



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1236870
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: _____

1236870

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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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Hammeke "B" 3
Doc ID	1236870

Tops

Name	Top	Datum
Anhydrite	643	+1208
Heebner	3107	-1256
Toronto	3125	-1274
Brown Lime	3242	-1391
Lansing	3251	-1400
Base Kansas City	3478	-1627
Viola	3488	-1637
Arbuckle	3571	-1720

JAMES C. MUSGROVE

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

Office (620) 588-4250

Res. Claflin (620) 587-3444

Mai Oil Operations
Hammeke 'B' #3
N/2-SE-SE-SE (620' FSL & 330' FEL)
Section 21-21s-12w
Stafford County, Kansas

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5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (rig #3)
Commenced: October 11, 2014
Completed: October 19, 2014
Elevation: 1851' K.B., 1849' D.F., 1843' G.L.
Casing program: Surface; 8 5/8" @ ~~3714'~~ 640'
Production, 5 1/2" @ 3714'
Sample: Samples saved and examined 2100' to 2400', 2900' the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2100' to 2400', 2900' to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There were nine (9) Drill Stem Tests ran by Diamond Testing Co.
Electric Log: By Pioneer, Dual Induction, Dual Compensated Porosity and Micro-Resistivity Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	643	+1208
Base Anhydrite	663	+1188
Red Eagle	2232	-381
Heebner	3107	-1256
Toronto	3125	-1274
Douglas	3140	-1289
Brown Lime	3242	-1391
Lansing	3251	-1400
Base Kansas City	3478	-1627
Viola	3488	-1637
Simpson Shale	3518	-1667
Arbuckle	3571	-1720
Rotary Total Depth	3715	-1864
Log Total Depth	3715	-1864

All tops and zones corrected to Electric Log Measurement.

Mai Oil Operations
Hammeke 'B' #3
N/2-SE-SE-SE (620' FSL & 330' FEL)
Section 21-21s-12w
Stafford County, Kansas

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

RED EAGLE SECTION

Limestone, cream, white, oomoldic, granular in part, good oomoldic porosity, no gas bubbles, no odor and no shows.

TOPEKA SECTION

There were several zones of well-developed porosity encountered in the drilling of the Topeka Section but no shows of oil and/or gas was noted (see attached sample log/geologist report).

TORONTO SECTION

3125-3134' Limestone, tan, cream, finely crystalline, chalky, poor visible porosity, no shows.

LANSING SECTION

3252-3260' Limestone, white, tan, finely crystalline, oolitic, poor visible porosity, no shows.

3272-3280' Limestone, tan, cream, white, finely crystalline, granular in part, fossiliferous, poor inter-crystalline porosity, trace brown stain, trace of free oil and faint odor in fresh samples.

3287-3294' Limestone, tan, finely crystalline, oolitic, sub-oomoldic, scattered porosity, golden brown to dark brown stain, show of free oil and faint odor in fresh samples.

Drill Stem Test #1 **3254-3300**

Times: 30-45-30-60

Blow: Strong

Recovery: 31' gas in pipe
30' mud

Pressures: ISIP 372 psi
FSIP 348 psi
IFP 67-34 psi
FFP 33-36 psi
HSH 1643-1609 psi

- 3311-3316' Limestone, white, gray, fossiliferous, sub-oomoldic, chalky in part; golden brown stain weak show of free oil and questionable odor in fresh samples.
- 3319-3330' Limestone, gray, white, oolitic, chalky, gray and brown stain, show of free oil and faint to fair odor in fresh samples.
- 3336-3342' Limestone, gray, tan, fossiliferous, scattered porosity, fair stain and saturation, show of free oil and fair odor in fresh samples.

Drill Stem Test #2 **3300-3345**

Times: 30-30-30-30
Blow: Weak
Recovery: 15' very slightly oil spotted mud
Pressures: ISIP 62 psi
FSIP 52 psi
IFP 33-34 psi
FFP 32-37 psi
HSH 1622-1602 psi

- 3379-3386' Limestone, gray, white, oomoldic, fair oomoldic porosity, brown to dark brown stain, show of free oil and faint odor in fresh samples.
- 3397-3410' Limestone, white, gray, oolitic, chalky, brown and dark brown stain, show of free oil and questionable odor in fresh samples.
- 3415-3425' Limestone, tan, gray, white, finely crystalline, fossiliferous/oolitic, brown to dark brown stain, show of free oil and faint odor in fresh samples.
- 3435-3444' Limestone, tan, gray, oolitic, poor porosity, trace brown stain, weak show of free oil and no odor in fresh samples.

