



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1070381  
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: \_\_\_\_\_

1070381

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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)* \_\_\_\_\_

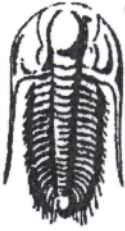
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Linsner Unit 1
Doc ID	1070381

Tops

Name	Top	Datum
Anhydrite	849	+1025
Topeka	2806	-932
Heebner	3039	-1165
Toronto	3050	-1176
Brown Lime	3102	-1228
Lansing	3112	-1238
Base Kansas City	3329	-1455
Arbuckle	3356	-1482



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

Mai Oil Operations  
8411 Preston Rd  
Dallas TX 75225 +5520  
ATTN: Allen Bangert

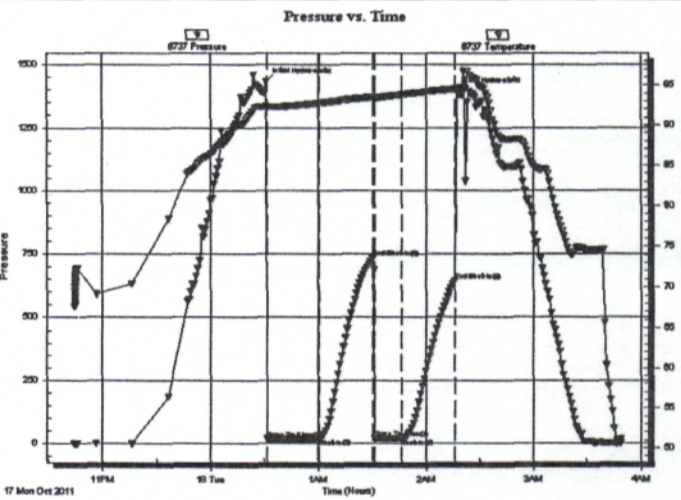
**20-17s-14w Barton,KS**  
**Linsner Unit #1**  
Job Ticket: 44854      **DST#: 1**  
Test Start: 2011.10.17 @ 22:44:30

**GENERAL INFORMATION:**

Formation: **Topeka**  
Deviated: **No** Whipstock:                      ft (KB)  
Time Tool Opened: 00:31:30  
Time Test Ended: 03:50:30  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Jeff Brown  
Unit No: 44  
Interval: **2978.00 ft (KB) To 3000.00 ft (KB) (TVD)**  
Total Depth: 3000.00 ft (KB) (TVD)  
Reference Elevations: 1874.00 ft (KB)  
1866.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good  
KB to GR/CF: 8.00 ft

**Serial #: 8737**      **Outside**  
Press@RunDepth: 19.74 psig @ 2980.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.10.17      End Date: 2011.10.18      Last Calib.: 2011.10.18  
Start Time: 22:44:31      End Time: 03:49:30      Time On Btm: 2011.10.18 @ 00:31:00  
Time Off Btm: 2011.10.18 @ 02:17:00

**TEST COMMENT:** IFF-Weak blow built to 1 3/4 in  
ISI-Dead no blow back  
FFP-Dead no blow  
FSI-Dead no blow back



**PRESSURE SUMMARY**

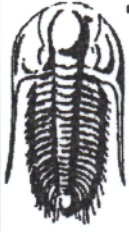
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1431.10	92.35	Initial Hydro-static
1	17.18	92.17	Open To Flow (1)
30	18.14	92.73	Shut-In(1)
60	735.84	93.49	End Shut-In(1)
61	18.58	93.33	Open To Flow (2)
75	19.74	93.76	Shut-In(2)
105	642.88	94.48	End Shut-In(2)
106	1395.01	94.58	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
20.00	Mud with a scum of oil	0.28

**Gas Rates**

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



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Mai Oil Operations  
8411 Preston Rd  
Dallas TX 75225 +5520  
ATTN: Allen Bangert

**20-17s-14w Barton,KS**  
**Linsner Unit #1**  
Job Ticket: 44855 **DST#: 2**  
Test Start: 2011.10.18 @ 13:18:04

**GENERAL INFORMATION:**

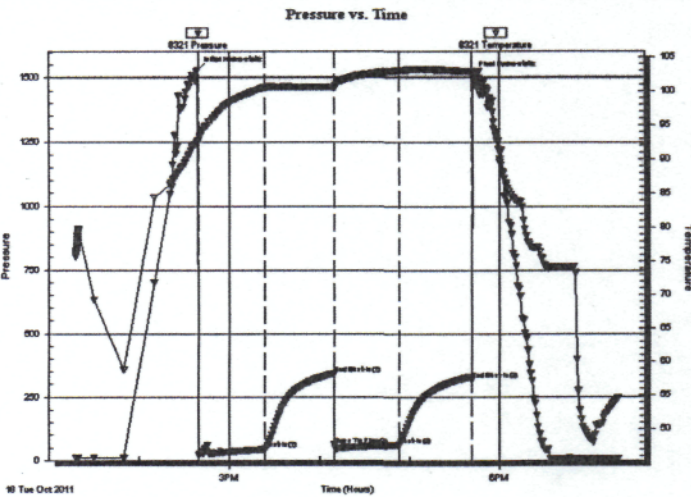
Formation: **Lansing-A**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 14:39:34  
Time Test Ended: 19:20:34  
Interval: **3108.00 ft (KB) To 3120.00 ft (KB) (TVD)**  
Total Depth: 3120.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Jeff Brown  
Unit No: 44  
Reference Elevations: 1874.00 ft (KB)  
1866.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8321**

**Inside**

Press@RunDepth: 60.45 psig @ 3109.00 ft (KB)  
Start Date: 2011.10.18 End Date: 2011.10.18  
Start Time: 13:18:05 End Time: 19:19:34  
Capacity: 8000.00 psig  
Last Calib.: 2011.10.18  
Time On Btm: 2011.10.18 @ 14:39:04  
Time Off Btm: 2011.10.18 @ 17:42:34

**TEST COMMENT:** IFF-Good blow BOB in 11 min  
ISI-Weak surface blow back died out in 10 min  
FFP-Good blow BOB in 29 min  
FSI-Weak surface blow back died out in 5 min



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1529.34	92.65	Initial Hydro-static
1	22.36	92.66	Open To Flow (1)
45	44.30	100.50	Shut-In(1)
91	341.58	100.57	End Shut-In(1)
91	61.25	100.44	Open To Flow (2)
134	60.45	102.99	Shut-In(2)
183	316.02	102.85	End Shut-In(2)
184	1510.69	102.71	Final Hydro-static

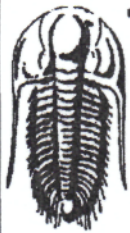
**Recovery**

Length (ft)	Description	Volume (bbl)
63.00	MW with a scum of oil 20%M80%W	0.88
26.00	SOCGWM 15%G5%O30%W50%M	0.36
5.00	HOCGWM 10%G35%O20%W35%M	0.07

\* Recovery from multiple tests

**Gas Rates**

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



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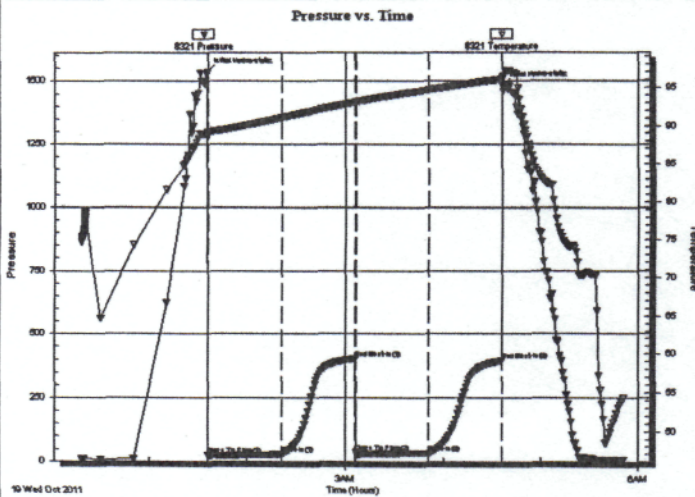
**20-17s-14w Barton,KS**  
**Linsner Unit #1**  
Job Ticket: 44856      **DST#: 3**  
Test Start: 2011.10.19 @ 00:18:22

**GENERAL INFORMATION:**

Formation: **Lansing-B&C**  
Deviated: No Whipstock: ft (KB)  
Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 01:35:52  
Tester: Jeff Brown  
Time Test Ended: 05:51:22  
Unit No: 44  
Interval: **3126.00 ft (KB) To 3150.00 ft (KB) (TVD)**  
Reference Elevations: 1874.00 ft (KB)  
Total Depth: 3150.00 ft (KB) (TVD) 1866.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

**Serial #: 8321      Inside**  
Press@RunDepth: 34.07 psig @ 3128.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2011.10.19 End Date: 2011.10.19 Last Calib.: 2011.10.19  
Start Time: 00:18:23 End Time: 05:51:22 Time On Btm: 2011.10.19 @ 01:35:22  
Time Off Btm: 2011.10.19 @ 04:36:22

**TEST COMMENT:** IFF-Fair blow built to 5 1/2 in  
ISI-Dead no blow back  
FFP-Fair blow built to 6 in  
FSI-Dead no blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1537.41	89.18	Initial Hydro-static
1	25.60	88.63	Open To Flow (1)
46	28.00	91.01	Shut-In(1)
91	402.50	93.02	End Shut-In(1)
91	37.09	92.91	Open To Flow (2)
136	34.07	94.68	Shut-In(2)
181	393.88	96.07	End Shut-In(2)
181	1484.42	96.39	Final Hydro-static

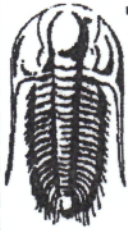
**Recovery**

Length (ft)	Description	Volume (bbl)
28.00	VM With a scum of oil 30%W70%M	0.39
3.00	Gassy Oil	0.04
0.00	63-GIP	0.00

\* Recovery from multiple tests

**Gas Rates**

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



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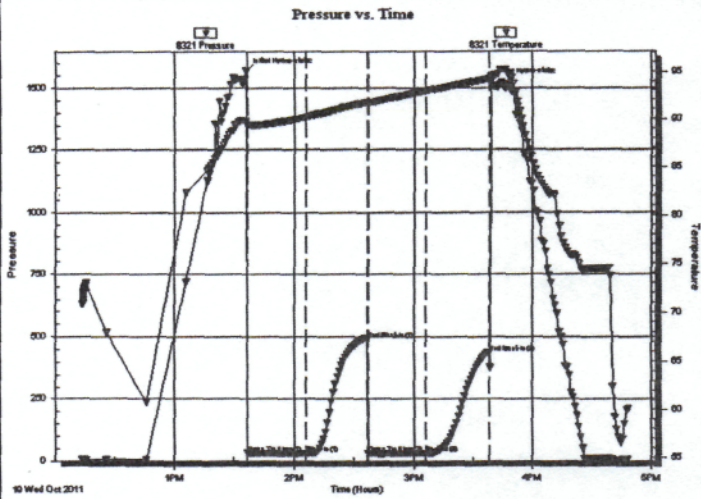
**20-17s-14w Barton,KS**  
**Linsner Unit #1**  
 Job Ticket: 44857      **DST#: 4**  
 Test Start: 2011.10.19 @ 12:13:55

