Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1158636

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 # 5259
Name: Mai Oil Operations, Inc.
Address 1: 8411 PRESTON RD STE 800
Address 2:
City: DALLAS State: TX Zip: 75225 + 5520
Contact Person: Allen Bangert
Phone: (214) 219-8883
CONTRACTOR: License # 33350
Name: Southwind Drilling, Inc.
Wellsite Geologist: Jim Musgrove
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 #:

07/15/2013	07/22/2013	07/22/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-009-25854-00-00
Spot Description:
N2 - NE - SE - NW Sec. 18 Twp. 17 S. R. 14 ☐ East ☑ West
1375 Feet from ☑ North / ☐ South Line of Section
2310 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Barton
Lease Name: Ruth Axman Well #: 1
Field Name:
Producing Formation: N/A
Elevation: Ground: 1900 Kelly Bushing: 1908
Total Vertical Depth: 3486 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 899 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: 81000 ppm Fluid volume: 80 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Mai Oil Operations, Inc.
Lease Name: Dobkins License #: 5259
Quarter SE Sec. 20 Twp. 17 S. R. 14 ☐ East ☑ West
County: Barton Permit #: D31246

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: 09/17/2013
☑ **Confidential Release Date:** 09/17/2015
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 09/18/2013

1158636

Operator Name: Mai Oil Operations, Inc. Lease Name: Ruth Axman Well #: 1

Sec. 18 Twp. 17 S. R. 14 ☐ East ☑ West County: Barton

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

CDNL
DIL
Micro

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Anhydrite	905	+1003
Topeka	2853	-945
Heebner	3086	-1178
Toronto	3099	-1191
Lansing	3150	-1242
Base Kansas City	3376	-1468
Arbuckle	3416	-1508

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	899	60-40POZ	350	2% gel, 3%CC

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	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:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
_____
_____

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

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

Kansas
Corporation Commission

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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

September 17, 2013

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

Re: ACO1
API 15-009-25854-00-00
Ruth Axman 1
NW/4 Sec.18-17S-14W
Barton 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

JAMES C. MUSGROVE
Petroleum Geologist
212 Main Street
P.O. Box 215
Claflin, KS 67525

Office (620) 588-4250 Res. Claflin (620) 587-3444

Mai Oil Operations
Ruth Axman #1
N/2-NE-SE-NW (1375' FNL & 2310' FWL)
Section 18-17s-14w

Dry and Abandoned

Contractor: Southwind Drilling Co. (Rig #3)

Commenced: July 15, 2013

Completed: July 22, 2013

Elevation: 1908' K.B; 1906' D.F; 1900' G.L.

Casing program: Surface; 8 5/8" @ 899'
Production; none.

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: There were five (5) Drill Stem Tests ran by Trilobite Testing Co.

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

Formation	Sample Depth	Sub-Sea Datum
Anhydrite	905	+1003
Base Anhydrite	931	+977
Topeka	2853	-945
Heebner	3086	-1178
Toronto	3099	-1191
Lansing	3150	-1242
Base Kansas City	3376	-1468
Conglomerate	3384	-1476
Arbuckle	3416	-1508
Rotary Total Depth	3485	-1577
Log Total Depth	3486	-1578

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

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

TOPEKA SECTION

30293040' Limestone; cream, tan, finely crystalline, fossiliferous, few dolomite, trace light brown stain, no free oil and no odor in fresh samples.

TORONTO SECTION

3100-3112' Limestone; tan, finely crystalline, fossiliferous in part, chalky, poor visible porosity, trace light brown stain, no free oil and questionable odor in fresh samples.

LANSING SECTION

3150-3156' Limestone; tan, finely crystalline, few fossiliferous, chalky, trace black stain, no show of free oil and no odor.

3164-3168' Limestone; tan, gray, finely crystalline, fair pinpoint porosity, brown stain, show of free oil and fair odor in fresh samples.

3176-3184' Limestone; tan, oolitic, oomoldic, friable oomoldic, vuggy type porosity, brown stain, show of free oil and fair odor in fresh samples.

