



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1095180
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: _____

1095180

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____					
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> _____	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

September 28, 2012

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

Re: ACO1
API 15-009-25722-00-00
Morgenstern 1
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 #1
NWNE-SE-NW (1580' FNL & 2260' FWL)
Section 17-17s-14w
Barton County, Kansas
Page 1

5 1/2" Production Casing

Contractor: Southwind Drilling Co. (Rig #3)
Commenced: July 31, 2012
Completed: August 8, 2012
Elevation: 1905' K.B; 1903' D.F; 1897' G.L.
Casing program: Surface; 8 5/8" @ 885'
Production; 5 1/2" @ 3485"
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.
Formation Tests: There were six (6) Drill Stem Tests ran by Trilobite Testing Co.
Electric Log: By Superior Well Services; Dual Induction, Compensated Density/Neutron, Micro and Sonic.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	887	+1018
Base Anhydrite	915	+990
Topeka	2842	-937
Heebner	3075	-1170
Toronto	3088	-1183
Douglas	3102	-1197
Brown Lime	3140	-1235
Lansing	3155	-1250
Base Kansas City	3359	-1454
Conglomerate	3364	-1459
Arbuckle	3388	-1483
Rotary Total Depth	3485	-1580
Log Total Depth	3486	-1581

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

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

TOPEKA SECTION

3020-3030' Limestone; gray, white, finely crystalline, slightly fossiliferous, poor visible porosity, poor brown stain, no free oil and no odor in fresh samples.
3030-3060' Limestone; as above, chalky.

TORONTO SECTION

3088-3100' Limestone; white, gray, finely crystalline, few fossiliferous, light brown and golden brown spotty stains, no free oil and no odor. Plus tan, slightly cherty, dense, limestone.

LANSING SECTION

3155-3160' Limestone; gray and white, finely crystalline, few fossiliferous, chalky, trace brown stain, no free oil and questionable odor in fresh samples.

3164-3180' Limestone; cream/tan, oomoldic, good oomoldic porosity, trace stain, weak show of free oil and no odor in fresh samples.

Drill Stem Test #1 3143-380'

Times: 30-30-30-30

Blow: Weak

Recovery: 10' mud, oil scum

Pressures: ISIP 126 psi
 FSIP 85 psi
 IFP 36-38 psi
 FFP 37-40 psi
 HSH 1573-1513 psi

3180-3200' Limestone; cream, white, finely crystalline, slightly cherty, few chalky, no shows.

3210-3218' Limestone; cream, tan, oolitic, scattered porosity, trace stain, trace of free oil and faint odor.

3232-3240' Limestone; tan, oomoldic, good oomoldic porosity, trace poor stain, trace free oil (poor), and no odor in fresh samples.

Drill Stem Test #2 3193-3240'

Times: 30-30-30-30

Blow: Strong

**Recovery: 186' gas in pipe
 30' oil cut watery mud
 (20% oil, 5% water, 75% mud)**

Pressures: ISIP 191 psi
 FSIP 184 psi
 IFP 29-35 psi
 FFP 33-41 psi
 HSH 1612-1574 psi

3281-3290' Limestone; gray, white, oolitic, chalky, increasingly cherty, poor visible porosity, no shows.

- 3300-3310' Limestone; tan, gray, cream, oolitic/fossiliferous, poor visible porosity, trace brown stain, show of free oil and faint odor in fresh samples.
- 3316-3326' Limestone; white, gray, fossiliferous, oomoldic, fair porosity, brown and black stain, show of free oil and questionable odor.
- 3337-3342' Limestone; as above, black stain, no free oil and no gas.

Drill Stem Test #3 3294-3360'

Times: 30-30-30-30
Blow: Weak
Recovery: 10' mud, oil spots
Pressures: ISIP 61 psi
 FSIP 52 psi
 IFP 30-35 psi
 FFP 32-40 psi
 HSH 1685-1590 psi

CONGLOMERATE SECTION

- 3364-3387' Varied colored oolitic/fossiliferous, chert in varied colored sandy shale.