Drill Stem Test #3 **3370-3445**

Times: 30-30-45-60
Blow: Good to Strong
Recovery: 154' very slightly oil spotted mud
Pressures: ISIP 870 psi
FSIP 843 psi
IFP 50-86 psi
FFP 84-117 psi
HSH 1719-1585 psi

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N/2-SE-SE-SE (620' FSL & 330' FEL)
Section 21-21s-12w
Stafford County, Kansas

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3464-3474' Limestone, white, tan, finely crystalline, oolitic, chalky, brown stain, trace of free oil and fair odor in fresh samples.

VIOLA SECTION

3488-3518' Chert, white, gray, boney, fresh; black/brown stain, trace of free oil and questionable odor in fresh samples.

Drill Stem Test #4 **3454-3522**

Times: 30-30-30-30

Blow: Weak

Recovery: 10' mud

Pressures: ISIP 65 psi
FSIP 55 psi
IFP 45-50 psi
FFP 45-48 psi
HSH 1788-1711 psi

SIMPSON SECTION

3522-3530' Sand, white, clear, sub-rounded, friable, poor to fair inter-granular porosity, black stain, no free oil and no odor in fresh samples.

ARBUCKLE SECTION

3571-3580' Dolomite, tan, fine and medium crystalline, sucrosic in part, scattered inter-crystalline to pinpoint type porosity, good stain and saturation, show of free oil and strong odor in fresh samples.

3580-3591' Dolomite, as above, medium crystalline, good inter-crystalline porosity, few 100% stain and saturated; fair to good show of free oil and strong odor in fresh samples.

Drill Stem Test #5 **3512-3591**

Times: 30-30-45-45

Blow: Strong

Recovery: 252' clean gassy oil
348' muddy gassy oil
(35% gas; 60% oil; 5% mud)

Pressures: ISIP 987 psi
FSIP 993 psi
IFP 91-158 psi
FFP 186-262 psi
HSH 1805-1720 psi

Mai Oil Operations
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N/2-SE-SE-SE (620' FSL & 330' FEL)
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Stafford County, Kansas

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3591-3611' Dolomite, gray, white, medium crystalline, good inter-crystalline porosity, good stain and saturation, good show of free oil and strong odor, plus tan, sucrosic dolomite, fair porosity, good stain, show of free oil.

Drill Stem Test #6 **3584-3611**

Times: 30-30-45-45

Blow: Strong

**Recovery: 344' clean gassy oil
126' muddy gassy oil
(35% gas; 60% oil; 5% mud)**

**Pressures: ISIP 926 psi
FSIP 878 psi
IFP 57-105 psi
FFP 141-201 psi
HSH 1868-1752 psi**

3614-3634' Dolomite, gray, finely crystalline, few medium crystalline, good inter-crystalline and vuggy type porosity, good dark brown stain and saturation, good show of free oil and strong odor in fresh samples.

Drill Stem Test #7 **3614-3634**

Times: 30-30-45-45

Blow: Strong

**Recovery: 1314' clean gassy oil
126' muddy gassy oil
(50% gas; 47% oil; 3% mud)**

**Pressures: ISIP 1092 psi
FSIP 1066878 psi
IFP 83-306 psi
FFP 300-501 psi
HSH 1811-1811 psi**

3634-3648' Dolomite, gray, finely crystalline, sucrosic, oomoldic, good vuggy and oomoldic porosity, good stain and saturation, good show of free oil and good odor in fresh samples.

Mai Oil Operations
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N/2-SE-SE-SE (620' FSL & 330' FEL)
Section 21-21s-12w
Stafford County, Kansas

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Drill Stem Test #8 **3634-3648**

Times: 30-30-45-45
Blow: Strong
Recovery: 174' clean gassy oil
126' muddy gassy oil
(50% gas; 45% oil; 5% mud)
Pressures: ISIP 1149 psi
FSIP 1120 psi
IFP 23-63 psi
FFP 82-129 psi
HSH 1837-1788 psi

3648-3663' Dolomite, gray, white, oomoldic, fair oomoldic porosity, fair stain and saturation, show of free oil and good odor in fresh samples.

