



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1236116
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: _____



1236116

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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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Mueller "I" 7
Doc ID	1236116

Tops

Name	Top	Datum
Anhydrite	647	-1217
Red Eagle	2228	-364
Topeka	2825	-961
Heebner	3110	-1246
Toronto	3128	-1264
Brown Lime	3243	-1379
Lansing	3249	-1385
Viola	3496	-1632
Arbuckle	3585	-1721

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
Mueller 'I' #7
W/2-SW-SE-SE (330' FSL & 1010' FEL)
Section 29-21s-12w
Stafford County, Kansas

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5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (rig #3)
Commenced: August 21, 2014
Completed: August 28, 2014
Elevation: 1864' K.B., 1862' D.F., 1856' G.L.
Casing program: Surface; 8 5/8" @ 641'
Production, 5 1/2 @ 3699'
Sample: Samples saved and examined 2100' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2100 ft. to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There were six (6) Drill Stem Tests ran by Diamond Testing Co.
Electric Log: By Nabors; Dual Induction, Compensated Density/Neutron; Micro and Sonic.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	647	+1217
Base Anhydrite	669	+1195
Red Eagle	2228	-364
Tarkio	2516	-652
Topeka	2825	-961
Heebner	3110	-1246
Toronto	3128	-1264
Douglas	3143	-1279
Brown Lime	3243	-1379
Lansing	3249	-1385
Base Kansas City	3483	-1619
Viola	3496	-1632
Simpson Shale	3533	-1669
Arbuckle	3585	-1721
Rotary Total Depth	3700	-1836
Log Total Depth	3698	-1834

All tops and zones corrected to Electric Log Measurement.

Mai Oil Operations
Mueller '1' #7
W/2-SW-SE-SE (330' FSL & 1010' FEL)
Section 29-21s-12w
Stafford County, Kansas

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

RED EAGLE SECTION

2230-2247' Limestone, white, cream, finely oomoldic, few fossiliferous, scattered porosity, no stain, no free oil, trace gas bubbles (20 unit gas kick)

Drill Stem Test #1 2235-2250'

Times: 30-30-45-60

**Blow: Strong, gas to surface
30 mins. into FFP, T.S.T.M.**

Gas gauged as follows:

15 minutes	10,030 @ fgpd
20 minutes	11,150 @ fgpd
30 minutes	15,650 @ fgpd
40 minutes	20,510 @ fgpd
45 minutes	24,250 @ fgpd

Recovery: 335' gassy water

Pressures:	ISIP 762	psi
	FSIP 774	psi
	IFP 38-97	psi
	FFP 75-195	psi
	HSH 1083-1064	psi

TORONTO SECTION

3128-3142' Limestone, white, gray, finely crystalline, chalky, trace brown stain, no free oil and no odor, trace with sucrosic dolomitic limestone at base, spotty stain, no free oil and no odor.

LANSING SECTION

3249-3260' Limestone, white, finely crystalline, fossiliferous in part, gray to black and brown stain, no show of free oil and no odor.

3273-3280' Limestone, white, gray, finely crystalline, oolitic, gray and black stain, trace gray/brown and black stain, trace of free oil and faint odor in fresh samples.

Mai Oil Operations
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W/2-SW-SE-SE (330' FSL & 1010' FEL)
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Stafford County, Kansas

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3292-3300' Limestone, gray, white, fossiliferous, chalky, trace gray/brown and black stain, trace of free oil and faint odor in fresh samples.

3314-3318' Limestone, gray, white, finely crystalline, few oolitic, chalky, poor stain; trace of free oil and no odor in fresh samples

Drill Stem Test #2

3250-3326

Times: 30-30-45-60

Blow: Strong

**Recovery: 1400' gas in pipe
45' slightly oil cut mud
(4% oil; 96% mud)**

**Pressures: ISIP 293 psi
FSIP 386 psi
IFP 22-23 psi
FFP 45-48 psi
HSH 1584-1568 psi**

3326-3331' Limestone, tan, sub-oomoldic, chalky, few cherty poor visible porosity, poor brown stain, no show of free oil and no odor.