**GENERAL INFORMATION:**

Formation: **LKC-E-F-G**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 13:36:25 Tester: Jeff Brown  
 Time Test Ended: 16:48:25 Unit No: 44  
 Interval: **3164.00 ft (KB) To 3200.00 ft (KB) (TVD)** Reference Elevations: 1874.00 ft (KB)  
 Total Depth: 3200.00 ft (KB) (TVD) 1866.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

**Serial #: 8321 Inside**  
 Press@RunDepth: 29.64 psig @ 3170.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.10.19 End Date: 2011.10.19 Last Calib.: 2011.10.19  
 Start Time: 12:13:56 End Time: 16:48:25 Time On Btm: 2011.10.19 @ 13:35:55  
 Time Off Btm: 2011.10.19 @ 15:38:55

**TEST COMMENT:** IFP-Weak blow built to 1 1/4 in  
 ISI-Dead no blow back  
 FSI-Weak blow built to 1 in  
 FFP-Dead no blow back

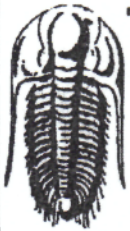


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1568.34	89.83	Initial Hydro-static
1	31.83	89.32	Open To Flow (1)
30	29.03	90.23	Shut-In(1)
61	488.05	91.74	End Shut-In(1)
61	30.38	91.68	Open To Flow (2)
90	29.64	92.92	Shut-In(2)
122	434.46	94.20	End Shut-In(2)
123	1524.56	94.47	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
15.00	Mud with a scum of oil	0.21

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

\* Recovery from multiple tests



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Mai Oil Operations  
 8411 Preston Rd  
 Dallas TX 75225 +5520  
 ATTN: Allen Bangert

**20-17s-14w Barton,KS**  
**Linsner Unit #1**  
 Job Ticket: 44658      DST#: 5  
 Test Start: 2011.10.20 @ 03:17:19

**GENERAL INFORMATION:**

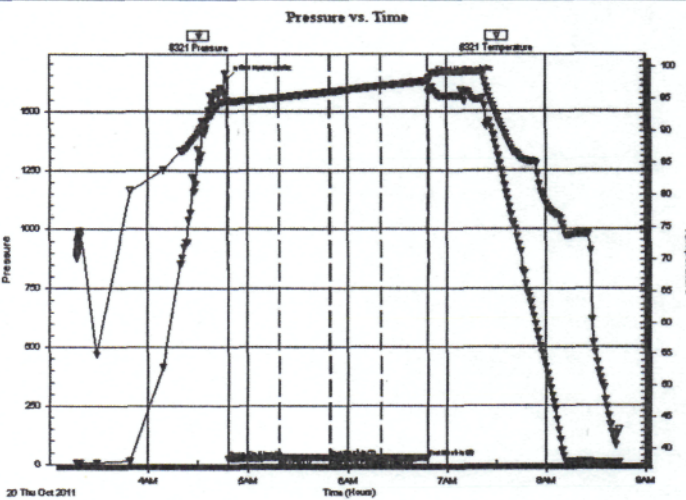
Formation: **LKC-I-J-K**  
 Deviated: **No** Whipstock:                      ft (KB)  
 Time Tool Opened: 04:48:19  
 Time Test Ended: 08:44:49  
 Interval: **3280.00 ft (KB) To 3330.00 ft (KB) (TVD)**  
 Total Depth: **3330.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole (Reset)**  
 Tester: **Jeff Brown**  
 Unit No: **44**  
 Reference Elevations: **1874.00 ft (KB)**  
    **1866.00 ft (CF)**  
    KB to GR/CF: **8.00 ft**

**Serial #: 8321**

**Inside**

Press@RunDepth: **25.54 psig @ 3320.00 ft (KB)**  
 Start Date: **2011.10.20** End Date: **2011.10.20** Capacity: **8000.00 psig**  
 Start Time: **03:17:20** End Time: **08:43:49** Last Calib.: **2011.10.20**  
 Time On Btm: **2011.10.20 @ 04:47:49**  
 Time Off Btm: **2011.10.20 @ 06:49:19**

TEST COMMENT: IFP-Weak blow built to 1 in  
 ISI-Dead no blow back  
 FFP-Dead no blow  
 FSI-Dead no blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1633.52	94.91	Initial Hydro-static
1	24.48	94.66	Open To Flow (1)
31	26.44	95.19	Shut-In(1)
61	28.85	96.09	End Shut-In(1)
62	27.61	96.10	Open To Flow (2)
92	25.54	97.00	Shut-In(2)
121	26.59	97.77	End Shut-In(2)
122	1629.68	98.17	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
3.00	MUD	0.04

\* Recovery from multiple tests

**Gas Rates**

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





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TESTING, INC**

**DRILL STEM TEST REPORT**

Mai Oil Operations  
8411 Preston Rd  
Dallas TX 75225 +5520  
ATTN: Allen Bangert

**20-17s-14w Barton,KS**  
**Linsner Unit #1**  
Job Ticket: 44859      DST#: 6  
Test Start: 2011.10.20 @ 14:47:30

**GENERAL INFORMATION:**

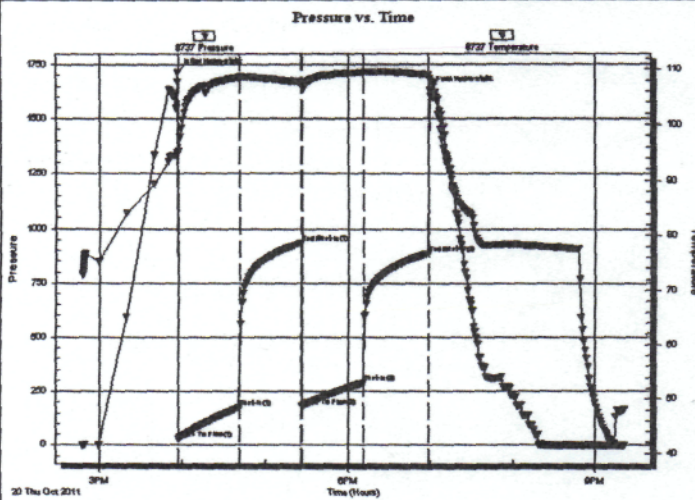
Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 15:57:00  
Time Test Ended: 21:21:00  
Interval: **3352.00 ft (KB) To 3370.00 ft (KB) (TVD)**  
Total Depth: 3370.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Jeff Brown  
Unit No: 44  
Reference Elevations: 1874.00 ft (KB)  
1866.00 ft (CF)  
KB to GRVCF: 8.00 ft

**Serial #: 8737**

**Outside**

Press@RunDepth: 289.00 psig @ 3353.00 ft (KB)  
Start Date: 2011.10.20 End Date: 2011.10.20  
Start Time: 14:47:31 End Time: 21:21:00  
Capacity: 8000.00 psig  
Last Calib.: 2011.10.20  
Time On Btm: 2011.10.20 @ 15:56:30  
Time Off Btm: 2011.10.20 @ 18:59:00

**TEST COMMENT:** IFP-Stong blow BOB in 2 3/4 min  
ISI-Good blow back BOB in 24 min  
FFP-Good blow BOB in 5 1/2 min  
FSI-Weak blow back built to 1 in died back to a 1/4 in



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1715.49	94.93	Initial Hydro-static
1	29.52	95.18	Open To Flow (1)
45	176.08	108.54	Shut-In(1)
90	936.44	107.64	End Shut-In(1)
90	181.50	107.17	Open To Flow (2)
135	289.00	109.36	Shut-In(2)
182	886.49	108.95	End Shut-In(2)
183	1628.43	108.28	Final Hydro-static

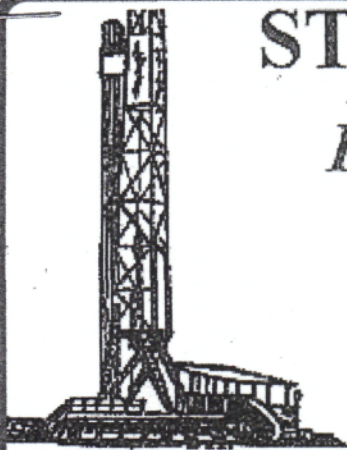
**Recovery**

Length (ft)	Description	Volume (bbl)
69.00	SOCGM 10%G5%O85%M	0.97
708.00	Gassy Oil 30%O70%O	9.93
0.00	646- GIP	0.00

\* Recovery from multiple tests

**Gas Rates**

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



# STEVEN P. MURPHY, P.G.

*Petroleum Geologist (KS #228)*

Cell 620.639.3030

Fax 785.387.2400

RR#1, Box 69

Otis, Kansas 67565

geomurphy@gbta.net

Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Linsner Unit #1  
Location: Barton County  
License Number: API #15-009-25618-00-00  
Spud Date: 10/13/11  
Surface Coordinates: 1500' FSL & 2780' FEL (Approx. SE SE NE SW)  
Section 20-Township 17 South-Range 14 West  
Bottom Hole Coordinates: Vertical well with minimal deviation, same as above  
Ground Elevation (ft): 1866'      K.B. Elevation (ft): 1874'  
Logged Interval (ft): 2700'      To: TD      Total Depth (ft): 3440'  
Formation: Topeka thru Arbuckle  
Type of Drilling Fluid: Chemical - Andy's (Mud Engineer - Dennis Rector)  
Region: Kansas  
Drilling Completed: 10/21/11  
Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

#### OPERATOR

Company: Mai Oil Operations, Inc.  
Address: 8411 Preston Rd  
Suite 800  
Dallas, TX 75225-5520

#### GEOLOGIST

Name: Steven P. Murphy, PG  
Company: Consulting Petroleum Geologist (KS License #228)  
Address: 3365 County Rd 390  
Otis, KS 67565  
Cell Phone No: 620-639-3030

### LogTops (Datum)

The open-hole logging was performed by Jeff Luebbers with Superior Well Services (Hays, KS shop). Logs included Sonic, Compensated Neutron/Compensated Density, Dual Induction & Microlog.