Drill Stem Test #9 **3648-3663**

Times: 30-30-45-45
Blow: Weak
Recovery: 10' oil spotted mud
Pressures: ISIP 417 psi
FSIP 69 psi
IFP 19-57 psi
FFP 22-23 psi
HSH 1841-1762 psi

3663-3683' Dolomite, tan, fine and medium crystalline, fair inter-crystalline porosity, brown and dark brown stain, show of free oil (heavy tarry) and faint odor in fresh samples.

3684-3696' Dolomite, tan, oomoldic, fair oomoldic porosity, no shows.

3696-3715' Dolomite, white, gray, finely crystalline sucrosic, scattered pinpoint porosity, black/gray stain, show of free oil (tarry, black) and faint odor in fresh samples.

Mai Oil Operations
Hammeke 'B' #3
N/2-SE-SE-SE (620' FSL & 330' FEL)
Section 21-21s-12w
Stafford County, Kansas

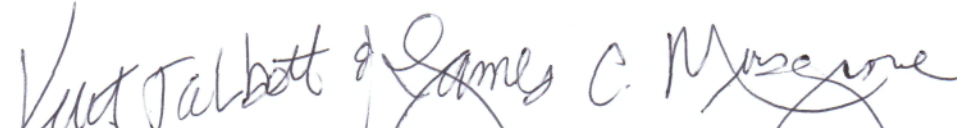
Page 7

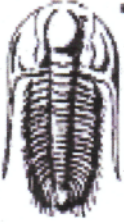
Rotary Total Depth	3715
Log Total Depth	3715

Recommendations:

The 5 1/2" production casing set and cemented on the Hammeke 'B' #3.

Respectfully yours,


Kurt Talbott and James C. Musgrove
Petroleum Geologists



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations
 8411 Preston Road Ste 800
 Dallas TX 75225
 ATTN: Kurt Talbot

21-21s-12w Stafford,KS
Hammeke B #3
 Job Ticket: 60277 **DST#: 1**
 Test Start: 2014.10.15 @ 03:24:00

GENERAL INFORMATION:

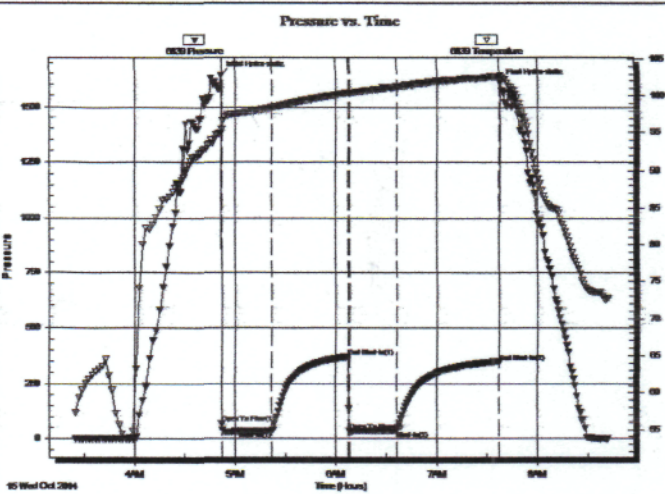
Formation: **LKC A-C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:52:00
 Time Test Ended: 08:42:00
 Interval: **3254.00 ft (KB) To 3300.00 ft (KB) (TVD)**
 Total Depth: 3300.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: S2
 Reference Elevations: 1851.00 ft (KB)
 1843.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6839

Inside

Press@RunDepth: 36.73 psig @ 3295.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.10.15 End Date: 2014.10.15 Last Calib.: 2014.10.15
 Start Time: 03:25:00 End Time: 08:42:00 Time On Btm: 2014.10.15 @ 04:51:30
 Time Off Btm: 2014.10.15 @ 07:37:30

TEST COMMENT: IFP 30 BOB in 2 minutes.
 ISI 45 No blow back.
 FFP 30 BOB instantly.
 FSI 60 No blow back.



