



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1076990
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: _____

1076990

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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
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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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JAMES C. MUSGROVE

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

Office (620) 588-4250

Res. Clafin (620) 587-3444

Mai Oil Operations
Lorrain Krug #1
NW-NW-SW-SE (1030' FSL & 2370' FEL)
Section 9-15s-14w
Russell County, Kansas
Page 1

5 1/2" Production Casing Set

Contractor: Southwind Drilling Co (Rig #3)
Commenced: January 9, 2012
Completed: January 16, 2012
Elevation: 1819' K.B; 1817' D.F; 1811' G.L.
Casing program: Surface; 8 5/8" @ 436'
Production; 5 1/2" @ 3354
Sample: Samples saved and examined 2200' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2200 ft to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There were five (5) Drill Stem Tests ran by Trilobite Testing.
Electric Log: By Log Tech; Dual Induction, Dual Compensated Porosity, and Micro Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Grand Haven	2392	-573
1 st Tarkio Sand	2403	-584
Dover	2421	-602
2 nd Tarkio Sand	2430	-611
Tarkio Lime	2463	-644
3 rd Tarkio Sand	2482	-663
Elmont	2525	-706
Howard	2663	-844
Topeka	2729	-910
Heebner	2961	-1142
Toronto	2980	-1161
Lansing	3021	-1202
Arbuckle	3277	-1458
Rotary Total Depth	3355	-1536
Log Total Depth	3355	-1536

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

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

TARKIO SECTION

2403-2412' Sand; white very fine grained, sub rounded, few friable, questionable stain, no show of free oil and no odor.

2ND TARKIO SAND SECTION

2430-2444' Sand; very fine grained, sub rounded, micaceous shale, plus iron pyrite, no shows.

3RD TARKIO SAND SECTION

2482-2496' Sand; gray, tan, very fine grained, "shaley", micaceous, no shows.

TOPEKA SECTION

2909-2936' Limestone; gray, white, fossiliferous in part, chalky, poor visible porosity, trace black stain, no show of free oil and no odor in fresh samples.

2936-2951' Limestone; gray, tan, finely crystalline, slightly dolomitic, poor porosity, no shows, plus gray chert.

TORONTO SECTION

2980-2986' Limestone; white, gray, chalky, poor porosity, trace brown stain, no show of free oil and no odor in fresh samples.

LANSING SECTION

3022-3026' Limestone; white, gray, finely crystalline, chalky, poor porosity, trace brown stain, no show of free oil and faint odor in fresh samples.

3026-3056' Limestone; as above, few fossiliferous, trace stain, show of free oil and questionable odor in fresh samples.

3060-3064' Limestone; gray, oomoldic, fair oomoldic porosity, trace brown stain, show of free oil and no odor in fresh samples.

3070-3075' Limestone; gray, white, slightly oolitic, chalky, dense.

3097-3100' Limestone; gray, fossiliferous, poor porosity, brown and gray stain, no show of free oil and questionable odor in fresh samples.

3100-3109' Limestone; tan, fossiliferous, scattered porosity, golden brown and brown stain, show of free oil and faint odor in fresh samples.

Drill Stem Test #1 3055-3114'

Times: 30-30-30-30

Blow: Very weak

Recovery: 8' mud, few oil specks

Pressures: ISIP 41 psi
FSIP 26 psi
IFP 16-19 psi
FFP 17-16 psi
HSH 1535-1509 psi

3120-3130' Limestone; gray, oomoldic, chalky, trace brown stain, trace of free oil and no odor in fresh samples.

Drill Stem Test #2 3115-3134'

Times: 30-30-30-45
Blow: Weak
Recovery: 10' muddy water, few oil spots
Pressures: ISIP 582 psi
FSIP 568 psi
IFP 10-18 psi
FFP 20-23 psi
HSH 1564-1520 psi

3168-3172' Limestone; white, gray, few oolitic, chalky, poor visible porosity, no shows.

3182-3192' Limestone; white, gray, fossiliferous scattered porosity, brown and dark brown stain, show of free oil (gassy) and no odor in fresh samples.

3201-3216' Limestone; white, gray, few fossiliferous, poor visible porosity, trace poor stain, no show of free oil and questionable odor in fresh samples.

Drill Stem Test #3 3177-3223'

Times: 30-30-30-45
Blow: Weak
Recovery: 6' mud
Pressures: ISIP 489 psi
FSIP 78 psi
IFP 14-18 psi
FFP 18-19 psi
HSH 1598-1565 psi

3236-3250' Limestone; tan, finely crystalline, few granular, cherty in part, no shows.

