



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1127116
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: _____



1127116

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> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Bangert 5
Doc ID	1127116

Tops

Name	Top	Datum
Anhydrite	718	+994
Tarkio Lime	2335	-623
Topeka	2601	-889
Heebner	2828	-1116
Toronto	2846	-1134
Lansing	2989	-1277
Base Kansas City	3096	-1384
Abuckle	3156	-1444

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 15-167-23851-00-00
Bangert 5
NW/4 Sec.02-15S-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
Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

Mai Oil Operations
Bangert #5
E/2-SW-SW-NW
(2310' FNL & 420' FWL)
Section 2-15s-14w
Russell County, Kansas
Page 1

5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (Rig #3)
Commenced: January 17, 2013
Completed: January 25, 2013
Elevation: 1712' K.B; 1710' D.F; 1704' G.L.
Casing program: Surface; 8 5/8" @ 431'
Production; 5 1/2" @ 3225'
Sample: Samples saved and examined 2100' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2100 ft. to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There were eight (8) Drill Stem Tests ran by 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	718	+994
Base Anhydrite	753	+959
Grand Haven	2264	-552
1 st Tarkio Sand	2281	-569
Dover	2290	-528
2 nd Tarkio Sand	2297	-585
Tarkio Lime	2335	-623
Elmont	2397	-685
Howard	2537	-825
Topeka	2601	-889
Heebner	2828	-1116
Toronto	2846	-1134
Lansing	2989	-1277
Base Kansas City	3096	-1384
Arbuckle	3156	-1444
Rotary Total Depth	3226	-1514
Log Total Depth	3226	-1514

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

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

1ST TARKIO SAND SECTION

2281-2285' Sand; light gray, fine grained, sub angular, sub rounded, few friable, trace stain, show of free oil and faint odor.

2ND TARKIO SAND SECTION

2297-2307' Sand; as above, light brown stain, weak show of free oil and faint odor.

Drill Stem Test #1 2266-2337'

Times: 30-30-45-45
Blow: Weak
Recovery: 20' mud, oil specked
Pressures: ISIP 96 psi
FSIP 116 psi
IFP 11-20 psi
FFP 24-27 psi
HSH 1079-1010 psi

TOPEKA SECTION

2600-2607' Limestone; cream, tan, fossiliferous, chalky, trace poor brown stain, trace free oil and no odor.

Drill Stem Test #2 2565-2612'

Times: 30-30-30-30
Blow: Fair
Recovery: 75' mud
Pressures: ISIP 744 psi
FSIP 694 psi
IFP 60-67 psi
FFP 59-73 psi
HSH 1249-1243 psi

2638-2648' Limestone; tan, brown, finely crystalline, poor visible porosity, spotty brown stain, no free oil and no odor in fresh samples.

2766-2776' Limestone; tan, finely crystalline, sub oomoldic, chalky, poor stain, weak show of free oil and no odor.

2780-2792' Limestone; as above.

Drill Stem Test #3 2761-2792'

Times: 30-30-30-30

Blow: Weak

Recovery: 3' oil specked

Pressures: ISIP 251 psi
FSIP 217 psi
IFP 8-11 psi
FFP 10-13 psi
HSH 1360-1284 psi

TORONTO SECTION

2850-2860' Limestone; white, gray, chalky, poor visible light brown and black stain, show of free oil and faint odor.

Drill Stem Test #4 2824-2861'

Times: 30-30-45-45

Blow: Strong

Recovery: 120' gas in pipe
65' very slightly oil cut mud
(10% gas, 3% oil, 87% mud)

Pressures: ISIP 144 psi
FSIP 138 psi
IFP 11-27 psi
FFP 26-37 psi
HSH 1411-1378 psi

LANSING SECTION

2989-2900' Limestone; tan, brown, finely crystalline, scattered pinpoint porosity, brown stain, show of free oil and questionable odor.

2921-2934' Limestone; tan, white, sub oomoldic, chalky, scattered porosity, fair to good stain, show of free oil and strong odor in fresh samples.

