



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1108687
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: _____



1108687

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 <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 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
<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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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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
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

January 18, 2013

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

Re: ACO1
API 15-009-25772-00-00
Morgenstern 2
NW/4 Sec.17-17S-14W
Barton County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Allen Bangert

JAMES C. MUSGROVE

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

Office (620) 588-4250

Res. Claflin (620) 587-3444

Mai Oil Operations Inc.
Morgenstern #2
1188' FNL & 1925' FWL
Section 17-17s-14w
Barton County, Kansas
Page 1

5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (Rig #3)
Commenced: November 6, 2012
Completed: November 12, 2012
Elevation: 1903' K.B; 1901' D.F; 1895' G.L.
Casing program: Surface; 8 5/8" @ 890'
Production; 5 1/2" @ 3474'
Sample: Samples saved and examined 2800' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2800 ft. to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There were four (4) Drill Stem Tests ran by Trilobite Testing Co.
Electric Log: By Nabors Completion and Production Services Co; Dual Induction, Compensated Density/Neutron Log, and Micro Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	885	+1018
Base Anhydrite	913	+990
Heebner	3074	-1171
Toronto	3088	-1185
Brown Lime	3139	-1236
Lansing	3154	-1251
Base Kansas City	3361	-1458
Conglomerate	3364	-1461
Arbuckle	3400	-1497
Rotary Total Depth	3475	-1572
Log Total Depth	3475	-1572

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

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

TOPEKA SECTION

3016-3026' Limestone; gray/white, finely crystalline, poor pinpoint porosity, trace brown stain, no free oil and no odor.

TORONTO SECTION

3088-3100' Limestone; white/gray, finely crystalline, oolitic/fossiliferous, trace brown stain, no free oil and no odor.

LANSING SECTION

- 3154-3160' Limestone; tan, buff, finely crystalline, fossiliferous, slightly chalky, trace poor stain, trace of free oil and faint odor.
- 3169-3178' Limestone; white/cream, gray, oolitic, scattered porosity, poor to fair porosity, golden brown stain, trace of free oil and faint odor in fresh samples.

Drill Stem Test #1 3143-3185'

Times: 30-45-45-60

Blow: Strong

Recovery: 2356' gas in pipe
150' muddy oil
(90% oil, 10% mud)
120' muddy oil
(5% gas, 50% oil, 45% mud)
80' oil and gas cut mud
(75% gas, 5% oil, 20% mud)

Pressures: ISIP 513 psi
FSIP 509 psi
IFP 38-80 psi
FFP 59-89 psi
HSH 1475-1449 psi

- 3203-3207'
3209-3216' Limestone; tan, oolitic, fossiliferous, scattered porosity, brown stain, weak show of free oil and no odor in fresh samples.
- 3224-3230' Limestone; cream, white, fossiliferous/oolitic, chalky, brown stain and saturation, show of free oil and odor in fresh samples.
- 3232-3245' Limestone; gray, white, oolitic, oomoldic, light brown and dark brown stain, show of free oil and questionable odor in fresh samples.

Drill Stem Test #2 3192-3245'

Times: 30-30-45-45

Blow: Strong

Recovery: 745' gas in pipe
10' oil cut mud
(3% gas, 27% oil, 70% mud)
60' slightly oil cut watery mud
(5% oil, 35% water, 60% mud)

**60' slightly oil cut muddy water
 (5% oil, 75% water)**

Pressures: ISIP 583 psi
 FSIP 557 psi
 IFP 39-64 psi
 FFP 59-90 psi
 HSH 1344-1407 psi

- 3286-3300' Limestone; tan, gray, slightly cherty, dense, plus gray boney chert.
- 3300-3310' Limestone; white, oolitic, chalky, brown and black stain, weak show of free oil and faint odor in fresh samples.
- 3320-3326' Limestone; tan, brown, finely crystalline, oolitic, chalky, sparry calcite cement, poor visible porosity, brown spotty stain, no free oil and no odor in fresh samples.
- 3240-3246' Limestone; gray, white, medium crystalline, chalky, trace gray stain, no free oil and no door in fresh samples.