PRESSURE SUMMARY

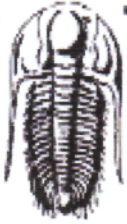
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1643.71	94.91	Initial Hydro-static
1	67.08	95.40	Open To Flow (1)
31	34.26	98.45	Shut-In(1)
76	372.04	100.39	End Shut-In(1)
77	33.56	100.34	Open To Flow (2)
105	36.73	101.20	Shut-In(2)
166	348.32	102.63	End Shut-In(2)
166	1609.79	102.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%	0.42
0.00	30' .GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations
 8411 Preston Road Ste 800
 Dallas TX 75225
 ATTN: Kurt Talbot

21-21s-12w Stafford,KS
Hammeke B #3
 Job Ticket: 60278 **DST#: 2**
 Test Start: 2014.10.15 @ 15:29:00

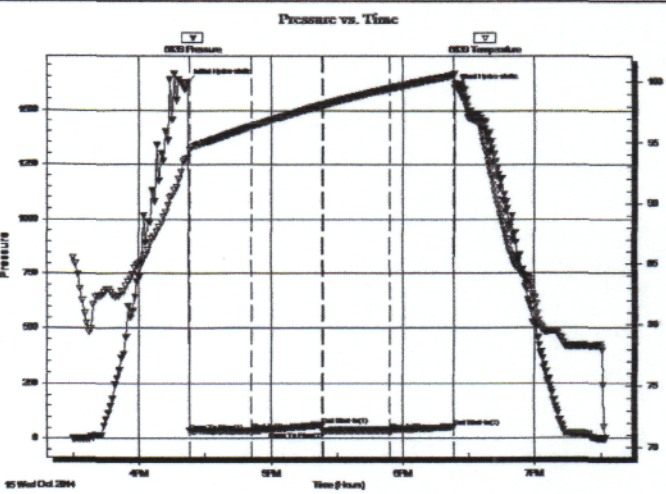
GENERAL INFORMATION:

Formation: **LKC E-G**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:22:00
 Time Test Ended: 19:32:00
 Interval: **3300.00 ft (KB) To 3345.00 ft (KB) (TVD)**
 Total Depth: 3345.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: S2
 Reference Elevations: 1851.00 ft (KB)
 1843.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6839 Outside
 Press@RunDepth: 37.59 psig @ 3340.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.10.15 End Date: 2014.10.15 Last Calib.: 2014.10.15
 Start Time: 15:30:00 End Time: 19:32:00 Time On Btrm: 2014.10.15 @ 16:22:00
 Time Off Btrm: 2014.10.15 @ 18:23:30

TEST COMMENT: FP 30 Weak building blow built to 1 1/2"
 ISI 30 No blow back.
 FFP 30 Weak blow built to 1"
 FSI 30 No blow back.



PRESSURE SUMMARY

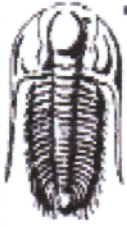
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1622.24	93.70	Initial Hydro-static
1	33.30	94.40	Open To Flow (1)
29	34.84	96.31	Shut-In(1)
61	62.28	98.09	End Shut-In(1)
62	32.83	98.10	Open To Flow (2)
92	37.59	99.46	Shut-In(2)
121	52.75	100.51	End Shut-In(2)
122	1602.51	100.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Very slightly oil spotted mud 100%	0.21

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations
 8411 Preston Road Ste 800
 Dallas TX 75225
 ATTN: Kurt Talbott

21-21s-12w Stafford,KS
Hammeke B #3
 Job Ticket: 60279 **DST#: 3**
 Test Start: 2014.10.16 @ 05:33:00

GENERAL INFORMATION:

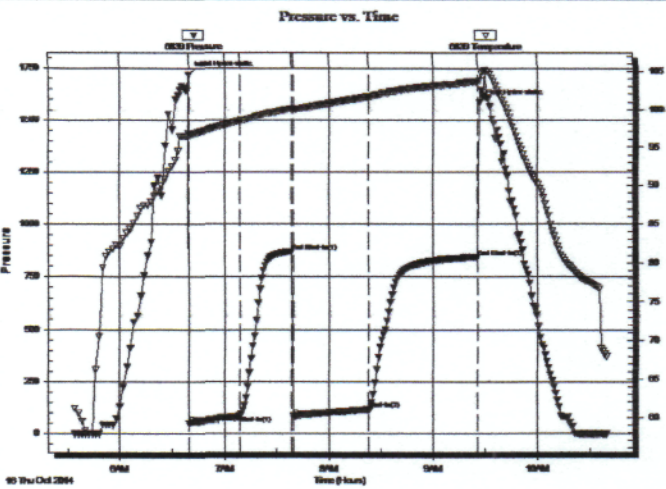
Formation: **LKC H - L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:40:00
 Time Test Ended: 10:39:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: S2
 Interval: **3370.00 ft (KB) To 3445.00 ft (KB) (TVD)**
 Total Depth: 3445.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Reference Elevations: 1851.00 ft (KB)
 1843.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6839

