signature]

Tax	
Discount	
Total Charge	

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. 447

Date	6-8-14	Sec.	14	Twp.	15	Range	14	County	Russell	State	KS	On Location	9:45pm	Finish	1:00AM
Lease								Location		Russell 5-to River 15 units					
Kramer "A"								Well No.		10					
Contractor								3		Owner					
Southwind										To Quality Oilwell Cementing, Inc.					
Type Job										You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Long Stair															
Hole Size								T.D.		Charge To					
7 7/8								3400		Ma. Oil					
Csg.								Depth		Street					
5 1/2								3398		City					
Tbg. Size								Depth		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					
1894								1894		160 60/40					
Meas Line								Displace		Common					
14H								82.57		10% salt + 2% gel + flow					
EQUIPMENT															
Pumptrk		No.		Cementer		Helper						Poz. Mix			
20				Tott											
Bulktrk		No.		Driver		Driver						Gel.			
1				Nick											
Bulktrk		No.		Driver		Driver						Calcium			
pu				Lonnie											
JOB SERVICES & REMARKS															
Remarks:												Hulls			
Rat Hole												Salt			
30 S/S												Flowseal			
Mouse Hole												Kol-Seal			
Centralizers												Mud CLR 48			
1-7 9-11												1000 g			
Baskets												CFL-117 or CD110 CAF 38			
D/V or Port Collar												Sand			
Dropped Ball Circulated												Handling			
US man - Ran mud fish												Mileage			
plug bot hole with												5H			
30 S/S down hole												FLOAT EQUIPMENT			
Dis placed with water												Guide Shoe			
Lift 200 PSI												Centralizer turbos 10			
Level 1500 PSI												Baskets			
												AFU Inserts			
												Float Shoe 4			
												Latch Down 1			
												Pumptrk Charge			
												Mileage			
												Tax			
												Discount			
X Signature												Total Charge			
Burt Horvath															

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



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

November 10, 2014

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

Re: ACO-1
API 15-167-23971-00-00
Kramer "A" 10
SW/4 Sec.14-15S-14W
Russell County, Kansas

Dear Allen Bangert:

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 05/21/2014 and the ACO-1 was received on November 07, 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