ARBUCKLE SECTION

- 3388-3398' Dolomite; tan, white, medium crystalline, fair intercrystalline porosity, fair brown stains, saturation, fair good show of free oil and strong odor.

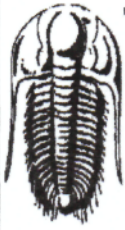
Drill Stem Test #4 3351-3398'

Misrun – hydraulic tool malfunction

Drill Stem Test #5 3351-3398'

Times: 30-30-45-45
Blow: Strong
Recovery: 124' slightly oil and gas cut mud (20% gas, 10% oil, 70% mud)
 341' gassy oil
Pressures: ISIP 966 psi
 FSIP 985 psi
 IFP 59-112 psi
 FFP 127-201 psi
 HSH 1679-1655 psi

- 3398-3410' Dolomite; as above, few pieces sandy, fair to good intercrystalline porosity, fair stain and saturation, fair show of free oil and good odor in fresh samples.



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

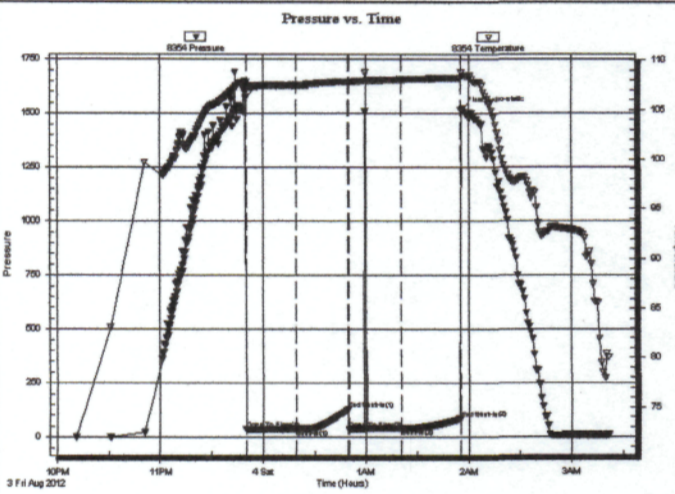
17-17s14w Barton KS
Morgenstern #1
 Job Ticket: 47772 DST#: 1
 Test Start: 2012.08.03 @ 22:01:00

GENERAL INFORMATION:

Formation: **A-B**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:50:00
 Time Test Ended: 03:22:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Cody Bloedorn
 Unit No: 38
 Interval: **3143.00 ft (KB) To 3180.00 ft (KB) (TVD)**
 Total Depth: 3180.00 ft (KB) (TVD)
 Reference Elevations: 1897.00 ft (KB)
 1892.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 8354 Inside
 Press@RunDepth: 40.05 psig @ 3144.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.03 End Date: 2012.08.04 Last Calib.: 2012.08.04
 Start Time: 22:11:00 End Time: 03:22:00 Time On Btm: 2012.08.03 @ 23:49:50
 Time Off Btm: 2012.08.04 @ 01:55:30

TEST COMMENT: 30 - IF- 1/4" blow , died in 12 Min
 30 - IS- No blow back
 30 - FF- No blow for 10 Min, flushed tool, surged and died.
 30 - FS- No blow back.



PRESSURE SUMMARY

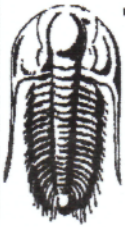
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1573.29	107.84	Initial Hydro-static
1	36.60	106.88	Open To Flow (1)
30	38.13	107.52	Shut-In(1)
60	126.60	107.87	End Shut-In(1)
61	37.76	107.86	Open To Flow (2)
91	40.05	108.07	Shut-In(2)
126	85.07	108.25	End Shut-In(2)
126	1513.63	108.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud - Oil scum, 100%M	0.14