Inside

Press@RunDepth: 117.27 psig @ 3440.12 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.10.16 End Date: 2014.10.16 Last Calib.: 2014.10.16
 Start Time: 05:34:00 End Time: 10:39:30 Time On Btm: 2014.10.16 @ 06:39:30
 Time Off Btm: 2014.10.16 @ 09:26:30

TEST COMMENT: FP 30 Fair building blow built to 11"
 ISI 30 No blow back
 FFP 45 BOB in 29 min
 FSI 60 No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1719.46	96.76	Initial Hydro-static
1	50.25	96.55	Open To Flow (1)
30	86.70	98.39	Shut-In(1)
59	870.70	100.11	End Shut-In(1)
60	84.91	99.97	Open To Flow (2)
104	117.27	101.67	Shut-In(2)
166	843.24	103.61	End Shut-In(2)
167	1585.69	103.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
154.00	Very lightly oil spotted mud100%	2.16
0.00	125' GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations
 8411 Preston Road Ste 800
 Dallas TX 75225
 ATTN: Kurt Talbot

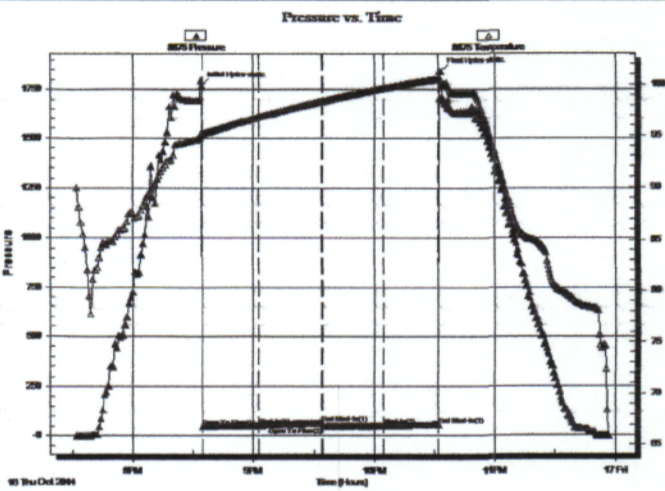
21-21s-12w Stafford,KS
Hammeke B #3
 Job Ticket: 60280 **DST#: 4**
 Test Start: 2014.10.16 @ 19:31:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:33:00
 Time Test Ended: 23:56:00
 Interval: **3454.00 ft (KB) To 3522.00 ft (KB) (TVD)**
 Total Depth: 3522.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: S2
 Reference Elevations: 1851.00 ft (KB)
 1843.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8875 Outside
 Press@RunDepth: 56.42 psig @ 3517.14 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.10.16 End Date: 2014.10.16 Last Calib.: 2014.10.17
 Start Time: 19:32:00 End Time: 23:56:30 Time On Btrm: 2014.10.16 @ 20:34:00
 Time Off Btrm: 2014.10.16 @ 22:33:00

TEST COMMENT: IFP 30 Weak surface blow died off after 27 minutes.
 ISI 30 No blow back.
 FFP 30 Weak surface blow died off after 22 minutes
 FSI 30 No blow back



PRESSURE SUMMARY

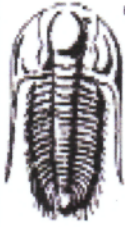
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1769.50	95.29	Initial Hydro-static
1	46.97	95.09	Open To Flow (1)
29	51.16	96.81	Shut-In(1)
61	66.05	98.41	End Shut-In(1)
61	45.80	98.42	Open To Flow (2)
91	49.25	99.66	Shut-In(2)
118	56.42	100.60	End Shut-In(2)
119	1843.58	100.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%	0.14

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations
 8411 Preston Road Ste 800
 Dallas TX 75225
 ATTN: Kurt Talbott