Drill Stem Test #5 2894-2951'

Times: 30-30-45-45

Blow: Weak

Recovery: 90' gas in pipe
30' oil specked mud

Pressures: ISIP 409 psi
FSIP 363 psi
IFP 10-23 psi
FFP 27-35 psi
HSH 1447-1356 psi

- 2966-2972' Limestone; cream, tan, oomoldic, fair porosity, brown stain and saturation, show of free oil and strong odor in fresh samples.
- 2978-2983' Limestone; tan, brown, finely crystalline, sub oomoldic/oolitic, scattered porosity, brown stain, show of free oil and faint odor.
- 2990-2994' Limestone; white, tan, oomoldic, good oomoldic porosity, brown stain, show of free oil and odor.

Drill Stem Test #6 2954-2994'

Times: 30-30-45-45

Blow: Strong

Recovery: 63' gassy muddy oil
 (35% gas, 25% oil, 40% mud)
 63' gassy muddy oil
 (35% gas, 45% oil, 20% mud)
 120' oil and gas cut mud
 (20% gas, 10% oil, 70% mud)

Pressures: ISIP 446 psi
 FSIP 429 psi
 IFP 22-66 psi
 FFP 62-99 psi
 HSH 1476-1415 psi

- 3040-3045' Limestone; gray, finely crystalline, slightly cherty, poor visible porosity, no shows.
- 3073-3090' Limestone; tan, brown, finely crystalline, scattered porosity, light brown stain, trace of free oil and fair odor in fresh samples.

Drill Stem Test #7 3039-3090'

Times: 30-30-45-45

Blow: Weak

Recovery: 2' very slightly oil cut mud
 (2% oil, 98% mud)

Pressures: ISIP 27 psi
 FSIP 25 psi
 IFP 17-19 psi
 FFP 19-20 psi
 HSH 1542-1483 psi

ARBUCKLE SECTION

- 3156-3161' Dolomite; white, cream, fine and medium crystalline, fair intercrystalline porosity, light brown stain, show of free oil and faint odor.

Drill Stem Test #8 3124-3161'

Times: 30-30-45-45

Blow: Strong

Recovery: 776' muddy water

Pressures: ISIP 1039 psi
FSIP 1047 psi
IFP 22-188 psi
FFP 225-382 psi
HSH 1587-1478 psi

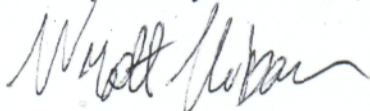
- 3161-3180' Dolomite; white, finely crystalline, poor to fair porosity, light brown stain, no show of free oil and faint odor.
- 3180-3200' Dolomite; white, finely crystalline, scattered porosity, no shows.
- 3200-3210' Dolomite; white, finely crystalline, sandy, no shows.
- 3210-3226' Dolomite; white, cream, pink, finely crystalline, poor visible porosity, plus brown chert, no shows.

Rotary Total Depth 3226
Log Total Depth 3226

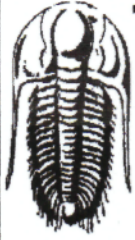
Recommendations:

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

Respectfully submitted;



Wyatt Urban,
Petroleum Geologist



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations
 8411 Preston Rd. Ste. 800
 Dallas, Tx 75225
 ATTN: Wyatt Urban

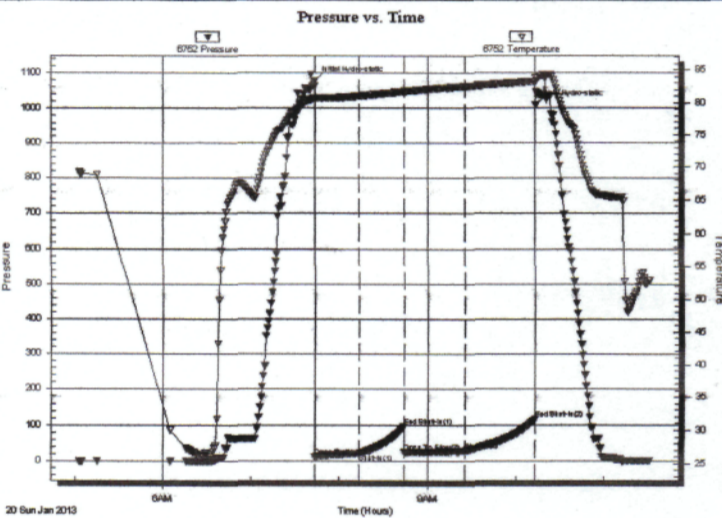
2 15s 14w Russell
Bangert # 5
 Job Ticket: 50305 **DST#: 1**
 Test Start: 2013.01.20 @ 05:03:00