Drill Stem Test #1 **3152-3185' (Log measurements 3153-3186)**

Times: **30-30-45-45**

Blow: **Strong**

Recovery: **598' gas in pipe**
126' muddy gassy water, scum of oil
(5% gas, 90% water, 5% mud)
63' very slightly oil cut muddy water
(5% gas, 5% oil, 55% water, 35% mud)
10' heavy oil cut muddy water
(40% oil, 20% water, 40% mud)

Pressures:

ISIP	**421**	**psi**
FSIP	**414**	**psi**
IFP	**36-54**	**psi**
FFP	**57-106**	**psi**
HSH	**1533-1477**	**psi**

3204-3214' Limestone; tan, cream, oolitic, finely crystalline, poor scattered porosity, chalky, trace brown stain, trace free oil and faint odor.

3228-3232' Limestone; as above.

3240-3245' Limestone; cream, tan, oolitic, oomoldic, good oomoldic and vuggy type porosity, light brown stain, show of free oil and faint odor.

Drill Stem Test #2 **3195-3245' (Log measurements 3196-3246)**

Times: **30-30-45-45**

Blow: **Fair**

Recovery: **31' very slightly oil and gas cut mud (3% gas, 2% oil, 95% mud)**
63' very slightly oil and cut watery my (2% oil, 15% water, 83% mud)

Pressures:			
	ISIP	**626**	**psi**
	FSIP	**617**	**psi**
	IFP	**29-49**	**psi**
	FFP	**51-68**	**psi**
	HSH	**1563-1533**	**psi**

3293-3300' Limestone; tan, finely crystalline, cherty, poor visible porosity, light brown stain, no free oil and no odor in fresh samples.

3309-3316' Limestone; tan, oolitic, chalky, trace brown stain, trace of free oil and no odor.

3326-3336' Limestone; tan, brown, finely crystalline, oolitic, slightly cherty, poor visible porosity, trace brown stain, no show of free oil and no odor.

3352-3365' Limestone; tan, cream, oolitic, finely crystalline, poor visible porosity, light brown stain, trace of free oil and faint odor.

Drill Stem Test #3 **3303-3365' (Log measurements 3304-3366)**

Times: **30-30-15-X**

Blow: **None**

Recovery: **7' mud, with oil spots**

Pressures:			
	ISIP	**88**	**psi**
	FSIP	**X**	**psi**
	IFP	**29-35**	**psi**
	FFP	**35-35**	**psi**
	HSH	**1640-1598**	**psi**

CONGLOMERATE SECTION

3386-3416' Varied colored chert in matrix of varied colored shale.

ARBUCKLE SECTION

3415-3418' Dolomite; white, gray, finely crystalline, sucrosic, poor scattered porosity, light brown stain, trace of free oil and fair odor.

Drill Stem Test #4 **3368-3418' (Log measurements 3369-3419)**

Times: **30-30-40-30**

Blow: **15' slightly oil cut mud (5% oil, 95% mud)**

Pressures:			
	ISIP	**160**	**psi**
	FSIP	**182**	**psi**
	IFP	**32-33**	**psi**
	FFP	**41-35**	**psi**
	HSH	**1659-1665**	**psi**

3418-3425' Dolomite; white, gray, finely crystalline, sucrosic, poor to fair intercrystalline and pinpoint porosity, light brown stain, show of free oil and fair odor.

Drill Stem Test #5 **3410-3425' (Log measurements 3411-3426)**

Times: **30-30-30-30**

Blow: **Weak**

Recovery: **167' mud with oil spots**

Pressures:			
	ISIP	**invalid**	
	FSIP	**848**	**psi**
	IFP	**77-84**	**psi**
	FFP	**92-93**	**psi**
	HSH	**1691-1644**	**psi**

3425-3440' Dolomite; white, finely crystalline, sucrosic, poor porosity, trace stain, trace of free oil and faint odor.

3440-3460' Dolomite; white, gray, finely crystalline, poor porosity, trace stain, no free oil and faint odor.

3460-3470' Dolomite; as above, finely crystalline, dense, no shows and questionable odor.

3470-3485' Dolomite; white, gray, finely crystalline, sandy, poor porosity, no shows.

Rotary Total Depth **3485**
Log Total Depth **34786**

Recommendations:
The Ruth Axman #1 was plugged and abandoned at the Rotary Total Depth 3485.