ARBUCKLE SECTION

3277-3280' Dolomite; cream and white, medium crystalline, fair to good intercrystalline porosity, brown stain and saturation, show of free oil and faint to fair odor in fresh samples.

Drill Stem Test #4 3243-3280'

Times: 30-30-30-45
Blow: Weak
Recovery: 15' gassy oil
5' oil cut mud
(10% oil, 90% mud)
Pressures: ISIP 1048 psi
FSIP 1067 psi
IFP 12-15 psi
FFP 17-19 psi
HSH 1655-1592 psi

3280-3285' Dolomite; as above, good stain and saturation, good show of free oil and good odor in fresh samples.

Drill Stem Test #5 3244-3285'

Times: 30-30-30-30
Blow: Strong
Recovery: 217' gassy oil
62' oil cut mud
(20% oil, 80% mud)
Pressures: ISIP 1092 psi
FSIP 1076 psi
IFP 19-70 psi
FFP 72-119 psi
HSH 1655-1610 psi

3285-3294' Dolomite; as above.

3300-3310' Dolomite; cream, white, medium crystalline, good intercrystalline porosity, brown and dark brown stain, show of free oil and good odor.

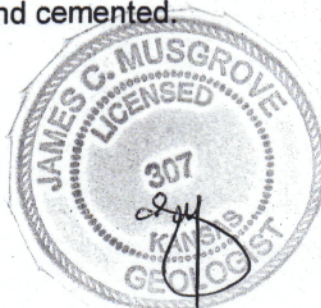
3310-3320' Dolomite; as above, sandy, decreasing stain, show of free oil and odor.

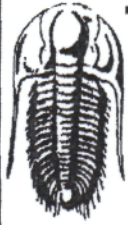
3320-3355' Dolomite; cream, white, finely crystalline, few sucrosic, highly sandy, no shows.

Rotary Total Depth 3355

Recommendations:
5 1/2" production casing was set and cemented.

Respectfully submitted;
James C. Musgrove
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

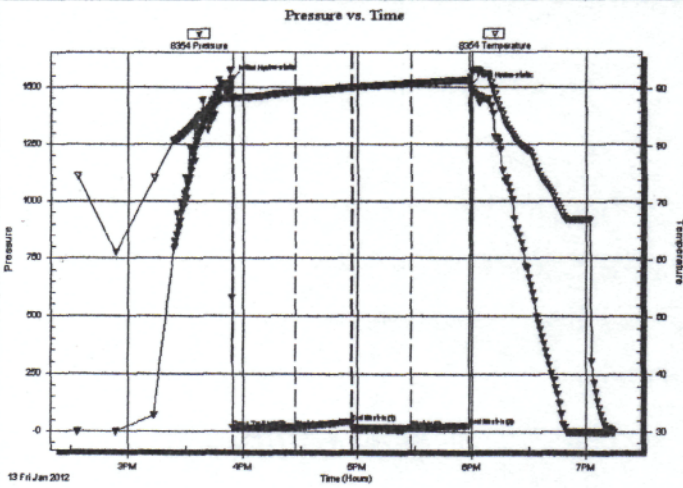
9/15S/14W-Russell
Lorraine Krug #1
Job Ticket: 46362 **DST#: 1**
Test Start: 2012.01.13 @ 14:23:30

GENERAL INFORMATION:

Formation: LKC "C-F"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:54:30
Time Test Ended: 19:15:30
Interval: 3055.00 ft (KB) To 3114.00 ft (KB) (TVD)
Total Depth: 3114.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Rash
Unit No: 38
Reference Elevations: 1820.00 ft (KB)
1811.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8354 **Inside**
Press@RunDepth: 16.21 psig @ 3094.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.01.13 End Date: 2012.01.13 Last Calib.: 2012.01.13
Start Time: 14:33:30 End Time: 19:15:30 Time On Btm: 2012.01.13 @ 15:54:10
Time Off Btm: 2012.01.13 @ 17:59:00

TEST COMMENT: IF-Very weak blow . Built to 1/2 inch. Died @ 22 minutes.
IS-No Return.
FF-Weak surface blow . Died @ 8 minutes 30 seconds.
FSI-No Return.