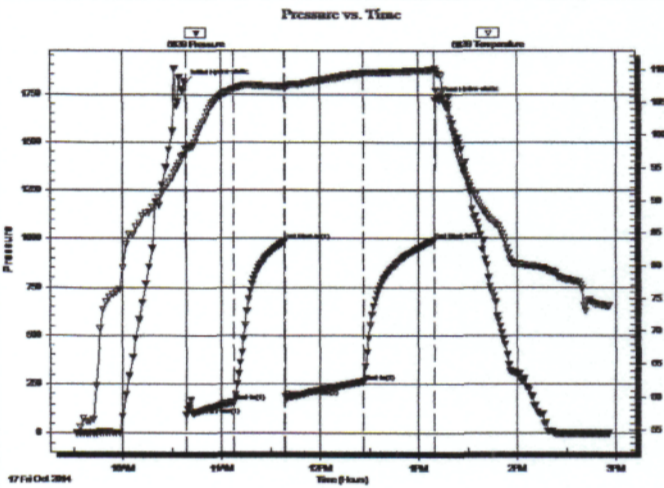
21-21s-12w Stafford,KS
Hammeke B #3
 Job Ticket: 60281 DST#: 5
 Test Start: 2014.10.17 @ 09:31:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:38:30
 Time Test Ended: 14:56:00
 Interval: **3512.00 ft (KB) To 3591.00 ft (KB) (TVD)**
 Total Depth: 3591.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: S2
 Reference Elevations: 1851.00 ft (KB)
 1843.00 ft (CF)
 KB to GRVCF: 8.00 ft

Serial #: 6839 **Inside**
 Press@RunDepth: 262.82 psig @ 3576.96 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.10.17 End Date: 2014.10.17 Last Calib.: 2014.10.17
 Start Time: 09:32:00 End Time: 14:56:00 Time On Btm: 2014.10.17 @ 10:38:00
 Time Off Btm: 2014.10.17 @ 13:10:00

TEST COMMENT: IFF 30 BOB in 4 minutes .
 ISI 30 No blow back
 FFP 45 BOB in 8 minutes.
 FSI 45 No blow back



PRESSURE SUMMARY

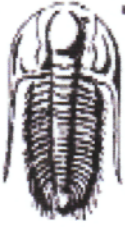
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1805.80	97.89	Initial Hydro-static
1	91.74	97.75	Open To Flow (1)
30	158.94	107.02	Shut-In(1)
61	987.26	107.35	End Shut-In(1)
61	183.99	107.13	Open To Flow (2)
109	262.82	109.47	Shut-In(2)
152	993.45	109.91	End Shut-In(2)
152	1720.78	110.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
252.00	Clean gassy oil 100%	3.53
348.00	GMCO Gas 35% Oil 60% Mud 5%	4.88
0.00	2646' GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations
 8411 Preston Road Ste 800
 Dallas TX 75225
 ATTN: Kurt Talbot

21-21s-12w Stafford,KS
Hammeke B #3
 Job Ticket: 60282 **DST#: 6**
 Test Start: 2014.10.17 @ 20:50:00

GENERAL INFORMATION:

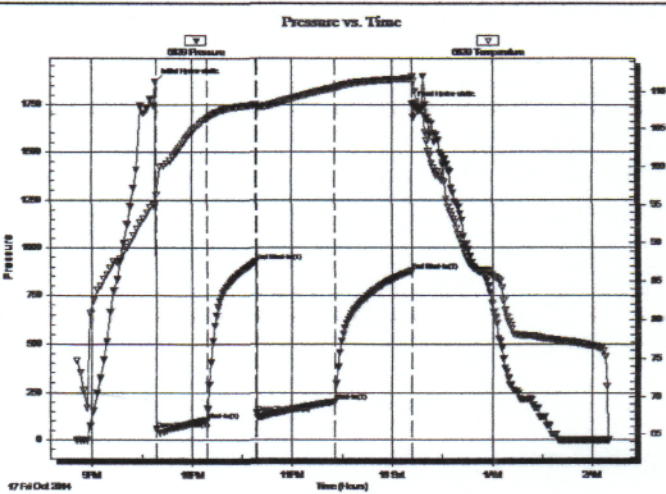
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:39:00
 Time Test Ended: 02:09:30
 Interval: **3584.00 ft (KB) To 3611.00 ft (KB) (TVD)**
 Total Depth: 3611.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: S2
 Reference Elevations: 1851.00 ft (KB)
 1843.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6839

Inside

Press@RunDepth: 201.41 psig @ 3606.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.10.17 End Date: 2014.10.18 Last Calib.: 2014.10.18
 Start Time: 20:51:00 End Time: 02:09:30 Time On Btrm: 2014.10.17 @ 21:38:00
 Time Off Btrm: 2014.10.18 @ 00:12:00

TEST COMMENT: IFP 30 BOB in 2 minutes.
 ISI 30 No blow back
 FFP 45 BOB in 4 minutes
 FSI 45 No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1868.12	95.05	Initial Hydro-static
1	57.65	96.36	Open To Flow (1)
31	105.50	106.37	Shut-In(1)
61	926.44	108.25	End Shut-In(1)
61	141.87	107.92	Open To Flow (2)
108	201.41	110.45	Shut-In(2)
154	878.34	111.66	End Shut-In(2)
154	1752.39	111.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
344.00	Clean gassy oil 100%	4.83
126.00	GMCO Gas 35% Oil60% mud5%	1.77
0.00	2800' GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations
 8411 Preston Road Ste 800
 Dallas TX 75225
 ATTN: Kurt Talbot

21-21s-12w Stafford,KS
Hammeke B #3
 Job Ticket: 60283 **DST#: 7**
 Test Start: 2014.10.18 @ 08:11:00

GENERAL INFORMATION:

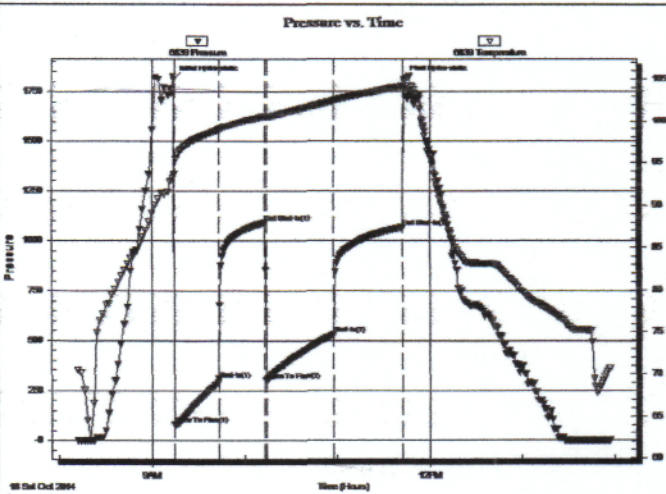
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:14:30
 Time Test Ended: 13:56:30
 Interval: **3614.00 ft (KB) To 3634.00 ft (KB) (TVD)**
 Total Depth: 3634.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: S2
 Reference Elevations: 1851.00 ft (KB)
 1843.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6839

Inside

Press@RunDepth: 531.40 psig @ 3629.00 ft (KB)
 Start Date: 2014.10.18 End Date: 2014.10.18
 Start Time: 08:12:00 End Time: 13:56:30
 Capacity: 5000.00 psig
 Last Calib.: 2014.10.18
 Time On Btrm: 2014.10.18 @ 09:14:00
 Time Off Btrm: 2014.10.18 @ 11:43:00

TEST COMMENT: IFP 30 BOB in 1 minute.
 ISI 30 No blow back
 FFP 45 BOB in 2 minutes.
 FSI 45 No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1811.69	93.65	Initial Hydro-static
1	83.10	93.65	Open To Flow (1)
29	306.75	98.89	Shut-In(1)
59	1092.19	100.63	End Shut-In(1)
60	300.86	100.50	Open To Flow (2)
104	531.40	102.43	Shut-In(2)
149	1066.03	104.18	End Shut-In(2)
149	1811.76	104.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1314.00	Clean gassy oil 50%gas 50%oil	18.43
126.00	GSMCO 50%Gas 47%Oil 3%Mud	1.77
0.00	3560' GIP	0.00

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. 854

Date	10-11-14	Sec.	21	Twp.	21	Range	12	County	Stafford	State	KS	On Location		Finish	11:45
------	----------	------	----	------	----	-------	----	--------	----------	-------	----	-------------	--	--------	-------

Location *1/4 mi Bend 11s to Rd 170 6E 1/4 N West into*

Lease	<i>Hammek B</i>	Well No.	<i>3</i>	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	<i>Sidwind</i>				
Type Job	<i>Surface</i>				
Hole Size	<i>12 1/4</i>	T.D.	<i>640'</i>	Charge To	<i>mai oil operations</i>
Csg.	<i>8 5/8</i>	Depth	<i>640'</i>	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.	<i>15'</i>	Shoe Joint	<i>15'</i>	Cement Amount Ordered	<i>400 @ 60/40 3% cc</i>
Meas Line		Displace	<i>39 3/4 Bx</i>	<i>2% gel 1/2 lb Flow Seal</i>	