Formation tops and datums from the open-hole logs include the following:

Anhydrite Top - 849 (+1025)  
Anhydrite Base - 876 (+998)  
Topeka - 2806 (-932)  
Heebner - 3039 (-1165)  
Toronto - 3050 (-1176)  
Br. Lime - 3102 (-1228)  
Lansing - 3112 (-1238)  
Muncie Crk - 3253 (-1379)  
BKC -3329 (-1455)  
Arbuckle - 3356 (-1482)

### DRILL STEM TESTS #1-3

The following drillstem tests were performed by Jeff Brown w/Trilobite Testing from the Hays, KS shop:

DST #1 2978-3000 (Topeka)

30:30:15:30

IF: Wk blow built to 1-3/4", no return

FF: No blow, no return

Recovery: 20' Mud w/scum of oil

IHP: 1431 FHP: 1395

IFP: 17-18 ISIP: 736

FFP: 19-20 FSIP: 643

BHT - 95 F

DST #2 3108-3120 (LKC "A")

45:45:45:45

IF: BOB in 11 min, wk return died in 10 min

BOB in 29 min, wk return died in 5 min

Recovery: 315' GIP, 5' HOCGWM (10% G, 35% O, 20% W, 35% M), 26' SOCGWM (15% G, 5% O, 30% W, 50% M), 63' MW w/scum of oil (80% W, 20% M)

BHT - 103 F

Chlorides - 110,000 ppm

DST #3 3126-3150 (LKC "B & C")

45:45:45:45

IF: Blow built to 5-1/2", no return

FF: Blow built to 6", no return

Recovery: 63' GIP, 3' Gsy Oil (95% O, 5% G), 28' WM w/scum of oil (30% W, 70% M)

IHP: 1537 FHP: 1484

IFP: 26-28 ISIP: 403

FFP: 37-34 FSIP: 394

BHT - 96 F

Oil Gravity - 38

Chlorides - 69,000 ppm

DRILL STEM TESTS #4-6

DST #4 3164-3200 (LKC "E, F, G")

30:30:30:30

IF: Wk blow built to 1-1/4", no return

FF: Wk blow built to 1", no return

Recovery: 15' Mud w/scum of oil

IHP: 1568 FHP: 1525

IFP: 32-29 ISIP: 488

FFP: 30-30 FSIP: 434

BHT - 94 F

DST #5 3280-3330 (LKC "I,J,K")

30:30:30:30

IF: Wk blow built to 1", no return

FF: No blow, no return

Recovery: 3' Mud

IHP: 1634 FHP: 1630

IFP: 24-26 ISIP: 29

FFP: 28-26 FSIP: 27

BHT - 98 F

DST #6 3352-3370 (Arbuckle)

45:45:45:45

IF: BOB in 3 min, BOB on return in 24 min

FF: BOB in 5-1/2 min, return built to 1"

Recovery: 646' GIP, 69' SOCGM (10% G, 5% O, 85% M), 708' Gassy Oil (30% G, 70% O)

IHP: 1715 FHP: 1628

IFP: 30-176 ISIP: 936

FFP: 182-289 FSIP: 886

BHT - 108 F

Oil Gravity - 37

COMMENTS




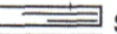
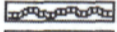
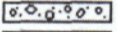

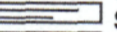
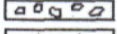

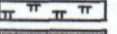

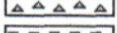


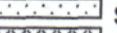


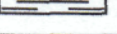

The Linsner Unit #1 was drilled by Southwind Drilling Rig #3 (Tool pusher Jay Krier).

Based on the results of DST #6, and log & sample analysis, it was recommended that casing be set to produce the Arbuckle.

Respectfully submitted,

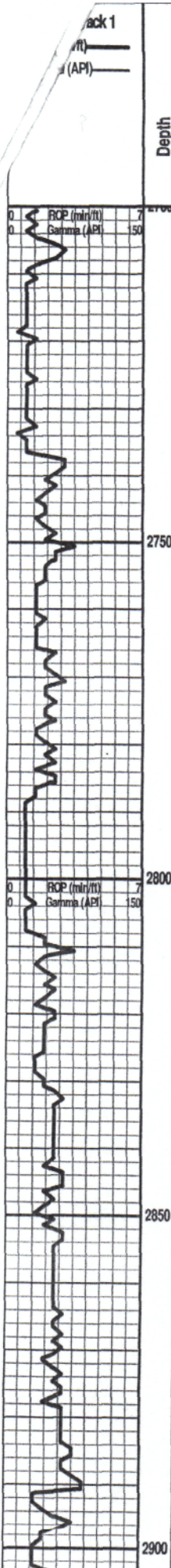
Steven P. Murphy, PG  
Consulting Petroleum Geologist  
(KS Licence #228)

ROCK TYPES

 Anhy	 Coal	 Lmst	 Shcol
 Bent	 Congl	 Meta	 Shgy
 Brec	 Dol	 Mrst	 Sltst
 Cht	 Gyp	 Salt	 Ss
 Clyst	 Igne	 Shale	 Till

OTHER SYMBOLS

<b>OIL SHOW</b>	 Dead	<b>INTERVAL</b>	<b>EVENT</b>
 Even	 Gas	 Core	 Conn
 Spotted		 Dst	 Rft
 Ques			 Sidewall



Depth	Lithology	Oil Shows	Geological Descriptions
2700			
2750			
2800			
2850			
2900			

The following are sample formation tops & associated datums (with KB of 1874'). Please refer to the main header for electric log tops & datums:

NOTES:

8-5/8" Surface casing set @ 856' w/350 sacks cement  
 Deviation survey @ 856' - 1/2 degree

Top Anhydrite - 846 (+1028)  
 Base Anhydrite - 883 (+991)

TOPEKA 2808 (-934)

LS: crm-tan-gry, sl foss, dense, NS

Sh: gry

Sh: gry

LS: crm-gry, vfxln, foss, dense, NS

LS: crm-gry, vfxln, foss, dense, sl chalky, NS

LS: crm-gry, vfxln, foss, dense, sl chalky, NS

LS: crm-tan, gry, vfxln, foss, dense, NS

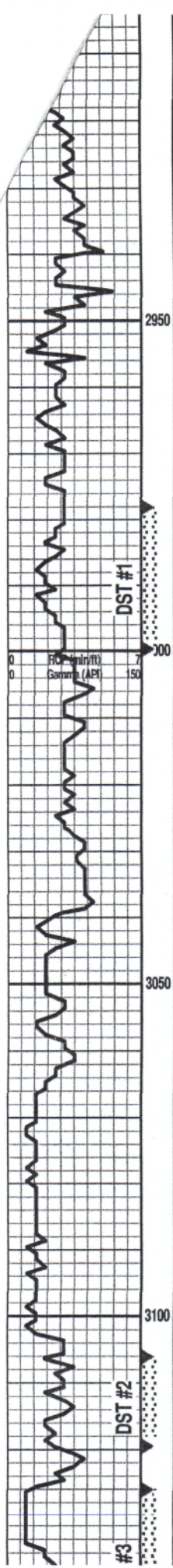
LS: wht-tan, gry, vfxln, foss, dense, NS

LS: wht-tan, gry, vfxln, foss, dense, chalky, NS

LS: wht-tan, gry, vfxln, foss, dense, chalky, NS

Sh: blk

Sh: gry-red



LS: wht-tan-gry, vfxln, foss, dense, NS

SH: gry-grn

LS: crm-tan, vfxln, sl foss, sl chalky, dense, NS

LS: crm-tan, vfxln, sl foss, chalky, dense, NS

SH: gry-grn

SH: blk-gry-grn

LS: crm-gry, fxdn, foss, sl chalky, dense, NS

LS: crm-tan-gry, vfxln, foss, chalky, dense, NS

LS: crm-tan-gry, vfxln, foss, chalky, dense, NS

● LS: wht-tan, fxdn, mostly dense, some fr-gd inxln por, fsfo, fr even sat stn, gd odor

● LS: wht-tan, fxdn, fr-gd inxln & vug por, gsfo, even sat stn, str odor

○ LS: crm-tan, vfxln, dense, chalky, sl stn, nsfo, no odor

○ LS: crm-tan, vfxln, dense, sl chalky, minor stn, nsfo, no odor

LS: crm-tan, vfxln, dense, NS

SH: blk

LS: tan-brn, vfxln, sl foss, dense, NS

SH: gry-red

SH: gry-red

SH: gry-red

LS: brn, vfxln, dense, NS

SH: gry-grn-maroon

● LS: crm-tan, fxdn, sl foss, oolic, fr-gd vug por, fsfo, even sat stn, str odor

● LS: crm-tan, fxdn, sl foss, sl chalky, oolic, gd vug por, gsfo, even sat stn, str odor

Strap pipe @ 3000' - 0.06' long to board  
Survey @ 3000' - 1-1/2 degree

**DST #1 2978-3000 (Topeka)**  
30:30:15:30  
IF: Wk blow built to 1-3/4", no return  
FF: No blow, no return  
Recovery: 20' Mud w/scum of oil  
IHP: 1431 FHP: 1395  
IFP: 17-18 ISIP: 736  
FFP: 19-20 FSIP: 643  
BHT - 95 F

CFS @ 3007

HEEBNER 3039 (-1165)

TORONTO 3052 (-1178)

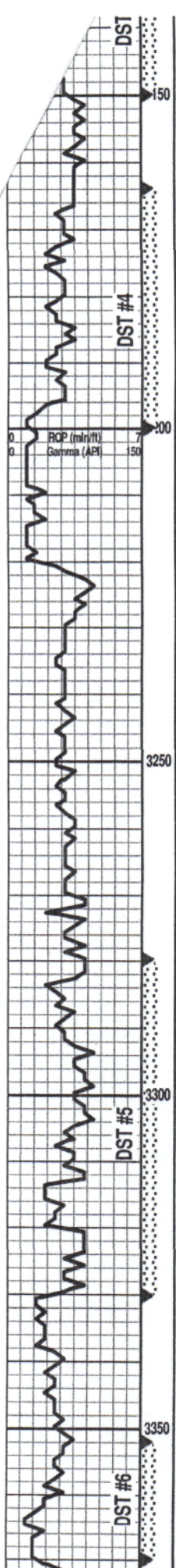
**DST #2 3108-3120 (LKC "A")**  
45:45:45:45  
IF: BOB in 11 min, wk return died in 10 min  
BOB in 29 min, wk return died in 5 min  
Recovery: 315' GIP, 5' HOCGWM (10% G, 35% O, 20% W, 35% M), 26' SOCGWM (15% G, 5% O, 30% W, 50% M), 63' MW w/scum of oil (80% W, 20% M)  
BHT - 103 F  
Chlorides - 110,000 ppm

BROWN LIME 3103 (-1229)

LANSING 3115 (-1241)

CFS @ 3127

**DST #3 3126-3150 (LKC "B & C")**  
45:45:45:45  
IF: Blow built to 5-1/2", no return  
FF: Blow built to 6", no return



- LS: wh-tan, f-vfxln, dense, sl chalky, pr inxln por, ssfo, spotty str, fr odor
- LS: wht-gry, vfxln, dense, NS
- LS: wht-gry, vfxln, dense, NS
- SH: gry
- LS: crm-tan-gry, fxln, oolic, sl foss, gd vug por, ssfo, spotty golden str, fr odor
- LS: wh-tan, fxln, foss, gd inxln & vug por, gsfo, even sat str, str odor
- LS: crm-tan, fxln, foss, gd inxln & vug por, gsfo, even sat str (gsy on brk)
- LS: wht-tan-gry, fxln, oolic, gd vug por, fsfo, spotty golden str, str odor
- LS: crm-tan, fxln, oolic, fr inxln por, sl chalky, vssfo, spotty lite str, sl odor
- LS: crm-tan, fxln, oolic, fr inxln por, sl chalky, vssfo, spotty lite str, sl odor
- LS: crm-tan, vfxln, sl chalky, dense, NS
- LS: crm-tan-gry, vfxln, chalky, sl foss, dense, NS
- LS: crm-tan-gry, vfxln, chalky, sl foss, dense, NS
- LS: wht-tan-gry, vfxln, chalky, dense, NS (sl odor)
- SH: blk-gry
- LS: crm-tan-brn, vfxln, sl chalky, mostly dense, rare pr-fr inxln por, vssfo, spotty lite str, fr odor
- SH: gry-grm-brn
- LS: wh-tan, fxln oolitic, mostly dense, rare fr inxln por, ssfo, even sat str, str odor
- SH: gry-grm-brn
- LS: crm-tan, fxln, chalky, sl foss, mostly dense, rare pr-fr inxln por, vssfo on brk, spotty str, str odor
- LS: wht-tan, vfxln, ool, chalky, dense, nsfo, spotty blk str, fr odor
- SH: gry-grm-maroon
- LS: wh-tan, fxln, oolic, fr int-ool & vug por, ssfo, spotty dead str, fr odor
- LS: wht-tan, vfxln, dense, nsfo, minor spotty str, sl odor
- SH: gry-grm-red-brn
- Multicolored chert & shales
- Multicolored chert & shales
- DOL: wht-tan, f-mxln, rhombic, fr-gd inxln & vug por, fsfo, even sat str, str odor

CFS @ 3197

CFS @ 3207

Recovery: 63' GIP, 3' Gsy Oil (95% O, 5% G),  
 28' WM w/scum of oil (30% W, 70% M)  
 IHP: 1537 FHP: 1484  
 IFP: 26-28 ISIP: 403  
 FFP: 37-34 FSIP: 394  
 BHT - 96 F  
 Oil Gravity - 38  
 Chlorides - 69,000 ppm

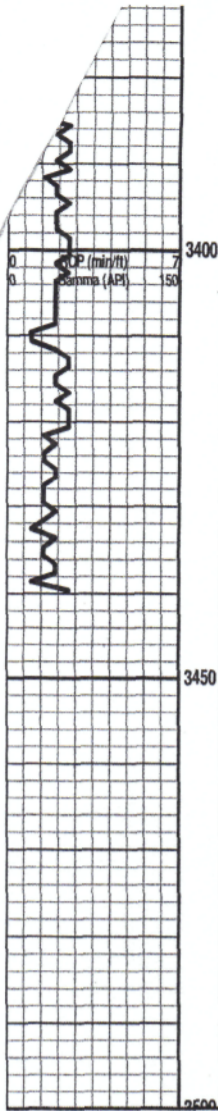
DST #4 3164-3200 (LKC "E, F, G")  
 30:30:30:30  
 IF: Wk blow built to 1-1/4", no return  
 FF: Wk blow built to 1", no return  
 Recovery: 15' Mud w/scum of oil  
 IHP: 1568 FHP: 1525  
 IFP: 32-29 ISIP: 488  
 FFP: 30-30 FSIP: 434  
 BHT - 94 F

**MUNCIE CREEK 3253 (-1379)**

DST #5 3280-3330 (LKC "I, J, K")  
 30:30:30:30  
 IF: Wk blow built to 1", no return  
 FF: No blow, no return  
 Recovery: 3' Mud  
 IHP: 1634 FHP: 1630  
 IFP: 24-26 ISIP: 29  
 FFP: 28-26 FSIP: 27  
 BHT - 98 F

**BKC 3331 (-1457)**

**ARBUCKLE 3361 (-1487)**



- DOL: wht-tan, f-cxln, rhombic, fr-gd inxln & vug por, fsfo, even sat stn, str odor
- DOL: as above w/multic chert
- DOL: wht-tan, m-cxln, rhombic, gd inxln & vug por, fsfo, even sat stn, str odor
- DOL: wht-tan, f-mxln, rhombic in pt, much dense, some fr-gd inxln por, sssb, spotty stn, fr odor
- DOL: wht-tan, f-mxln, rhombic in pt, mostly dense, rare fr-gd inxln por, vsslb, spotty stn w/gilsonite, fr odor
- DOL: as above
- DOL: as above mostly barren w/gilsonite

RTD - 3440'  
LTD - 3439'

DST #6 3352-3370 (Arbuckle)  
45:45:45  
IF: BOB in 3 min, BOB on return in 24 min  
FF: BOB in 5-1/2 min, return built to 1"  
Recovery: 646' GIP, 69' SOCGM (10% G, 5% O, 85% M), 708' Gassy Oil (30% G, 70% O)  
IHP: 1715 FHP: 1628  
IFP: 30-176 ISIP: 936  
FFP: 182-289 FSIP: 886  
BHT - 108 F  
Oil Gravity - 37

Survey @ 3440' - 2 degrees



# QUALITY OILWELL CEMENTING, INC.

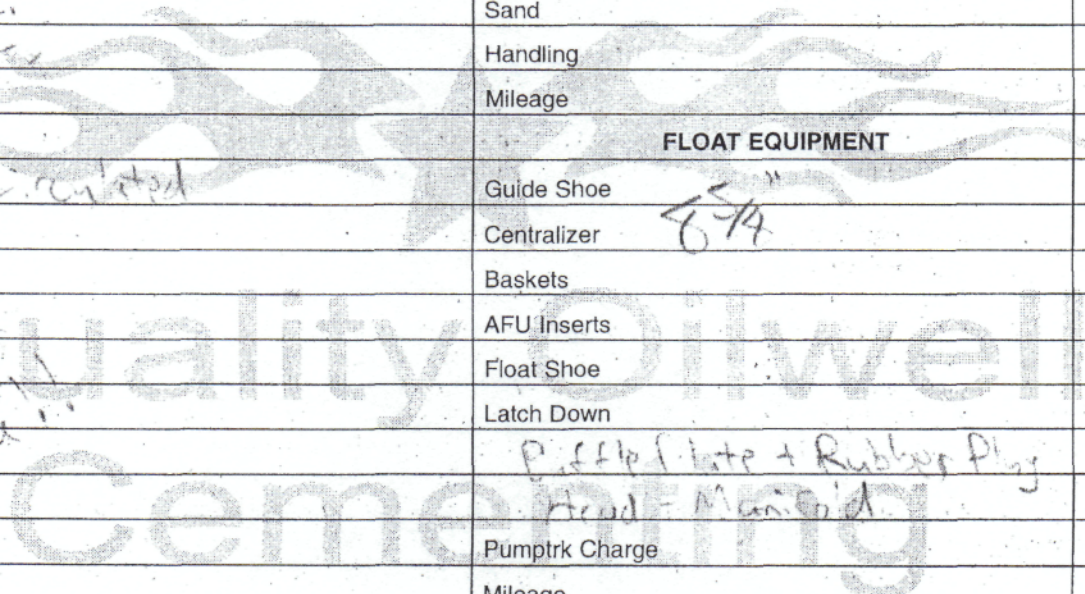
Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 5226

Date	10/14/11	Sec.	20	Twp.	17	Range	14	County	Barton	State	KS	On Location		Finish	2:00 PM
Lease	Linsner Unit			Well No.	1			Location	Hwy 281 + Hwy 11, 2W, 1 1/2 N, Winto						
Contractor	Southwind Drilling Rig #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	Cement							Charge To	Main Oil Operations						
Hole Size	12 1/4"			T.D.	856'			Street							
Csg.	2 1/2" 28#			Depth	856'			City	State						
Tbg. Size				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Tool				Depth				Cement Amount Ordered 350 = 60/40 300 cc 25 yd							
Cement Left in Csg.	29'			Shoe Joint	29'										
Meas Line				Displace	5 1/4 Bbls.										
<b>EQUIPMENT</b>															
Pumptrk	9	No.		Cementer	Paul			Common							
Bulktrk	7	No.		Driver	Matt			Poz. Mix							
Bulktrk	PV	No.		Driver	Brett			Gel.							
<b>JOB SERVICES &amp; REMARKS</b>															
Remarks:								Calcium							
Rat Hole								Hulls							
Mouse Hole								Salt							
Centralizers								Flowseal							
Baskets								Kol-Seal							
D/V or Port Collar								Mud CLR 48							
								CFL-117 or CD110 CAF 38							
								Sand							
								Handling							
								Mileage							
<b>FLOAT EQUIPMENT</b>															
								Guide Shoe							
								Centralizer	6 1/4"						
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
									Puff of late + Rubber Plug						
									Head = Main						
								Pumptrk Charge							
								Mileage							
									Tax						
									Discount						
									Total Charge						
X Signature	[Signature]														



# ALLIED CEMENTING CO., LLC. 038178

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Russell KS.

DATE <u>10-21-2011</u>	SEC. <u>20</u>	TWP. <u>17 S</u>	RANGE <u>14 W</u>	CALLED OUT	ON LOCATION	JOB START <u>6:15 PM</u>	JOB FINISH <u>2:15 PM</u>
LEASE <u>LINSNER</u>	WELL # <u>UNIT #1</u>	LOCATION <u>Russell S. To Hwy 4 &amp; 281 St</u>			COUNTY <u>Barton</u>	STATE <u>Kansas</u>	
OLD OR <u>NEW</u> (Circle one)				<u>2 W 1 1/4 N 1/4 W T1 T2</u>			

CONTRACTOR SOUTHWIND DRILLING, R.# 3  
TYPE OF JOB PRODUCTION STRINGER  
HOLE SIZE 7 7/8 T.D. 3440 RTD  
CASING SIZE 5 1/2 New DEPTH 3439 LTD  
TUBING SIZE 14# CSG DEPTH 3437 SET @  
DRILL PIPE DEPTH  
TOOL LATCH Down Plug Assy DEPTH 3418  
PRES. MAX MINIMUM  
MEAS. LINE SHOE JOINT 18.90  
CEMENT LEFT IN CSG. 18.90  
PERFS.  
DISPLACEMENT 83.40/BBL

OWNER  
CEMENT  
AMOUNT ORDERED 155 SX 40 10% SALT  
2% GEL, 4# FO SEAL PER SX,  
1000 GAL WFR & MUD FLUSH  
COMMON \_\_\_\_\_ @ \_\_\_\_\_  
POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
GEL \_\_\_\_\_ @ \_\_\_\_\_  
CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_  
ASC \_\_\_\_\_ @ \_\_\_\_\_  
HANDLING \_\_\_\_\_ @ \_\_\_\_\_  
MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

EQUIPMENT  
PUMP TRUCK CEMENTER Glenn - Stone  
# 417 HELPER WOODY  
BULK TRUCK  
# 410 DRIVER Ray  
BULK TRUCK  
# DRIVER

REMARKS:

Ray 83 JT's New 14" CSG, Set @ 3437'  
Received CIRCULATION, CIRC. HR  
Cement w/ 120 SX Cement, Clear-Line  
Release LATCH DN. Plug & Displace 83.40 BBL  
LAND Plug @ 1500 #. Release Pressure & Plug  
(HELD).  
30 SX @ Rathole  
THANKS

TOTAL \_\_\_\_\_

SERVICE

DEPTH OF JOB \_\_\_\_\_  
PUMP TRUCK CHARGE \_\_\_\_\_  
EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
MILEAGE \_\_\_\_\_ @ \_\_\_\_\_  
MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_

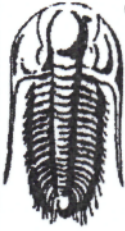
CHARGE TO: MAI OIL OPERATIONS INC.  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

RR Float shoe @ \_\_\_\_\_  
TR LATCH Down Plug Assy @ \_\_\_\_\_  
RR 8 TURBO CENTRALIZERS @ \_\_\_\_\_

To Allied Cementing Co., LLC.  
You are hereby requested to rent cementing equipment



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

Mai Oil Operations  
8411 Preston Rd  
Dallas TX 75225 +5520  
ATTN: Allen Bangert

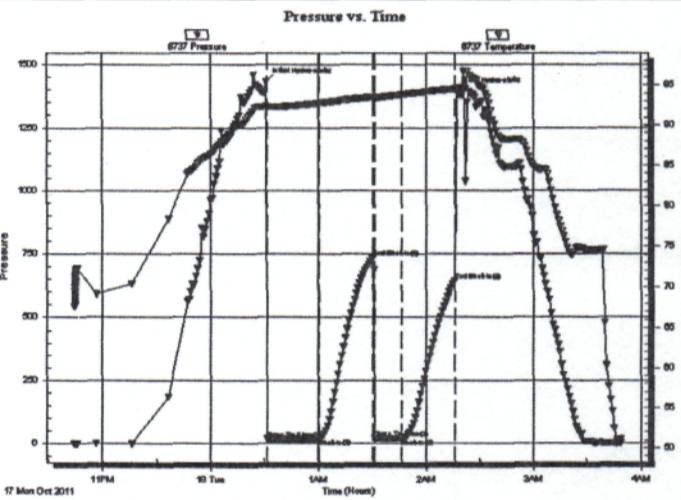
**20-17s-14w Barton,KS**  
**Linsner Unit #1**  
Job Ticket: 44854      **DST#: 1**  
Test Start: 2011.10.17 @ 22:44:30

**GENERAL INFORMATION:**

Formation: **Topeka**  
Deviated: **No** Whipstock:                      ft (KB)  
Time Tool Opened: 00:31:30  
Time Test Ended: 03:50:30  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Jeff Brown  
Unit No: 44  
Interval: **2978.00 ft (KB) To 3000.00 ft (KB) (TVD)**  
Reference Elevations: 1874.00 ft (KB)  
Total Depth: 3000.00 ft (KB) (TVD)                      1866.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good                      KB to GR/CF: 8.00 ft

**Serial #: 8737**      **Outside**  
Press@RunDepth: 19.74 psig @ 2980.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.10.17      End Date: 2011.10.18      Last Calib.: 2011.10.18  
Start Time: 22:44:31      End Time: 03:49:30      Time On Btm: 2011.10.18 @ 00:31:00  
Time Off Btm: 2011.10.18 @ 02:17:00

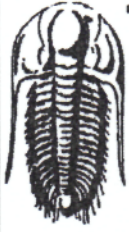
TEST COMMENT: IFF-Weak blow built to 1 3/4 in  
ISI-Dead no blow back  
FFP-Dead no blow  
FSI-Dead no blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1431.10	92.35	Initial Hydro-static
1	17.18	92.17	Open To Flow (1)
30	18.14	92.73	Shut-In(1)
60	735.84	93.49	End Shut-In(1)
61	18.58	93.33	Open To Flow (2)
75	19.74	93.76	Shut-In(2)
105	642.88	94.48	End Shut-In(2)
106	1395.01	94.58	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
20.00	Mud with a scum of oil	0.28

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

Mai Oil Operations  
8411 Preston Rd  
Dallas TX 75225 +5520  
ATTN: Allen Bangert

**20-17s-14w Barton,KS**  
**Linsner Unit #1**  
Job Ticket: 44855 **DST#: 2**  
Test Start: 2011.10.18 @ 13:18:04

**GENERAL INFORMATION:**

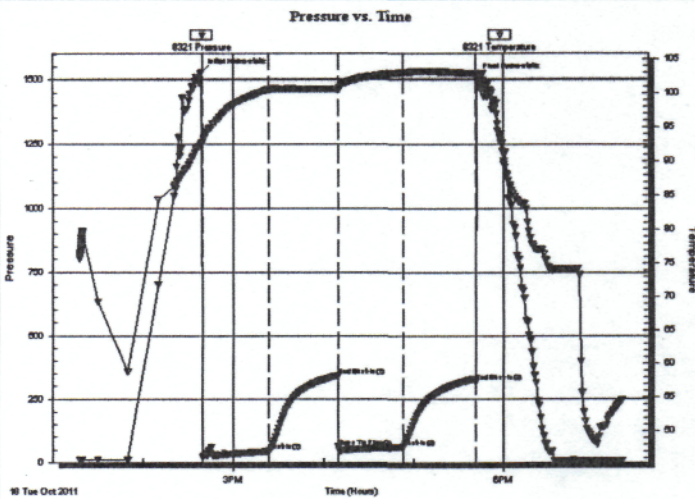
Formation: **Lansing-A**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 14:39:34  
Time Test Ended: 19:20:34  
Interval: **3108.00 ft (KB) To 3120.00 ft (KB) (TVD)**  
Total Depth: 3120.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Reference Elevations: 1874.00 ft (KB)  
1866.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8321**

**Inside**

Press@RunDepth: 60.45 psig @ 3109.00 ft (KB)  
Start Date: 2011.10.18 End Date: 2011.10.18  
Start Time: 13:18:05 End Time: 19:19:34  
Capacity: 8000.00 psig  
Last Calib.: 2011.10.18  
Time On Btm: 2011.10.18 @ 14:39:04  
Time Off Btm: 2011.10.18 @ 17:42:34

TEST COMMENT: IFF-Good blow BOB in 11 min  
ISI-Weak surface blow back died out in 10 min  
FFP-Good blow BOB in 29 min  
FSI-Weak surface blow back died out in 5 min



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1529.34	92.65	Initial Hydro-static
1	22.36	92.66	Open To Flow (1)
45	44.30	100.50	Shut-In(1)
91	341.58	100.57	End Shut-In(1)
91	61.25	100.44	Open To Flow (2)
134	60.45	102.99	Shut-In(2)
183	316.02	102.85	End Shut-In(2)
184	1510.69	102.71	Final Hydro-static

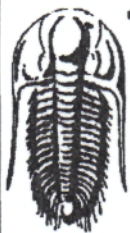
**Recovery**

Length (ft)	Description	Volume (bbl)
63.00	MW with a scum of oil 20%M80%W	0.88
26.00	SOCGVM 15%G5%O30%W50%M	0.36
5.00	HOCGVM 10%G35%O20%W35%M	0.07

\* 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  
 Dallas TX 75225 +5520  
 ATTN: Allen Bangert

**20-17s-14w Barton,KS**  
**Linsner Unit #1**  
 Job Ticket: 44856      **DST#: 3**  
 Test Start: 2011.10.19 @ 00:18:22

**GENERAL INFORMATION:**

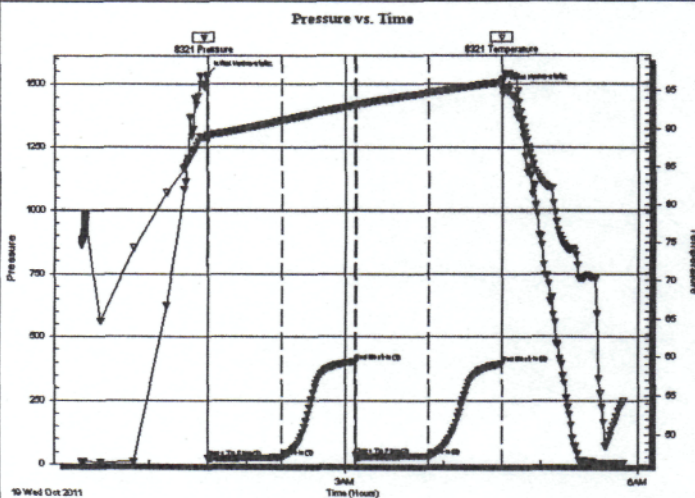
Formation: **Lansing-B&C**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 01:35:52  
 Tester: Jeff Brown  
 Time Test Ended: 05:51:22  
 Unit No: 44  
 Interval: **3126.00 ft (KB) To 3150.00 ft (KB) (TVD)**  
 Reference Elevations: 1874.00 ft (KB)  
 Total Depth: 3150.00 ft (KB) (TVD) 1866.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

**Serial #: 8321**

**Inside**

Press@RunDepth: 34.07 psig @ 3128.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.10.19 End Date: 2011.10.19 Last Calib.: 2011.10.19  
 Start Time: 00:18:23 End Time: 05:51:22 Time On Btm: 2011.10.19 @ 01:35:22  
 Time Off Btm: 2011.10.19 @ 04:36:22

TEST COMMENT: IFF-Fair blow built to 5 1/2 in  
 IS-Dead no blow back  
 FFP-Fair blow built to 6 in  
 FSI-Dead no blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1537.41	89.18	Initial Hydro-static
1	25.60	88.63	Open To Flow (1)
46	28.00	91.01	Shut-In(1)
91	402.50	93.02	End Shut-In(1)
91	37.09	92.91	Open To Flow (2)
136	34.07	94.68	Shut-In(2)
181	393.88	96.07	End Shut-In(2)
181	1484.42	96.39	Final Hydro-static

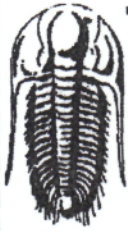
**Recovery**

Length (ft)	Description	Volume (bbl)
28.00	VM With a scum of oil 30%W70%M	0.39
3.00	Gassy Oil	0.04
0.00	63-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  
Dallas TX 75225 +5520  
ATTN: Allen Bangert

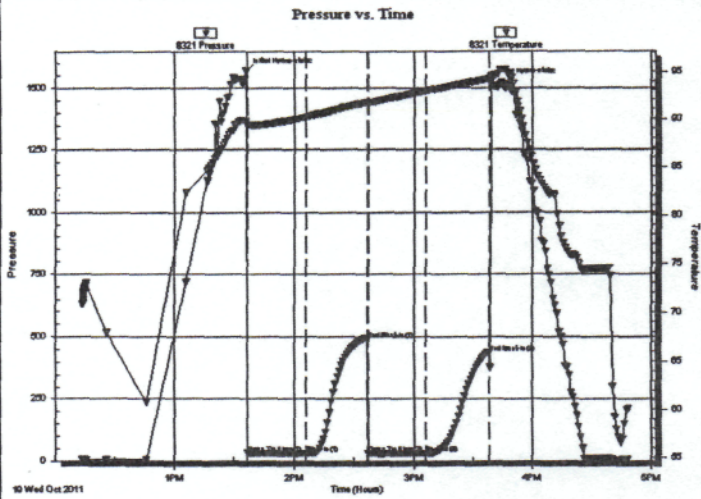
**20-17s-14w Barton,KS**  
**Linsner Unit #1**  
Job Ticket: 44857      **DST#: 4**  
Test Start: 2011.10.19 @ 12:13:55

**GENERAL INFORMATION:**

Formation: **LKC-E-F-G**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 13:36:25  
Time Test Ended: 16:48:25  
Interval: **3164.00 ft (KB) To 3200.00 ft (KB) (TVD)**  
Total Depth: 3200.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Jeff Brown  
Unit No: 44  
Reference Elevations: 1874.00 ft (KB)  
1866.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8321 Inside**  
Press@RunDepth: 29.64 psig @ 3170.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2011.10.19 End Date: 2011.10.19 Last Calib.: 2011.10.19  
Start Time: 12:13:56 End Time: 16:48:25 Time On Btm: 2011.10.19 @ 13:35:55  
Time Off Btm: 2011.10.19 @ 15:38:55

**TEST COMMENT:** IFP-Weak blow built to 1 1/4 in  
ISI-Dead no blow back  
FSI-Weak blow built to 1 in  
FFP-Dead no blow back

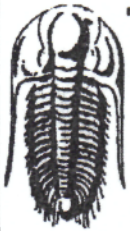


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1568.34	89.83	Initial Hydro-static
1	31.83	89.32	Open To Flow (1)
30	29.03	90.23	Shut-In(1)
61	488.05	91.74	End Shut-In(1)
61	30.38	91.68	Open To Flow (2)
90	29.64	92.92	Shut-In(2)
122	434.46	94.20	End Shut-In(2)
123	1524.56	94.47	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
15.00	Mud with a scum of oil	0.21

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  
 Dallas TX 75225 +5520  
 ATTN: Allen Bangert

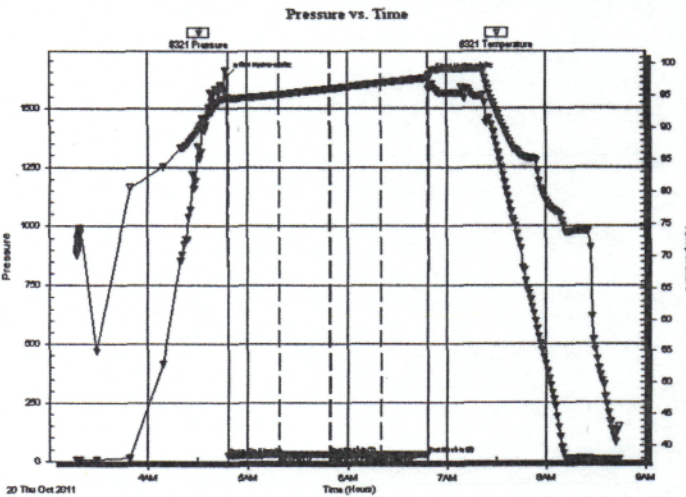
**20-17s-14w Barton,KS**  
**Linsner Unit #1**  
 Job Ticket: 44658      DST#: 5  
 Test Start: 2011.10.20 @ 03:17:19

**GENERAL INFORMATION:**

Formation: **LKC-I-J-K**  
 Deviated: **No** Whipstock:                      ft (KB)  
 Time Tool Opened: 04:48:19  
 Time Test Ended: 08:44:49  
 Interval: **3280.00 ft (KB) To 3330.00 ft (KB) (TVD)**  
 Total Depth: **3330.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole (Reset)**  
 Tester: **Jeff Brown**  
 Unit No: **44**  
 Reference Elevations: **1874.00 ft (KB)**  
    **1866.00 ft (CF)**  
    KB to GR/CF: **8.00 ft**

**Serial #: 8321**      **Inside**  
 Press@RunDepth: **25.54 psig @ 3320.00 ft (KB)**  
 Start Date: **2011.10.20**      End Date: **2011.10.20**  
 Start Time: **03:17:20**      End Time: **08:43:49**  
 Capacity: **8000.00 psig**  
 Last Calib.: **2011.10.20**  
 Time On Btm: **2011.10.20 @ 04:47:49**  
 Time Off Btm: **2011.10.20 @ 06:49:19**

TEST COMMENT: IFP-Weak blow built to 1 in  
 ISI-Dead no blow back  
 FFP-Dead no blow  
 FSI-Dead no blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1633.52	94.91	Initial Hydro-static
1	24.48	94.66	Open To Flow (1)
31	26.44	95.19	Shut-In(1)
61	28.85	96.09	End Shut-In(1)
62	27.61	96.10	Open To Flow (2)
92	25.54	97.00	Shut-In(2)
121	26.59	97.77	End Shut-In(2)
122	1629.68	98.17	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
3.00	MUD	0.04

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  
Dallas TX 75225 +5520  
ATTN: Allen Bangert

**20-17s-14w Barton,KS**  
**Linsner Unit #1**  
Job Ticket: 44859      DST#: 6  
Test Start: 2011.10.20 @ 14:47:30

**GENERAL INFORMATION:**

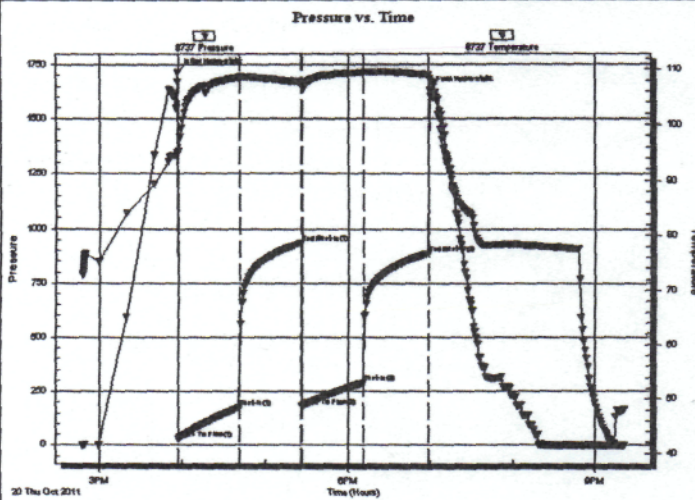
Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 15:57:00  
Time Test Ended: 21:21:00  
Interval: **3352.00 ft (KB) To 3370.00 ft (KB) (TVD)**  
Total Depth: 3370.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Jeff Brown  
Unit No: 44  
Reference Elevations: 1874.00 ft (KB)  
1866.00 ft (CF)  
KB to GRVCF: 8.00 ft

**Serial #: 8737**

**Outside**

Press@RunDepth: 289.00 psig @ 3353.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2011.10.20 End Date: 2011.10.20 Last Calib.: 2011.10.20  
Start Time: 14:47:31 End Time: 21:21:00 Time On Btm: 2011.10.20 @ 15:56:30  
Time Off Btm: 2011.10.20 @ 18:59:00

**TEST COMMENT:** IFP-Stong blow BOB in 2 3/4 min  
ISI-Good blow back BOB in 24 min  
FFP-Good blow BOB in 5 1/2 min  
FSI-Weak blow back built to 1 in died back to a 1/4 in



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1715.49	94.93	Initial Hydro-static
1	29.52	95.18	Open To Flow (1)
45	176.08	108.54	Shut-In(1)
90	936.44	107.64	End Shut-In(1)
90	181.50	107.17	Open To Flow (2)
135	289.00	109.36	Shut-In(2)
182	886.49	108.95	End Shut-In(2)
183	1628.43	108.28	Final Hydro-static

**Recovery**

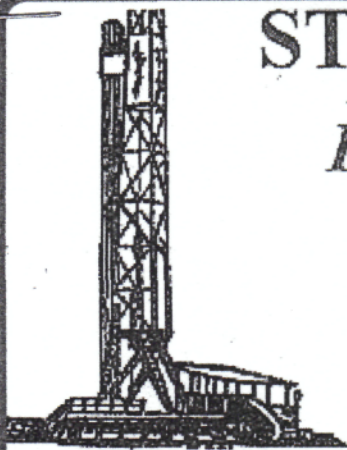
Length (ft)	Description	Volume (bbl)
69.00	SOCGM 10%G5%O85%M	0.97
708.00	Gassy Oil 30%O70%O	9.93
0.00	646- GIP	0.00

\* Recovery from multiple tests

**Gas Rates**

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





# STEVEN P. MURPHY, P.G.

*Petroleum Geologist (KS #228)*

Cell 620.639.3030

Fax 785.387.2400

RR#1, Box 69

Otis, Kansas 67565

geomurphy@gbta.net

Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Linsner Unit #1  
Location: Barton County  
License Number: API #15-009-25618-00-00  
Spud Date: 10/13/11  
Surface Coordinates: 1500' FSL & 2780' FEL (Approx. SE SE NE SW)  
Section 20-Township 17 South-Range 14 West  
Bottom Hole Coordinates: Vertical well with minimal deviation, same as above  
Ground Elevation (ft): 1866'      K.B. Elevation (ft): 1874'  
Logged Interval (ft): 2700'      To: TD      Total Depth (ft): 3440'  
Formation: Topeka thru Arbuckle  
Type of Drilling Fluid: Chemical - Andy's (Mud Engineer - Dennis Rector)  
Region: Kansas  
Drilling Completed: 10/21/11  
Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

## OPERATOR

Company: Mai Oil Operations, Inc.  
Address: 8411 Preston Rd  
Suite 800  
Dallas, TX 75225-5520

## GEOLOGIST

Name: Steven P. Murphy, PG  
Company: Consulting Petroleum Geologist (KS License #228)  
Address: 3365 County Rd 390  
Otis, KS 67565  
Cell Phone No: 620-639-3030

### LogTops (Datum)

The open-hole logging was performed by Jeff Luebbers with Superior Well Services (Hays, KS shop). Logs included Sonic, Compensated Neutron/Compensated Density, Dual Induction & Microlog.

Formation tops and datums from the open-hole logs include the following:

Anhydrite Top - 849 (+1025)  
Anhydrite Base - 876 (+998)  
Topeka - 2806 (-932)  
Heebner - 3039 (-1165)  
Toronto - 3050 (-1176)  
Br. Lime - 3102 (-1228)  
Lansing - 3112 (-1238)  
Muncie Crk - 3253 (-1379)  
BKC -3329 (-1455)  
Arbuckle - 3356 (-1482)

### DRILL STEM TESTS #1-3

The following drillstem tests were performed by Jeff Brown w/Trilobite Testing from the Hays, KS shop:

DST #1 2978-3000 (Topeka)

30:30:15:30

IF: Wk blow built to 1-3/4", no return

FF: No blow, no return

Recovery: 20' Mud w/scum of oil

IHP: 1431 FHP: 1395

IFP: 17-18 ISIP: 736

FFP: 19-20 FSIP: 643

BHT - 95 F

DST #2 3108-3120 (LKC "A")

45:45:45:45

IF: BOB in 11 min, wk return died in 10 min

BOB in 29 min, wk return died in 5 min

Recovery: 315' GIP, 5' HOCGWM (10% G, 35% O, 20% W, 35% M), 26' SOCGWM (15% G, 5% O, 30% W, 50% M), 63' MW w/scum of oil (80% W, 20% M)

BHT - 103 F

Chlorides - 110,000 ppm

DST #3 3126-3150 (LKC "B & C")

45:45:45:45

IF: Blow built to 5-1/2", no return

FF: Blow built to 6", no return

Recovery: 63' GIP, 3' Gsy Oil (95% O, 5% G), 28' WM w/scum of oil (30% W, 70% M)

IHP: 1537 FHP: 1484

IFP: 26-28 ISIP: 403

FFP: 37-34 FSIP: 394

BHT - 96 F

Oil Gravity - 38

Chlorides - 69,000 ppm

DRILL STEM TESTS #4-6

DST #4 3164-3200 (LKC "E, F, G")

30:30:30:30

IF: Wk blow built to 1-1/4", no return

FF: Wk blow built to 1", no return

Recovery: 15' Mud w/scum of oil

IHP: 1568 FHP: 1525

IFP: 32-29 ISIP: 488

FFP: 30-30 FSIP: 434

BHT - 94 F

DST #5 3280-3330 (LKC "I,J,K")

30:30:30:30

IF: Wk blow built to 1", no return

FF: No blow, no return

Recovery: 3' Mud

IHP: 1634 FHP: 1630

IFP: 24-26 ISIP: 29

FFP: 28-26 FSIP: 27

BHT - 98 F

DST #6 3352-3370 (Arbuckle)

45:45:45:45

IF: BOB in 3 min, BOB on return in 24 min

FF: BOB in 5-1/2 min, return built to 1"

Recovery: 646' GIP, 69' SOCGM (10% G, 5% O, 85% M), 708' Gassy Oil (30% G, 70% O)

IHP: 1715 FHP: 1628

IFP: 30-176 ISIP: 936

FFP: 182-289 FSIP: 886

BHT - 108 F

Oil Gravity - 37

COMMENTS




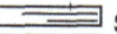
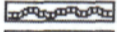
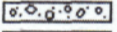

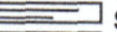
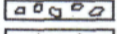

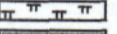

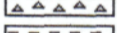


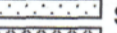


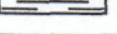

The Linsner Unit #1 was drilled by Southwind Drilling Rig #3 (Tool pusher Jay Krier).

Based on the results of DST #6, and log & sample analysis, it was recommended that casing be set to produce the Arbuckle.

Respectfully submitted,

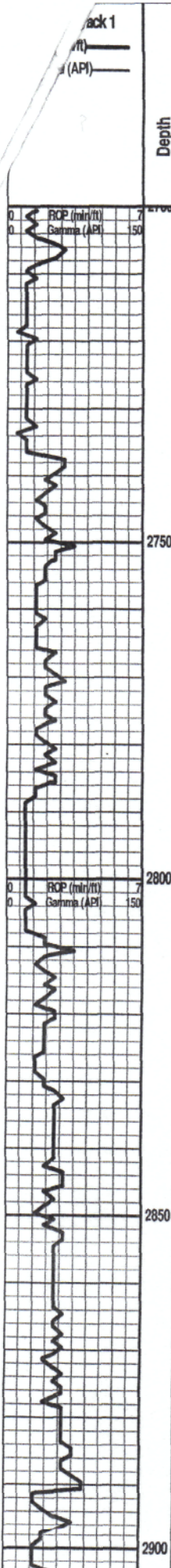
Steven P. Murphy, PG  
Consulting Petroleum Geologist  
(KS Licence #228)

ROCK TYPES

 Anhy	 Coal	 Lmst	 Shcol
 Bent	 Congl	 Meta	 Shgy
 Brec	 Dol	 Mrst	 Sltst
 Cht	 Gyp	 Salt	 Ss
 Clyst	 Igne	 Shale	 Till

OTHER SYMBOLS

<b>OIL SHOW</b>	 Dead	<b>INTERVAL</b>	<b>EVENT</b>
 Even	 Gas	 Core	 Conn
 Spotted		 Dst	 Rft
 Ques			 Sidewall



Depth	Lithology	Oil Shows	Geological Descriptions
2700			
2750			
2800			
2850			
2900			

The following are sample formation tops & associated datums (with KB of 1874'). Please refer to the main header for electric log tops & datums:

NOTES:

8-5/8" Surface casing set @ 856' w/350 sacks cement  
 Deviation survey @ 856' - 1/2 degree

Top Anhydrite - 846 (+1028)  
 Base Anhydrite - 883 (+991)

TOPEKA 2808 (-934)

LS: crm-tan-gry, sl foss, dense, NS

Sh: gry

Sh: gry

LS: crm-gry, vfxln, foss, dense, NS

LS: crm-gry, vfxln, foss, dense, sl chalky, NS

LS: crm-gry, vfxln, foss, dense, sl chalky, NS

LS: crm-tan, gry, vfxln, foss, dense, NS

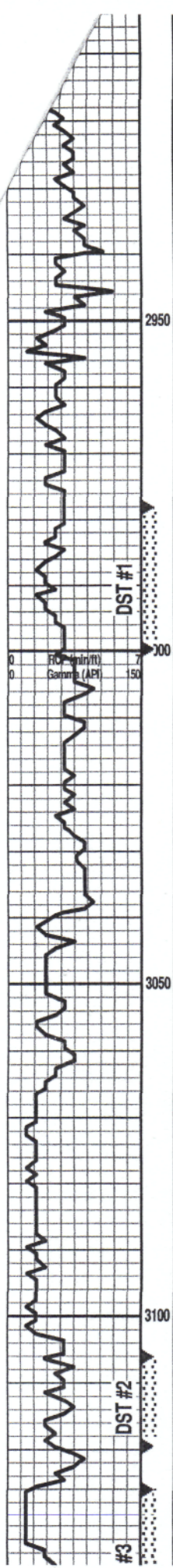
LS: wht-tan, gry, vfxln, foss, dense, NS

LS: wht-tan, gry, vfxln, foss, dense, chalky, NS

LS: wht-tan, gry, vfxln, foss, dense, chalky, NS

Sh: blk

Sh: gry-red



LS: wht-tan-gry, vfxln, foss, dense, NS

SH: gry-grn

LS: crm-tan, vfxln, sl foss, sl chalky, dense, NS

LS: crm-tan, vfxln, sl foss, chalky, dense, NS

SH: gry-grn

SH: blk-gry-grn

LS: crm-gry, fxdn, foss, sl chalky, dense, NS

LS: crm-tan-gry, vfxln, foss, chalky, dense, NS

LS: crm-tan-gry, vfxln, foss, chalky, dense, NS

● LS: wht-tan, fxdn, mostly dense, some fr-gd inxln por, fsfo, fr even sat stn, gd odor

● LS: wht-tan, fxdn, fr-gd inxln & vug por, gsf, even sat stn, str odor

○ LS: crm-tan, vfxln, dense, chalky, sl stn, nsfo, no odor

○ LS: crm-tan, vfxln, dense, sl chalky, minor stn, nsfo, no odor

LS: crm-tan, vfxln, dense, NS

SH: blk

LS: tan-brn, vfxln, sl foss, dense, NS

SH: gry-red

SH: gry-red

SH: gry-red

LS: brn, vfxln, dense, NS

SH: gry-grn-maroon

● LS: crm-tan, fxdn, sl foss, oolic, fr-gd vug por, fsfo, even sat stn, str odor

● LS: crm-tan, fxdn, sl foss, sl chalky, oolic, gd vug por, gsf, even sat stn, str odor

Strap pipe @ 3000' - 0.06' long to board  
Survey @ 3000' - 1-1/2 degree

**DST #1 2978-3000 (Topeka)**  
30:30:15:30  
IF: Wk blow built to 1-3/4", no return  
FF: No blow, no return  
Recovery: 20' Mud w/scum of oil  
IHP: 1431 FHP: 1395  
IFP: 17-18 ISIP: 736  
FFP: 19-20 FSIP: 643  
BHT - 95 F

CFS @ 3007

HEEBNER 3039 (-1165)

TORONTO 3052 (-1178)

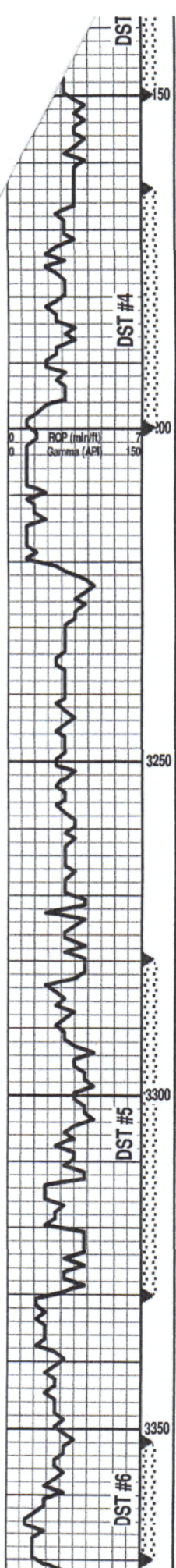
**DST #2 3108-3120 (LKC "A")**  
45:45:45:45  
IF: BOB in 11 min, wk return died in 10 min  
BOB in 29 min, wk return died in 5 min  
Recovery: 315' GIP, 5' HOCGWM (10% G, 35% O, 20% W, 35% M), 26' SOCGWM (15% G, 5% O, 30% W, 50% M), 63' MW w/scum of oil (80% W, 20% M)  
BHT - 103 F  
Chlorides - 110,000 ppm

BROWN LIME 3103 (-1229)

LANSING 3115 (-1241)

CFS @ 3127

**DST #3 3126-3150 (LKC "B & C")**  
45:45:45:45  
IF: Blow built to 5-1/2", no return  
FF: Blow built to 6", no return



- LS: wh-tan, f-vxl, dense, sl chalky, pr inxln por, ssfo, spotty str, fr odor
- LS: wht-gry, vxl, dense, NS
- LS: wht-gry, vxl, dense, NS
- SH: gry
- LS: crm-tan-gry, fxln, oolc, sl foss, gd vug por, ssfo, spotty golden str, fr odor
- LS: wh-tan, fxln, foss, gd inxln & vug por, gsfo, even sat str, str odor
- LS: crm-tan, fxln, foss, gd inxln & vug por, gsfo, even sat str (gsy on brk)
- LS: wht-tan-gry, fxln, oolc, gd vug por, fsfo, spotty golden str, str odor
- LS: crm-tan, fxln, oolc, fr inxln por, sl chalky, vssfo, spotty lite str, sl odor
- LS: crm-tan, fxln, oolc, fr inxln por, sl chalky, vssfo, spotty lite str, sl odor
- LS: crm-tan, vxl, sl chalky, dense, NS
- LS: crm-tan-gry, vxl, chalky, sl foss, dense, NS
- LS: crm-tan-gry, vxl, chalky, sl foss, dense, NS
- LS: wht-tan-gry, vxl, chalky, dense, NS (sl odor)
- SH: blk-gry
- LS: crm-tan-brn, vxl, sl chalky, mostly dense, rare pr-fr inxln por, vssfo, spotty lite str, fr odor
- SH: gry-grm-brn
- LS: wh-tan, fxln oolitic, mostly dense, rare fr inxln por, ssfo, even sat str, str odor
- SH: gry-grm-brn
- LS: crm-tan, fxln, chalky, sl foss, mostly dense, rare pr-fr inxln por, vssfo on brk, spotty str, str odor
- LS: wh-tan, vxl, ool, chalky, dense, nsfo, spotty blk str, fr odor
- SH: gry-grm-maroon
- LS: wh-tan, fxln, oolc, fr int-ool & vug por, ssfo, spotty dead str, fr odor
- LS: wht-tan, vxl, dense, nsfo, minor spotty str, sl odor
- SH: gry-grm-red-brn
- Multicolored chert & shales
- Multicolored chert & shales
- DOL: wht-tan, f-mxln, rhombic, fr-gd inxln & vug por, fsfo, even sat str, str odor

CFS @ 3197

CFS @ 3207

Recovery: 63' GIP, 3' Gsy Oil (95% O, 5% G),  
 28' WM w/scum of oil (30% W, 70% M)  
 IHP: 1537 FHP: 1484  
 IFP: 26-28 ISIP: 403  
 FFP: 37-34 FSIP: 394  
 BHT - 96 F  
 Oil Gravity - 38  
 Chlorides - 69,000 ppm

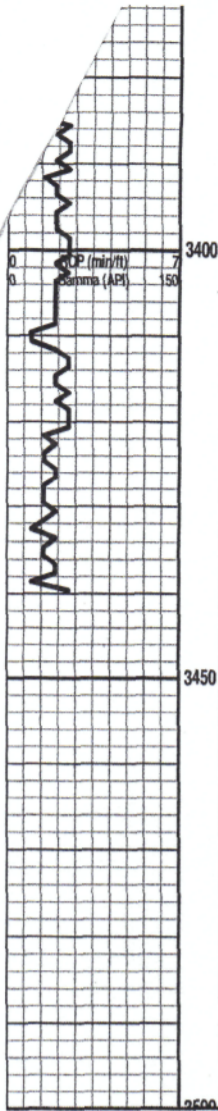
DST #4 3164-3200 (LKC "E, F, G")  
 30:30:30:30  
 IF: Wk blow built to 1-1/4", no return  
 FF: Wk blow built to 1", no return  
 Recovery: 15' Mud w/scum of oil  
 IHP: 1568 FHP: 1525  
 IFP: 32-29 ISIP: 488  
 FFP: 30-30 FSIP: 434  
 BHT - 94 F

**MUNCIE CREEK 3253 (-1379)**

DST #5 3280-3330 (LKC "I, J, K")  
 30:30:30:30  
 IF: Wk blow built to 1", no return  
 FF: No blow, no return  
 Recovery: 3' Mud  
 IHP: 1634 FHP: 1630  
 IFP: 24-26 ISIP: 29  
 FFP: 28-26 FSIP: 27  
 BHT - 98 F

**BKC 3331 (-1457)**

**ARBUCKLE 3361 (-1487)**



- DOL: wht-tan, f-cxln, rhombic, fr-gd inxln & vug por, fsfo, even sat str, str odor
- DOL: as above w/multic chert
- DOL: wht-tan, m-cxln, rhombic, gd inxln & vug por, fsfo, even sat str, str odor
- DOL: wht-tan, f-mxln, rhombic in pt, much dense, some fr-gd inxln por, sssb, spotty str, fr odor
- DOL: wht-tan, f-mxln, rhombic in pt, mostly dense, rare fr-gd inxln por, vsslb, spotty str w/gilsonite, fr odor
- DOL: as above
- DOL: as above mostly barren w/gilsonite

RTD - 3440'  
LTD - 3439'

DST #6 3352-3370 (Arbuckle)  
45:45:45  
IF: BOB in 3 min, BOB on return in 24 min  
FF: BOB in 5-1/2 min, return built to 1"  
Recovery: 646' GIP, 69' SOCGM (10% G, 5% O, 85% M), 708' Gassy Oil (30% G, 70% O)  
IHP: 1715 FHP: 1628  
IFP: 30-176 ISIP: 936  
FFP: 182-289 FSIP: 886  
BHT - 108 F  
Oil Gravity - 37

Survey @ 3440' - 2 degrees

# 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. 5226

Date	10/14/11	Sec.	20	Twp.	17	Range	14	County	Barton	State	KS	On Location		Finish	2:00 PM
Lease	Linsner Unit			Well No.	1			Location	Hwy 281 + Hwy 11, 2W, 1 1/2 N, Winto						
Contractor	Southwind Drilling Rig #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	Cement							Charge To	Main Oil Operations						
Hole Size	12 1/4"			T.D.	856'			Street							
Csg.	2 1/2" 28#			Depth	856'			City	State						
Tbg. Size				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Tool				Depth				Cement Amount Ordered 350 = 60/40 300 cc 20 yd							
Cement Left in Csg.	29'			Shoe Joint	29'										
Meas Line				Displace	5 1/4 Bbls.										
<b>EQUIPMENT</b>															
Pumptrk	9	No.		Cementer	Paul			Common							
Bulktrk	7	No.		Driver	Matt			Poz. Mix							
Bulktrk	PV	No.		Driver	Brett			Gel.							
<b>JOB SERVICES &amp; REMARKS</b>															
Remarks:								Calcium							
Rat Hole								Hulls							
Mouse Hole								Salt							
Centralizers								Flowseal							
Baskets								Kol-Seal							
D/V or Port Collar								Mud CLR 48							
								CFL-117 or CD110 CAF 38							
								Sand							
								Handling							
								Mileage							
<b>FLOAT EQUIPMENT</b>															
								Guide Shoe							
								Centralizer	6 1/4"						
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge	Puff of late + Rubber Plug Head = Main Grid						
								Mileage							
								Tax							
								Discount							
								Total Charge							
X Signature	[Handwritten Signature]														



# ALLIED CEMENTING CO., LLC. 038178

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Russell KS

DATE <u>10-21-2011</u>	SEC. <u>20</u>	TWP. <u>17 S</u>	RANGE <u>14 W</u>	CALLED OUT	ON LOCATION	JOB START <u>6:15 PM</u>	JOB FINISH <u>2:15 PM</u>
LEASE <u>LINSNER</u>	WELL # <u>UNIT #1</u>	LOCATION <u>Russell S. To Hwy 4 &amp; 281 St</u>			COUNTY <u>Barton</u>	STATE <u>Kansas</u>	
OLD OR <u>NEW</u> (Circle one)		<u>2 W 1/4 N 1/4 W T10</u>					

CONTRACTOR SOUTH WIND DRILLING, R.G.# 3 OWNER \_\_\_\_\_

TYPE OF JOB PRODUCTION STRINGER

HOLE SIZE 7 7/8 T.D. 3440 RTD CEMENT \_\_\_\_\_

CASING SIZE 5 1/2 New DEPTH 3439 LTD AMOUNT ORDERED 155 SX 40 10% SALT

TUBING SIZE 14# CSG DEPTH 3437 SET @ 2% GEL, 4# FO SEAL PER SX,

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_ 1000 GAL WFR & MUD FLUSH

TOOL LATCH DOWN PLUG ASSY DEPTH 3418

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_ COMMON \_\_\_\_\_ @ \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT 18.90 POZMIX \_\_\_\_\_ @ \_\_\_\_\_

CEMENT LEFT IN CSG. 18.90 GEL \_\_\_\_\_ @ \_\_\_\_\_

PERFS. \_\_\_\_\_ CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_

DISPLACEMENT \_\_\_\_\_ 83.40 / BBL ASC \_\_\_\_\_ @ \_\_\_\_\_

EQUIPMENT \_\_\_\_\_ @ \_\_\_\_\_

PUMP TRUCK CEMENTER Glenn - Stone \_\_\_\_\_ @ \_\_\_\_\_

# 417 HELPER WOODY \_\_\_\_\_ @ \_\_\_\_\_

BULK TRUCK \_\_\_\_\_ @ \_\_\_\_\_

# 410 DRIVER Ray \_\_\_\_\_ @ \_\_\_\_\_

BULK TRUCK \_\_\_\_\_ @ \_\_\_\_\_

# \_\_\_\_\_ DRIVER \_\_\_\_\_ @ \_\_\_\_\_

HANDLING \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

REMARKS:

Ray 83 JT's New 14" CSG, Set @ 3437'  
Received CIRCULATION, CIRC. HR  
Cement w/ 120 SX Cement, Clear-Line  
Release LATCH DN. Plug & Displace 83.40 BBL  
LAND Plug @ 1500 #. Release Pressure & Plug  
(HELD).  
30 SX @ Rathole  
THANKS

TOTAL \_\_\_\_\_

SERVICE

DEPTH OF JOB \_\_\_\_\_

PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

CHARGE TO: MAI OIL OPERATIONS INC.

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

RR Float shoe \_\_\_\_\_ @ \_\_\_\_\_

TR LATCH Down Plug Assy \_\_\_\_\_ @ \_\_\_\_\_

RR B TURBO CENTRALIZERS \_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

To Allied Cementing Co., LLC.  
You are hereby requested to rent cementing equipment

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  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

December 15, 2011

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

Re: ACO1  
API 15-009-25618-00-00  
Linsner Unit 1  
SW/4 Sec.20-17S-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