Respectfully submitted;

Wyatt Urban,
Petroleum Geologist

DRILL STEM TEST REPORT

Mai Oil Operations Inc

8411 Preston Rd Ste 800
Dallas TX 75225-5520

ATTN: Wyatt Urban

18-17s-14w Barton,KS

Ruth Axman #1

Job Ticket: 041062 **DST#: 1**

Test Start: 2013.07.19 @ 05:55:07

GENERAL INFORMATION:

Formation: **LKC A-C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:08:29
Time Test Ended: 12:48:29

Test Type: Inflate Bottom Hole (Initial)
Tester: Jeff Brown
Unit No: 67

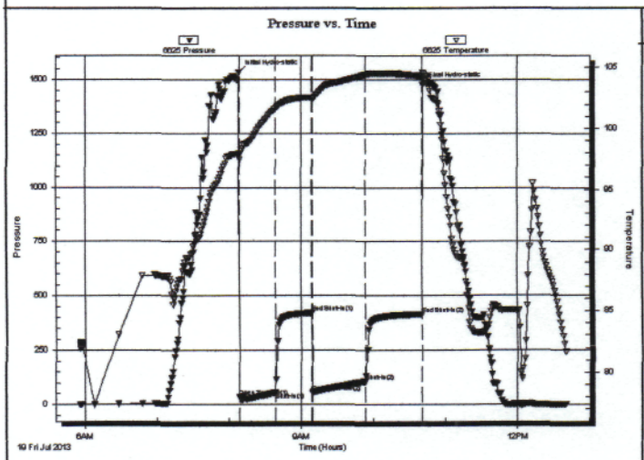
Interval: 3152.00 ft (KB) To 3185.00 ft (KB) (TVD)
Total Depth: 3185.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1908.00 ft (KB)
1900.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6625 **Outside**
Press@RunDepth: 105.90 psig @ 3153.00 ft (KB)
Start Date: 2013.07.19 End Date: 2013.07.19
Start Time: 05:55:30 End Time: 12:40:29

Capacity: 8000.00 psig
Last Calib.: 2013.07.19
Time On Btm: 2013.07.19 @ 08:07:59
Time Off Btm: 2013.07.19 @ 10:40:59

TEST COMMENT: IFP=Strong blow BOB in 5 min
ISI=Weak surface blow back built to 1"
FFP=Good blow BOB in 12 1/2 min
FSI=Weak blow back built to 1 1/2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1533.00	97.95	Initial Hydro-static
1	36.26	97.42	Open To Flow (1)
30	54.44	101.58	Shut-In(1)
61	420.47	102.53	End Shut-In(1)
61	57.28	102.48	Open To Flow (2)
106	105.90	104.41	Shut-In(2)
153	414.36	104.31	End Shut-In(2)
153	1477.27	104.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	GMW with a scum of oil 5%G 5%M 90%W	1.77
63.00	SOCGMW 5%G 5%O 35%M 55%W	0.88
10.00	HOCMW 40%O 40%M 20%W	0.14
0.00	598-GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Mai Oil Operations Inc

8411 Preston Rd Ste 800
Dallas TX 75225-5520

ATTN: Wyatt Urban

18-17s-14w Barton,KS

Ruth Axman #1

Job Ticket: 041062 **DST#: 2**

Test Start: 2013.07.19 @ 20:00:22

GENERAL INFORMATION:

Formation: **LKC D-G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:54:52
Time Test Ended: 02:14:52

Test Type: Inflate Bottom Hole (Reset)
Tester: Jeff Brown
Unit No: 67

Interval: 3195.00 ft (KB) To 3245.00 ft (KB) (TVD)
Total Depth: 3245.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

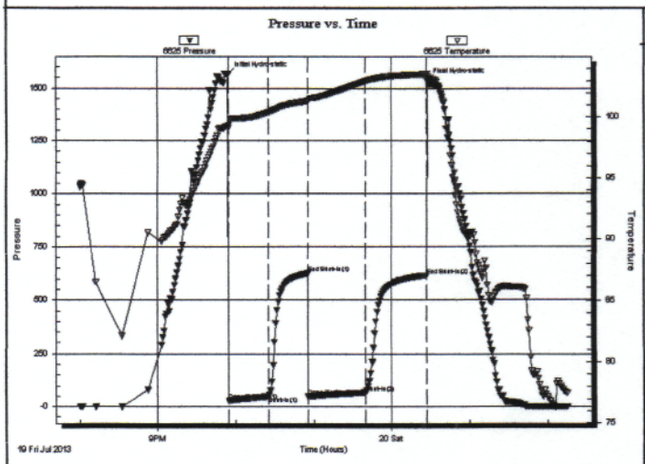
Reference Elevations: 1908.00 ft (KB)
1900.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6625 **Outside**