GENERAL INFORMATION:

Formation: **Tarkio Sand**
 Deviated: No Whipstock: 1712.00 ft (KB)
 Time Tool Opened: 07:43:40
 Time Test Ended: 11:32:00
 Interval: **2268.00 ft (KB) To 2337.00 ft (KB) (TVD)**
 Total Depth: **2337.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jim Svaty
 Unit No: 41
 Reference Elevations: 1712.00 ft (KB)
 1704.00 ft (CF)
 KB to GRVCF: 8.00 ft

Serial #: 6752 Inside
 Press@RunDepth: 27.76 psig @ 2300.00 ft (KB)
 Start Date: 2013.01.20 End Date: 2013.01.20
 Start Time: 05:03:01 End Time: 11:31:40
 Capacity: 8000.00 psig
 Last Calib.: 2013.01.20
 Time On Btm: 2013.01.20 @ 07:43:30
 Time Off Btm: 2013.01.20 @ 10:13:30

TEST COMMENT: 30-IFP- Surface Blow Building to 3 1/2in.
 30-ISIP- Surface Blow in 3min. Died in 9min.
 45-FFP- Surface Blow Building to 2in.
 45-FSIP- No Blow



PRESSURE SUMMARY

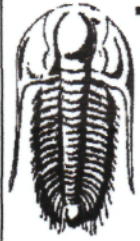
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1079.17	80.75	Initial Hydro-static
1	11.09	80.59	Open To Flow (1)
30	20.01	81.02	Shut-In(1)
61	96.42	81.70	End Shut-In(1)
61	24.46	81.69	Open To Flow (2)
103	27.76	82.50	Shut-In(2)
150	116.93	83.21	End Shut-In(2)
150	1010.81	83.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Oil Speck Mud 100%	0.10

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: Wyatt Urban

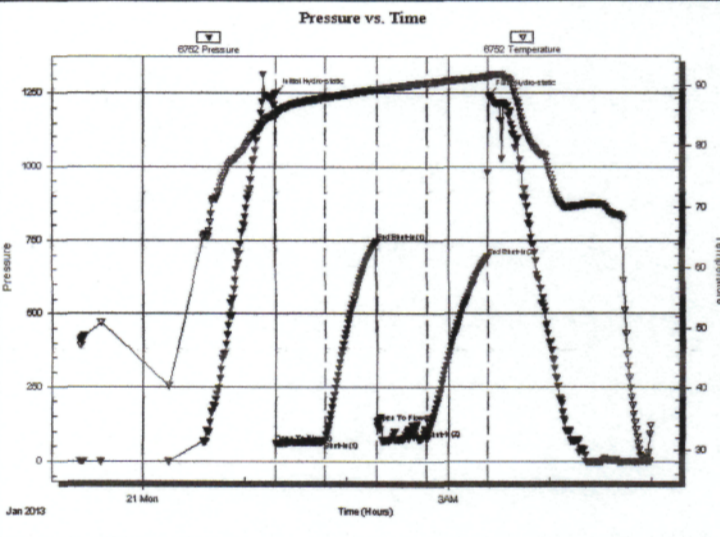
2 15s 14w Russell
Bangert # 5
 Job Ticket: 50306 **DST#: 2**
 Test Start: 2013.01.20 @ 23:23:00

GENERAL INFORMATION:

Formation: **Topeka**
 Deviated: No Whipstock: 1712.00 ft (KB)
 Time Tool Opened: 01:18:20
 Time Test Ended: 05:00:00
 Interval: **2561.00 ft (KB) To 2612.00 ft (KB) (TVD)**
 Total Depth: **2612.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 41
 Reference Elevations: 1712.00 ft (KB)
 1704.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6752 Inside
 Press@RunDepth: 73.66 psig @ 2576.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.01.20 End Date: 2013.01.21 Last Calib.: 2013.01.21
 Start Time: 23:23:01 End Time: 04:59:30 Time On Btm: 2013.01.21 @ 01:18:00
 Time Off Btm: 2013.01.21 @ 03:23:40

TEST COMMENT: 30-IFP- Surface Building to 6 3/4in. in 3min.
 30-ISIP- No Blow
 30-FFP- Surface Blow
 30-FSIP- No Blow

