



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1127158
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: _____



1127158

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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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Kramer 'A' 5
Doc ID	1127158

Tops

Name	Top	Datum
Anhydrite	902	+1018
Tarkio Lime	2543	-623
Topeka	2803	-883
Heebner	3040	-1120
Toronto	3054	-1134
Lansing	3102	-1182
Base Kansas City	3311	-1391
Arbuckle	3356	-1436

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

March 25, 2013

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

Re: ACO1
API 15-167-23852-00-00
Kramer 'A' 5
SW/4 Sec.14-15S-14W
Russell 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
Clafin, KS 67525

Office (620) 588-4250

Res. Clafin (620) 587-3444

Mai Oil Operations Inc.
Kramer 'A' #5
W/2-SE-NE-SW (1650' FSL & 2175' FWL)
Section 14-15s-14w
Russell County, Kansas
Page 1

5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (Rig #3)
Commenced: January 26, 2013
Completed: February 2, 2013
Elevation: 1920' K.B; 1918' D.F; 1912' G.L.
Casing program: Surface; 8 5/8" @ 515'
Production; 5 1/2" @ 3428'
Sample: Samples saved and examined 2200' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2200 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 Co.
Electric Log: By Nabors Completion & 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	902	+1018
Base Anhydrite	938	+982
Grand Haven	2471	-551
1 st Tarkio Sand	2481	-561
Dover	2495	-575
2 nd Tarkio Sand	2500	-580
Tarkio Lime	2543	-623
3 rd Tarkio Sand	2577	-657
Elmont	2605	-685
Howard	2743	-823
Topeka	2803	-883
Heebner	3040	-1120
Toronto	3054	-1134
Lansing	3102	-1182
Base Kansas City	3311	-1391
Arbuckle	3356	-1436
Rotary Total Depth	3427	-1507
Log Total Depth	3429	-1509

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

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

1ST TARKIO SAND SECTION

2481-2489' Sand; gray and black, very fine grained, silty, few sub angular, no shows.

2ND TARKIO SAND SECTION

2501-2520' Sand; light gray, very fine grained, sub angular, sub rounded, friable, brown stain, show of free oil and faint odor.

Drill Stem Test #1 **2482-2550' (log measurements 2485-2552)**

Times: 30-30-45-45

Blow: Fair (4 inches) increase to 7 ¼ on 2nd opening

Recovery: 137' gas in pipe
20' slightly oil cut mud
(5% oil, 95% mud)
60' heavy oil and gas cut mud
(15% gas, 30% oil, 55% mud)
60' slightly oil and gas cut muddy water
(5% gas, 5% oil, 50% water, 40% mud)

Pressures: ISIP 611 psi
FSIP 639 psi
IFP 62-69 psi
FFP 115-97 psi
HSH 1226-1178 psi

TOPEKA SECTION

2960-2977' Limestone; white, cream, finely crystalline, scattered vuggy porosity, trace stain, show of free oil and strong odor in fresh samples.

2988-3008' Limestone; cream, tan, finely crystalline, scattered porosity, light brown stain, show of free oil and strong odor in fresh samples.

3020-3030' Limestone; cream, tan, finely crystalline, chalky, few fossiliferous, poor porosity, trace brown stain, no free oil and faint odor in fresh samples.

Drill Stem Test #2 **2960-3035'** (log measurements 2962-3037)

Times: 30-30-45-45
Blow: Weak
Recovery: 40' mud, scum of oil

Pressures: ISIP 775 psi
FSIP 763 psi
IFP 36-44 psi
FFP 46-54 psi
HSH 1541-1478 psi

TORONTO SECTION

3056-3070' Limestone; tan, cream, finely crystalline, poor visible porosity, light brown stain, no free oil and faint odor.

LANSING SECTION

3103-3110' Limestone; tan, finely crystalline, chalky, poor visible porosity, light brown stain, no free oil and faint odor.

3120-3125' Limestone; tan, brown, scattered pinpoint porosity, light brown stain, show of free oil.

3130-3143' Limestone; cream, tan, chalky, few sub oomoldic, few with pinpoint porosity, trace stain, show of free oil and strong odor in fresh samples.