CONGLOMERATE SECTION

- 3364-3400' Varied colored oolitic chert in matrix of sandy maroon to blood red shale.

ARBUCKLE SECTION

- 3400-3407' Dolomite; white, cream, medium crystalline, few coarse crystalline and vuggy type porosity, fair stain and saturation, show of free oil and good odor in fresh samples.

Drill Stem Test #3 3353-3407'

Times: 30-30-45-45
Blow: Strong
Recovery: 865' gas in pipe
 90' clean oil
 60' muddy oil
 (80% oil, 20% mud)
 60' oil cut muddy water
 (10% oil, 25% water, 65% mud)

Pressures: ISIP 1058 psi
 FSIP 1057 psi
 IFP 36-66 psi
 FFP 70-110 psi
 HSH 1625-1640 psi

3407-3415' Dolomite; as above, fair to good intercrystalline and vuggy type porosity, good light brown stain, good show of free oil and strong odor in fresh samples.

Drill Stem Test #4 **3407-3415'**

Times: 30-30-30-30

Blow: Strong

**Recovery: 1150' gas in pipe
610' clean oil
60' slightly mud cut watery oil
(70% oil, 15% water, 15% mud)**

**Pressures: ISIP 1052 psi
FSIP 1038 psi
IFP 30-145 psi
FFP 154-280 psi
HSH 1620-1610 psi**

3415-3430' Dolomite; cream, white, medium crystalline, good intercrystalline porosity, good fair stain and saturation, show of free oil and good odor in fresh samples, trace iron pyrite.

3430-3450' Dolomite; as above, gray and black stain, show of free oil and odor.

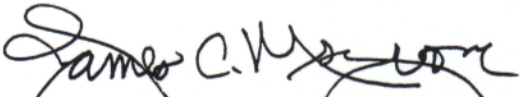
3450-3475' Dolomite; white, cream, medium and coarse crystalline, good porosity, black stain, no free oil and faint odor, trace white chert and iron pyrite.

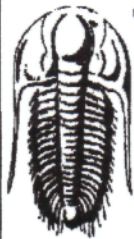
**Rotary Total Depth 3475
Log Total Depth 3475**

Recommendations:

5 1/2" production casing was set and cemented on the Morgenstern #2.

Respectfully submitted;


James C. Musgrove,
Petroleum Geologist



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations
8411 Preston RD STE 800
Dallas TX 75225
ATTN: Allen Banger/ Kurt

17-17s-14w Barton,KS
Morgestern #2
Job Ticket: 49672 **DST#: 1**
Test Start: 2012.11.10 @ 04:21:24

GENERAL INFORMATION:

Formation: **Lansing "A&B"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 07:41:39
 Tester: Chris Staats
 Time Test Ended: 12:49:24
 Unit No: 47
 Interval: **3143.00 ft (KB) To 3185.00 ft (KB) (TVD)**
 Reference Elevations: 1903.00 ft (KB)
 Total Depth: 3185.00 ft (KB) (TVD)
 1895.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