3340-3347' Limestone, as above.

3350-3380' Limestone, white, gray, finely crystalline, chalky, few cherty, plus gray chert.

3385-3392' Limestone, white, oolitic, finely oomoldic, fair oomoldic porosity, trace black stain, no free oil and no odor.

3400-3410' Limestone, ray, finely crystalline; few with scattered vuggy porosity, brown and black stain, no free oil and no odor in fresh samples.

3420-3427' Limestone, gray, white, oomoldic, fair oomoldic porosity, poor stain, no free oil and no odor.

3440-3446' Limestone, gray, cream, oolitic, chalky, brown and black stain, no free oil and no odor.

3462-3480' Limestone, as above, poor porosity, questionable stain, no free oil and no odor.

Mai Oil Operations
Mueller 'I' #7
W/2-SW-SE-SE (330' FSL & 1010' FEL)
Section 29-21s-12w
Stafford County, Kansas

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Drill Stem Test #3 **3383-3481**

Times: 30-30-45-45
Blow: Good
Recovery: 210' gas in pipe
90' very slightly oil cut mud
63' oil and gas cut muddy water
(1% oil; 99% mud)
Pressures: ISIP 366 psi
FSIP 247 psi
IFP 20-33 psi
FFP 37-60 psi
HSH 1664-1618 psi

VIOLA SECTION

3496-3530' Chert, white, cream, brown, fresh; few weathered brown, black stain, weak show of free oil and odor in fresh samples.

Drill Stem Test #4 **3476-3531**

Times: 30-30-30-45
Blow: Weak
Recovery: 10' mud
Pressures: ISIP 43 psi
FSIP 45 psi
IFP 15-18 psi
FFP 15-20 psi
HSH 1780-1705 psi

SIMPSON SECTION

3578-3584' Sand, clear, quartzitic, sub-rounded friable, fair inter-granular porosity, trace brown stain, trace free oil and faint odor in fresh samples.

ARBUCKLE SECTION

3585-3603' Dolomite, tan, cream finely crystalline, sucrosic, scattered vuggy porosity, fair stain and saturation, show free oil and faint odor in fresh samples.

Mai Oil Operations
 Mueller 'I' #7
 W/2-SW-SE-SE (330' FSL & 1010' FEL)
 Section 29-21s-12w
 Stafford County, Kansas

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Drill Stem Test #5 **3528-3603**

Times: 30-30-30-30

Blow: Weak

Recovery: 64' slightly oil and gas cut mud
 (15% gas; 5% oil, 80% mud)

Pressures:

ISIP	1058	psi
FSIP	1063	psi
IFP	15-30	psi
FFP	33-43	psi
HSH	1755-1730	psi

3603-3618' Dolomite, tan, fine and medium crystalline, good inter-crystalline/vuggy porosity, sucrosic in part, fair to good stain and saturation, good show of free oil and fair to good odor in fresh samples.

Drill Stem Test #6 **3603-3618**

Times: 30-30-30-30

Blow: Strong

Recovery: 2790' gas cut muddy water

Pressures:

ISIP	1229	psi
FSIP	1230	psi
IFP	483-1102	psi
FFP	1116-1227	psi
HSH	1743-1712	psi

3618-3640' Dolomite, as above, fair porosity, brown stain, show of free oil and fair odor in fresh samples.

3640-3660' Dolomite, tan, finely crystalline, few medium crystalline, fair to good stain, show of free oil and fair odor in fresh samples.

3660-3680' Dolomite, as above; gray and brown stain, no free oil and fair odor in fresh samples.

3680-3690' Dolomite, as above, plus white chert.

3690-3700' Dolomite, white, gray, finely crystalline, fair porosity, black and gray stain, no free oil and fair odor in fresh samples.