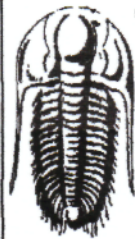


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1249.32	85.43	Initial Hydro-static
1	60.22	85.18	Open To Flow (1)
30	67.20	88.00	Shut-In(1)
60	744.60	89.31	End Shut-In(1)
60	131.29	89.23	Open To Flow (2)
90	73.66	90.34	Shut-In(2)
125	694.02	91.41	End Shut-In(2)
126	1243.49	91.62	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
75.00	MUD 100%	0.37

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations
8411 Preston Rd. Ste. 800
Dallas, Tx 75225
ATTN: Wyatt Urban

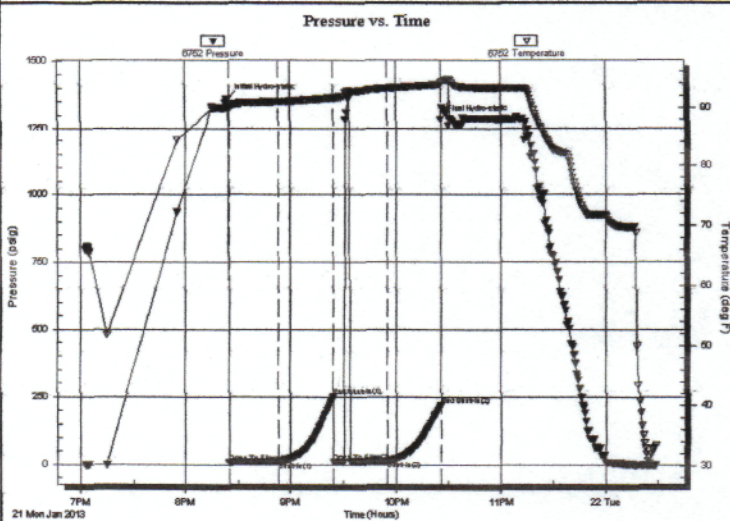
2 15s 14w Russell
Bangert # 5
Job Ticket: 50307 **DST#: 3**
Test Start: 2013.01.21 @ 19:03:00

GENERAL INFORMATION:

Formation: **Plattsmouth**
Deviated: No Whipstock: 1712.00 ft (KB)
Time Tool Opened: 20:24:40
Time Test Ended: 00:29:00
Interval: **2761.00 ft (KB) To 2792.00 ft (KB) (TVD)**
Total Depth: **2792.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 41
Reference Elevations: 1712.00 ft (KB)
1704.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6752 Inside
Press@RunDepth: 13.11 psig @ 2789.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.01.21 End Date: 2013.01.22 Last Calib.: 2013.01.22
Start Time: 19:03:01 End Time: 00:28:50 Time On Btm: 2013.01.21 @ 20:24:30
Time Off Btm: 2013.01.21 @ 22:26:00

TEST COMMENT: 30-IFP- Surface Blow
30-ISIP- No Blow
30-FFP- No Blow in 5min. Flushed Good Surge No Blow
30-FSIP- No Blow

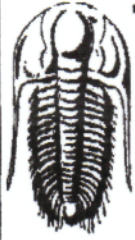


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1360.66	90.24	Initial Hydro-static
1	8.13	89.59	Open To Flow (1)
29	11.23	90.89	Shut-In(1)
60	251.36	91.58	End Shut-In(1)
60	10.73	91.50	Open To Flow (2)
91	13.11	93.12	Shut-In(2)
122	217.70	93.77	End Shut-In(2)
122	1284.72	94.09	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
3.00	Oil Speck Mud 100%	0.01

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations
 8411 Preston Rd. Ste. 800
 Dallas, Tx 75225
 ATTN: Wyatt Urban

2 15s 14w Russell
Bangert # 5
 Job Ticket: 50308 **DST#: 4**
 Test Start: 2013.01.22 @ 08:15:00

GENERAL INFORMATION:

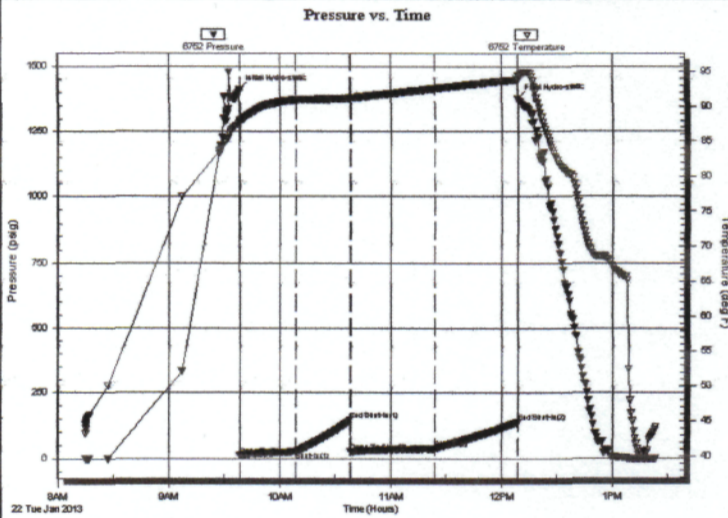
Formation: **Toronto**
 Deviated: No Whipstock: 1712.00 ft (KB)
 Time Tool Opened: 09:38:20
 Time Test Ended: 13:24:00
 Interval: **2824.00 ft (KB) To 2861.00 ft (KB) (TVD)**
 Total Depth: **2861.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 41
 Reference Elevations: 1712.00 ft (KB)
 1704.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6752

Inside

Press@RunDepth: 37.67 psig @ 2858.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.01.22 End Date: 2013.01.22 Last Calib.: 2013.01.22
 Start Time: 08:15:01 End Time: 13:23:30 Time On Btm: 2013.01.22 @ 09:38:10
 Time Off Btm: 2013.01.22 @ 12:08:40

TEST COMMENT: 30-IFP- BOB in 23min. Surging Blow
 30-ISIP- No Blow
 45-FFP- BOB in 22min. Surging Blow
 45-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1411.23	88.04	Initial Hydro-static
1	11.37	87.80	Open To Flow (1)
31	27.08	90.89	Shut-In(1)
60	144.36	91.16	End Shut-In(1)
61	26.58	91.14	Open To Flow (2)
106	37.67	92.48	Shut-In(2)
151	138.07	93.73	End Shut-In(2)
151	1378.24	94.39	Final Hydro-static

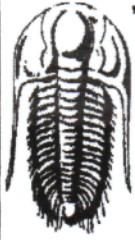
Recovery

Length (ft)	Description	Volume (bbl)
65.00	OCM 3%o 10%g 87%m	0.32
0.00	120 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 Operations
 8411 Preston Rd. Ste. 800
 Dallas, Tx 75225
 ATTN: Wyatt Urban

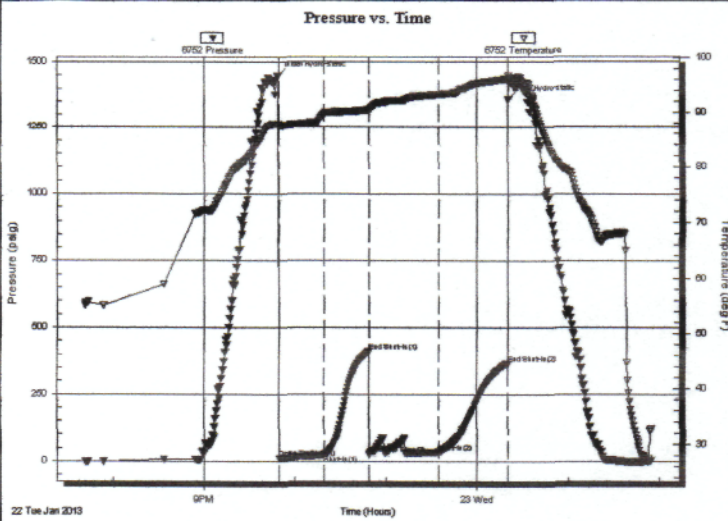
2 15s 14w Russell
Bangert # 5
 Job Ticket: 50309 **DST#: 5**
 Test Start: 2013.01.22 @ 19:42:00

GENERAL INFORMATION:

Formation: **LKC " A - C "**
 Deviated: No Whipstock: 1712.00 ft (KB)
 Time Tool Opened: 21:49:20
 Time Test Ended: 01:55:00
 Interval: **2894.00 ft (KB) To 2951.00 ft (KB) (TVD)**
 Total Depth: **2951.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 41
 Reference Elevations: 1712.00 ft (KB)
 1704.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6752 Inside
 Press@RunDepth: 35.28 psig @ 2914.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.01.22 End Date: 2013.01.23 Last Calib.: 2013.01.23
 Start Time: 19:42:01 End Time: 01:54:30 Time On Btm: 2013.01.22 @ 21:49:00
 Time Off Btm: 2013.01.23 @ 00:20:20

TEST COMMENT: 30-IFP- Weak Surface Blow
 30-ISIP- No Blow
 30-FFP- Weak Surface Blow
 30-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1447.59	87.81	Initial Hydro-static
1	10.92	87.58	Open To Flow (1)
31	23.89	89.84	Shut-In(1)
60	409.67	90.49	End Shut-In(1)
60	26.99	90.40	Open To Flow (2)
106	35.28	93.28	Shut-In(2)
152	363.43	96.15	End Shut-In(2)
152	1356.08	96.77	Final Hydro-static

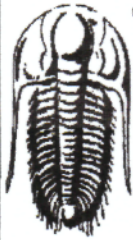
Recovery

Length (ft)	Description	Volume (bbl)
30.00	Oil Speck Mud 100%	0.15
0.00	90 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 Operations
8411 Preston Rd. Ste. 800 -
Dallas, Tx 75225
ATTN: Wyatt Urban

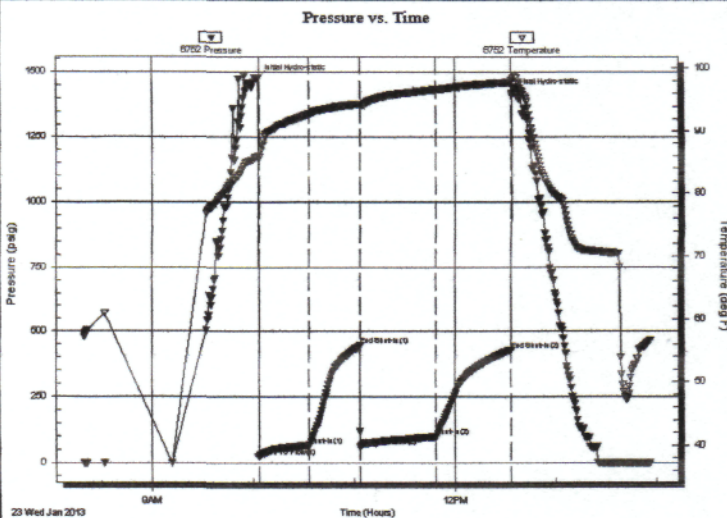
2 15s 14w Russell
Bangert # 5
Job Ticket: 50310 **DST#: 6**
Test Start: 2013.01.23 @ 08:20:00

GENERAL INFORMATION:

Formation: **LKC " DEF & 4ft G**
Deviated: No Whipstock: 1712.00 ft (KB)
Time Tool Opened: 10:03:30
Time Test Ended: 13:57:00
Interval: **2954.00 ft (KB) To 2994.00 ft (KB) (TVD)**
Total Depth: **2994.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Fair
Reference Elevations: 1712.00 ft (KB)
1704.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6752 Inside
Press@RunDepth: 99.03 psig @ 2957.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.01.23 End Date: 2013.01.23 Last Calib.: 2013.01.23
Start Time: 08:20:01 End Time: 13:56:00 Time On Btm: 2013.01.23 @ 10:03:10
Time Off Btm: 2013.01.23 @ 12:33:30

TEST COMMENT: 30-IFP- BOB in 2min.
30-ISIP- Surface Blow Building to 3/4in.
45-FFP- BOB in 30sec. Gas to Surface in 40min.
45-FSIP- Surface Blow Building to 2 1/4in.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1476.08	85.93	Initial Hydro-static
1	22.23	85.74	Open To Flow (1)
31	66.28	92.77	Shut-In(1)
61	446.18	94.29	End Shut-In(1)
61	61.99	94.25	Open To Flow (2)
106	99.03	96.60	Shut-In(2)
151	429.54	97.73	End Shut-In(2)
151	1419.99	98.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOCM 10%o 20%g 70%m	0.59
63.00	GMCO 35%g 20%m 45%o	0.88
63.00	GOCM 35%g 25%o 40%m	0.88
0.00	Gas to Surface on 2nd Open	0.00