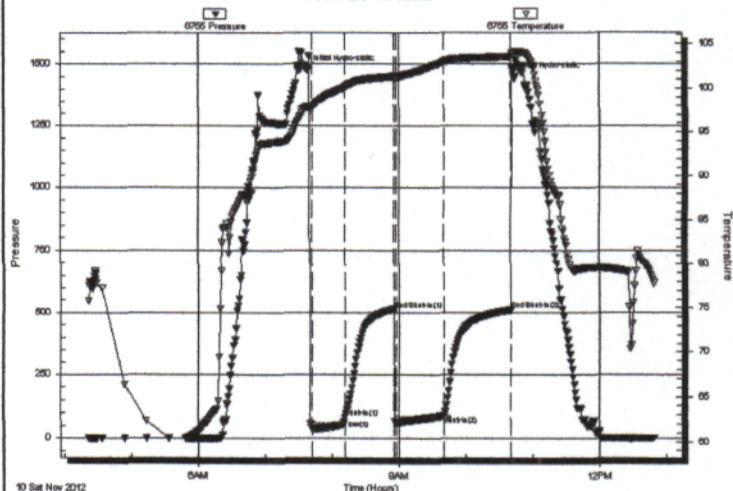
Serial #: 6755 Outside
 Press@RunDepth: 89.19 psig @ 3144.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.10 End Date: 2012.11.10 Last Calib.: 2012.11.10
 Start Time: 04:21:29 End Time: 12:49:23 Time On Btm: 2012.11.10 @ 07:37:54
 Time Off Btm: 2012.11.10 @ 10:43:24

TEST COMMENT: FS: Strong blow BOB 2 min
 IS: Weak blow back 4"
 FF: Strong blow bob 2 min
 FS: Weak blow back 1 1/2"

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1475.08	97.82	Initial Hydro-static
4	38.50	97.73	Open To Flow (1)
34	80.32	100.09	Shut-In(1)
78	513.03	101.33	End Shut-In(1)
80	59.17	101.13	Open To Flow (2)
123	89.19	102.94	Shut-In(2)
183	509.73	103.57	End Shut-In(2)
186	1449.90	104.01	Final Hydro-static

Pressure vs. Time

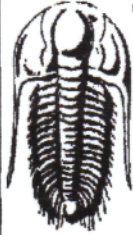


Recovery

Length (ft)	Description	Volume (bbl)
0.00	2356' GIP	0.00
80.00	O,M,G 5% oil 20% mud 75% gas	1.12
120.00	G,M,O 5% gas 45% mud 50% oil	1.68
150.00	M,O 10% mud 90% oil	2.10

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations
8411 Preston RD STE 800
Dallas TX 75225
ATTN: Allen Bangert/ Kurt

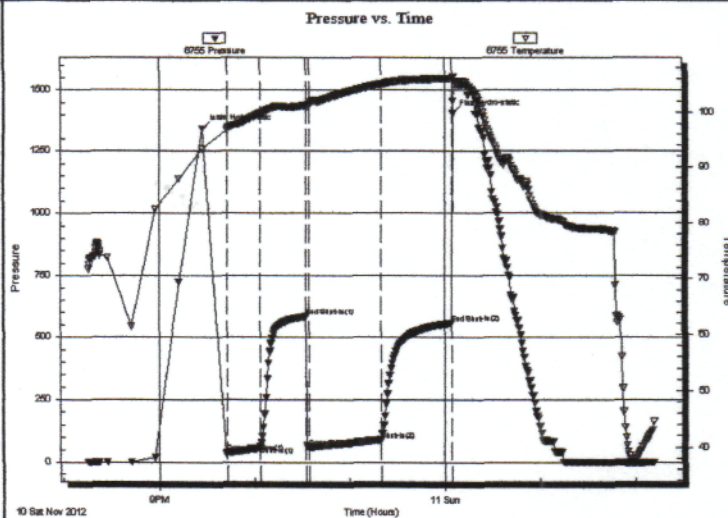
17-17s-14w Barton,KS
Morgestern #2
Job Ticket: 49673 **DST#: 2**
Test Start: 2012.11.10 @ 20:15:35

GENERAL INFORMATION:

Formation: **Lansing**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 21:43:05
Time Test Ended: 02:11:50
Test Type: **Conventional Bottom Hole (Reset)**
Tester: **Chris Staats**
Unit No: **47**
Interval: **3192.00 ft (KB) To 3245.00 ft (KB) (TVD)**
Reference Elevations: **1903.00 ft (KB)**
1895.00 ft (CF)
Total Depth: **3245.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
KB to GR/CF: **8.00 ft**