Gas Rates

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



**TRIBOLITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

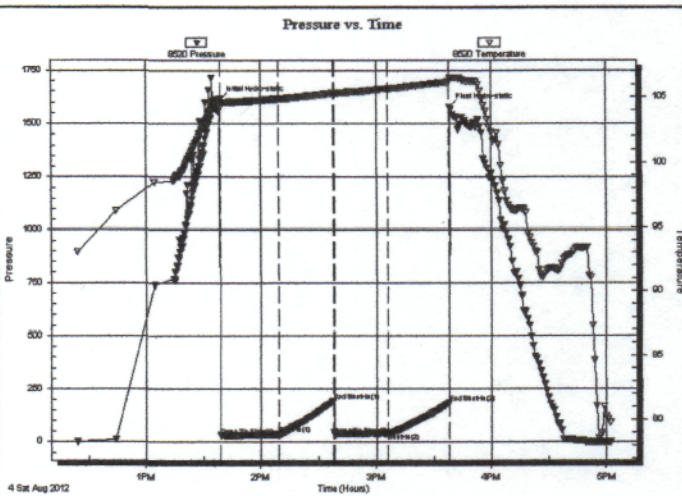
17-17s14w Barton KS
Morgenstern #1
Job Ticket: 47773 DST#: 2
Test Start: 2012.08.04 @ 12:24:00

GENERAL INFORMATION:

Formation: **E,F,G**
Deviated: **No** Whipstock: ft (KB) Test Type: **Conventional Bottom Hole (Reset)**
Time Tool Opened: **13:38:53** Tester: **Cody Bloedorn**
Time Test Ended: **17:02:23** Unit No: **38**
Interval: 3193.00 ft (KB) To 3240.00 ft (KB) (TVD) Reference Elevations: 1897.00 ft (KB)
Total Depth: **3240.00 ft (KB) (TVD)** 1892.00 ft (CF)
Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: 5.00 ft

Serial #: 8520 **Outside**
Press@RunDepth: 41.28 psig @ 3228.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.08.04 End Date: 2012.08.04 Last Calib.: 2012.08.04
Start Time: 12:24:23 End Time: 17:02:23 Time On Btm: 2012.08.04 @ 13:38:43
Time Off Btm: 2012.08.04 @ 15:38:23

TEST COMMENT: 30 - IF- B.O.B. in 19 Min.
30 - IS- No blow back
45 - FF- B.O.B. in 12 Min.
45 - FS- No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1612.92	104.86	Initial Hydro-static
1	29.91	104.15	Open To Flow (1)
31	35.60	104.85	Shut-In(1)
59	191.16	105.27	End Shut-In(1)
60	33.99	105.27	Open To Flow (2)
88	41.28	105.62	Shut-In(2)
120	184.56	106.17	End Shut-In(2)
120	1574.85	106.46	Final Hydro-static

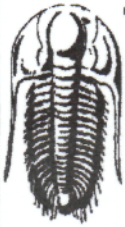
Recovery

Length (ft)	Description	Volume (bbl)
31.00	OCWM, 5%W, 20%O, 75%M	0.43
0.00	186' of G.I.P.	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 Operations, Inc.
8411 Preston Rd Ste 800
Dallas TX, 75225
ATTN: Jim Musgrove

17-17s14w Barton KS
Morgenstern #1
Job Ticket: 47774 **DST#: 3**
Test Start: 2012.08.05 @ 05:10:00