PRESSURE SUMMARY

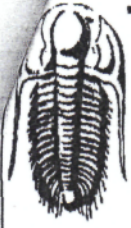
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1535.19	88.69	Initial Hydro-static
1	16.26	88.28	Open To Flow (1)
33	18.87	89.42	Shut-In(1)
63	41.47	90.25	End Shut-In(1)
63	19.19	90.26	Open To Flow (2)
94	16.21	90.99	Shut-In(2)
125	26.18	91.64	End Shut-In(2)
125	1504.68	92.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
8.00	1%Oil/99%Mud	0.11

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

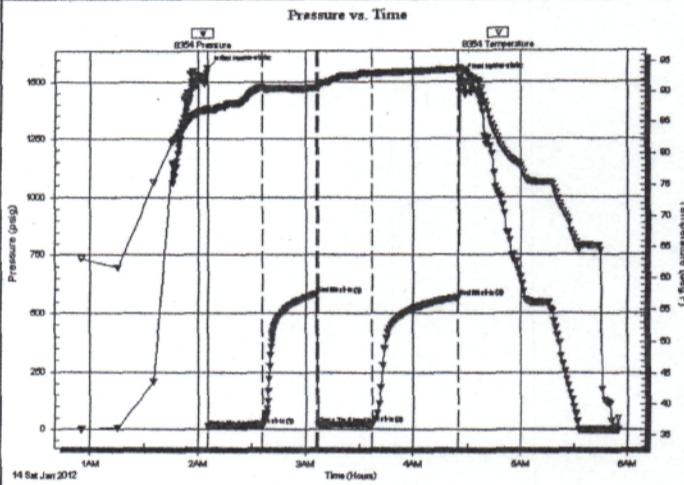
9/15S/14W-Russell
Lorraine Krug #1
Job Ticket: 46363 DST#: 2
Test Start: 2012.01.14 @ 00:45:15

GENERAL INFORMATION:

Formation: **LKC "G"**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 02:05:15
Time Test Ended: 05:54:45
Test Type: **Conventional Bottom Hole (Initial)**
Tester: **Dustin Rash**
Unit No: **38**
Interval: **3115.00 ft (KB) To 3134.00 ft (KB) (TVD)**
Total Depth: **3134.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Reference Elevations: **1820.00 ft (KB)**
1811.00 ft (CF)
KB to GR/CF: **9.00 ft**

Serial #: 8354 Inside
Press@RunDepth: **23.06 psig @ 3117.00 ft (KB)**
Start Date: **2012.01.14 End Date: 2012.01.14**
Start Time: **00:55:15 End Time: 05:54:45**
Capacity: **8000.00 psig**
Last Calib.: **2012.01.14**
Time On Btm: **2012.01.14 @ 02:05:05**
Time Off Btm: **2012.01.14 @ 04:26:15**

TEST COMMENT: IF-Very weak building blow . Built to 3/4 inch.
ISI-No Return.
FF-Weak surface blow . Died @ 11 minutes.
FSI-No Return.



PRESSURE SUMMARY

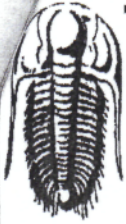
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1563.48	87.28	Initial Hydro-static
1	10.28	86.78	Open To Flow (1)
31	18.10	90.74	Shut-In(1)
61	581.79	90.63	End Shut-In(1)
62	19.83	90.73	Open To Flow (2)
92	23.06	93.04	Shut-In(2)
140	568.08	93.67	End Shut-In(2)
142	1520.20	93.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	70%Water/30%Mud	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

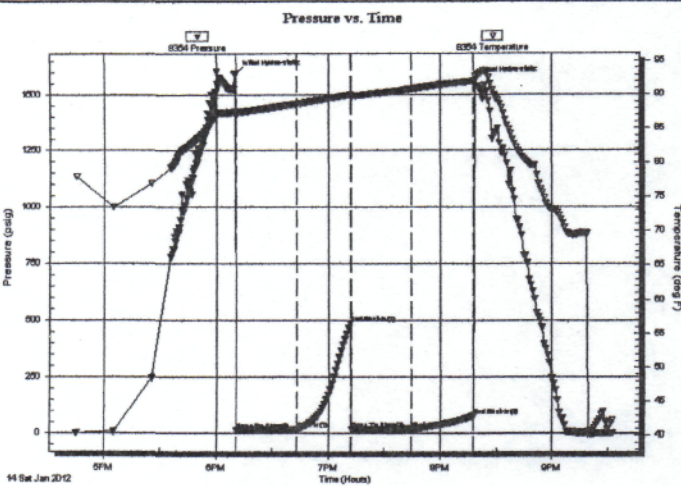
9/15S/14W-Russell
Lorraine Krug #1
Job Ticket: 46364 **DST#: 3**
Test Start: 2012.01.14 @ 16:35:15