Drill Stem Test #3 **3104-3165'** (log measurements 3106-3167)

Times: 30-30-45-45
Blow: Strong; gas to surface 5 minutes into ffp, TSTM

Recovery: 453' gassy oil
378' heavy oil and gas cut watery mud
(20% gas, 45% oil, 10% water, 25% mud)
63' oil and gas cut watery mud
(10% gas, 10% oil, 10% water, 70% mud)

Pressures: ISIP 464 psi
FSIP 468 psi
IFP 138-271 psi
FFP 272-389 psi
HSH 1610-1557 psi

3180-3190' Limestone; tan, finely crystalline, oolitic, poor visible porosity, trace brown and black stain, no free oil and no odor.

3203-3219' Limestone; brown, tan, oolitic, oomoldic, poor to fair oomoldic porosity, light brown stain, no show of free oil and questionable odor in fresh samples.

- 3253-3260' Limestone; white, cream, finely crystalline, few with scattered vuggy type porosity, good stain and saturation, show of free oil and fair odor in fresh samples.
- 3271-3280' Limestone; as above, dense, chalky, faint odor in fresh samples.
- 3289-3298' Limestone; white, tan, fossiliferous, chalky, scattered porosity, light brown stain, show of free oil and strong odor in fresh samples.

Drill Stem Test #4 3253-3298' (log measurements 3255-3300)

Times: 30-30-45-45

Blow: Weak

Recovery: 63' gas in pipe
 20' slightly oil cut mud
 (5% oil, 95% mud)

Pressures: ISIP 135 psi
 FSIP 159 psi
 IFP 38-38 psi
 FFP 43-55 psi
 HSH 1710-1662 psi

- 3325-3335' Limestone; tan, buff, finely crystalline, poor visible porosity, trace stain, trace stain, show of free oil and faint odor.

ARBUCKLE SECTION

- 3356-3359' Dolomite; white, gray, medium crystalline, scattered intercrystalline and vuggy type porosity, brown stain, show of free oil and strong odor in fresh samples.

Drill Stem Test #5 3332-3357' (log measurements 3334-3359)

Times: 30-30-45-45

Blow: Strong

Recovery: 5' gassy oil
 346' oil & gas cut muddy water
 (10% gas, 10% oil, 35% water, 45% mud)
 126' very slightly oil cut muddy water
 (3% gas, 2% oil, 25% water, 70% mud)
 1953' oil and gas cut muddy water
 (15% gas, 10% oil, 70% water, 5% mud)

Pressures: ISIP 1103 psi
 FSIP 1105 psi
 IFP 250-900 psi
 FFP 918-1102 psi
 HSH 1741-1667 psi

- 3359-3370' Dolomite; white and gray, medium crystalline, scattered intercrystalline porosity, light brown stain, show of free oil and strong odor.

Mai Oil Operations Inc.
Kramer 'A' #5
W/2-SE-NE-SW (1650' FSL & 2175' FWL)
Section 14-15s-14w
Russell County, Kansas
Page 5

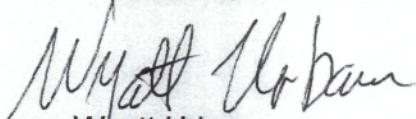
3370-3390'	Dolomite; as above.
3390-3410'	Dolomite; white, finely crystalline, few sucrosic, light brown stain, no free oil and fair odor in fresh samples.
3410-3429'	Dolomite; white, finely crystalline, few sucrosic, light brown stain, no free oil and fair odor in fresh samples.

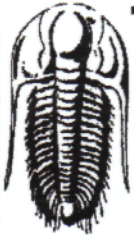
Rotary Total Depth	3427 (-1507)
Log Total Depth	3429 (-1509)

Recommendations:

5 1/2" production casing was set and cemented on the Kramer 'A' #5.