Serial #: 6755 **Outside**
Press@RunDepth: **90.84 psig @ 3193.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2012.11.10** End Date: **2012.11.11** Last Calib.: **2012.11.11**
Start Time: **20:15:40** End Time: **02:11:49** Time On Btm: **2012.11.10 @ 21:27:35**
Time Off Btm: **2012.11.11 @ 00:05:20**

TEST COMMENT: IF: Strong blow BOB 7 min
IS: No blow back
FF: Strong blow BOB 12 min
FS: Weak surface blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1344.24	93.21	Initial Hydro-static
16	39.70	97.22	Open To Flow (1)
37	64.88	99.89	Shut-In(1)
66	583.62	101.28	End Shut-In(1)
67	59.55	101.57	Open To Flow (2)
113	90.84	105.04	Shut-In(2)
157	557.64	106.03	End Shut-In(2)
158	1407.00	106.09	Final Hydro-static

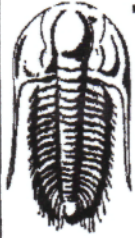
Recovery

Length (ft)	Description	Volume (bbl)
0.00	745' GIP	0.00
10.00	G, O, M 3%gas 27%oil 70% mud	0.14
60.00	O,W,M 5%oil 35%water 60% mud	0.84
60.00	O,M,W 5%oil 20%mud 75%water	0.84

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations
 8411 Preston RD STE 800
 Dallas TX 75225
 ATTN: Allen Bangert/ Kurt

17-17s-14w Barton,KS
Morgestern #2
 Job Ticket: 49674 **DST#: 3**
 Test Start: 2012.11.11 @ 18:39:13

GENERAL INFORMATION:

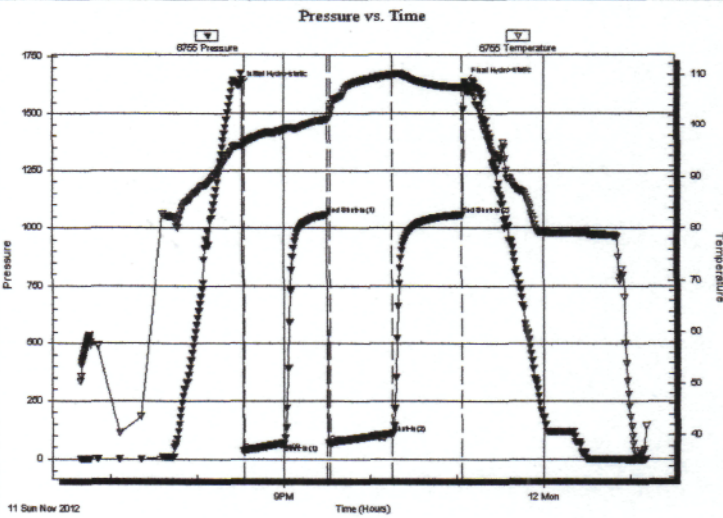
Formation: **Conglomerate**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:32:13
 Time Test Ended: 01:10:43
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chris Staats
 Unit No: 47
 Interval: **3353.00 ft (KB) To 3407.00 ft (KB) (TVD)**
 Total Depth: 3407.00 ft (KB) (TVD)
 Reference Elevations: 1903.00 ft (KB)
 1895.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 6755

Outside

Press@RunDepth: 110.60 psig @ 3354.00 ft (KB)
 Start Date: 2012.11.11 End Date: 2012.11.12
 Start Time: 18:39:18 End Time: 01:10:42
 Capacity: 8000.00 psig
 Last Calib.: 2012.11.12
 Time On Btm: 2012.11.11 @ 20:29:43
 Time Off Btm: 2012.11.11 @ 23:05:13

TEST COMMENT: IF: Strong blow BOB 20 min
 IS: No blow back
 FF: Strong blow BOB 17 min
 FS: Weak surface blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1625.16	95.94	Initial Hydro-static
3	36.06	96.50	Open To Flow (1)
31	66.69	99.08	Shut-In(1)
61	1058.06	101.30	End Shut-In(1)
62	70.50	101.89	Open To Flow (2)
105	110.60	109.87	Shut-In(2)
154	1057.80	107.42	End Shut-In(2)
156	1640.04	107.07	Final Hydro-static

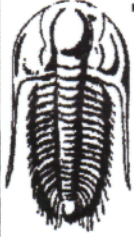
Recovery

Length (ft)	Description	Volume (bbl)
0.00	865 GIP	0.00
90.00	Clean Oil	1.26
60.00	O,M 20%mud 80%oil	0.84
60.00	O,W,M 10%oil 25%water 65%mud	0.84

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations
8411 Preston RD STE 800
Dallas TX 75225
ATTN: Allen Bangert/ Kurt

17-17s-14w Barton,KS
Morgestern #2
Job Ticket: 49675 **DST#: 4**
Test Start: 2012.11.12 @ 06:15:40

GENERAL INFORMATION:

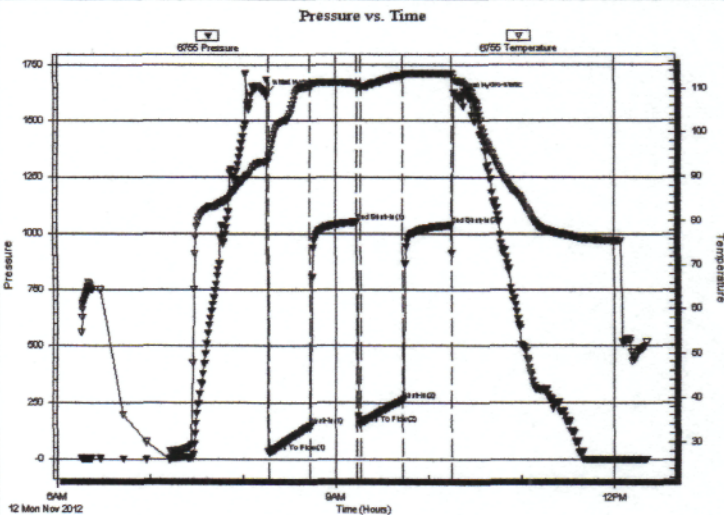
Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:16:55
Time Test Ended: 12:21:10
Test Type: Conventional Bottom Hole (Reset)
Tester: Chris Staats
Unit No: 47
Interval: **3407.00 ft (KB) To 3415.00 ft (KB) (TVD)**
Reference Elevations: 1903.00 ft (KB)
Total Depth: 3415.00 ft (KB) (TVD) 1895.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6755

Outside

Press@RunDepth: 260.87 psig @ 3408.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.11.12 End Date: 2012.11.12 Last Calib.: 2012.11.12
Start Time: 06:15:45 End Time: 12:21:09 Time On Btm: 2012.11.12 @ 08:14:40
Time Off Btm: 2012.11.12 @ 10:17:25

TEST COMMENT: IF: Strong blow BOB 4 min
IS: Fair blow back 7"
FF: Strong blow BOB 1 min
FS: Weak blow back 3"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1620.58	93.22	Initial Hydro-static
3	30.69	94.25	Open To Flow (1)
29	145.49	110.43	Shut-In(1)
60	1052.31	110.87	End Shut-In(1)
62	154.97	110.22	Open To Flow (2)
89	260.87	112.82	Shut-In(2)
121	1038.05	113.24	End Shut-In(2)
123	1610.60	111.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1150' GIP	0.00
610.00	Clean oil	8.56
60.00	M,W,O 15% mud 15% water 70% oil	0.84