GENERAL INFORMATION:

Formation: **LKC "I-J**
Deviated: **No Whipstock:** **ft (KB)**
Time Tool Opened: 18:10:45
Time Test Ended: 21:33:15
Interval: **3177.00 ft (KB) To 3223.00 ft (KB) (TVD)**
Total Depth: **3223.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole (Initial)**
Tester: **Dustin Rash**
Unit No: **38**
Reference Elevations: **1820.00 ft (KB)**
1811.00 ft (CF)
KB to GR/CF: **9.00 ft**

Serial #: 8354 **Inside**
Press@RunDepth: **19.48 psig @ 3215.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2012.01.14** End Date: **2012.01.14** Last Calib.: **2012.01.14**
Start Time: **16:45:15** End Time: **21:33:15** Time On Btm: **2012.01.14 @ 18:10:25**
Time Off Btm: **2012.01.14 @ 20:18:45**

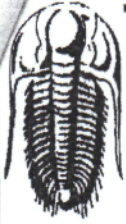
TEST COMMENT: IF-Weak surface blow . Died @ 11 minutes.
ISI-No Return.
FF-Weak surface blow . Died @ 4 minutes 30 seconds.
FSI-No Return.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1598.15	87.48	Initial Hydro-static
1	14.03	86.88	Open To Flow (1)
33	17.78	88.63	Shut-In(1)
62	489.21	89.96	End Shut-In(1)
62	17.64	89.86	Open To Flow (2)
94	19.48	90.84	Shut-In(2)
128	77.54	92.02	End Shut-In(2)
129	1565.12	92.73	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
6.00	100%Mud	0.08

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

9/15S/14W-Russell
Lorraine Krug #1
Job Ticket: 46365 **DST#: 4**
Test Start: 2012.01.15 @ 08:06:15

GENERAL INFORMATION:

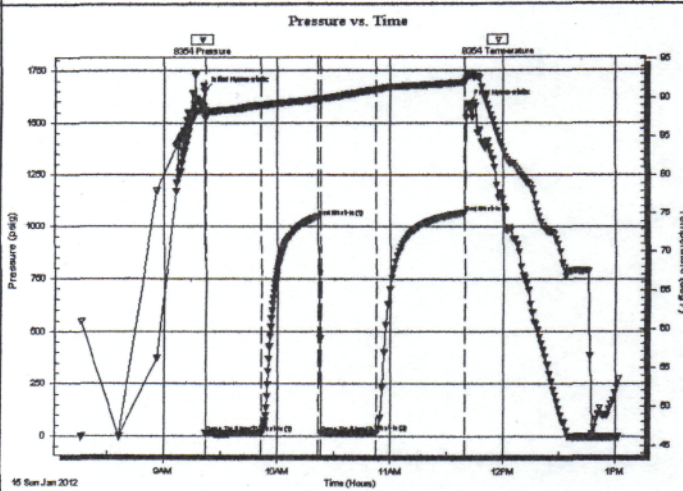
Formation: **Arbuckle**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 09:21:55
Time Test Ended: 13:01:45
Test Type: **Conventional Bottom Hole (Initial)**
Tester: **Dustin Rash**
Unit No: **38**
Interval: **3243.00 ft (KB) To 3280.00 ft (KB) (TVD)**
Total Depth: **3280.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Reference Elevations: **1820.00 ft (KB)**
1811.00 ft (CF)
KB to GR/CF: **9.00 ft**

Serial #: 8354

Inside

Press@RunDepth: **19.48 psig @ 3245.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2012.01.15** End Date: **2012.01.15** Last Calib.: **2012.01.15**
Start Time: **08:16:15** End Time: **13:01:45** Time On Btm: **2012.01.15 @ 09:21:45**
Time Off Btm: **2012.01.15 @ 11:41:15**

TEST COMMENT: IF-Weak building blow . Built to 1/2 inch. Died off to surface blow .
ISI-No Return.
FF-Very weak building blow . Built to 1 inch. Died off to 1/2 inch.
FSI-No Return.