Mai Oil Operations
Mueller 'I' #7
W/2-SW-SE-SE (330' FSL & 1010' FEL)
Section 29-21s-12w
Stafford County, Kansas

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Rotary Total Depth 3700
Log Total Depth 3698

Recommendations:

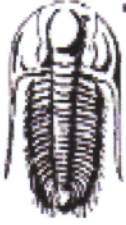
5 ½" production casing set and cemented on the Mai Oil Operations Inc., Mueller 'I' #7.

Respectfully yours,

James C. Musgrove

James C. Musgrove
Petroleum Geologist





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Oper. Inc.
 8411 Preston Rd. Ste. 800
 Dallas, TX 75225-5520
 ATTN: Jim Musgrove

29-21s-12w Stafford,KS
Mueller "I" #7
 Job Ticket: 54170 **DST#: 1**
 Test Start: 2014.08.23 @ 11:35:39

GENERAL INFORMATION:

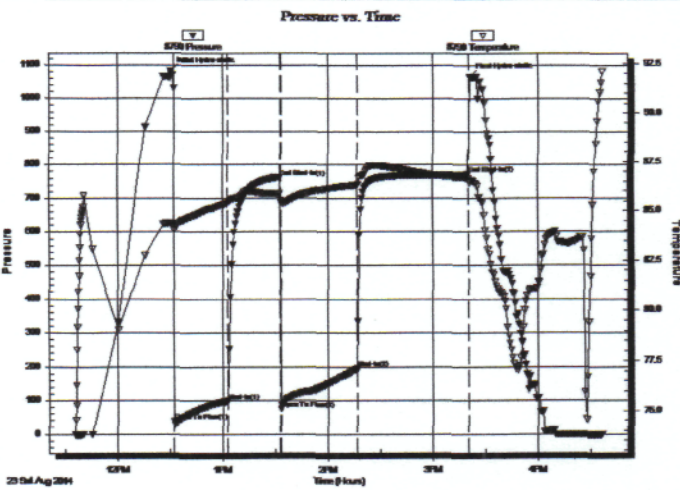
Formation: **Red Eagle**
 Deviated: **No Whipstock:** ft (KB)
 Test Type: **Conventional Bottom Hole (Initial)**
 Time Tool Opened: 12:32:09 Tester: **Ryan Reynolds**
 Time Test Ended: 16:36:54 Unit No: **68**
 Interval: **2235.00 ft (KB) To 2250.00 ft (KB) (TVD)** Reference Elevations: **1868.00 ft (KB)**
 Total Depth: **2250.00 ft (KB) (TVD)** **1860.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **8.00 ft**

Serial #: 8790

Inside

Press@RunDepth: **194.82 psig @ 2236.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2014.08.23** End Date: **2014.08.23** Last Calib.: **2014.08.23**
 Start Time: **11:35:44** End Time: **16:36:53** Time On Btm: **2014.08.23 @ 12:30:09**
 Time Off Btm: **2014.08.23 @ 15:20:39**

TEST COMMENT: F: Strong blow . BOB @ 1 1/2 min.
 IS: Weak 2" BB
 FF: Strong blow . BOB immed. GTS @ 13min. Gauged gas.
 FS: Fair 4" BB



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1082.95	84.40	Initial Hydro-static
2	37.64	84.04	Open To Flow (1)
33	97.07	85.38	Shut-in(1)
63	762.46	85.86	End Shut-in(1)
63	75.49	85.51	Open To Flow (2)
107	194.82	86.29	Shut-in(2)
170	773.67	86.64	End Shut-in(2)
171	1064.33	86.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
335.00	GMCW 2%g, 5%m, 93%w	3.64

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	12.00	10.03
Last Gas Rate	0.13	50.00	24.25
Max. Gas Rate	0.13	50.00	24.25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Oper. Inc.
 8411 Preston Rd. Ste. 800
 Dallas, TX 75225-5520
 ATTN: Jim Musgrove

29-21s-12w Stafford,KS
Mueller "I" #7
 Job Ticket: 54171 **DST#: 2**
 Test Start: 2014.08.25 @ 06:38:03

GENERAL INFORMATION:

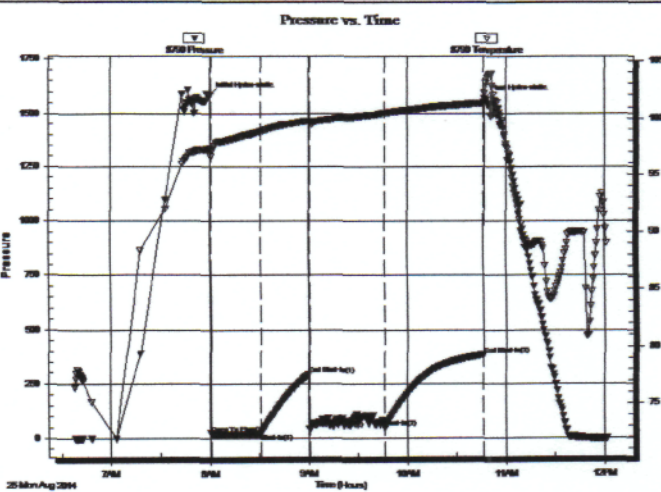
Formation: **LKC. A - D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:01:03
 Time Test Ended: 12:01:48
 Interval: **3250.00 ft (KB) To 3326.00 ft (KB) (TVD)**
 Total Depth: 3326.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 68
 Reference Elevations: 1868.00 ft (KB)
 1860.00 ft (CF)
 KB to GRV/CF: 8.00 ft

Serial #: 8790

Inside

Press@RunDepth: 48.40 psig @ 3253.50 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.25 End Date: 2014.08.25 Last Calib.: 2014.08.25
 Start Time: 06:38:08 End Time: 12:01:47 Time On Btm: 2014.08.25 @ 08:00:18
 Time Off Btm: 2014.08.25 @ 10:47:03

TEST COMMENT: F: Strong blow . BOB @ 8 min.
 IS: No blow
 FF: Strong blow . BOB immed. No GTS.
 FS: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1583.78	97.26	Initial Hydro-static
1	22.23	96.96	Open To Flow (1)
31	22.99	98.79	Shut-In(1)
60	293.27	99.72	End Shut-In(1)
61	45.34	99.59	Open To Flow (2)
107	48.40	100.45	Shut-In(2)
167	385.80	101.33	End Shut-In(2)
167	1568.35	102.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	OCM 4%o, 96%rn	0.63
0.00	1400' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Oper. Inc.
 8411 Preston Rd. Ste. 800
 Dallas, TX 75225-5520
 ATTN: Jim Musgrove

29-21s-12w Stafford, KS
Mueller "I" #7
 Job Ticket: 54172 **DST#: 3**
 Test Start: 2014.08.26 @ 04:29:20

GENERAL INFORMATION:

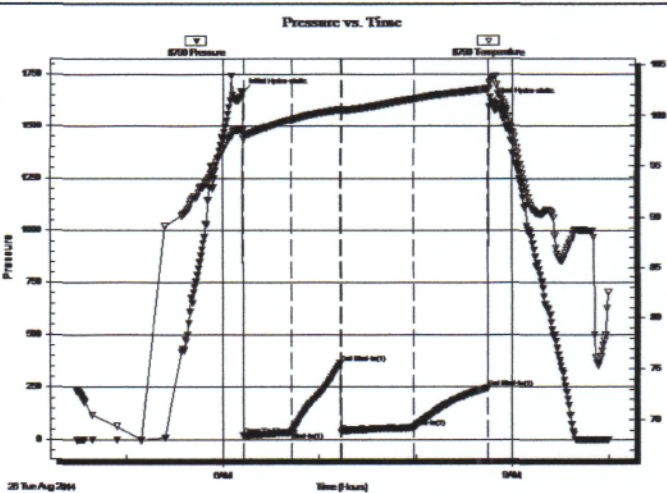
Formation: **LKC H - L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:12:50
 Time Test Ended: 09:59:50
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 68
 Interval: **3383.00 ft (KB) To 3481.00 ft (KB) (TVD)**
 Total Depth: 3481.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Reference Elevations: 1868.00 ft (KB)
 1860.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8790

Inside

Press@RunDepth: 59.77 psig @ 3388.50 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.26 End Date: 2014.08.26 Last Calib.: 2014.08.26
 Start Time: 04:29:25 End Time: 09:59:49 Time On Btmr: 2014.08.26 @ 06:12:35
 Time Off Btmr: 2014.08.26 @ 08:46:20

TEST COMMENT: F: Good blow . 1" - 9"
 IS: No blow .
 FF: Fair blow . 1" - 5"
 FS: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1663.89	98.52	Initial Hydro-static
1	20.18	97.67	Open To Flow (1)
30	33.31	99.59	Shut-In(1)
61	366.31	100.60	End Shut-In(1)
61	36.75	100.47	Open To Flow (2)
106	59.77	101.63	Shut-In(2)
153	247.18	102.63	End Shut-In(2)
154	1618.23	103.49	Final Hydro-static

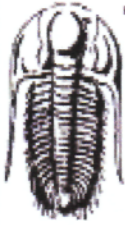
Recovery

Length (ft)	Description	Volume (bbl)
90.00	VSLI OCM 1%o, 99% m	1.26
0.00	210' GP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Oper. Inc.
 8411 Preston Rd. Ste. 800
 Dallas, TX 75225-5520
 ATTN: Jim Musgrove

29-21s-12w Stafford,KS
Mueller "1" #7
 Job Ticket: 54173 **DST#: 4**
 Test Start: 2014.08.26 @ 16:10:12

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:31:12
 Time Test Ended: 20:59:12
 Interval: **3475.00 ft (KB) To 3531.00 ft (KB) (TVD)**
 Total Depth: 3531.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

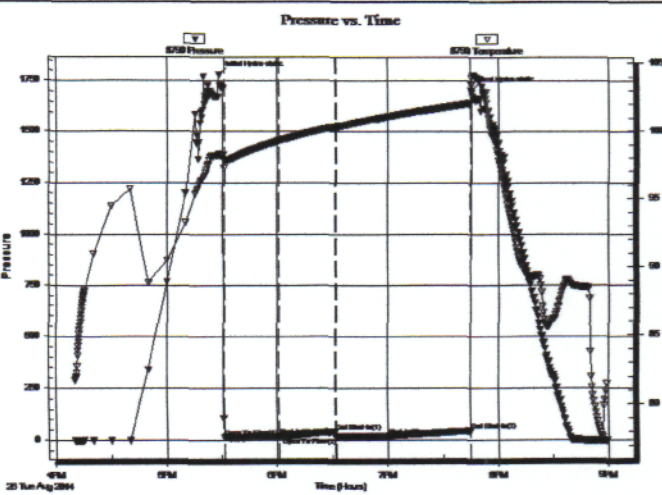
Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 68
 Reference Elevations: 1868.00 ft (KB)
 1860.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8790

Inside

Press@RunDepth: 20.19 psig @ 3480.00 ft (KB)
 Start Date: 2014.08.26 End Date: 2014.08.26
 Start Time: 16:10:17 End Time: 20:59:11
 Capacity: 8000.00 psig
 Last Calib.: 2014.08.26
 Time On Btrn: 2014.08.26 @ 17:28:27
 Time Off Btrn: 2014.08.26 @ 19:45:12

TEST COMMENT: F: Weak surface blow.
 IS: No blow
 FF: Weak blow . surf. - Dead @ 20 min.
 FS: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1779.99	98.26	Initial Hydro-static
3	15.35	97.71	Open To Flow (1)
33	18.11	99.28	Shut-In(1)
63	42.73	100.29	End Shut-In(1)
64	15.00	100.29	Open To Flow (2)
92	20.19	101.10	Shut-In(2)
137	44.52	102.07	End Shut-In(2)
137	1705.07	103.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig mud 100% <i>m</i>	0.14

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Oper. Inc.

29-21s-12w Stafford,KS

8411 Preston Rd. Ste. 800
Dallas, TX 75225-5520

Mueller "I" #7

Job Ticket: 54174

DST#: 5

ATTN: Jim Musgrove

Test Start: 2014.08.27 @ 07:01:46

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:40:16

Time Test Ended: 11:56:46

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Reynolds

Unit No: 68

Interval: 3528.00 ft (KB) To 3603.00 ft (KB) (TVD)

Reference Elevations: 1868.00 ft (KB)

Total Depth: 3603.00 ft (KB) (TVD)

1860.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8790

Inside

Press@RunDepth: 43.38 psig @ 3530.50 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.27

End Date:

2014.08.27

Last Calib.: 2014.08.27

Start Time: 07:01:51

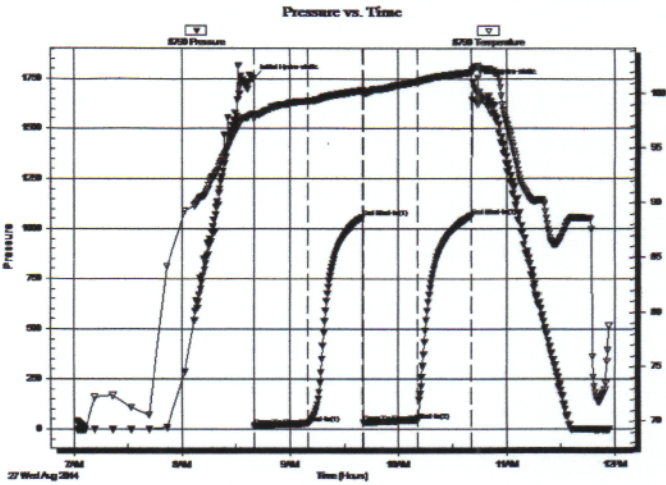
End Time:

11:56:45

Time On Btmr: 2014.08.27 @ 08:40:01

Time Off Btmr: 2014.08.27 @ 10:41:16

TEST COMMENT: F: Weak surface blow.
IS: No blow
FF: Weak surface blow.
FS: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1755.29	98.24	Initial Hydro-static
1	14.91	97.72	Open To Flow (1)
30	29.80	99.39	Shut-In(1)
60	1057.59	100.35	End Shut-In(1)
61	33.31	99.96	Open To Flow (2)
91	43.38	101.14	Shut-In(2)
121	1063.22	102.02	End Shut-In(2)
122	1730.29	102.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
64.00	OGCM 5%o, 15%g, 80%m	0.90

* Recovery from multiple tests

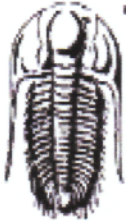
Gas Rates

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

Trilobite Testing, Inc

Ref. No: 54174

Printed: 2014.08.29 @ 10:31:59



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Oper. Inc.
 8411 Preston Rd. Ste. 800
 Dallas, TX 75225-5520
 ATTN: Jim Musgrove

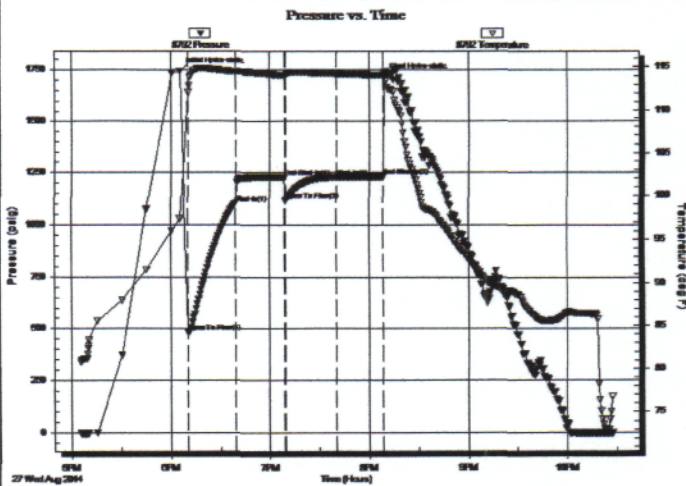
29-21s-12w Stafford,KS
Mueller "I" #7
 Job Ticket: 54175 **DST#: 6**
 Test Start: 2014.08.27 @ 17:05:30

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:10:30
 Time Test Ended: 22:27:30
 Interval: **3603.00 ft (KB) To 3618.00 ft (KB) (TVD)**
 Total Depth: 3618.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 68
 Reference Elevations: 1868.00 ft (KB)
 1860.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8792 Outside
 Press@RunDepth: 1227.26 psig @ 3604.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.27 End Date: 2014.08.27 Last Calib.: 2014.08.27
 Start Time: 17:05:35 End Time: 22:27:29 Time On Btm: 2014.08.27 @ 18:05:30
 Time Off Btm: 2014.08.27 @ 20:09:15

TEST COMMENT: F: Strong blow . BOB @ 30 sec.
 IS: No blow
 FF: Strong blow . BOB @ 1min. died to 3"
 FSI: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1743.06	97.34	Initial Hydro-static
5	483.03	112.05	Open To Flow (1)
34	1102.43	114.46	Shut-In(1)
63	1228.51	114.06	End Shut-In(1)
64	1116.16	114.04	Open To Flow (2)
95	1227.26	114.25	Shut-In(2)
123	1229.73	114.06	End Shut-In(2)
124	1712.61	114.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2790.00	MGCW 4% <i>m</i> , 10% <i>g</i> , 86% <i>w</i>	39.14

* 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. 288

Date 8-21-14	Sec. 29	Twp. 21	Range 12	County Stafford	State KS	On Location	Finish 8:00pm
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Location Great Bend, 11S, 5E, 7AS

Lease Mueller I	Well No. 7	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 12 1/4	T.D. 641	Charge To Mai Oil
Csg. 8 5/8	Depth 642	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 20	Cement Amount Ordered 400 sx 6 1/2, 3% CC, 2% gel
Meas Line	Displace 39.2 bbl	

EQUIPMENT

Pumptrk 17	No.	Cementer	Common
		Helper Lonnie W	Poz. Mix
Bulktrk 19	No.	Driver	Gel.
		Driver Tylor	
Bulktrk P4	No.	Driver	Calcium
		Driver Travis	

JOB SERVICES & REMARKS

Remarks: Cement did circulate	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

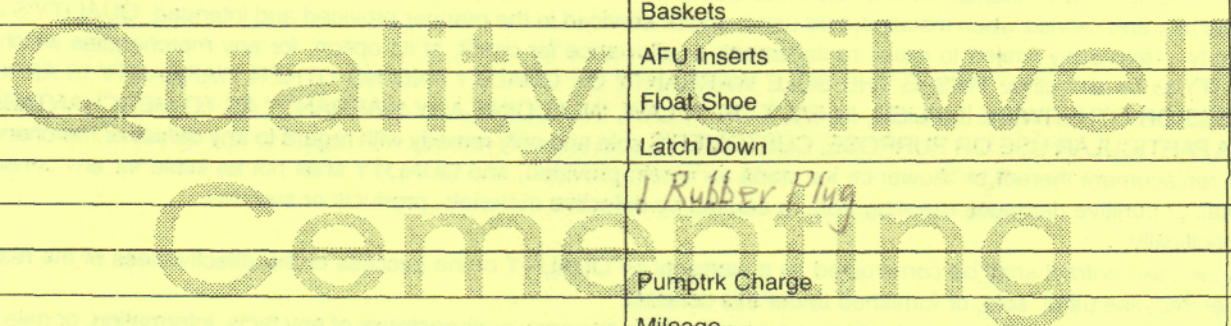
	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

1 Rubber Plug

Pumptrk Charge
Mileage

Tax
Discount
Total Charge

X Signature *Andy Idrew*



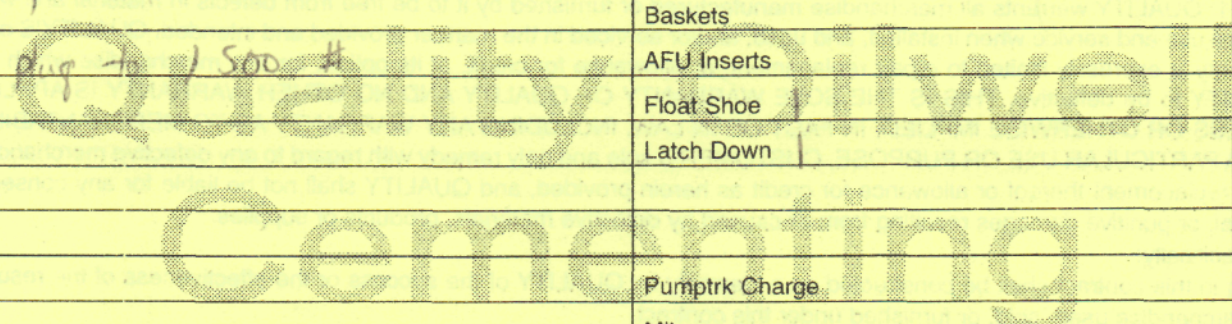
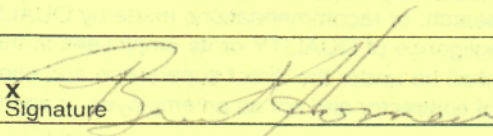
QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 617

Date	8-28-14	Sec.	29	Twp.	21	Range	12	County	Stafford	State	Ks	On Location	Finish	11:15 PM
Location								Great Bend, Ks - 11 S, SE, 7/8 S, W/5						
Lease	Mueller "I"			Well No.	7			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	Production			Charge To				Main oil operations						
Hole Size	7 7/8"			T.D.	3700'			Street						
Csg.	New 5 1/2" 14#			Depth	3696'			City						
Tbg. Size				Depth				State						
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.						
Cement Left in Csg.	20.80'			Shoe Joint	20.80'			Cement Amount Ordered						
Meas Line				Displace	89 1/2 Bcs			175 60/40 10% Salt 2% Gel 1/4# Fl-seal - 1000 gal Mud Clear 48						
EQUIPMENT								Common						
Pumptrk	16	No.	Cementer	Billy			Poz. Mix							
Bulktrk	14	No.	Driver	Jason Neely			Gel.							
Bulktrk	7.11	No.	Driver	Rick			Calcium							
JOB SERVICES & REMARKS								Hulls						
Remarks:								Salt						
Rat Hole								Flowseal						
Mouse Hole								Kol-Seal						
Centralizers	1-11, 13, 15							Mud CLR 48						
Baskets	pipe on bottom, break circulation							CFL-117 or CD110 CAF 38						
D/V or Port Collar	pump 1000 gal mud clear 48							Sand						
plug Rathole w/ 35% cement 5 1/2"								Handling						
Casing w/ 145' s shut down w/								Mileage						
pump + lines Released plug & Displaced								FLOAT EQUIPMENT						
w/ 89 1/2 Bcs of water Released + held								Guide Shoe						
Lift pressure 700 #								Centralizer 13 turbo's						
Land dug to 1500 #								Baskets						
								AFU Inserts						
								Float Shoe						
								Latch Down						
								Pumptrk Charge						
								Mileage						
														
Signature: 											Tax			
											Discount			
											Total Charge			

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

December 24, 2014

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

Re: ACO-1
API 15-185-23898-00-00
Mueller "I" 7
SE/4 Sec.29-21S-12W
Stafford 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 08/21/2014 and the ACO-1 was received on December 24, 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