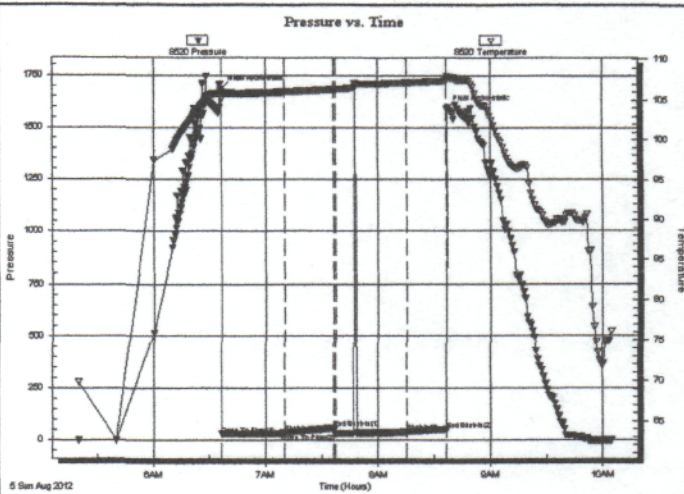
GENERAL INFORMATION:

Formation:
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 06:36:30 Tester: Cody Bloedorn
Time Test Ended: 10:04:30 Unit No: 38

Interval: **3294.00 ft (KB) To 3360.00 ft (KB) (TVD)** Reference Elevations: 1897.00 ft (KB)
Total Depth: 3360.00 ft (KB) (TVD) 1892.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8520 Outside
Press@RunDepth: 40.57 psig @ 3329.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.08.05 End Date: 2012.08.05 Last Calib.: 2012.08.05
Start Time: 05:20:00 End Time: 10:04:30 Time On Btm: 2012.08.05 @ 06:36:20
Time Off Btm: 2012.08.05 @ 08:37:00

TEST COMMENT: 30 - IF- 1/2" Blow
30 - IS- No blow back
30 - FF- No blow for 10 Min. Flushed tool. Surged & died
30 - FS- No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1685.20	105.96	Initial Hydro-static
1	30.52	105.11	Open To Flow (1)
34	35.78	105.98	Shut-In(1)
60	61.19	106.31	End Shut-In(1)
61	32.59	106.33	Open To Flow (2)
100	40.57	107.13	Shut-In(2)
121	52.96	107.38	End Shut-In(2)
121	1590.31	107.92	Final Hydro-static

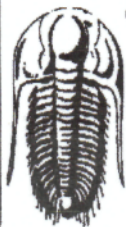
Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud - Oil scum, 100%M	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 Operations, Inc.
 8411 Preston Rd Ste 800
 Dallas TX, 75225
 ATTN: Jim Musgrove

17-17s14w Barton KS
Morgenstern #1
 Job Ticket: 47975 **DST#: 5**
 Test Start: 2012.08.05 @ 21:10:00

GENERAL INFORMATION:

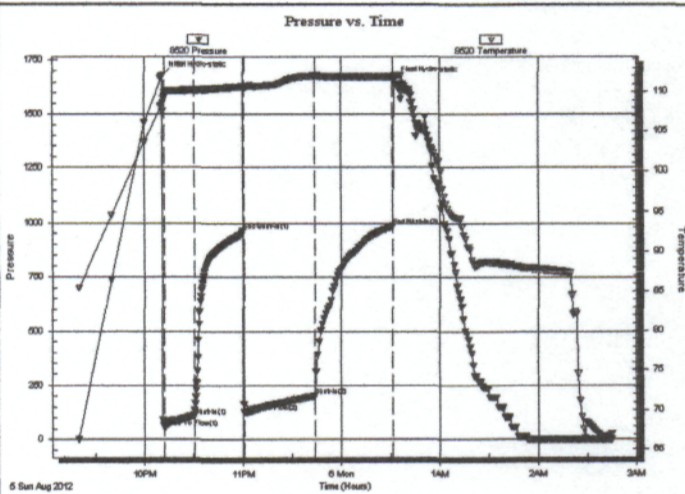
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:12:00
 Time Test Ended: 02:44:30
 Interval: **3351.00 ft (KB) To 3398.00 ft (KB) (TVD)**
 Total Depth: 3398.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cody Bloedorn
 Unit No: 38
 Reference Elevations: 1897.00 ft (KB)
 1892.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8520

