



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1075291
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: _____

1075291

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

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> <i>(Submit ACO-4)</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
Woydziak-Kirmer Unit #1
1300' FNL & 1500' FWL (SW-SW-NE-NW)
Section 7-16s-11w
Barton County, Kansas
Page 1

5 1/2" Production Casing

Contractor: Southwind Drilling Company (Rig #3)
Commenced: November 11, 2011
Completed: November 17, 2011
Elevation: 1871' K.B; 1869' D.F; 1863' G.L.
Casing program: Surface; 8 5/8" @ 424'
Production; 5 1/2" @ 3404'
Sample: Samples saved and examined 2600' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2600 ft to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There were two (2) Drill Stem Tests by Trilobite Testing Company.
Electric Log: By Superior Well Services; Dual Induction, Compensated Density/Neutron and Micro.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Topeka	2629	-758
Heebner	2911	-1040
Toronto	2927	-1056
Douglas	2943	-1072
Brown Lime	3001	-1130
Lansing	3018	-1147
Base Kansas City	3284	-1413
Conglomerate	3301	-1430
Arbuckle	3344	-1473
Rotary Total Depth	3405	-1534
Log Total Depth	3409	-1538

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

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

TOPEKA SECTION

2853-2880' Limestone; cream, gray, finely crystalline, fossiliferous, finely oomoldic, golden brown and brown stain, slightly fossiliferous, faint odor in fresh samples.

TORONTO SECTION

2920-2927' Limestone; tan, gray, finely crystalline, poor visible porosity, few cherty, trace stain, no show of free oil and no odor in fresh samples.

LANSING SECTION

3010-3015' Limestone; cream, white, tan, finely crystalline, few medium crystalline, light brown to black stain, no show of free oil and no odor in fresh samples.

3030-3034' Limestone; cream, tan, finely crystalline, sub oomoldic in part, light brown stain, chalky, no free oil and no odor in fresh samples.

3047-3054' Limestone; cream, tan, oolitic, oomoldic, dark brown to black stain, trace free oil (dead appearing) and no odor in fresh samples.

3072-3080' Limestone; cream, gray, fossiliferous/oolitic, chalky in part, poorly developed porosity, trace brown stain, no show of free oil and no odor in fresh samples.

3090-3097' Limestone; cream, oolitic, chalky, few sub oomoldic, spotty stain, show of free oil and faint odor in fresh samples.

3104-3114' Limestone; cream, tan, oomoldic, chalky, fair to good oomoldic porosity, brown stain, spotty free oil and faint odor in fresh samples.

3114-3139' Limestone; cream/light gray, oomoldic, good oomoldic porosity (barren).

3139-3156' Limestone; buff, cream, gray, finely crystalline, chalky, few cherty in part.

3160-3170' Limestone; cream, highly oolitic, few oomoldic, chalky, fair oomoldic porosity (barren).

3180-3183' Limestone; tan, light gray, oolitic, chalky, few scattered porosity, trace brown stain, no show of free oil and no odor.

3185-3200' Limestone; cream, tan, oomoldic, fair oomoldic porosity, brown stain, show of free oil and faint odor in fresh samples.

Drill Stem Test #1 3163-3200' (Log measurements 3167-3204)

Times: 30-45-45-60

Blow; Strong

Recovery: 390' gas in pipe
45' oil and gas cut mud
(10% gas, 10% oil, 80% mud)

Pressures: ISIP 193 psi
FSIP 231 psi
IFP 19-24 psi
FFP 26-32 psi

HSH 1561-1488 psi

- 3200-3210' Limestone; cream, white, oolitic, fair oomoldic porosity, trace brown stain, show of free oil and faint odor in fresh samples.
- 3230-3244' Limestone; cream, buff, light gray, finely crystalline, chalky in part, poor porosity (dense).
- 3244-3260' Limestone; cream, light gray, finely oolitic, chalky, poorly developed porosity, no shows.
- 3260-3280' Limestone; cream, gray, finely crystalline, chalky, plus white and gray chert.

CONGLOMERATE SECTION

- 3303-3345' Varied colored oolitic, boney and opaque chert, trace dense oolitic limestone, no shows.

ARBUCKLE SECTION

- 3344-3348' Dolomite; white, medium and coarse crystalline, fair intercrystalline porosity, dark brown and brown stain, show of free oil and faint odor in fresh samples.

