



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1235089
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: _____



1235089

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Hammeke "M" 8
Doc ID	1235089

Tops

Name	Top	Datum
Anhydrite	641	+1208
Topeka	2823	-974
Heebner	3106	-1257
Toronto	3125	-1276
Brown Lime	3240	-1391
Lansing	3247	-1398
Base Kansas City	3477	-1628
Viola	3487	-1638
Arbuckle	3570	-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
Hammeke 'M' #8
S/2-NW-SW-SW (765' FSL & 330' FWL)
Section 22-21s-12w
Stafford County, Kansas

Page 1

5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (rig #3)
Commenced: August 12, 2014
Completed: August 20, 2014
Elevation: 1849' K.B., 1847' D.F., 1841' G.L.
Casing program: Surface; 8 5/8" @ 600'
Production, 5 1/2 @ 3699'
Sample: Samples saved and examined 1900' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 1900 ft. to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There were eight (8) Drill Stem Tests ran by Diamond Testing Co.
Electric Log: By Nabors; Dual Induction, Compensated Density/Neutron; Sonic and Micro.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	641	-1208
Base Anhydrite	662	+1187
Red Eagle	2234	-385
Tarkio Lime	2390	-541
Topeka	2823	-974
Heebner	3106	-1257
Toronto	3125	-1276
Douglas	3141	-1292
Brown Lime	3240	-1391
Lansing	3247	-1398
Base Kansas City	3477	-1628
Viola	3487	-1638
Simpson Shale	3519	-1670
Arbuckle	3570	-1721
Rotary Total Depth	3700	-1851
Log Total Depth	3698	-1849

All tops and zones corrected to Electric Log Measurement.

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

RED EAGLE SECTION

2234-2247' Limestone, cream, finely crystalline, fossiliferous, scattered porosity, no stain, no free oil, no gas bubbles; no odor (7 unit gas kick).

TOPEKA SECTION

2900-3106' No shows of oil and/or gas was noted in the Topeka section.

TORONTO SECTION

3125-3133' Limestone, cream, tan, finely crystalline, poor visible porosity, no shows.

LANSING SECTION

3250-3265' Limestone, cream, tan, finely crystalline, chalky, poor scattered porosity, brown stain, trace of free oil and faint odor in fresh samples.

3272-3278' Limestone, cream, tan, finely crystalline, chalky in part, poorly developed porosity, light brown to black stain; show of free oil and questionable odor in fresh samples.

3288-3292' Limestone, tan, buff, finely crystalline, poor to fair inter-crystalline type porosity, good stain and saturation, good show of free oil and faint odor in fresh samples.

Drill Stem Test #1 **3256-3290**

Times: 30-30-45-45

Blow: Strong

Recovery: 63' oil and gas muddy water
(15% gas; 20% oil; 60% water; 5% mud)
63' Heavy oil cut muddy water
(25% oil; 15%; gas; 50% water; 10% mud)
63' oil and gas cut muddy water
(10% gas; 20% oil; 50% water; 10% mud)
63' slightly oil and gas cut muddy water
(10% gas; 5% oil; 35% water; 50% mud)
63' slightly oil and gas cut muddy water
(5% gas; 2.5% oil; 90% water; 2.5% mud)

Pressures: ISIP 360 psi
FSIP 416 psi
IFP 84-93 psi
FFP 96-147 psi
HSH 1532-1482 psi

- 3310-3314' Limestone, tan, cream, finely crystalline, poor visible porosity, trace black/brown stain, no free oil and no odor in fresh samples.
- 3319-3328' Limestone, tan, cream, finely crystalline, slightly chalky, poorly developed porosity, light brown stain, show of free oil and faint odor in fresh samples.

Drill Stem Test #2

3299-3340

Times: 30-30-45-45

Blow: Strong

**Recovery: 40' very slightly oil and gas cut muddy water
(2.5% gas; 2.5% oil; 30% water; 65% mud)
63' oil and gas cut muddy water
(15% gas; 10% oil; 45% water; 30% mud)
63' oil and gas cut muddy water
(15% gas; 15% oil; 65% water; 15% mud)
63' slightly oil and gas cut muddy water
(5% gas; 5% oil; 75% water; 15% mud)
63' slightly oil and gas cut muddy water
(10% gas; 5% oil; 80% water; 5% mud)**

**Pressures: ISIP 750 psi
FSIP 733 psi
IFP 83-122 psi
FFP 136-206 psi
HSH 1632-1599 psi**

- 3346-3360' Limestone, cream, tan, finely crystalline, poor scattered porosity, black stain, no free oil and no odor.
- 3380-3386' Limestone, cream, oomoldic, fair vuggy porosity, trace poor stain, no free oil and questionable odor.
- 3396-3406' Limestone, cream, white, finely crystalline, oolitic, chalky; poorly developed porosity, trace stain, show of free oil and questionable odor.
- 3413-3420' Limestone, cream, tan, finely crystalline, poor visible porosity, no shows.

Drill Stem Test #3

3372-3440

Times: 30-30-45-45

Blow: Strong

**Recovery: 30' clean oil
63' oil and gas cut water
(40% gas; 10% oil; 10% water; 40% mud)
63' Heavy oil and gas cut water
(50% oil; 30%; water; 20% mud)
63' oil and gas cut muddy water
(5% gas; 5% oil; 50% water; 10% mud)
63' slightly oil and gas cut muddy water
(10% gas; 5% oil; 60% water; 30% mud)
63' muddy water**

**Pressures: ISIP 750 psi
FSIP 733 psi
IFP 83-122 psi
FFP 136-206 psi
HSH 1632-1599 psi**

3436-3450' Limestone, cream, gray, finely crystalline, poorly developed porosity, no shows.

3456-3470' Limestone, cream, gray, finely crystalline, cherty, poor scattered porosity, trace black stain, light brown stain, show of free oil and no odor.

VIOLA SECTION

3486-3500' Chert, tan, brown, opaque, few semi-tripolitic, black stain, golden brown stain, show of free oil and no odor.

3500-3520' Chert, white, boney, tan, brown, black/brown stain, race of free oil and no odor.

Drill Stem Test #4

3460-3535

Times: 30-30-45-45

Blow: Strong

**Recovery: 126' oil and gas cut mud
(70% gas; 15% oil; 15% mud)
126' heavy oil and gas cut mud
(45% gas; 40% oil; 15% mud)
63' muddy gassy oil
(15% gas; 70% oil; 15% mud)
63' muddy gassy oil
(20% gas; 50% oil; 30% mud)
20' mud**

**Pressures: ISIP 1104 psi
FSIP 1085 psi
IFP 72-129 psi
FFP 145-206 psi
HSH 1671-1639 psi**

ARBUCKLE SECTION

- 3570-3580' Dolomite, white, tan, finely crystalline, sucrosic, scattered porosity, trace brown stain, trace of free oil and faint odor.
- 3580-3597' Dolomite, white/tan, fine and medium crystalline, sucrosic, fair to poor vuggy type porosity, brown stain, show of free oil and strong odor in fresh samples.

Drill Stem Test #5

3523-3597

Times: 30-45-45-60

Blow: Fair to good

**Recovery: 232' gas in pipe
20' slightly oil cut mud
(5% oil; 95% mud)
63' oil and gas cut mud
(50% gas; 10% oil; 40% mud)**

**Pressures: ISIP 243 psi
FSIP 294 psi
IFP 56-114 psi
FFP 66-79 psi
HSH 1716-1669 psi**

3598-3615' Dolomite, tan, finely crystalline, fair inter-crystalline and vuggy type porosity, black/brown stain, show of free oil and strong odor in fresh samples

Drill Stem Test #6 **3601-3615**

Times: 30-30-45-45

Blow: Strong

Recovery: 461' clean gassy oil

Pressures: ISIP 1054 psi
FSIP 1042 psi
IFP 35-72 psi
FFP 78-144 psi
HSH 1714-1691 psi

3616-3635' Dolomite, tan, finely crystalline, fair vuggy porosity, golden brown stain, show of free oil and fair odor in fresh samples.

Drill Stem Test #7 **3616-3635**

Times: 30-30-45-45

Blow: Strong

Recovery: 420' clean gassy oil

Pressures: ISIP 1165 psi
FSIP 1162 psi
IFP 42-84 psi
FFP 92-172 psi
HSH 1735-1676 psi

3641-3647' Dolomite, tan, finely crystalline, poor to fair porosity, light brown and black stain, show of free oil and faint odor in fresh samples.

Drill Stem Test #8 **3633-3648**

Times: 30-45-45-60

Blow: Strong

Recovery: 6' clean gassy oil
150' muddy water

Pressures: ISIP 1190 psi
FSIP 1185 psi
IFP 23-58 psi
FFP 64-119 psi
HSH 1748-1689 psi

Mai Oil Operations
Hammeke 'M' #8
S/2-NW-SW-SW (765' FSL & 330' FWL)
Section 22-21s-12w
Stafford County, Kansas

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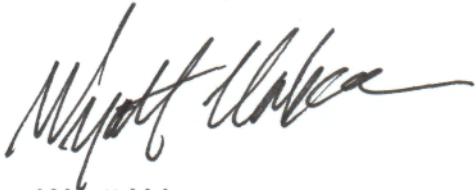
3650-3660'	Dolomite, tan, finely crystalline, poor visible porosity, brown/black spotty stain, trace of oil and faint odor in fresh samples.
3660-3680'	Dolomite, tan, fine and medium crystalline, poor to fair vuggy porosity (barren).
3680-3700'	Dolomite tan, white, fine and medium crystalline, poor to fair vuggy porosity, no shows.

Rotary Total Depth	3700
Log Total Depth	3698

Recommendations:

5 ½" production casing set and cemented on the Mai Oil Operations Inc., Hammeke 'M' #8.

Respectfully yours,



Wyatt Urban
Petroleum Geologist



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mai Oil Operations, Inc.

22-21s-12w Stafford, KS

8411 Preston Rd, STE 800
Dallas TX 75225-5520

Hammeke "M" #8

Job Ticket: 60335

DST#: 1

ATTN: Wyatt Urban

Test Start: 2014.08.15 @ 21:30:00

GENERAL INFORMATION:

Formation: **LKC "A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:28:30

Time Test Ended: 04:04:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzern

Unit No: S3

Interval: **3256.00 ft (KB) To 3290.00 ft (KB) (TVD)**

Reference Elevations: 1849.00 ft (KB)

Total Depth: 3290.00 ft (KB) (TVD)

1841.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8524

Inside

Press@RunDepth: 147.46 psig @ 3286.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.15

End Date:

2014.08.16

Last Calib.:

2014.08.16

Start Time: 21:31:00

End Time:

04:04:00

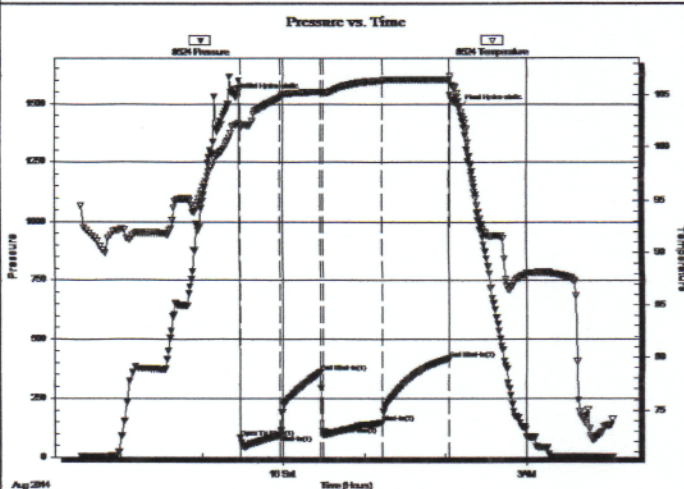
Time On Btm:

2014.08.15 @ 23:24:30

Time Off Btm:

2014.08.16 @ 02:10:30

TEST COMMENT: FFP 30 - Strong blow built to bottom of bucket in 34 seconds. Gas to surface in 10 min
ISI 30 - Weak surface blow back.
FFP 45 - Strong blow built to bottom of bucket in 10 seconds.
FSI 45 - Blow back built to 2"



PRESSURE SUMMARY

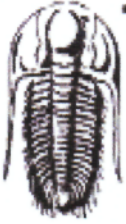
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1532.21	102.08	Initial Hydro-static
4	84.26	102.01	Open To Flow (1)
34	93.18	104.77	Shut-In(1)
64	360.03	105.28	End Shut-In(1)
66	96.60	105.20	Open To Flow (2)
109	147.46	106.38	Shut-In(2)
158	416.65	106.42	End Shut-In(2)
166	1482.38	103.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GOCMV 15% G, 20% O, 5% M, 60% W	0.88
63.00	GOCMV 15% G, 10% M, 25% O, 50% W	0.88
63.00	GOCMV 10% G, 20% O, 20% M, 50% W	0.88
63.00	GOCMV 5% O, 10% G, 35% W, 50% M	0.88
63.00	GOCMV 2.5% O, 5% G, 2.5% M, 90% W	0.88

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	0.00	22.84
Last Gas Rate	0.25	5.00	30.78
Max. Gas Rate	0.25	8.00	35.54



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations, Inc.
8411 Preston Rd, STE 800
Dallas TX 75225-5520
ATTN: Wyatt Urban

22-21s-12w Stafford, KS
Hammeke "M" #8
Job Ticket: 60336 **DST#: 2**
Test Start: 2014.08.16 @ 10:45:00

GENERAL INFORMATION:

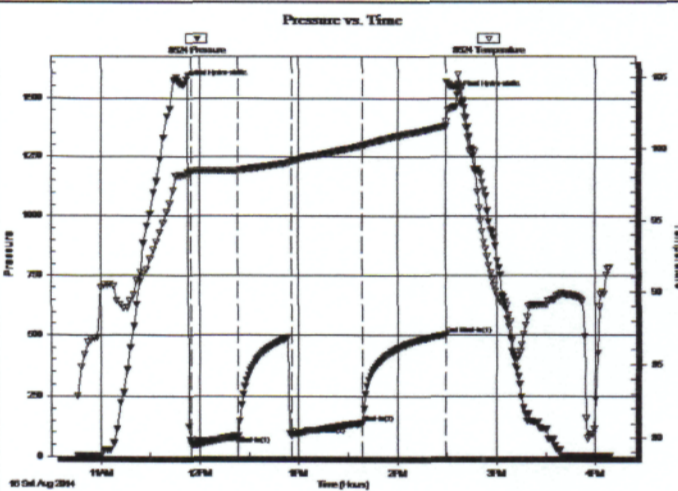
Formation: **LKC "D-F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:55:00
Time Test Ended: 16:08:30
Interval: **3299.00 ft (KB) To 3340.00 ft (KB) (TVD)**
Total Depth: 3340.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzern
Unit No: S3
Reference Elevations: 1849.00 ft (KB)
1841.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8524

Inside

Press@RunDepth: 85.66 psig @ 3336.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.08.16 End Date: 2014.08.16 Last Calib.: 2014.08.16
Start Time: 10:46:00 End Time: 16:08:30 Time On Btrm: 2014.08.16 @ 11:49:30
Time Off Btrm: 2014.08.16 @ 14:36:00

TEST COMMENT: FFP - 30 - Strong blow built to bottom of bucket in 30 seconds. Gas to surface in 15 min
ISI - 30 - No blow back.
FFP - 45 - Strong blow built to bottom of 5 gallon bucket in 10 seconds.
FSI - 45 - Weak surface blow back.



PRESSURE SUMMARY

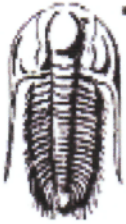
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1555.89	98.11	Initial Hydro-static
6	54.07	98.42	Open To Flow (1)
34	85.66	98.47	Shut-In(1)
66	88.54	99.10	Open To Flow (2)
109	139.48	100.22	Shut-In(2)
160	502.39	101.56	End Shut-In(1)
167	1515.32	103.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	GOCMW 2.5% G, 2.5% O, 30% W, 65% M 0.56	
63.00	GOCMW 15% G, 10% O, 30% M, 45% W 0.88	
63.00	GOCMW 15% G, 15% O, 15% M, 65% W 0.88	
63.00	GOCMW 5% G, 5% O, 15% M, 75% W 0.88	
63.00	GOCMW 10% G, 5% O 5% M 80% W 0.88	

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	0.00	5.39
Last Gas Rate	0.13	5.00	7.26
Max. Gas Rate	0.13	5.00	7.26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations, Inc.

22-21s-12w Stafford,KS

8411 Preston Rd, STE 800
Dallas TX 75225-5520

Hammeke "M" #8

Job Ticket: 60337

DST#: 3

ATTN: Wyatt Urban

Test Start: 2014.08.17 @ 00:55:00

GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:38:00

Time Test Ended: 08:43:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: S3

Interval: **3370.00 ft (KB) To 3440.00 ft (KB) (TVD)**

Reference Elevations: 1849.00 ft (KB)

Total Depth: 3440.00 ft (KB) (TVD)

1841.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8159

Outside

Press@RunDepth: 732.60 psig @ 3437.26 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.17

End Date:

2014.08.17

Last Calib.: 2014.08.17

Start Time: 00:56:00

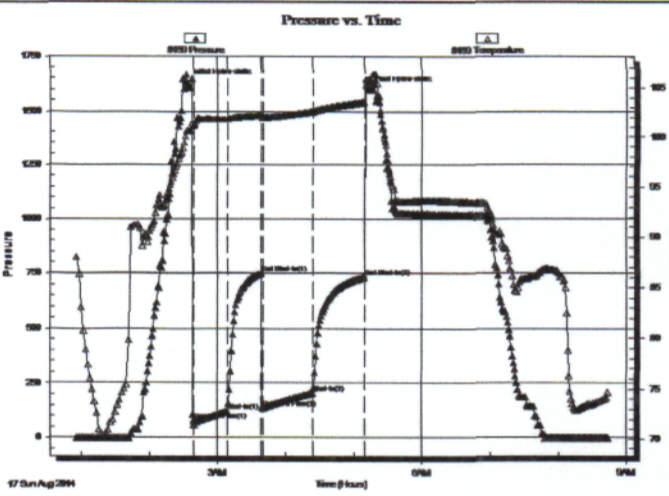
End Time:

08:44:00

Time On Btm: 2014.08.17 @ 02:33:30

Time Off Btm: 2014.08.17 @ 05:13:00

TEST COMMENT: FP - 30 - Good blow built to bottom of bucket in 1 1/2 min
 ISI - 30 - Weak surface blow back.
 FFP - 45 - Good blow built to bottom of bucket in 4 min
 FSI - 45 - Weak surface blow back.



PRESSURE SUMMARY

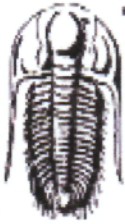
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1630.47	100.69	Initial Hydro-static
6	79.73	101.31	Open To Flow (1)
35	121.42	101.85	Shut-In(1)
65	749.11	102.25	End Shut-In(1)
67	135.64	102.07	Open To Flow (2)
111	204.98	102.65	Shut-In(2)
156	732.60	103.61	End Shut-In(2)
160	1597.95	105.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	100% Clean gassy oil.	0.42
63.00	GOCVM 40% Gas, 10% Oil, 10% Water	0.88 M
63.00	MVCO 30% water, 20% Mud, 50% Oil	0.88
63.00	GOCMV 5% Gas, 5% Oil, 60% water;	0.88ud
63.00	OCMV 5% Oil, 20% Mud, 75% Water	0.88
63.00	VM 30% Water, 70% Mud	0.88

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: Wyatt Urban

22-21s-12w Stafford,KS
Hammeke "M" #8
 Job Ticket: 60338 **DST#: 4**
 Test Start: 2014.08.17 @ 17:40:00

GENERAL INFORMATION:

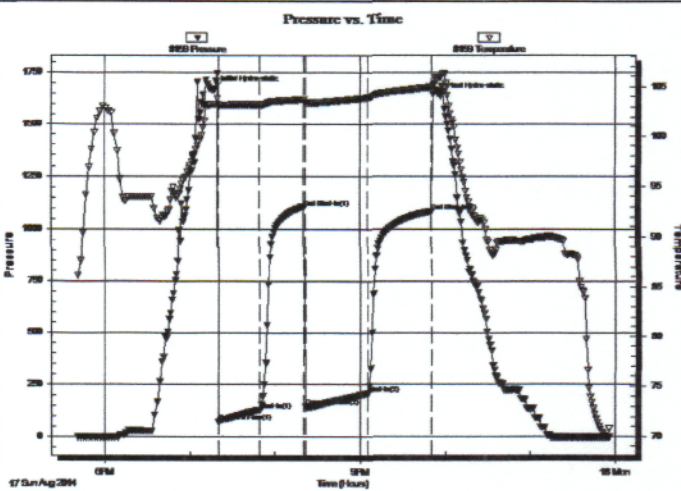
Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:20:00
 Time Test Ended: 23:55:30
 Interval: **3460.00 ft (KB) To 3535.00 ft (KB) (TVD)**
 Total Depth: 3535.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzern
 Unit No: S3/40/Great Bend
 Reference Elevations: 1849.00 ft (KB)
 1841.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8159

Outside

Press@RunDepth: 206.97 psig @ 3537.24 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.17 End Date: 2014.08.17 Last Calib.: 2014.08.18
 Start Time: 17:41:00 End Time: 23:55:30 Time On Btrm: 2014.08.17 @ 19:17:30
 Time Off Btrm: 2014.08.17 @ 21:57:00

TEST COMMENT: IFP - 30 - Good blow built to bottom of bucket in 2 min and 40 sec
 ISI - 30 - No blow back.
 IFP - 45 - Good blow built to bottom of bucket in 2 min and 40 sec
 FSI - 45 - Blow back built to 3" into water and died back to 1 1/2" GTS at 20 minutes into shut in.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1671.41	103.26	Initial Hydro-static
3	72.62	103.28	Open To Flow (1)
32	129.48	103.22	Shut-In(1)
63	1104.29	103.74	End Shut-In(1)
64	145.22	103.45	Open To Flow (2)
108	206.97	103.91	Shut-In(2)
153	1085.43	104.96	End Shut-In(2)
160	1639.51	105.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	100% Mud	0.28
126.00	GOCM 70% Gas, 15% Oil, 15% Mud	1.77
126.00	GOCM 45% Gas, 40% Oil, 15% Mud	1.77
63.00	GOCM 15% Gas, 70% Oil, 15% Mud	0.88
63.00	GOCM 20% Gas, 50% Oil, 30% Mud	0.88

Gas Rates

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



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 8411 Preston Rd, STE 800
 Dallas TX 75225-5520
 ATTN: Wyatt Urban

22-21s-12w Stafford,KS
Hammeke "M" #8
 Job Ticket: 60339 **DST#: 5**
 Test Start: 2014.08.18 @ 08:40:00

GENERAL INFORMATION:

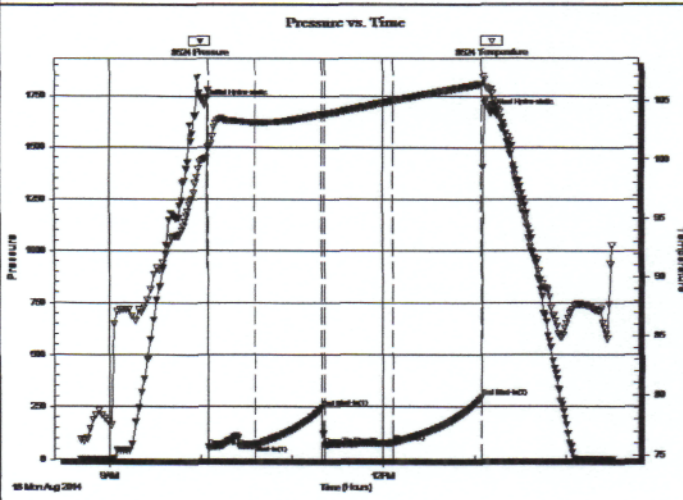
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:05:00
 Time Test Ended: 14:31:00
 Interval: **3523.00 ft (KB) To 3597.00 ft (KB) (TVD)**
 Total Depth: 3597.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzern
 Unit No: S3
 Reference Elevations: 1849.00 ft (KB)
 1841.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8524

Inside

Press@RunDepth: 79.65 psig @ 3593.23 ft (KB)
 Start Date: 2014.08.18 End Date: 2014.08.18
 Start Time: 08:41:00 End Time: 14:31:00
 Capacity: 8000.00 psig
 Last Calib.: 2014.08.18
 Time On Btm: 2014.08.18 @ 10:01:30
 Time Off Btm: 2014.08.18 @ 13:11:00

TEST COMMENT: FFP 30 Fair blow built to 11 1/2"
 FSI 45 No blow back.
 FFP 45 Good blow built to bottom of bucket in 4 minutes.
 FSI 60 No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1716.94	99.95	Initial Hydro-static
4	56.50	100.82	Open To Flow (1)
34	67.22	103.10	Shut-In(1)
78	243.69	103.84	End Shut-In(1)
80	66.72	103.86	Open To Flow (2)
125	79.65	104.97	Shut-In(2)
183	294.14	106.36	End Shut-In(2)
190	1669.74	105.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	232' GP	0.00
20.00	SOCM 5% O 95% M	0.28
63.00	GOCM 5-%G 15%O 40%M	0.88

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: Wyatt Urban

22-21s-12w Stafford,KS
Hammeke "M" #8
Job Ticket: 60340 **DST#: 6**
Test Start: 2014.08.18 @ 19:35:00

GENERAL INFORMATION:

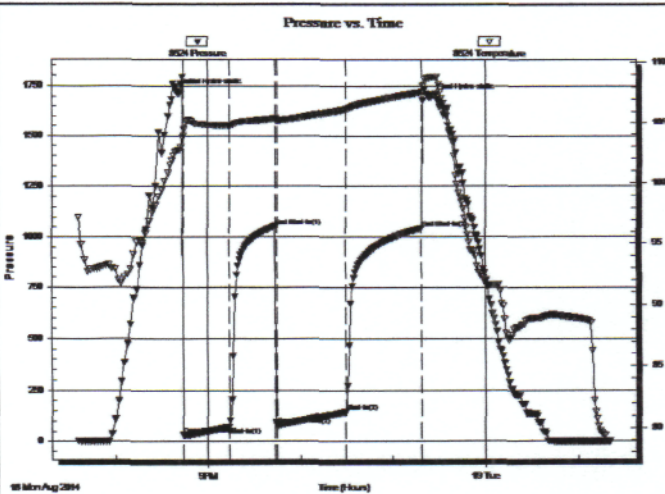
Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:44:00
Time Test Ended: 01:21:00
Interval: **3601.00 ft (KB) To 3615.00 ft (KB) (TVD)**
Total Depth: 3615.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: S3/40/Great Bend
Reference Elevations: 1849.00 ft (KB)
1841.00 ft (CF)
KB to GRV/CF: 8.00 ft

Serial #: 8524

Inside

Press@RunDepth: 144.88 psig @ 3611.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.08.18 End Date: 2014.08.19 Last Calib.: 2014.08.19
Start Time: 19:36:00 End Time: 01:21:00 Time On Btmr: 2014.08.18 @ 20:40:30
Time Off Btmr: 2014.08.18 @ 23:24:30

TEST COMMENT: IFF 30 Good blow built to bottom of bucket in 1 1/2 min
ISI 30 Blow back built to 2"
FFP 45 Fair blow built to bottom bucket in 5 minutes.
FSI 45 Blow back built to 4" into w water. Gas to surface 30 minutes into shut in.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1714.68	102.69	Initial Hydro-static
4	35.15	103.83	Open To Flow (1)
34	72.54	104.76	Shut-In(1)
64	1054.23	105.41	End Shut-In(1)
65	78.90	105.24	Open To Flow (2)
109	144.88	106.16	Shut-In(2)
158	1042.20	107.56	End Shut-In(2)
164	1691.71	108.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
461.00	100% Clean Gassy oil	6.47

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: Wyatt Urban

22-21s-12w Stafford,KS
Hammeke "M" #8
 Job Ticket: 60341 **DST#: 7**
 Test Start: 2014.08.19 @ 10:00:00

GENERAL INFORMATION:

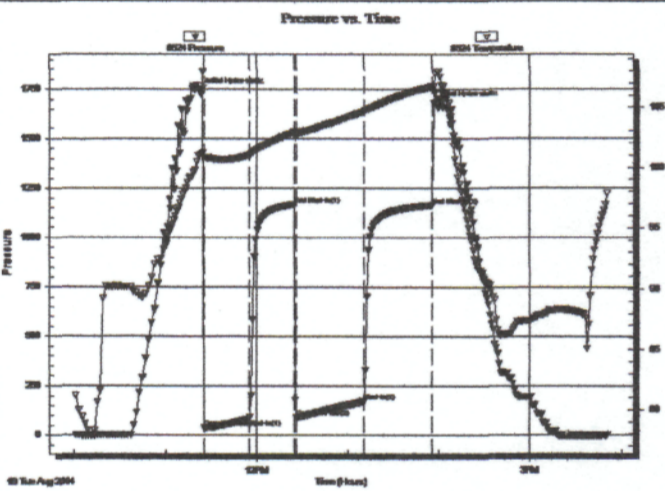
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:25:30
 Time Test Ended: 15:50:30
 Interval: **3616.00 ft (KB) To 3635.00 ft (KB) (TVD)**
 Total Depth: 3635.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzern
 Unit No: S3
 Reference Elevations: 1849.00 ft (KB)
 1841.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8524

Inside

Press@RunDepth: 172.16 psig @ 3631.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.19 End Date: 2014.08.19 Last Calib.: 2014.08.19
 Start Time: 10:01:00 End Time: 15:50:30 Time On Btm: 2014.08.19 @ 11:22:30
 Time Off Btm: 2014.08.19 @ 13:56:30

TEST COMMENT: FFP 30 Good blow built to bottom of bucket in 2 min and 50 sec
 ISI 30 Blow back built to 11"
 FFP 45 Good blow built to bottom of bucket in 2 min and 50 sec
 FSI 45 Blow back built to bottom of bucket in 15 min. GTS in 40 min



PRESSURE SUMMARY

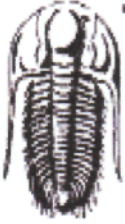
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1735.77	101.08	Initial Hydro-static
3	42.12	100.85	Open To Flow (1)
33	84.35	101.02	Shut-in(1)
62	1165.96	102.90	End Shut-in(1)
64	92.45	102.78	Open To Flow (2)
108	172.16	104.70	Shut-in(2)
153	1162.27	106.74	End Shut-in(2)
154	1676.34	106.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
420.00	100% Clean gassy oil.	5.89

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: Wyatt Urban

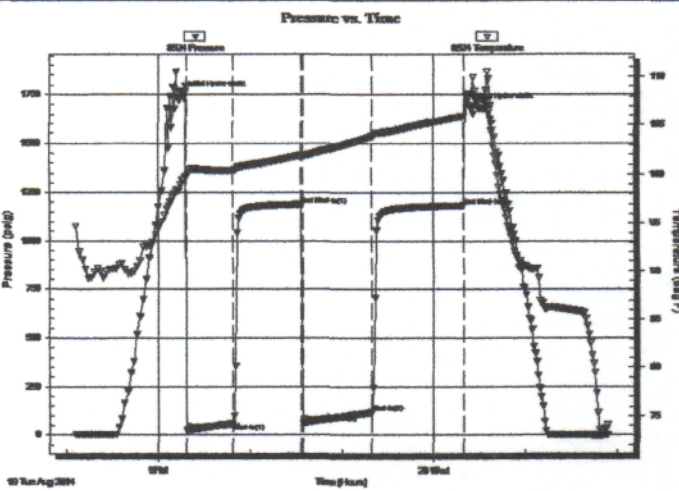
22-21s-12w Stafford,KS
Hammeke "M" #8
Job Ticket: 60342 **DST#: 8**
Test Start: 2014.08.19 @ 20:05:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:18:30
Time Test Ended: 01:53:30
Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: S3
Interval: **3633.00 ft (KB) To 3648.00 ft (KB) (TVD)**
Total Depth: 3648.00 ft (KB) (TVD)
Reference Elevations: 1849.00 ft (KB)
1841.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Poor
KB to GR/CF: 8.00 ft

Serial #: 8524 Inside
Press@RunDepth: 119.59 psig @ 3644.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.08.19 End Date: 2014.08.20 Last Calib.: 2014.08.20
Start Time: 20:06:00 End Time: 01:53:30 Time On Btm: 2014.08.19 @ 21:15:30
Time Off Btm: 2014.08.20 @ 00:23:30

TEST COMMENT: FP 30 Fair blow built to bottom of bucket in 23 1/2 min
ISI 45 No blow back.
FFP 45 Fair blow built to bottom of bucket in 25 min
FSI 60 No blow back.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1748.44	99.35	Initial Hydro-static
3	23.79	99.77	Open To Flow (1)
33	58.91	100.40	Shut-in(1)
78	1190.26	101.94	End Shut-in(1)
79	64.14	101.79	Open To Flow (2)
124	119.59	103.82	Shut-in(2)
184	1185.16	105.92	End Shut-in(2)
188	1689.03	108.28	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
6.00	100% CGO	0.08
87.00	MV 30% Mud, 70% Water	1.22
63.00	MV 10% Mud, 90% Water	0.88

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. 537

Date	Sec.	Twp.	Range	County	State	On Location	Finish
8-12-14	22	21	12	Stafford	KS		8:30 PM

Location Great Bend 115 6E NE 1/4

Lease Hammelke "M"	Well No. 8	Owner
Contractor Soutward #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. 600	Charge To Ma. Oil
Csg. 8 5/8	Depth 600	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. 25'	Shoe Joint	Cement Amount Ordered 400 6" 140 3" 16 cc 2" 6 gal
Meas Line	Displace 36 1/2 bbl	

EQUIPMENT

Pumptrk 5	No. Cementer	Helper David	Common
Bulktrk 21	No. Driver	Driver Ryan	Poz. Mix
Bulktrk pu	No. Driver	Driver Brett	Gel.
			Calcium

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling
	Mileage
	8 5/8
	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	Rubber Plug 1
	Pumptrk Charge
	Mileage

X Signature Jay Hreier

Tax	
Discount	
Total Charge	

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 283

Cell 785-324-1041

Date 8-20-14	Sec. 22	Twp. 21	Range 12	County Stafford	State KS	On Location	Finish 12:00AM
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Location **Great Bend, 115, 6E, Nn 2**

Lease Hammeke M	Well No. 8	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.
Contractor Southwind #3		
Type Job long string		
Hole Size 7 7/8	T.D. 3700	Charge To Ma. Oil
Csg. 5 1/2 14#	Depth 3694	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.	Shoe Joint 20.16	Cement Amount Ordered 160sx 60/40, 10% salt, 2% gel, 1/4#
Meas Line	Displace 89.64	Flow

EQUIPMENT

Pumptrk 17	No.	Cementer Helper Lennie W.	Common
Bulktrk 15	No.	Driver Taylor	Poz. Mix
Bulktrk PU	No.	Driver Travis	Gel.
			Calcium

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole 30sx	Salt
Mouse Hole	Flowseal
Centralizers 1-11, 15	Kol-Seal
Baskets	Mud CLR 48 1000 gal
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
Pipe on bottom broke circulation pumped	Handling
1000 gal Mud CLR 48 with 10 bbls of bitumind	Mileage
it. Plugged Rat hole. Hooked to 5 1/2 Mixed	
130 sx shut down washed pump and lines	
Retried plug and displaced with 89.6 bbl	
Plug landed and held	

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer 12 turbos
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

lift pressure 900 psi

Plug landed at 1500 psi

	Pumptrk Charge	
	Mileage	
		Tax
		Discount
		Total Charge

X Signature **[Signature]**

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 15, 2014

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

Re: ACO-1
API 15-185-23893-00-00
Hammeke "M" 8
SW/4 Sec.22-21S-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 08/12/2014 and the ACO-1 was received on December 12, 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