Press@RunDepth: 67.95 psig @ 3230.00 ft (KB)
Start Date: 2013.07.19 End Date: 2013.07.20
Start Time: 20:00:23 End Time: 02:14:52

Capacity: 8000.00 psig
Last Calib.: 2013.07.20
Time On Btm: 2013.07.19 @ 21:54:22
Time Off Btm: 2013.07.20 @ 00:27:22

TEST COMMENT: IFP=Fair blow built to 5"
ISI=Dead no blow back
FFP=Fair blow built to 5 3/4"
FSI=Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1563.19	99.27	Initial Hydro-static
1	29.47	99.11	Open To Flow (1)
31	48.89	100.38	Shut-In(1)
61	625.52	101.32	End Shut-In(1)
62	50.59	101.35	Open To Flow (2)
106	67.95	102.96	Shut-In(2)
153	616.59	103.53	End Shut-In(2)
153	1533.40	103.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	VSOCWM 2%O 15%W 83%M	0.88
31.00	VSOCGM 2%O 3%G 95%M	0.43

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Mai Oil Operations Inc

8411 Preston Rd Ste 800
Dallas TX 75225-5520

ATTN: Wyatt Urban

18-17s-14w Barton,KS

Ruth Axman #1

Job Ticket: 041064 **DST#: 3**

Test Start: 2013.07.20 @ 11:41:10

GENERAL INFORMATION:

Formation: **LKC I-K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:10:10
Time Test Ended: 16:10:40

Test Type: Inflate Bottom Hole (Reset)
Tester: Jeff Brown
Unit No: 67

Interval: 3303.00 ft (KB) To 3365.00 ft (KB) (TVD)
Total Depth: 3365.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

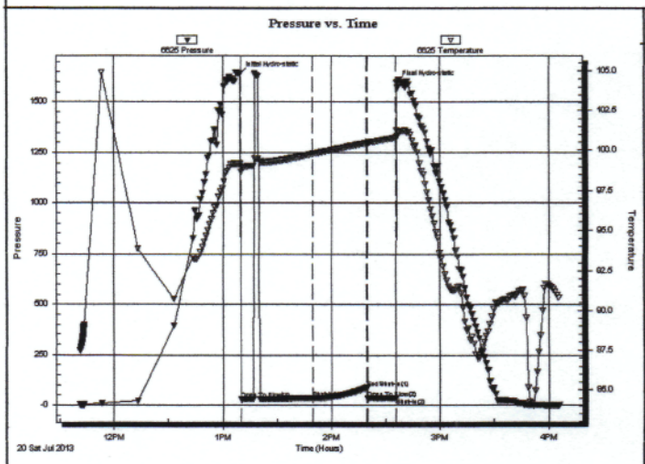
Reference Elevations: 1908.00 ft (KB)
1900.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6625 **Outside**

Press@RunDepth: 34.90 psig @ 3339.00 ft (KB)
Start Date: 2013.07.20 End Date: 2013.07.20
Start Time: 11:41:11 End Time: 16:05:40

Capacity: 8000.00 psig
Last Calib.: 2013.07.20
Time On Btm: 2013.07.20 @ 13:09:40
Time Off Btm: 2013.07.20 @ 14:36:10

TEST COMMENT: IFP=Dead-Flushed tool then weak surface blow
ISI=Dead no blow back
FFP=Dead no blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.38	99.19	Initial Hydro-static
1	28.96	98.68	Open To Flow (1)
40	34.90	99.77	Shut-In(1)
70	88.37	100.46	End Shut-In(1)
71	34.51	100.47	Open To Flow (2)
86	34.90	100.80	Shut-In(2)
87	1598.36	101.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
7.00	Mud with oil spots	0.10