* 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. 8090

Date	11-7-12	Sec.	17	Twp.	17	Range	14	County	Barton	State	KS	On Location		Finish	11.4.12
Lease								Location		1 3 N 2 W S 10					
Well No.		2		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		Smithard 3		Type Job		Surface		Hole Size		12 1/4		T.D.		590	
Csg.		850		Depth		594		Street		Mar Oil					
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 ft		Shoe Joint		25 ft		Cement Amount Ordered 350 690 3900 1/2 1							
Meas Line		Displace		55.33 BBL											
EQUIPMENT															
Pumptrk		No. 5		Cementer		Helper		Common							
Bulktrk		No. 4		Driver		Driver		Poz. Mix							
Bulktrk		No. 3		Driver		Driver		Gel.							
				Driver		Driver		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							
FLOAT EQUIPMENT															
Cement did Circulate								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Mileage							
								Tax							
								Discount							
X Signature								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. 6251

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-13-12	17	17	14	BARTON	KANSAS		8:00 AM
Lease <u>MORGENSTERN</u>				Well No. <u>#2</u>		Owner <u>MAI OIL</u>	
Contractor <u>S.W.D #3</u>				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job <u>PROD-STRING</u>				Charge To <u>MAI OIL</u>			
Hole Size <u>7 7/8"</u>		T.D. <u>3,475'</u>		Street <u>8411 PRESTON RD.</u>			
Csg. <u>5 1/2" - 14LB-NEW</u>		Depth <u>3,467'</u>		City <u>DALLAS</u> State <u>TX, 75225</u>			
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Tool		Depth		Cement Amount Ordered <u>1160 @ 40' 2% GEL 10% SALT 1/4 FLO</u>			
Cement Left in Csg.		Shoe Joint <u>18'</u>					
Meas Line		Displace <u>84 BBLs.</u>					
EQUIPMENT				Common <u>96</u>			
Pumptrk #15	No.	Cementer Helper <u>NICK</u>		Poz. Mix <u>64</u>			
Bulktrk #10	No.	Driver <u>DOUG</u>		Gel. <u>3</u>			
Bulktrk <u>QU</u>	No.	Driver <u>CISCO</u>		Calcium			
JOB SERVICES & REMARKS				Hulls			
Remarks:				Salt <u>14</u>			
Rat Hole <u>30 SKS</u>				Flowseal <u>40#</u>			
Mouse Hole <u>NONE</u>				Kol-Seal			
Centralizers <u>1,2,3,4,5,6,7,8,9,11</u>				Mud CLR 48 <u>1000 GAL.</u>			
Baskets				CFL-117 or CD110 CAF 38			
D/V or Port Collar				Sand			
<u>DROPPED BALL BROKE CIRCULATION</u>				Handling <u>177</u>			
<u>CIRCULATED ON BOTTOM 1 hr. -</u>				Mileage			
<u>PUMPED 1,000 GAL. OF MUD CLR 48 -</u>				FLOAT EQUIPMENT			
<u>PLUGGED RATHOLE WITH 30 SKS -</u>				Guide Shoe			
<u>MIXED & PUMPED 130 SKS DOWN</u>				Centralizer <u>10-5 1/2" TURBOS</u>			
<u>5 1/2" - DISCONNECTED DROPPED</u>				Baskets			
<u>PLUG & WASHED PUMP - MADE</u>				AFU Inserts			
<u>CONNECTION & DISPLACED -</u>				Float Shoe <u>1-5 1/2"</u>			
<u>PLUG LANDED & HELD ↓</u>				Latch Down <u>1-5 1/2" w/PLUG</u>			
<u>LIFT PRESSURE @ 1,000 LBS</u>							
<u>PLUG LANDED @ 84 1/2 BBLs 1,400 LBS.</u>				Pumptrk Charge <u>prod Long String</u>			
<u>THANK YOU!</u>				Mileage <u>21</u>			
Signature <u>[Signature]</u>				Tax			
				Discount			
				Total Charge			