Outside

Press@RunDepth: 201.06 psig @ 3386.00 ft (KB)
 Start Date: 2012.08.05 End Date: 2012.08.06
 Start Time: 21:20:00 End Time: 02:44:30
 Capacity: 8000.00 psig
 Last Calib.: 2012.08.06
 Time On Btm: 2012.08.05 @ 22:11:00
 Time Off Btm: 2012.08.06 @ 00:32:30

TEST COMMENT: 30 - IF- B.O.B. in 4 Min.
 30 - IS- Surface blow, Died in 13 Min.
 45 - FF- B.O.B. in 6 Min.
 45 - FS- Surface blow, died in 27 Min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1679.36	108.35	Initial Hydro-static
1	59.26	109.33	Open To Flow (1)
20	112.55	110.27	Shut-in(1)
50	966.12	110.67	End Shut-in(1)
50	127.78	110.51	Open To Flow (2)
93	201.06	111.97	Shut-in(2)
141	985.50	111.84	End Shut-in(2)
142	1655.61	112.04	Final Hydro-static

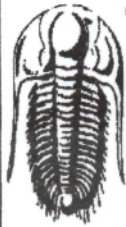
Recovery

Length (ft)	Description	Volume (bbl)
124.00	GSOCM, 10%O, 20%G, 70%M	1.74
341.00	GO, 5%G, 95%O	4.78
0.00	186' of G.I.P.	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 Operations, Inc.
8411 Preston Rd Ste 800
Dallas TX, 75225
ATTN: Jim Musgrove

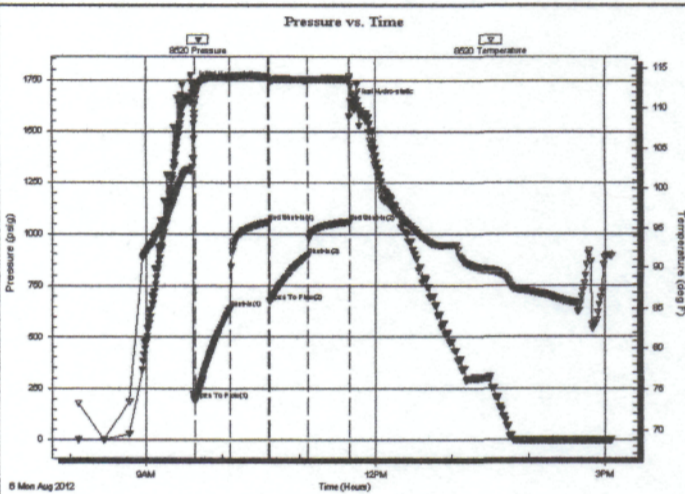
17-17s14w Barton KS
Morgenstern #1
Job Ticket: 49451 DST#: 6
Test Start: 2012.08.06 @ 07:57:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:38:00
Time Test Ended: 15:05:00
Interval: **3398.00 ft (KB) To 3410.00 ft (KB) (TVD)**
Total Depth: 3410.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Bloedorn
Unit No: 38
Reference Elevations: 1897.00 ft (KB)
1892.00 ft (CF)
KB to GRVCF: 5.00 ft

Serial #: 8520 Outside
Press@RunDepth: 891.95 psig @ 3399.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.08.06 End Date: 2012.08.06 Last Calib.: 2012.08.06
Start Time: 08:07:00 End Time: 15:05:00 Time On Btm: 2012.08.06 @ 09:36:50
Time Off Btm: 2012.08.06 @ 11:40:30

TEST COMMENT: 30 - IF- B.O.B. in 30 Seconds.
30 - IS- 3" blow back.
30 - FF- B.O.B. in 45 Seconds
30 - FS- 2" blow back.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1724.94	102.64	Initial Hydro-static
2	192.19	108.74	Open To Flow (1)
30	641.54	113.75	Shut-In(1)
60	1057.44	113.83	End Shut-In(1)
60	674.28	113.59	Open To Flow (2)
90	891.95	113.52	Shut-In(2)
123	1060.18	113.63	End Shut-In(2)
124	1644.47	112.71	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
62.00	GHOCM, 10%G, 30%O, 60%M	0.87
558.00	GO, 30%G, 70%O	7.83
1860.00	GO, 15%G, 85%O	26.09
0.00	310' of G.I.P.	0.00

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

* Recovery from multiple tests

work (B) by QUALITY, unless the preparation or the control of the CUSTOMER of the CUSTOMER.

Total Charge
Mileage
Fuel Charge
Lump Sum Fee

THANK YOU!

Quality Cementing

Quality Cementing

Remarks:	at Hole	Flowseal	Kof-Seal	Mud CLR 48	CFL-117 or CD110 CAF 38	Sand	Handling	Mileage	Guide Shoe	Centralizer	Baskets	APL Inserts	Floor Shoe	Latch Down
Equipment	Common	Pos. Mix	Driver	Driver	Driver	Driver	Driver	Driver	Driver	Driver	Driver	Driver	Driver	Driver
Remarks:	at Hole	Flowseal	Kof-Seal	Mud CLR 48	CFL-117 or CD110 CAF 38	Sand	Handling	Mileage	Guide Shoe	Centralizer	Baskets	APL Inserts	Floor Shoe	Latch Down
Equipment	Common	Pos. Mix	Driver	Driver	Driver	Driver	Driver	Driver	Driver	Driver	Driver	Driver	Driver	Driver
Remarks:	at Hole	Flowseal	Kof-Seal	Mud CLR 48	CFL-117 or CD110 CAF 38	Sand	Handling	Mileage	Guide Shoe	Centralizer	Baskets	APL Inserts	Floor Shoe	Latch Down
Equipment	Common	Pos. Mix	Driver	Driver	Driver	Driver	Driver	Driver	Driver	Driver	Driver	Driver	Driver	Driver

Home Office P.O. Box 32 Russell, KS 67665 No. 815

Federal Tax ID # 20-2088107

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. 932

Date	8-7-12	Sec.	17	Twp.	17	Range	14	County	Barton	State	Ks	On Location		Finish	6:00 PM	
Lease	Morgenstern	Well No.	#1	Location		281 + 4 Hwy Sct, 3N to 150 Rd,										
Contractor	Southwind #3				Owner		2 1/2 W, S into									
Type Job	Long string				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.											
Hole Size	7 7/8"		T.D.		3485'											
Csg.	5 1/2" 14# New		Depth		3469.05'											
Tbg. Size			Depth		Charge To											
Tool			Depth		Map oil operations											
Cement Left in Csg.	19.52'		Shoe Joint		19.52'											
Meas Line			Displace		84 BLS											
EQUIPMENT												1/4 flow 1000 gal mud clear 48				
Pumptrk	16	No.	Cementer Helper		Travis		Common									96
Bulktrk	14	No.	Driver		Lonnie		Poz. Mix									64
Bulktrk	p.u.	No.	Driver		Rick		Gel.									3
JOB SERVICES & REMARKS												Calcium				
Remarks:	Hulls															
Rat Hole	Salt 14															
Mouse Hole	Flowseal 40#															
Centralizers	1, 2, 3, 4, 5, 6, 7, 8, 10, 11															
Baskets	Mud CLR 48 1000 gal															
D/V or Port Collar	pipe on bottom, break															
Circulation	pump 1000 gal mud															
Clear	48, shut down plug Roathole															
w/ 30 sx	hook to 5 1/2" casing +															
mix	150 sx cement, shut down															
wash pump + lines	Released plug															
* Displaced	w/ 84 BLS of water															
Released	+ Float held															
Left pressure 600 #												AFU inserts				
Land plug to 1500 #												Float Shoe				
												Latch Down				
												Pumptrk Charge				
												Mileage				
												18 prod Long String				
Signature: <i>Andy Huer</i>												Tax				
												Discount				
												Total Charge				