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Mai Oil Operations Inc

8411 Preston Rd Ste 800
Dallas TX 75225-5520

ATTN: Wyatt Urban

18-17s-14w Barton,KS

Ruth Axman #1

Job Ticket: 041065 **DST#: 4**

Test Start: 2013.07.20 @ 23:13:32

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:40:02
Time Test Ended: 04:20:02

Test Type: Inflate Bottom Hole (Reset)
Tester: Jeff Brown
Unit No: 67

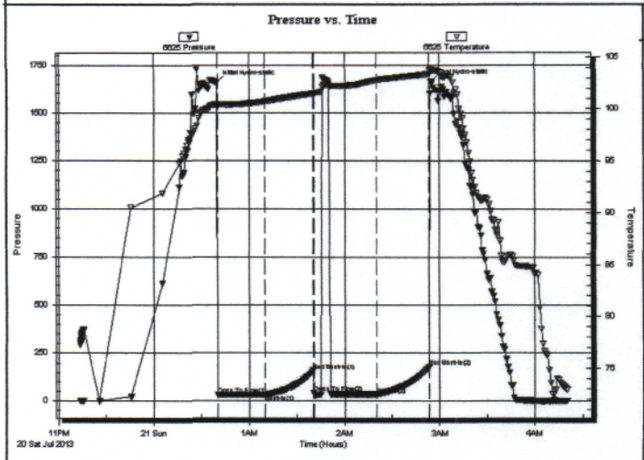
Interval: 3368.00 ft (KB) To 3418.00 ft (KB) (TVD)
Total Depth: 3418.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1908.00 ft (KB)
1900.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6625 **Outside**
Press@RunDepth: 34.83 psig @ 3405.00 ft (KB)
Start Date: 2013.07.20 End Date: 2013.07.21
Start Time: 23:13:33 End Time: 04:20:02

Capacity: 8000.00 psig
Last Calib.: 2013.07.21
Time On Btm: 2013.07.21 @ 00:39:32
Time Off Btm: 2013.07.21 @ 02:54:32

TEST COMMENT: IFP=Weak surface blow built to 1/2" Died back to 1/4"
ISI=Dead no blow back
FFP=Dead-Flushed tool- Weak surface blow built to 1/8"
FSI=Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1659.21	100.41	Initial Hydro-static
1	31.57	100.20	Open To Flow (1)
31	32.96	100.74	Shut-In(1)
61	159.95	101.51	End Shut-In(1)
61	40.86	101.48	Open To Flow (2)
101	34.83	102.82	Shut-In(2)
134	181.79	103.42	End Shut-In(2)
135	1664.52	103.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	SOCM 5%O 95%M	0.21

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Mai Oil Operations Inc

8411 Preston Rd Ste 800
Dallas TX 75225-5520

ATTN: Wyatt Urban

18-17s-14w Barton,KS

Ruth Axman #1

Job Ticket: 041066 **DST#: 5**

Test Start: 2013.07.21 @ 09:12:33

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:53:03
Time Test Ended: 15:04:33

Test Type: Inflate Bottom Hole (Reset)
Tester: Jeff Brown
Unit No: 67

Interval: 3410.00 ft (KB) To 3425.00 ft (KB) (TVD)
Total Depth: 3425.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

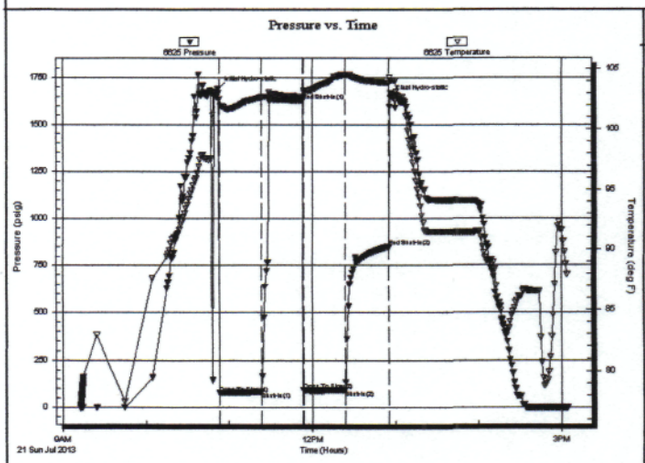
Reference Elevations: 1908.00 ft (KB)
1900.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6625 **Outside**