Drill Stem Test #2 3274-3344' (Log measurements 3278-3348)

Times: 30-30-30-30

Blow; Strong

**Recovery: 100' muddy water (show of oil)
2000' water**

**Pressures: ISIP 1091 psi
FSIP 1092 psi
IFP 102-651 psi
FFP 653-936 psi
HSH 1577-1563 psi**

- 3348-3360' Dolomite; white, cream, medium and coarse crystalline, good intercrystalline porosity, brown and golden brown stain, show of free oil and faint to fair odor in fresh samples.
- 3360-3380' Dolomite; as above, glauconitic, sandy in part, spotty stain, trace of free oil and faint odor in fresh samples.
- 3380-3405' Dolomite; as above, increasingly sandy, trace stain, no show of free oil and faint odor in fresh samples, trace iron pyrite and white chert.

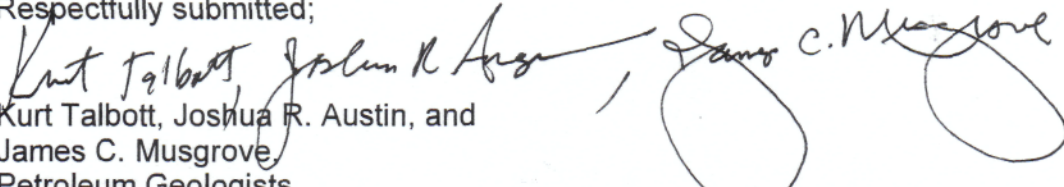
Rotary Total Depth 3405
Log Total Depth 3409

Mai Oil Operations
Woydziak-Kirmer Unit #1
1300' FNL & 1500' FWL (SW-SW-NE-NW)
Section 7-16s-11w
Barton County, Kansas
Page 4

Recommendations:

5 ½" production casing was set and cemented.

Respectfully submitted;


Kurt Talbott, Joshua R. Austin, and
James C. Musgrove,
Petroleum Geologists

QUALITY OILWELL CEMENTING, INC.

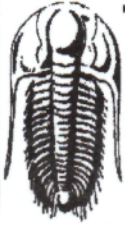
Federal Tax I.D.# 20-2886107

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

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

No. 116

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-12-11				Barton	Kansas		4:00am
Lease <u>Wycdzia Kimer</u>	Well No. <u>1</u>			Location <u>Dobuque 1E 1S</u>			
Contractor <u>Southwind Drilling Rig 3</u>				Owner 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 <u>Surface</u>				Charge To <u>Main Oil Operations</u>			
Hole Size <u>12 1/4</u>	T.D. <u>424</u>			Street			
Csg. <u>8 5/8 2 3/16</u>	Depth <u>423</u>			City			
Tbg. Size	Depth			State			
Tool	Depth			City			
Cement Left in Csg. <u>10-15</u>	Shoe Joint			The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line	Displace <u>26RBH</u>			Cement Amount Ordered <u>225 60lb 30cc 2 5/8</u>			
EQUIPMENT							
Pumptrk <u>5</u>	No.	Cementer Helper <u>Steve</u>	Common <u>135</u>				
Bulktrk <u>10</u>	No.	Driver <u>Brett</u>	Poz. Mix <u>90</u>				
Bulktrk	No.	Driver <u>Susan</u>	Gel. <u>5</u>				
			Calcium <u>9</u>				
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			
<u>Cement did Circulate</u>				Handling <u>239</u>			
				Mileage			
FLOAT EQUIPMENT							
				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				<u>8 5/8 Wood Plug</u>			
				Pumptrk Charge <u>Surface</u>			
				Mileage <u>26</u>			
				Tax			
				Discount			
				Total Charge			
X Signature <u>Jay Kimer</u>							



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations Inc

7-16s-11w Barton,KS

8411 Preston Rd
Ste 800
Dallas, TX 75225-5520
ATTN: Allen Bangert

Woydziak-KimmerUnit1

Job Ticket: 44772

DST#: 1

Test Start: 2011.11.15 @ 14:20:24

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 16:02:49

Time Test Ended: 20:18:48

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Ray Schwager**

Unit No: **42**

Interval: 3163.00 ft (KB) To 3200.00 ft (KB) (TVD)

Total Depth: **3200.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1871.00 ft (KB)**

1863.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 6625

Inside

Press@RunDepth: **32.73 psig @ 3169.00 ft (KB)**

Start Date: **2011.11.15**

End Date:

2011.11.15

Start Time: **14:20:24**

End Time:

20:18:48

Capacity: **8000.00 psig**

Last Calib.: **2011.11.15**

Time On Btm: **2011.11.15 @ 16:01:19**

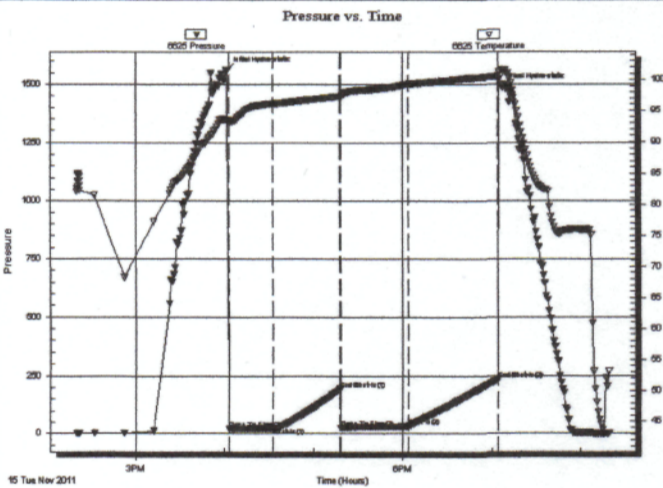
Time Off Btm: **2011.11.15 @ 19:06:48**

TEST COMMENT: 30-IFP-wk to a fr bl 1/2" to 4" bl

45-ISIP-no bl

45-FFP-fr to strg in 25 min

60-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1561.02	93.53	Initial Hydro-static
2	19.77	93.20	Open To Flow (1)
32	24.45	96.12	Shut-In(1)
77	193.16	97.33	End Shut-In(1)
77	26.20	97.31	Open To Flow (2)
123	32.73	99.30	Shut-In(2)
183	231.80	100.53	End Shut-In(2)
186	1488.58	101.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	390'GIP	0.00
45.00	O&GCM 10%G10%O80%M	0.63

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 75225-5520
 ATTN: Allen Bangert

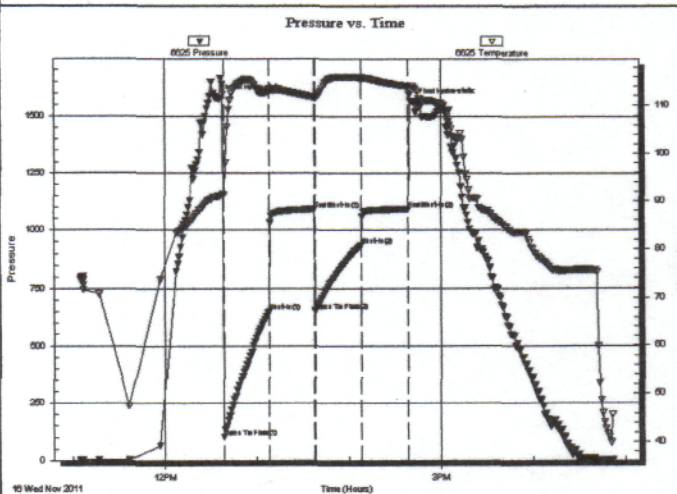
7-16s-11w Barton, KS
Woydziak-KimmerUnit1
 Job Ticket: 44773 **DST#: 2**
 Test Start: 2011.11.16 @ 11:05:13

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 12:38:38
 Time Test Ended: 16:52:07
 Interval: **3274.00 ft (KB) To 3344.00 ft (KB) (TVD)**
 Total Depth: **3344.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Ray Schwager**
 Unit No: **42**
 Reference Elevations: **1871.00 ft (KB)**
 1863.00 ft (CF)
 KB to GR/CF: **8.00 ft**

Serial #: 6625 Inside
 Press@RunDepth: **936.59 psig @ 3279.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2011.11.16** End Date: **2011.11.16** Last Calib.: **2011.11.16**
 Start Time: **11:05:13** End Time: **16:52:07** Time On Btmr: **2011.11.16 @ 12:35:38**
 Time Off Btmr: 2011.11.16 @ 14:41:38

TEST COMMENT: 30-IFP-strg bl in 1 min
 30-ISIP-no bl
 30-FFP-strg bl in 1 min
 30-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1577.14	90.89	Initial Hydro-static
3	102.82	91.14	Open To Flow (1)
33	651.65	112.95	Shut-In(1)
62	1091.05	111.65	End Shut-In(1)
63	653.54	111.52	Open To Flow (2)
93	936.59	115.69	Shut-In(2)
123	1092.74	113.83	End Shut-In(2)
126	1563.34	113.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (tbt)
100.00	MW 20%MB0%W w/show of oil	1.40
2000.00	Water	28.05

* Recovery from multiple tests

Gas Rates

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

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

February 27, 2012

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

Re: ACO1
API 15-009-25619-00-00
Kirmer-Woydziak Unit 1
NW/4 Sec.07-16S-11W
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