PRESSURE SUMMARY

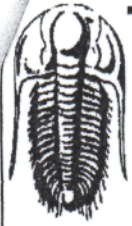
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1655.11	88.39	Initial Hydro-static
1	12.36	87.34	Open To Flow (1)
30	15.33	89.03	Shut-In(1)
60	1047.82	89.82	End Shut-In(1)
62	16.72	89.68	Open To Flow (2)
91	19.48	91.04	Shut-In(2)
138	1066.93	92.02	End Shut-In(2)
140	1591.72	92.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	10%Oil/90%Mud	0.07
15.00	10%Gas/90%Oil	0.21

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

9/15S/14W-Russell
Lorraine Krug #1
 Job Ticket: 46366 **DST#: 5**
 Test Start: 2012.01.15 @ 17:36:15

GENERAL INFORMATION:

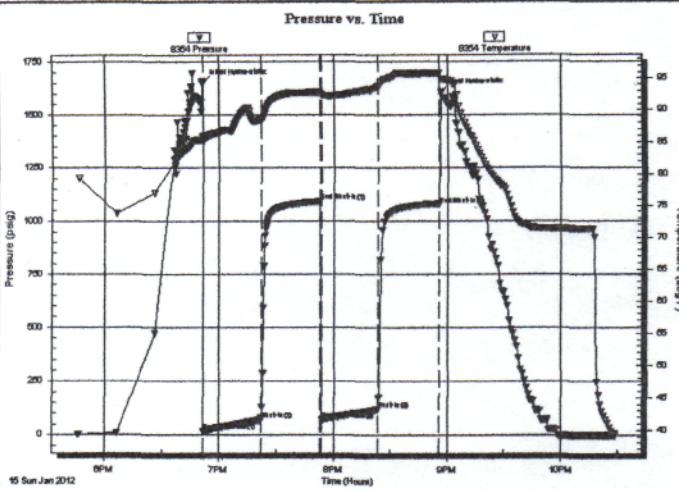
Formation: **Arbuckle**
 Deviated: **No Whipstock:** ft (KB)
 Test Type: **Conventional Bottom Hole (Initial)**
 Time Tool Opened: 18:51:35
 Tester: **Dustin Rash**
 Time Test Ended: 22:28:45
 Unit No: **38**
 Interval: **3244.00 ft (KB) To 3285.00 ft (KB) (TVD)**
 Reference Elevations: **1820.00 ft (KB)**
 Total Depth: **3285.00 ft (KB) (TVD)**
 1811.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **9.00 ft**

Serial #: 8354

Inside

Press@RunDepth: **118.99 psig @ 3246.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2012.01.15** End Date: **2012.01.15** Last Calib.: **2012.01.15**
 Start Time: **17:46:15** End Time: **22:28:45** Time On Btm: **2012.01.15 @ 18:51:25**
 Time Off Btm: **2012.01.15 @ 20:56:45**

TEST COMMENT: IF-Strong building blow . Built to BOB in 18 minutes.
 ISI-Return @ 1 minute. Built to 1/4 inch.
 FF-Fair building blow . Built to BOB in 21 minutes 30 seconds.
 FSI-Return @ 2 minutes. Built to 1/4 inch.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1654.97	85.91	Initial Hydro-static
1	19.46	85.07	Open To Flow (1)
31	70.33	88.45	Shut-in(1)
62	1091.83	92.77	End Shut-in(1)
63	71.88	92.41	Open To Flow (2)
92	118.99	93.68	Shut-in(2)
125	1076.26	95.83	End Shut-in(2)
126	1610.21	94.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	20%Oil/80%Mud	0.87
217.00	20%Gas/80%Oil	3.04

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

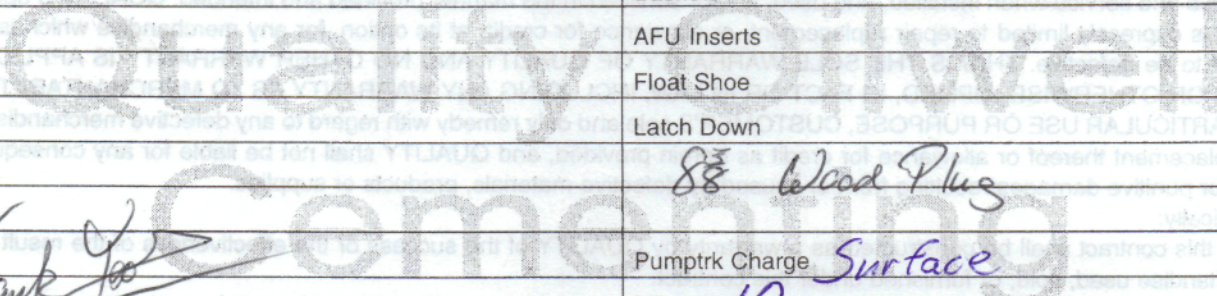
Home Office P.O. Box 32 Russell, KS 67665