Press@RunDepth: 93.48 psig @ 3412.00 ft (KB)
Start Date: 2013.07.21 End Date: 2013.07.21
Start Time: 09:12:34 End Time: 15:04:33

Capacity: 8000.00 psig
Last Calib.: 2013.07.21
Time On Btm: 2013.07.21 @ 10:52:33
Time Off Btm: 2013.07.21 @ 12:56:33

TEST COMMENT: IFP=Weak blow built to 2"
ISI=Dead no blow back
FFP=Weak blow built to 1 3/4"
FSI=Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1691.06	102.99	Initial Hydro-static
1	76.52	102.47	Open To Flow (1)
31	83.64	102.66	Shut-In(1)
61	1626.84	102.71	End Shut-In(1)
61	91.52	102.64	Open To Flow (2)
91	93.48	104.48	Shut-In(2)
123	848.23	103.83	End Shut-In(2)
124	1644.27	104.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
167.00	Mud with a scum of oil	2.34

* 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 **Home Office P.O. Box 32 Russell, KS 67665** **No.** 7264
Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-16-13	18	17	14	Barton	KS		6:15 AM

Location 281 + Galatia Rd 4S 4½ W Sinto

Lease Ruth Axman	Well No. 1	Owner	
Contractor Southwind #3		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.	
Type Job Surface			
Hole Size 12¼	T.D. 899'	Charge To Mai Oil	
Csg. 8⅝	Depth 890'	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. 20'	Shoe Joint	Cement Amount Ordered 350 60/40 3%2	
Meas Line	Displace 55 ¼ bbl		

EQUIPMENT

Pumptrk 5	No.	Cementer / Helper	Matt
Bulktrk 12	No.	Driver / Driver	Doug
Bulktrk PU	No.	Driver / Driver	Brett

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Cement Circulated!!

Common	
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	
Mileage	
8⅝ **FLOAT EQUIPMENT**	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Rubber Plug - 1	
Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	

Quality Oilwell Cementing

x Signature Jay Thier

ALLIED OIL & GAS SERVICES, LLC 056646

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Russell Ks

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
7-22-13	15	17	14				9:30 Am

LEASE	WELL #	LOCATION	COUNTY	STATE
Ryin Axman	1	Russell Ks	Barton	Ks

OLD OR NEW (Circle one) 231 & Hwy 4 Jct 3 n 3½ w S into

CONTRACTOR
TYPE OF JOB Plug
HOLE SIZE 7⅞ T.D.
CASING SIZE 5½ DEPTH 3340'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT See Remarks

OWNER

CEMENT

AMOUNT ORDERED 195 sk 60/40
4% gel ¼# Flo-Seal

		@	
COMMON	117 sk	@ 17.90	$2094.30
POZMIX	78 sk	@ 9.35	$729.30
GEL	8 sk	@ 23.40	$187.20
CHLORIDE		@	
ASC		@	
2 sk Flo-Seal		@	
@ #25 = #50		@ 2.97	$148.50
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	206 ft³	@ 2.48	512.54
MILEAGE	153 435 T/m	@ 2.10	$476.73
		TOTAL	$4148.57

EQUIPMENT

PUMP TRUCK CEMENTER Tony P
409 HELPER Nathan D
BULK TRUCK
431 DRIVER Joe B
BULK TRUCK
DRIVER

REMARKS:

P1 = 55 sk @ 3340' = 8.21 bbl slurry
Disp. 4.75 bbl H2O
P2 25 sk @ 910' = 4.10 bbl slurry
Disp. 11.30 bbl H2O
P3 = 20 sk @ 350' = 13.14 bbl slurry
Disp. = .27 bbl H2O
P4 10 sk @ 40' = 1.64 bbl slurry
1x 8⅝ wooden plug - Fill to surface
Rathole 35 sk
Thank you

CHARGE TO: Mac Oil

STREET
CITY STATE ZIP

SERVICE

DEPTH OF JOB 3340'
PUMP TRUCK CHARGE $2,600.97
EXTRA FOOTAGE @
MILEAGE Heavy 21 m @ 7.70 $161.70
MANIFOLD Light 21 m @ 4.40 $92.40
@
@

TOTAL $2,854.57

PLUG & FLOAT EQUIPMENT

	@	
1x 8⅝ wooden plug	@ —	$107.64
	@	
	@	
	@	

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment