



KANSAS CORPORATION COMMISSION 1060316  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

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

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total 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**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Bartonek 1
Doc ID	1060316

Tops

Name	Top	Datum
Anhydrite	1024	+970
Base Anhydrite	1051	+943
Topeka	2990	-996
Heebner	3227	-1233
Toronto	3243	-1249
Lansing	3306	-1312
Base Kansas City	3520	-1516
Arbuckle	3561	-1567

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

July 28, 2011

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

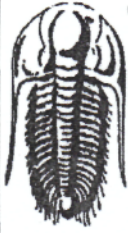
Re: ACO1  
API 15-009-25544-00-00  
Bartonek 1  
SE/4 Sec.02-18S-15W  
Barton County, Kansas

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

Mai Oil Operations  
8411 Preston Road  
Suite 800  
Dallas, TX 75225  
ATTN: Josh Austin

**Bartonek #1**  
**2-18s-15w-Barton,KS**  
Job Ticket: 42382      **DST#: 1**  
Test Start: 2011.05.06 @ 19:47:17

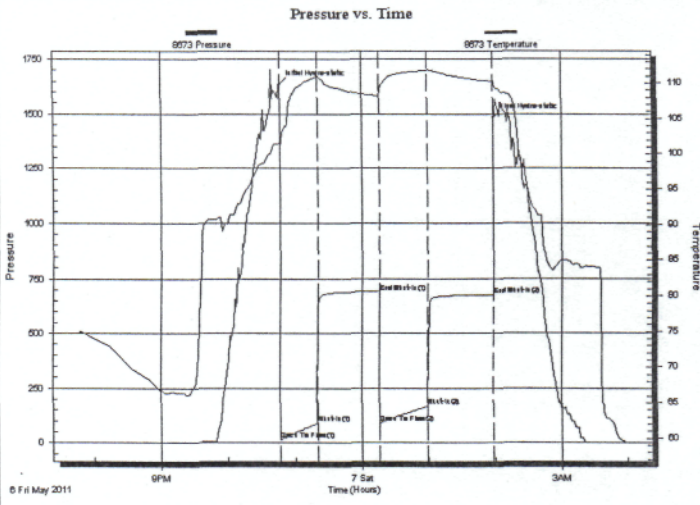
**GENERAL INFORMATION:**

Formation: **A-C**  
Deviated: **No** Whipstock:                      ft (KB)  
Time Tool Opened: 22:46:47  
Time Test Ended: 03:57:32  
Interval: **3299.00 ft (KB) To 3330.00 ft (KB) (TVD)**  
Total Depth: 3330.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Jason McLemore  
Unit No: 54  
Reference Elevations: 1994.00 ft (KB)  
1986.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8673**

**Inside**  
Press@RunDepth: 167.53 psig @ 3302.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.05.06      End Date: 2011.05.07      Last Calib.: 2011.05.07  
Start Time: 19:47:19      End Time: 03:57:32      Time On Btrnt 2011.05.06 @ 22:46:32  
Time Off Btrnt 2011.05.07 @ 01:59:02

**TEST COMMENT:** IFF-Good Blow ,BOB in 8-1/2 Min.  
ISI-Dead  
FFP-Good Blow ,BOB in 18 Min.  
FSI-Dead



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1633.53	101.68	Initial Hydro-static
1	16.50	100.87	Open To Flow (1)
34	88.72	110.91	Shut-In (1)
89	688.22	108.21	End Shut-In (1)
89	89.66	107.94	Open To Flow (2)
133	167.53	111.78	Shut-In (2)
193	674.53	110.31	End Shut-In (2)
193	1481.02	110.80	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
230.00	Muddy Water-95%W-5%M	3.23
100.00	Free Oil	1.40
0.00	90' Gas In Pipe	0.00

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Mai Oil Operations  
8411 Preston Road  
Suite 800  
Dallas, TX 75225  
ATTN: Josh Austin

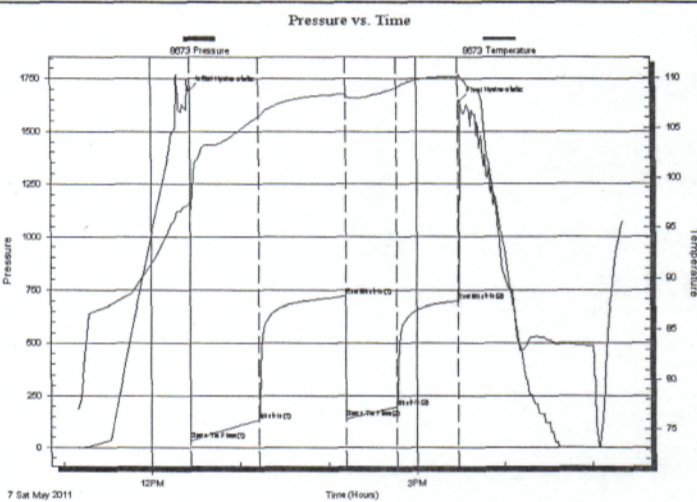
**Bartonek #1**  
**2-18s-15w-Barton,KS**  
Job Ticket: 42383      **DST#: 2**  
Test Start: 2011.05.07 @ 11:10:14

### GENERAL INFORMATION:

Formation: **E-F**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: 12:26:29  
 Time Test Ended: 17:21:44  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Jason McLemore**  
 Unit No: **54**  
 Interval: **3349.00 ft (KB) To 3379.00 ft (KB) (TVD)**  
 Total Depth: **3330.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Reference Elevations: **1994.00 ft (KB)**  
**1986.00 ft (CF)**  
 KB to GR/CF: **8.00 ft**

**Serial #: 8673**      **Inside**  
 Press@RunDepth: **194.93 psig @ 3351.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2011.05.07**      End Date: **2011.05.07**      Last Calib.: **2011.05.07**  
 Start Time: **11:10:16**      End Time: **17:21:44**      Time On Btm: **2011.05.07 @ 12:25:59**  
 Time Off Btm: **2011.05.07 @ 15:29:44**

**TEST COMMENT:** IFF-Strong, BOB in 2 Min.  
 ISI-Blow back BOB in 6 Min.  
 FFP-Good Blow, BOB in 8 Min.  
 FSI-Blow back BOB in 12 Min.



### PRESSURE SUMMARY

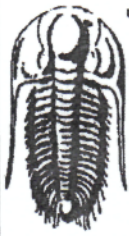
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1695.64	97.50	Initial Hydro-static
1	37.74	96.47	Open To Flow (1)
47	131.66	106.06	Shut-In(1)
106	721.53	108.34	End Shut-In(1)
106	142.62	107.98	Open To Flow (2)
141	194.93	108.98	Shut-In(2)
183	699.93	110.14	End Shut-In(2)
184	1644.33	110.30	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
120.00	Muddy Oil-80%O-20%M	1.68
330.00	Free Oil	4.63
0.00	1530' Gas In Pipe	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

Mai Oil Operations

**Bartonek #1**

8411 Preston Road  
Suite 800  
Dallas, TX 75225  
ATTN: Josh Austin

**2-18s-15w-Barton,KS**

Job Ticket: 42384

**DST#: 3**

Test Start: 2011.05.08 @ 07:25:13

**GENERAL INFORMATION:**

Formation: **HI-J**

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

Time Tool Opened: 09:03:43

Time Test Ended: 13:51:58

Test Type: **Conventional Bottom Hole**

Tester: **Jason McLemore**

Unit No: **54**

Interval: **3420.00 ft (KB) To 3490.00 ft (KB) (TVD)**

Total Depth: **3490.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **1994.00 ft (KB)**

**1986.00 ft (CF)**

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

**Serial #: 8673**

**Inside**

Press@RunDepth: **124.07 psig @ 3457.00 ft (KB)**

Start Date: **2011.05.08**

End Date:

**2011.05.08**

Start Time: **07:25:15**

End Time:

**13:51:58**

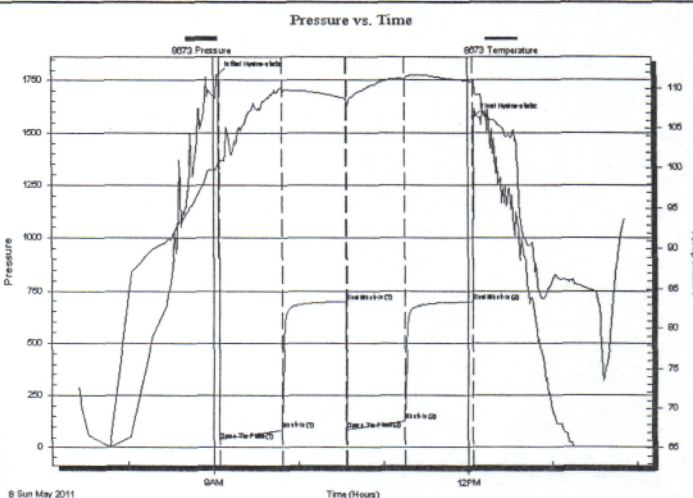
Capacity: **8000.00 psig**

Last Calib.: **2011.05.08**

Time On Btm: **2011.05.08 @ 09:03:28**

Time Off Btm: **2011.05.08 @ 12:03:58**

TEST COMMENT: IFF-Fair Blow ,BOB in 20 Mn.  
ISI-Dead  
FFP-Fair Blow ,BOB in 25 Mn.  
FSI-Dead



**PRESSURE SUMMARY**

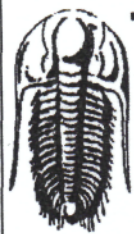
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1774.23	100.59	Initial Hydro-static
1	34.73	99.88	Open To Flow (1)
45	83.16	109.84	Shut-In(1)
91	697.36	108.74	End Shut-In(1)
91	84.61	108.22	Open To Flow (2)
132	124.07	111.20	Shut-In(2)
180	697.13	110.82	End Shut-In(2)
181	1573.98	111.08	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
180.00	Muddy Water	2.52
15.00	Free Oil	0.21

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

Mai Oil Operations  
8411 Preston Road  
Suite 800  
Dallas, TX 75225  
ATTN: Josh Austin

**Bartonek #1**  
**2-18s-15w-Barton,KS**  
Job Ticket: 42385 **DST#: 4**  
Test Start: 2011.05.09 @ 00:29:50

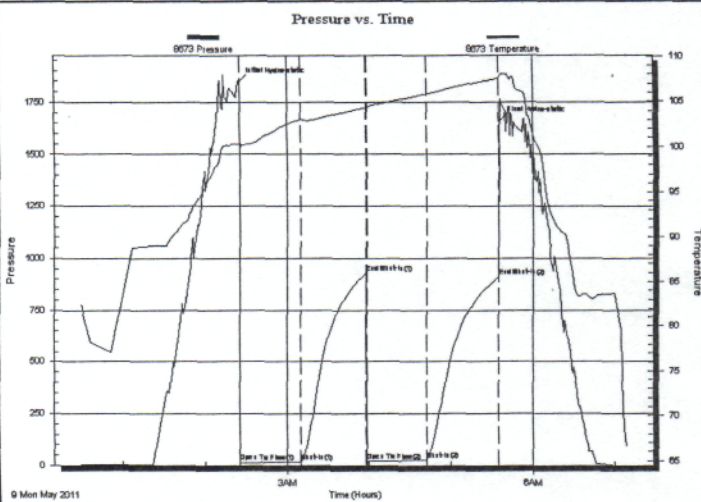
**GENERAL INFORMATION:**

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 02:25:20  
Time Test Ended: 07:09:05  
Interval: **3563.00 ft (KB) To 3572.00 ft (KB) (TVD)**  
Total Depth: 3572.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Jason McLemore  
Unit No: 54  
Reference Elevations: 1994.00 ft (KB)  
1986.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8673**

**Inside**  
Press@RunDepth: 27.21 psig @ 3566.00 ft (KB)  
Start Date: 2011.05.09 End Date: 2011.05.09 Capacity: 8000.00 psig  
Start Time: 00:29:52 End Time: 07:09:05 Last Calib.: 2011.05.09  
Time On Btm: 2011.05.09 @ 02:25:05  
Time Off Btm: 2011.05.09 @ 05:36:05

**TEST COMMENT:** IFP-Weak Blow , Built to 6"  
ISI-Dead  
FFP-Weak Blow , Built to 5"  
FSI-Dead



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1846.26	100.27	Initial Hydro-static
1	17.85	99.58	Open To Flow (1)
45	19.35	103.05	Shut-In(1)
93	928.46	104.36	End Shut-In(1)
94	20.58	104.22	Open To Flow (2)
137	27.21	105.84	Shut-In(2)
190	911.74	107.54	End Shut-In(2)
191	1658.53	107.73	Final Hydro-static

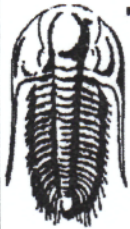
**Recovery**

Length (ft)	Description	Volume (bbl)
10.00	Muddy Oil-80%O-20%M	0.14
30.00	Free Oil	0.42

**Gas Rates**

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





**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Mai Oil Operations  
 8411 Preston Road  
 Suite 800  
 Dallas, TX 75225  
 ATTN: Josh Austin

**Bartonek #1**  
**2-18s-15w-Barton,KS**  
 Job Ticket: 42387      DST#: 5  
 Test Start: 2011.05.09 @ 12:26:13

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:48:28  
 Time Test Ended: 18:31:13  
 Interval: **3572.00 ft (KB) To 3580.00 ft (KB) (TVD)**  
 Total Depth: 3580.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Jason McLemore  
 Unit No: 54  
 Reference Elevations: 1994.00 ft (KB)  
 1986.00 ft (CF)  
 KB to GR/CF: 8.00 ft

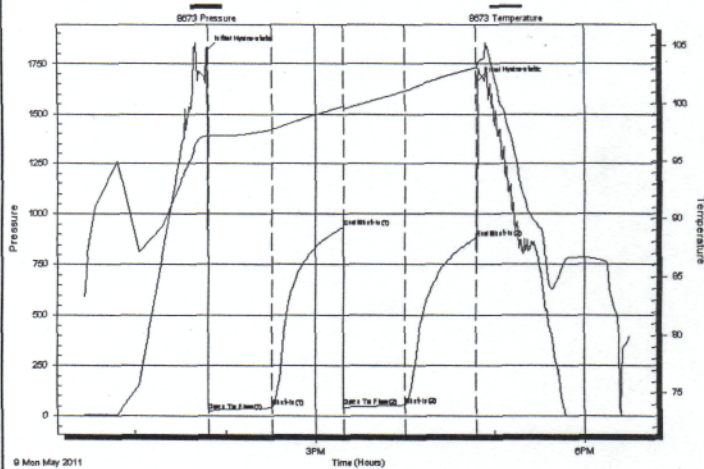
**Serial #: 8673**

**Inside**

Press@RunDepth: 56.71 psig @ 3574.00 ft (KB)  
 Start Date: 2011.05.09 End Date: 2011.05.09  
 Start Time: 12:26:15 End Time: 18:31:13  
 Capacity: 8000.00 psig  
 Last Calib.: 2011.05.09  
 Time On Btm: 2011.05.09 @ 13:48:13  
 Time Off Btm: 2011.05.09 @ 16:48:58

**TEST COMMENT:** IFP-Fair Blow , BOB in 43 Min.  
 ISI-Weak Surface Blow back for 15 Min.  
 FFP-Fair Blow , BOB in 44 Min.  
 FSI-Dead

Pressure vs. Time



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1821.59	97.36	Initial Hydro-static
1	26.19	96.56	Open To Flow (1)
43	43.13	97.78	Shut-In(1)
91	932.96	99.82	End Shut-In(1)
91	49.65	99.40	Open To Flow (2)
132	56.71	101.16	Shut-In(2)
180	881.81	103.18	End Shut-In(2)
181	1667.20	103.49	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
110.00	Mud Out Oil-75%O-25%M	0.99

**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. 4998

Date	5-3-11	Sec.	2	Twp.	18	Range	15	County	Barton	State	Ks	On Location		Finish	10:30 AM
Lease	Bartonek			Well No.	#1			Location	Olmitz, Ks - 15, 1/4 W, N/1 Into						
Contractor	Southwind #3							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	Surface							T.D.	1025'						
Hole Size	12 1/4"							Depth	1021'						
Csg.	8 5/8"							Charge To	Mai oil operations						
Tbg. Size								Street							
Tool								City	State						
Cement Left in Csg.	36.96							Shoe Joint	36.96'						
Meas Line								Displace	62 1/2 BLS						
								Cement Amount Ordered	350 sx 60/100 3% CC 2% Gel						

**EQUIPMENT**

Pumptrk	1	No.	Cementer	C. 500	Common	150
			Helper			
Bulktrk	10	No.	Driver	COY	Poz. Mix	100
			Driver			
Bulktrk	1	No.	Driver	Rick	Gel.	7
			Driver			

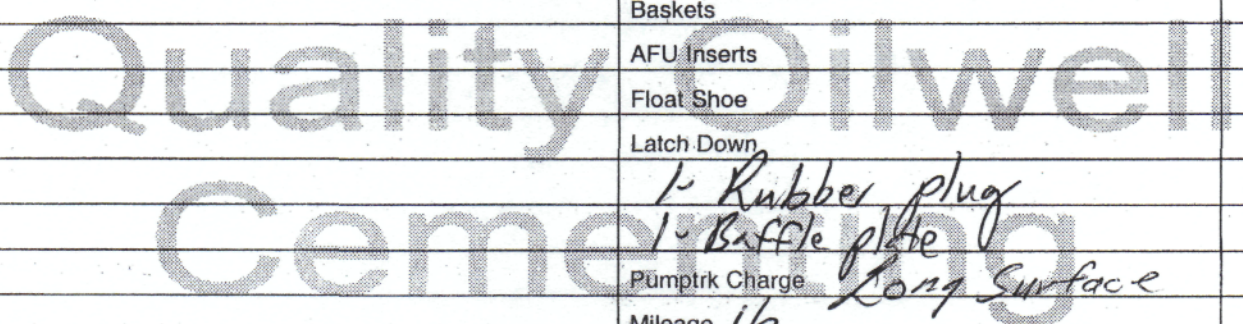
**JOB SERVICES & REMARKS**

Remarks:	Cement did Circulate.							Calcium	13						
Rat Hole								Hulls							
Mouse Hole								Salt							
Centralizers								Flowseal							
Baskets								Kol-Seal							
D/V or Port Collar								Mud CLR 48							
								CFL-117 or CD110 CAF 38							
								Sand							
								Handling	370						
								Mileage							

**FLOAT EQUIPMENT**

								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								1- Rubber plug							
								1- Baffle plate							
								Pumptrk Charge	Long Surface						
								Mileage	16						

X Signature	Kant	Tax	
		Discount	
		Total Charge	



# ALLIED CEMENTING CO., LLC. 036920

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Russell

DATE <u>5-10-11</u>	SEC <u>2</u>	TWP. <u>15</u>	RANGE <u>15</u>	CALLED OUT	ON LOCATION	JOB START <u>1:00 PM</u>	JOB FINISH <u>2:00 PM</u>
LEASE <u>Bartons</u>		WELL # <u>1</u>	LOCATION <u>Omitz 155w</u>			COUNTY <u>Barton</u>	STATE <u>Ks</u>
OLD OR NEW (Circle one)							

CONTRACTOR <u>Southwind</u>	
TYPE OF JOB	
HOLE SIZE <u>7 7/8</u>	T.D. <u>3620</u>
CASING SIZE <u>5 1/2 #14</u>	DEPTH <u>3612</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>21.7</u>	
PERFS.	
DISPLACEMENT <u>87.6 bbls</u>	
<b>EQUIPMENT</b>	
PUMP TRUCK # <u>409</u>	CEMENTER <u>Bill</u>
BULK TRUCK # <u>328</u>	HELPER <u>Tony</u>
BULK TRUCK #	DRIVER <u>Todd Tws</u>
BULK TRUCK #	DRIVER

OWNER			
<b>CEMENT</b>			
AMOUNT ORDERED			
<u>160 pk 6 1/4 2% gel 10% salt</u>			
<u>1/4 #170 Seal 100 gal WFR2</u>			
COMMON	<u>96</u>	@ <u>16.25</u>	<u>1560.00</u>
POZMIX	<u>64</u>	@ <u>8.50</u>	<u>544.00</u>
GEL	<u>3</u>	@ <u>21.25</u>	<u>63.75</u>
CHLORIDE		@	
ASC		@	
	<u>Flo Seal 40#</u>	@ <u>2.70</u>	<u>108.00</u>
	<u>Sgt 14</u>	@ <u>21.25</u>	<u>297.50</u>
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>179</u>	@ <u>2.25</u>	<u>402.75</u>
MILEAGE	<u>11.56/mile</u>		<u>393.80</u>
TOTAL			<u>3369.80</u>

**REMARKS:**

Pipe set 3612  
Shoe pt 21.70  
Insert 3590.30  
pump 1000 gal WFR2 cement w/ 130 pk  
6 1/4 pump plug w/ 87.6 bbls of water  
land plug @ 1500' float did hold  
30 pk in Rathole

<b>SERVICE</b>			
DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>2225.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>40</u>	@ <u>7.00</u>	<u>280.00</u>
MANIFOLD		@	
	<u>Lum 40</u>	@ <u>4.00</u>	<u>160.00</u>
		@	
TOTAL			<u>2665.00</u>

CHARGE TO: Mai  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

<u>10 - Turbo H2er</u>	@ <u>60.00</u>	<u>600.00</u>
<u>1 - Float shoe</u>	@	<u>245.00</u>
<u>1 - Latch down ass.</u>	@	<u>194.00</u>
	@	
	@	

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment

**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 Inc.  
Bartonek #1  
SE-SW-NW-SE (1375' FSL & 2050' FEL)  
Section 2-18s-15w  
Barton County, Kansas  
Page 1

**5 1/2" Production Casing Set**

**Contractor:** Southwind Drilling Company (Rig #3)  
**Commenced:** May 2, 2011  
**Completed:** May 10, 2011  
**Elevation:** 1994' K.B; 1992 D.F; 1986' G.L.  
**Casing program:** Surface; 8 5/8" @ 1621'  
Production; 5 1/2" @ 3619'  
**Sample:** Samples saved and examined 2900' to the Rotary Total Depth.  
**Drilling time:** One (1) foot drilling time recorded and kept 2900 ft to the Rotary Total Depth.  
**Measurements:** All depths measured from the Kelly Bushing.  
**Drill Stem Tests:** There were five (5) Drill Stem Tests ran by Trilobite Testing.  
**Electric Log:** By Superior Well Services; Dual Induction, Compensated Density/Neutron Log and Micro Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	1024	+970
Base Anhydrite	1051	+943
Topeka	2990	-996
Heebner	3227	-1233
Toronto	3243	-1249
Douglas	3257	-1263
Brown Lime	3295	-1301
Lansing	3306	-1312
Base Kansas City	3520	-1526
Arbuckle	3561	-1567
Rotary Total Depth	3620	-1626
Log Total Depth	3620	-1626

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

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

**TOPEKA SECTION**

3170-3180' Limestone; gray, cream, slightly oolitic, sub oomoldic, chalky in part, few vuggy and sub oomoldic porosity, dark brown stain, trace free oil and no odor in fresh samples.  
3180-3196' Limestone; cream, finely crystalline, fossiliferous in part, fair porosity, trace brown stain, no show of free oil and no odor in fresh samples.

3208-3220' Limestone; light gray, cream, finely crystalline, few iron pyrite inclusions.

**TORONTO SECTION**

3244-3256' Limestone; cream, finely crystalline, chalky, fossiliferous, poorly developed porosity, no shows.

**LANSING SECTION**

3306-3311' Limestone; white, cream, highly oolitic/fossiliferous, chalky, fair to good fossil cast porosity, golden brown stain, show of free oil and faint odor in fresh samples.

3320-3330' Limestone; cream, white, oomoldic, chalky, fair to good oomoldic porosity, trace brown stain, trace of free oil (90% barren).

**Drill Stem Test #1 3299-3330'**

**Times: 30-45-45-60**

**Blow: Strong**

**Recovery: 100' clean oil  
 230' muddy water**

**Pressures: ISIP 688 psi  
 FSIP 675 psi  
 IFP 17-89 psi  
 FFP 90-168 psi  
 HSH 1634-1481 psi**

3340-3350' Limestone; cream, light gray, buff, finely crystalline, poor visible porosity, few cherty.

3358-3363' Limestone; cream, tan, highly oolitic, fair porosity, brown stain and saturation, show of free oil and fair odor in fresh samples.

3371-3375' Limestone; gray, cream, finely crystalline, chalky in part, fossiliferous, fair intercrystalline and vuggy type porosity, brown and gray stain, show of free oil and faint odor in fresh samples.

**Drill Stem Test #2 3349-3379'**

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

**Blow: Strong**

**Recovery: 330' clean oil  
 120' muddy oil**

**Pressures: ISIP 722 psi  
 FSIP 7100 psi  
 IFP 38-132 psi  
 FFP 143-195 psi  
 HSH 1696-1644 psi**

- 3379-3390' Limestone; light gray, cream, slightly oomoldic, chalky, poor oomoldic, vuggy type porosity, trace brown stain, show of free oil and faint odor in fresh samples.
- 3400-3420' Limestone; tan, buff, finely crystalline, slightly cherty (dense).
- 3431-3446' Limestone; cream, finely crystalline, highly oolitic, poorly developed porosity, brown stain, trace of free oil and faint odor in fresh samples.
- 3466-3471' Limestone; cream, chalky, oomoldic, fair oomoldic porosity, black and dark brown stain, trace of free oil and faint odor in fresh samples.
- 3480-3490' Limestone; cream, gray, finely crystalline, chalky, dense, no shows.

**Drill Stem Test #3 3420-3490'**

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

**Blow: Strong**

**Recovery: 15' clean oil  
180' muddy water**

**Pressures: ISIP 697 psi  
FSIP 697 psi  
IFP 35-83 psi  
FFP 85-124 psi  
HSH 1774-1574 psi**

- 3495-3505' Limestone; cream, finely crystalline, dense, trace brown stain, no show of free oil and no odor in fresh samples.

**ARBUCKLE SECTION**

- 3561-3572' Dolomite; gray, cream, fine and medium crystalline, fair intercrystalline, porosity, dark brown stain, show of free oil and faint odor in fresh samples.

**Drill Stem Test #4 3563-3572'**

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

**Blow: Fair**

**Recovery: 30' free oil  
10' muddy water**

**Pressures: ISIP 928 psi  
FSIP 912 psi  
IFP 18-19 psi  
FFP 21-27 psi  
HSH 1846-1659 psi**

3572-3580' Dolomite; light gray, white, fine and medium crystalline, few scattered intercrystalline type porosity, dark brown and black stain, show of free oil and faint odor in fresh samples.

**Drill Stem Test #5 3572-3580'**

**Times: 45-45-45-45**  
**Blow: Strong**  
**Recovery: 110' mud cut oil  
(75% oil, 25% mud)**

**Pressures: ISIP 933 psi  
FSIP 882 psi  
IFP 26-43 psi  
FFP 50-57 psi  
HSH 1832-1667 psi**

3580-3590' Dolomite; as above, trace of free oil and faint odor.  
3590-3610' Dolomite; gray, white, medium to coarse crystalline, trace black stain, no show of free oil and no odor in fresh samples.  
3610-3620' Dolomite; white, light gray, fine and medium crystalline, poorly developed porosity, no shows.

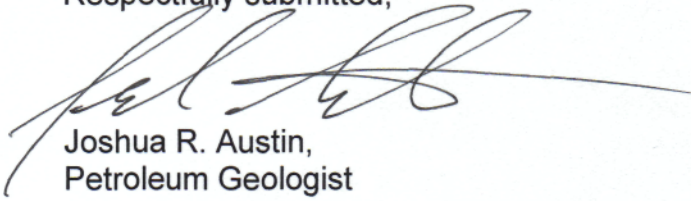
**Rotary Total Depth 3620 (-1567)**  
**Log Total Depth 3620 (-1567)**

**Recommendations:**

5 1/2" production casing was set and cemented to further test the following zones:

- 1. Arbuckle 3568-3573
- 2. Lansing 3358-3361
- 3. Lansing 3308-3311

Respectfully submitted;



Joshua R. Austin,  
Petroleum Geologist