Respectfully submitted;


Wyatt Urban,
Petroleum Geologist



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operating Inc
 8411 Preston Rd Ste 800
 Dallas TX 75225 + 5520
 ATTN: Allen Bangert

14-15s-14w Russell,KS
Kramer A #5
 Job Ticket: 50379 **DST#: 1**
 Test Start: 2013.01.28 @ 21:11:06

GENERAL INFORMATION:

Formation: **Tarkio Sands**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 23:04:06
 Time Test Ended: 03:20:36
 Interval: **2482.00 ft (KB) To 2550.00 ft (KB) (TVD)**
 Total Depth: **2550.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Jeff Brown**
 Unit No: **44**
 Reference Elevations: **1919.00 ft (KB)**
1912.00 ft (CF)
 KB to GR/CF: **7.00 ft**

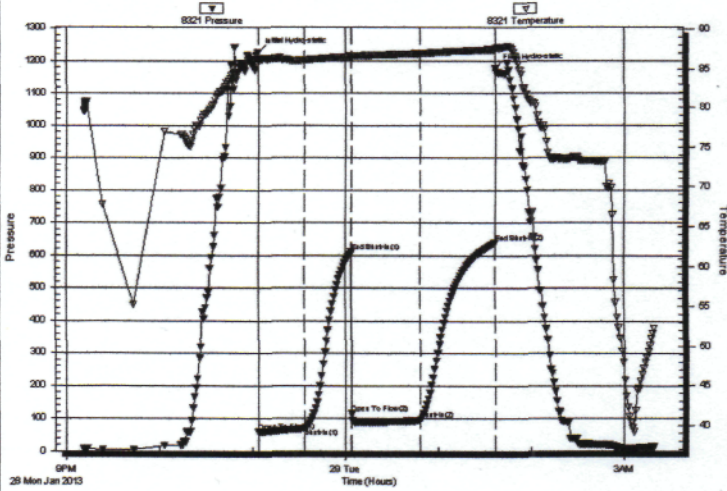
Serial #: 8321

Outside

Press@RunDepth: **97.19 psig @ 2518.00 ft (KB)**
 Start Date: **2013.01.28** End Date: **2013.01.29**
 Start Time: **21:11:07** End Time: **03:19:36**
 Capacity: **8000.00 psig**
 Last Calib.: **2013.01.29**
 Time On Btm: **2013.01.28 @ 23:03:36**
 Time Off Btm: **2013.01.29 @ 01:37:06**

TEST COMMENT: IFF=Fair blow built to 4"
 IS=Dead no blow back
 FFP=Fair blow built to 7 1/4"
 FSI=Weak surface blow back

Pressure vs. Time



PRESSURE SUMMARY

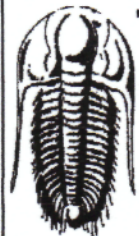
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1226.06	86.30	Initial Hydro-static
1	61.52	86.03	Open To Flow (1)
30	69.45	86.06	Shut-In(1)
60	610.57	86.51	End Shut-In(1)
61	115.07	86.29	Open To Flow (2)
105	97.19	86.92	Shut-In(2)
153	638.94	87.42	End Shut-In(2)
154	1177.86	87.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCGMW 5%G 5%O 40%M 50%W	0.30
60.00	HOCGM 15%G 30%O 55%M	0.30
20.00	SOCM 5%O 95%M	0.28
0.00	137-GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operating Inc

14-15s-14w Russell,KS

8411 Preston Rd Ste 800 Dallas TX 75225 + 5520

Kramer A #5

ATTN: Allen Bangert

Job Ticket: 50380

DST#: 2

Test Start: 2013.01.30 @ 01:10:42

GENERAL INFORMATION:

Formation: **Plattsmouth**

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

Time Tool Opened: 03:38:42

Time Test Ended: 08:15:42

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Jeff Brown**

Unit No: **44**

Interval: **2960.00 ft (KB) To 3035.00 ft (KB) (TVD)**

Reference Elevations: **1919.00 ft (KB)**

Total Depth: **2550.00 ft (KB) (TVD)**

1912.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **7.00 ft**

Serial #: 8679

Inside

Press@RunDepth: **53.58 psig @ 2999.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2013.01.30**

End Date:

2013.01.30

Last Calib.:

2013.01.30

Start Time: **01:10:43**

End Time:

08:04:42

Time On Btm:

2013.01.30 @ 03:38:12

Time Off Btm:

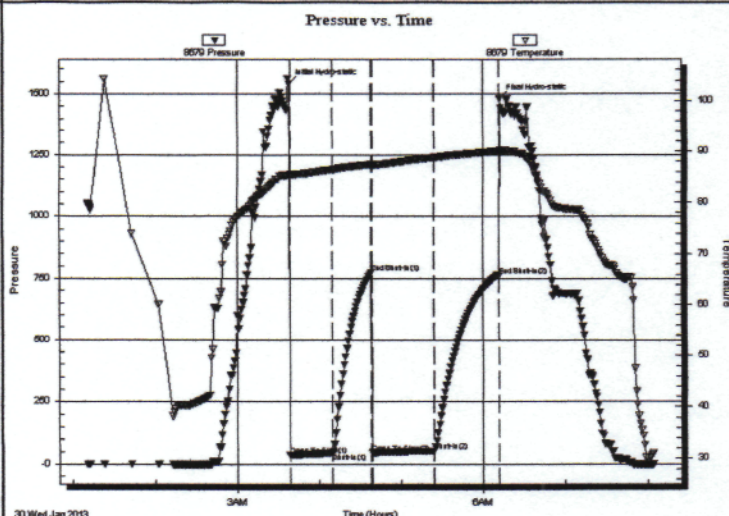
2013.01.30 @ 06:12:12

TEST COMMENT: IFP=Weak blow built to 1 3/4"

ISI=Dead no blow back

FFP=Weak blow built to 1"

FSI=Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1541.00	85.34	Initial Hydro-static
1	35.56	85.10	Open To Flow (1)
32	44.30	86.36	Shut-In(1)
60	775.03	87.40	End Shut-In(1)
61	46.41	87.13	Open To Flow (2)
106	53.58	88.72	Shut-In(2)
153	762.92	90.00	End Shut-In(2)
154	1478.43	90.12	Final Hydro-static

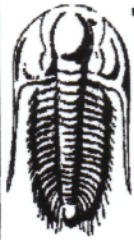
Recovery

Length (ft)	Description	Volume (bbl)
40.00	Mud with a scum of oil	0.20

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operating Inc

14-15s-14w Russell,KS

8411 Preston Rd Ste 800 Dallas TX 75225 + 5520

Kramer A #5

Job Ticket: 50381

DST#: 3

ATTN: Allen Bangert

Test Start: 2013.01.30 @ 18:35:46

GENERAL INFORMATION:

Formation: **Lansing-A-D**

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

Time Tool Opened: 20:29:46

Time Test Ended: 02:40:16

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Jeff Brown**

Unit No: **44**

Interval: **3104.00 ft (KB) To 3165.00 ft (KB) (TVD)**

Reference Elevations: **1919.00 ft (KB)**

Total Depth: **3165.00 ft (KB) (TVD)**

1912.00 ft (CF)

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

KB to GR/CF: **7.00 ft**

Serial #: 8321

Outside

Press@RunDepth: **388.69 psig @ 3140.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2013.01.30**

End Date:

2013.01.31

Last Calib.:

2013.01.31

Start Time: **18:35:47**

End Time:

02:36:16

Time On Btm:

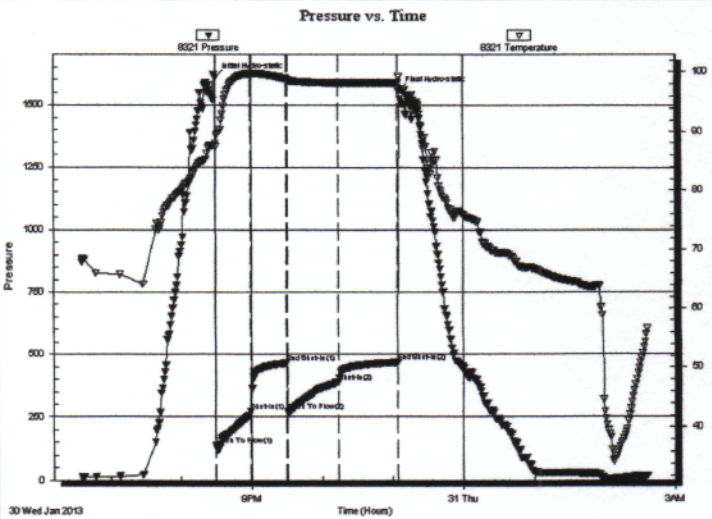
2013.01.30 @ 20:29:16

Time Off Btm:

2013.01.30 @ 23:05:16

TEST COMMENT: IFP=Strong blow BOB in 3/4 min
IS=Strong blow back BOB in 2 min
FFP=Strong blow BOB in 3/4 min. Gas to surface in 5 min
FSI=Strong blow back BOB in 1 1/2 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1610.14	87.90	Initial Hydro-static
1	138.43	87.26	Open To Flow (1)
30	270.72	99.70	Shut-In(1)
60	463.90	98.94	End Shut-In(1)
61	272.29	98.55	Open To Flow (2)
105	388.69	98.13	Shut-In(2)
155	467.86	98.18	End Shut-In(2)
156	1556.83	99.19	Final Hydro-static

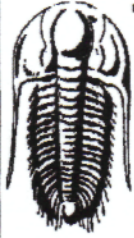
Recovery

Length (ft)	Description	Volume (bbl)
63.00	GOCWM 10%G 10%O 10%W 70%M	0.88
378.00	HOCGWM 20%G 10%W 25%M 45%O	5.30
453.00	Gassy Oil 20%G 80%O	6.35
0.00	2209-GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operating Inc

14-15s-14w Russell,KS

8411 Preston Rd Ste 800 Dallas TX 75225 +
5520

Kramer A #5

Job Ticket: 50383

DST#: 5

ATTN: Allen Bangert

Test Start: 2013.02.01 @ 05:05:01

GENERAL INFORMATION:

Formation: **BKC-Arbuckle**

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

Time Tool Opened: 06:48:31

Time Test Ended: 13:15:31

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Jeff Brown**

Unit No: **44**

Interval: 3332.00 ft (KB) To 3357.00 ft (KB) (TVD)

Reference Elevations: **1919.00 ft (KB)**

Total Depth: **3357.00 ft (KB) (TVD)**

1912.00 ft (CF)

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

KB to GR/CF: **7.00 ft**

Serial #: 8321

Outside

Press@RunDepth: **1101.86 psig @ 3334.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2013.02.01**

End Date:

2013.02.01

Last Calib.:

2013.02.01

Start Time: **05:05:02**

End Time:

13:12:31

Time On Btm:

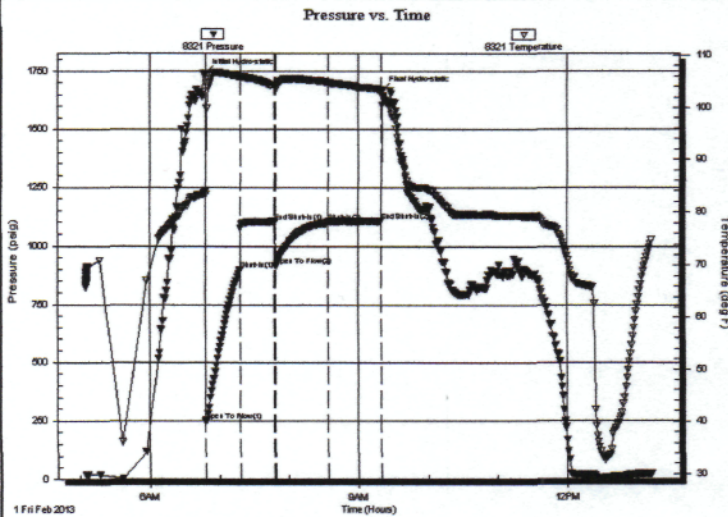
2013.02.01 @ 06:48:01

Time Off Btm:

2013.02.01 @ 09:21:01

TEST COMMENT: IFP=Strong blow BOB in 30 sec
IS=Weak surface blow back
FFP=Strong blow BOB in 45 sec
FSI=Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1740.63	83.76	Initial Hydro-static
1	249.52	83.28	Open To Flow (1)
30	900.33	105.94	Shut-In(1)
60	1102.57	104.26	End Shut-In(1)
61	917.83	104.10	Open To Flow (2)
106	1101.86	104.74	Shut-In(2)
152	1104.69	103.49	End Shut-In(2)
153	1667.40	102.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1953.00	OCGMW 15%G 10%O 5%M 70%W	27.40
126.00	VSOCGWM 3%G 2%O 25%W 70%M	1.77
346.00	OCGWM 10%G 10%O 35%W 45%M	4.85
5.00	Gassy oil 10%G 90 %O	0.07

* Recovery from multiple tests

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 50383

Printed: 2013.02.05 @ 10:04:33

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. 6370

Date	1-26-13	Sec.	14	Twp.	15	Range	14	County	Russell	State	KS	On Location		Finish	12:15 AM	
Lease	Kramer A							Well No.	5	Location Russell Sto River 1/25 E 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							Charge To <i>M Oil Oil</i>								
Hole Size	10 7/8							T.D.	515	Street						
Csg.	858							Depth	515.82	City State						
Tbg. Size								Depth		The above was done to satisfaction and supervision of owner agent or contractor.						
Tool								Depth		Cement Amount Ordered <i>250 640 3700</i>						
Cement Left in Csg.	<i>90 ft</i>							Shoe Joint	<i>90 ft</i>	Meas Line Displace <i>31.5 BBL 286 gal</i>						
EQUIPMENT													Common <i>150</i>			
Pumptrk	<i>5</i>	No.	Cementer	<i>Matt</i>									Poz. Mix	<i>100</i>		
Bulktrk	<i>14</i>	No.	Driver	<i>Brett</i>									Gel.	<i>5</i>		
Bulktrk	<i>pu</i>	No.	Driver	<i>Chayton</i>									Calcium	<i>9</i>		
JOB SERVICES & REMARKS													Hulls			
Remarks:													Salt			
Rat Hole													Flowseal			
Mouse Hole													Koi-Seal			
Centralizers													Mud CLR 48			
Baskets													CFL-117 or CD110 CAF 38			
D/V or Port Collar													Sand			
<i>Cement did generate</i>													Handling			
													Mileage			
													FLOAT EQUIPMENT			
													Guide Shoe			
													Centralizer			
													Baskets			
													AFU Inserts			
													Float Shoe			
													Latch Down			
													<i>Wood plug</i>			
													Pumptrk Charge <i>Long Surface</i>			
													Mileage <i>11</i>			
													Tax			
													Discount			
Signature <i>Jan Huvor</i>													Total Charge			

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. 6071

Date	Sec.	Twp.	Range	County	State	On Location	Finish
2-2-13	14	15	14	Russell	Ks		11:30 AM

Lease Kramer "A" Well No. 5 Location: Russell, Ks - 105 on 281 Hwy, E/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 Production Charge To Mai oil operations

Hole Size 7 7/8" T.D. 3427' Depth 3426'

Csg. 5 1/2" New 14" Depth 3426' 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. 21.88' Shoe Joint 21.88' Cement Amount Ordered 125 5x60/40 2% Gel 18% Salt 1/4 # F.S.

Meas Line Displace 8.3 BLS 100 5x60/40 2% Gel 10% Salt 1/4 # F.S. - 1600 gal Mud Clear #

EQUIPMENT

Rumptrk 16 No. Cementer Travis Rick Common 135

Bulktrk 14 No. Driver Clayton Poz. Mix 90

Bulktrk 10 No. Driver Lonnie W. Gel. 5

JOB SERVICES & REMARKS

Remarks: Pipe on bottom, break Salt 45

Rat Hole Circulation, pump 1500 gal Flowseal 56#

Mouse Hole Mud Clear 48, plug Kol-Seal

Centralizers Rathole w/ 30 5x Cement Mud CLR 48 1000 gal

Baskets Hook to 5 1/2" Casing & Mix CFL-117 or CD110 CAF 38

D/V or Port Collar 95 5x 60/40 2% Gel 18% Sand

Salt 1/4 # Flo. seal, followed by 100 5x 60/40 Handling 275

2% Gel 10% Salt 1/4 # Flo. seal, shut down. Mileage

wash pump & lines. Released plug & Displaced with BLS of water.

Lift pressure 700 #

Land plug to 1400 #

Basket on # 15

turbo's on # 5 1-8, 10, 11, 14, 21, 24

Released + Float held.

FLOAT EQUIPMENT

Guide Shoe

Centralizer 1 turbo's

Baskets 1 weatherford

AFU inserts

Float Shoe 1

Latch Down 1

Pumptrk Charge ~~prod~~ prod Long String

Mileage ~~115~~ 115

Tax

Discount

Total Charge

X Signature Jay Shuis