* 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. 6062

Date	1-18-13	Sec.	2	Twp.	15	Range	14	County	Russell	State	Ks	On Location		Finish	2:30 AM		
Location													Russell, Ks - S to River East into				
Lease	Banquest		Well No.	5		Owner on Northside of River.											
Contractor	Southwind		#3	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.													
Type Job	Surface																
Hole Size	12 1/4"		T.D.	431'		Charge To										Main oil operations	
Csg.	8 5/8"		Depth	431'		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.	15'		Shoe Joint	15'		Cement Amount Ordered										235 sx 60/40 3% CC 2% Gel	
Meas Line			Displace	26 1/2 BLS													
EQUIPMENT																	
Pumptrk	16	No.	Cementer	Travis		Common										141	
			Helper			Poz. Mix										94	
Bulktrk	4	No.	Driver	Rick		Gel.										4	
			Driver			Calcium										9	
Bulktrk	P.U.	No.	Driver	Clayton													
JOB SERVICES & REMARKS																	
Remarks:	Cement did Circulate																
Rat Hole	Flowseal																
Mouse Hole	Kol-Seal																
Centralizers	Mud CLR 48																
Baskets	CFL-117 or CD110 CAF 38																
D/V or Port Collar	Sand																
	Handling 250																
	Mileage																
FLOAT EQUIPMENT																	
	Guide Shoe																
	Centralizer																
	Baskets																
	AFU Inserts																
	Float Shoe																
	Latch Down																
	1- Double cup plug																
	Pumptrk Charge Surface																
	Mileage 8																
Signature <i>Chris Harris</i>													Tax				
													Discount				
													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. 6403

Date	1-25-13	Sec.	2	Twp.	15	Range	14	County	RUSSELL	State	KANSAS	On Location		Finish	8:15pm
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Location RUSSELL S TO RIVER - E/INTO

Lease **BANGERT** Well No. **#5** Owner **MAT. OIL OPERATIONS**

Contractor **S.W.D #3** To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job **PROD. STRING**

Hole Size **7 7/8"** T.D. **3226'** Charge To **MAT OIL OPERATIONS**

Csg. **5 1/2" - 1418 NEW** Depth **3225'** Street **8411 PRESTON RD. - SUITE 800**

Tbg. Size Depth City **DALLAS** State **TX, 75225**

Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left In Csg. Shoe Joint **2061** Cement Amount Ordered **1st - 125 ^{60%} 40 18 ^{70%} 2 ^{80%} 4 FLO**

Meas Line Displace **78 BBLs.** 2mc **100 ^{60%} 40 10 SALT - 2 ^{80%} 4 FLO**

EQUIPMENT

Pumptrk # **14** No. Cementer **CISCO** Common **135**

Helper **NICK** Poz. Mix **90**

Bulktrk # **1** No. Driver **BILLY** Gel. **5**

Bulktrk # **8** No. Driver **LONATE, NC.** Calcium

JOB SERVICES & REMARKS

Remarks: Huffs

Rat Hole **30 SKS** Salt **45**

Mouse Hole **15 SKS** Flowseal **56#**

Centralizers **1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 21, 23** Mud CLR 48 **1,000 GALLONS**

Baskets **15 from bottom of #12** CFL-117 or CD110 CAF 38

D/V or Port Collar Sand

DROPPED BALL - BROKE CIRCULATION Handling **275**

CIRCULATED ON BOTTOM 45 MIN. - Mileage

DUMPED 1000 GAL. OF MUD CLR 48 -

PLUGGED RATHOLE 30 SKS - PLUGGED

MIXED & DUMPED

85 SKS OF ^{60%} 40 20Z - 18 ^{70%} 2 ^{80%} 4 FLO

DIRECTLY FOLLOWED BY 100 SKS ^{60%} 40 20Z -

2 ^{80%} 4 FLO - STOPPED DROPPED PLUG

PLUG LANDED & HELD!

LIFT PRESSURE @ 900 LBS

PLUG LANDED @ 78 BBLs 1,500 LBS.

Pumptrk Charge **prod Long String**

Mileage **8**

Tax

Discount

Total Charge