No. 147

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-9-12	9	15	14	Russell	Kansas		12:00Am
Lease <i>Laramie-Roug</i>	Well No. <i>1</i>	Location <i>Russell S. across River 1W 15S 3W</i>					
Contractor <i>Southwind Drilling Rig 3</i>	Owner			To Quality Oilwell Cementing, Inc.			
Type Job <i>Surface</i>	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 <i>12 1/4</i>	T.D. <i>436</i>	Charge To <i>Main Oil Operations</i>					
Csg. <i>88</i>	Depth <i>436</i>	Street					
Tbg. Size	Depth	City		State			
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg. <i>10-15'</i>	Shoe Joint	Cement Amount Ordered <i>225 gal 40 3% CC 23/4</i>					
Meas Line	Displace <i>26 3/4 Bbl</i>						
EQUIPMENT							
Pumptrk <i>15</i>	No. Cementer <i>Steve</i>	Common <i>135</i>					
Bulktrk <i>3</i>	No. Driver <i>Craig</i>	Poz. Mix <i>90</i>					
Bulktrk	No. Driver <i>Michael</i>	Gel. <i>5</i>					
Bulktrk	No. Driver <i>Brett</i>	Calcium <i>10</i>					
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 <i>240</i>						
	Mileage						
FLOAT EQUIPMENT							
	Guide Shoe						
	Centralizer						
	Baskets						
	AFU Inserts						
	Float Shoe						
	Latch Down						
	<i>88 Wood Plug</i>						
	Pumptrk Charge <i>Surface</i>						
	Mileage <i>10</i>						
	Tax						
	Discount						
X Signature <i>Jay Huvé</i>	Total Charge						

Cement did Circulate

Thank You



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. 568

Date	1-16-12	Sec.	9	Twp.	15	Range	14	County	Russell	State	Ks	On Location		Finish	6:45 PM
Lease	Lorraine Krug			Well No.	1		Location Russell, Ks - 5 to River, 1W, 1S								
Contractor	Southwind #3						Owner QW #15								
Type Job	Production						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	7 7/8"			T.D.	3350 3355		Charge To Mai oil operations								
Csg.	5 1/2" 14.00# New			Depth	3394'		Tbg. Size Depth Set @ 3352'								
Tool				Depth			Street								
Cement Left in Csg.	20'			Shoe Joint	20'		City State								
Meas Line				Displace	8 1/4 BLS		The above was done to satisfaction and supervision of owner agent or contractor.								
EQUIPMENT							Salt 1/4# Fl 1000 gal Mud Clear 48								
Pumptrk	5	No.	Cementer	Brett Craig		Common		96							
Bulktrk	3	No.	Driver	Doug		Poz. Mix		64							
Bulktrk	piu.	No.	Driver	Rick		Gel.		3							
JOB SERVICES & REMARKS							Calcium								
Remarks:	Lorraine Krug #1						Hulls								
Rat Hole	30 SX						Salt 14								
Mouse Hole	N/A						Flowseal 40#								
Centralizers	1-9 11# 3ts						Kol-Seal								
Baskets							Mud CLR 48 1000 gal								
D/V or Port Collar							CFL-117 or CD110 CAF 38								
pipe on bottom, break Circulation							Sand								
pump 1000 gal Mud Clear 48							Handling 174								
plug Rathole w/ 30 SX							Mileage								
hook to 5 1/2" casing + mix							FLOAT EQUIPMENT								
130 SX 60140, 2% Gel, 10% Salt, 4# Flo							Guide Shoe								
shut down. wash pump + lines							Centralizer 10 turbo's								
Released plug.							Baskets								
Displaced with 8 1/4 BLS							AFU Inserts								
Released + held.							Float Shoe 1								
Lift pressure 700 #							Latch Down 1								
land plug to 1500 #							Pumptrk Charge prod long string								
							Mileage 10								
X Signature <i>Allen D...</i>							Tax								
							Discount								
							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/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

March 22, 2012

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

Re: ACO1
API 15-167-23765-00-00
Lorraine Krug 1
SE/4 Sec.09-15S-14W
Russell County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Allen Bangert