EQUIPMENT

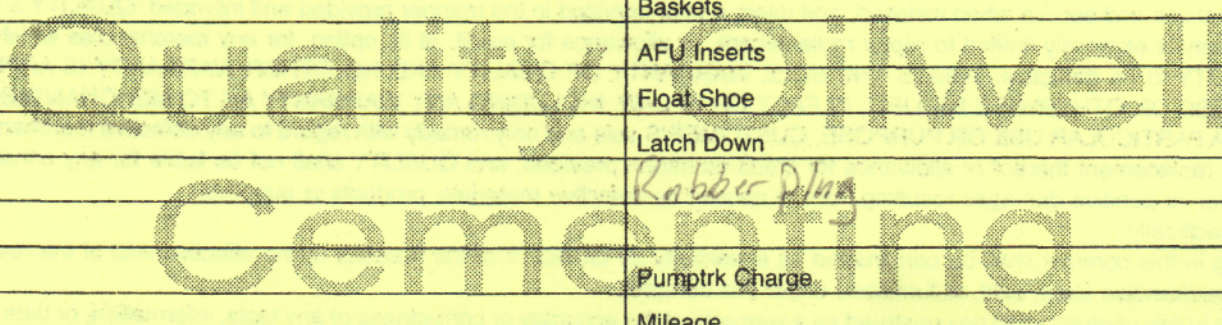
Pumptrk	<i>16</i>	No.		Cementer		Common
				Helper	<i>Bill</i>	Poz. Mix
Bulktrk	<i>4</i>	No.		Driver	<i>Lomien</i>	Gel.
				Driver		Calcium
Bulktrk	<i>Pu</i>	No.		Driver	<i>Rick</i>	
				Driver		

JOB SERVICES & REMARKS

Remarks:	<i>Cement did circulate</i>	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

		Guide Shoe	
		Centralizer	
		Baskets	
		AFU Inserts	
		Float Shoe	
		Latch Down	
		<i>Rubber Plug</i>	
		Pumptrk Charge	
		Mileage	



X Signature *Jay [unclear]*

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. 822

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-20-2014	22	21	12	STAFFORD	KS.		9:30 AM
Lease HAMMER "B"				Well No. #3		Owner	
Contractor SOUTHWIND DRILLING RIG #3 "JAY"				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 STRING				Charge To MAI OIL OPERATIONS INC			
Hole Size 7 7/8 ATD. 3715 & LTD				Street			
Csg. 5 1/2 New				Depth @ 3705			
Tbg. Size 14 # CSG.				Depth		City State	
Tool LATCH DOWN PLUG				Depth @ 3687		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg. 18.25				Shoe Joint 18.25		Cement Amount Ordered 17.5 sx @ 10% SALT	
Meas Line 8 5/8 @ 640'				Displace 90.00 BAL		2% GRM 1/4" FLO-SEAL	
EQUIPMENT				Common			
Pumptrk 17	No.	Cementer	GLENN G		Poz. Mix		
		Helper	RODY B				
Bulktrk 15	No.	Driver	RYAN M		Gel.		
		Driver					
Bulktrk	No.	Driver			Calcium		
		Driver					
JOB SERVICES & REMARKS				Hulls			
Remarks:				Salt			
Rat Hole 30 SX				Flowseal			
Mouse Hole				Kol-Seal			
Centralizers 123, 567, 9 10 11, 13 14 15				Mud CLR 48 1,000 GAL			
Baskets				CFL-117 or CD110 CAF 38			
D/V or Port Collar 640' OF 8 5/8 SURFACE				Sand			
SET 5 1/2 @ 3				Handling			
Received CIRC. DRIP AFU "BALL"				Mileage			
CIRCULATE 3/4 HR				FLOAT EQUIPMENT			
Pump 1000 GAL MUD CLR 48.				Guide Shoe			
Plug Retool w/ 30 SX.				Centralizer TURBO X 12			
Mixed 145 SX DOWN-HOLE.				Baskets			
Clear-Lines, Release LATCH DN.				AFU Inserts			
Plug.				Float Shoe X 1			
Displace a TOTAL OF 90 BAL				Latch Down X 1			
H ₂ O LAND PLUG @ 1500 #				Pumptrk Charge			
HAD 700 # LIFT PRESSURE.				Mileage			
Release Pressure & AFU-PLUG (HELD)						Tax	
Mix slurry @ 14-14.8 LB.						Discount	
THANKS						Total Charge	
X Signature KAW							