



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1230333  
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
-----------------------------------	-----------------	---

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: \_\_\_\_\_

1230333

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
--	---

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
----------------	-------	---------	------------	---

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

<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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
--	---	---



**OPERATOR**

Company: Thomason Petroleum, Inc.  
 Address: 2717 Canah BLVD.  
 PO BOX 875  
 Hays, Ks 67601  
 Contact Geologist: Steve Thomason  
 Contact Phone Nbr: 785-625-9045  
 Well Name: Lambert SE #1-11  
 Location: Sec. 11 - T9S - R20W  
 API: 15-163-24248-00-00  
 Pool:  
 State: Kansas  
 Field: Cresson  
 Country: USA

**Scale 1:240 Imperial**

Well Name: Lambert SE #1-11  
 Surface Location: Sec. 11 - T9S - R20W  
 Bottom Location:  
 API: 15-163-24248-00-00  
 License Number: 31548  
 Spud Date: 10/7/2014 Time: 4:30 AM  
 Region: Rooks  
 Drilling Completed: 10/14/2014 Time: 1:00 AM  
 Surface Coordinates: 2235' FSL & 1655' FEL  
 Bottom Hole Coordinates:  
 Ground Elevation: 2118.00ft  
 K.B. Elevation: 2126.00ft  
 Logged Interval: 3000.00ft To: 3720.00ft  
 Total Depth: 3720.00ft  
 Formation: Arbuckle  
 Drilling Fluid Type: Chemical/Fresh Water Gel

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude:  
 Latitude:  
 N/S Co-ord: 2235' FSL  
 E/W Co-ord: 1655' FEL

**LOGGED BY**

***Keith Reavis***  
*Consulting Geologist*

Company: Keith Reavis, Inc.  
 Address: 3420 22nd Street  
 Great Bend, KS 67530

Phone Nbr: 620-617-4091  
 Logged By: Logan Walker Keith Reavis Name: Logan Walker

**CONTRACTOR**

Contractor: Discovery Drilling  
 Rig #: 2  
 Rig Type: mud rotary  
 Spud Date: 10/7/2014 Time: 4:30 AM  
 TD Date: 10/14/2014 Time: 1:00 AM  
 Rig Release: Time:

**ELEVATIONS**

K.B. Elevation: 2126.00ft Ground Elevation: 2118.00ft  
 K.B. to Ground: 8.00ft

**NOTES**

Due to negative drill stem tests and electrical log calculations, it was determined by the operator that the Lambert #1-11 be plugged and abandoned as a dry test.

Sample tops picked from drilling time were consistently 4 ft. high to actual log tops on this well. The actual recorded drill time was shifted downhole on this report to provide a match to the imported gamma ray and caliper from the electrical log suite.

The samples from this well were saved and will be available for review at the Kansas Geological Survey well sample Library located in Wichita, Ks.

Respectfully submitted,  
Logan Walker

## Thomason Petroleum, Inc. daily drilling report

DATE	7:00 AM DEPTH	REMARKS
10/10/2014		Geologist Logan Walker on location @ 1610 hrs, 3115 ft, drilling ahead Topeka
10/11/2014	3377	drilling ahead Lansing, shows in the Topeka and Lansing A warrants test, TOH w/bit TIH w/tool, conducted and completed DST #1, successful test, TOH w/tool TIH w/bit resume drilling the Lansing
10/12/2014	3620	drilling ahead the Lansing, stark, Base KC, Arbuckle, shows in Arbuckle warrant test, TOH w/bit for DST #2, back on bottom, resume drilling
10/13/2014	3627	TOH for DST #3, conducting DST #3, geologist Keith Reavis relieve Logan Walker @ 0500 hrs, complete DST #3, successful test, TIH w/bit, resume drilling, TOH for DST #4, conduct and complete DST #4, successful test, TIH w/bit, resume drilling
10/14/2014	3720	rathole ahead and TD @ 3720 ft, 0100 hrs, ctch, TOH w/bit, conduct and complete logging operations, geologist off location @ 1900 hrs

## Thomason Petroleum, Inc. well comparison sheet

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
Thomason - Lambert SE #1-11 2235' FSL & 1655' FEL Sec 11-T9s-R20W					Thomason - Smith #1 SW SW NE Sec 11-T9s-R20W				CC&S Oil - #1 Smith B NW NW SE Sec 11-T9s-R20W			
estimate GL-> 2126 KB					2135 KB				2128 KB			
					Structural Relationship							
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Topeka	3108	-982	3112	-986	3116	-981	-1	-5	3115	-980	-2	-6
Heebner	3310	-1184	3314	-1188	3320	-1185	1	-3	3321	-1186	2	-2
Toronto	3335	-1209	3346	-1220	3344	-1209		-11				
Lansing	3352	-1226	3358	-1232	3360	-1225	-1	-7	3362	-1227	1	-5
Lansing G	3442	-1316	3450	-1324	3451	-1316		-8				
Lansing H	3481	-1355	3492	-1366	3491	-1356	1	-10				
Stark	3530	-1404	3540	-1414	3542	-1407	3	-7				
BKC	3563	-1437	3577	-1451	3575	-1440	3	-11				
Arbuckle	3614	-1488	3614	-1488	3628	-1493	5	5	3696	-1561	73	73
Total Depth	3720	-1594	3722	-1596	3675	-1540	-54	-56	3710	-1575	-19	-21

# THOMASON PETROLEUM, INC.

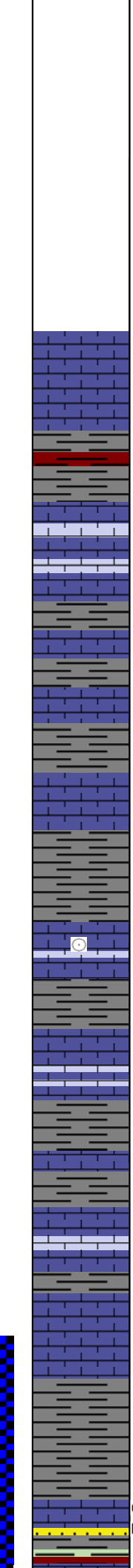
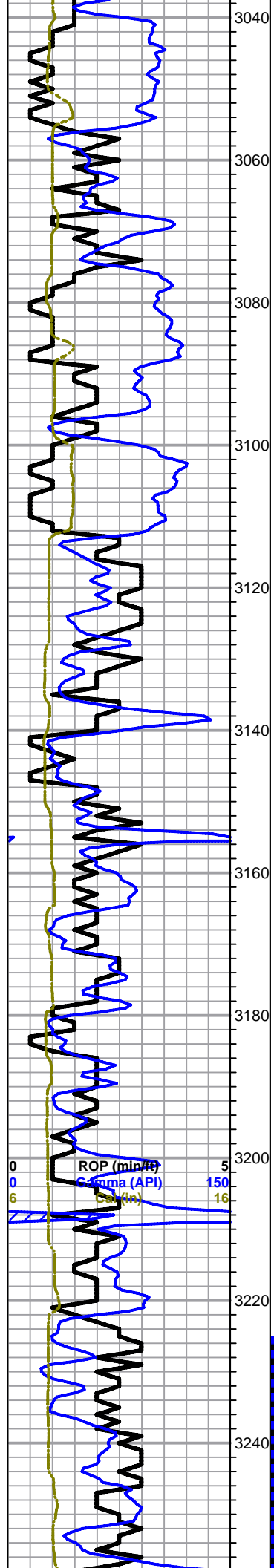
## LOG CALCULATION SHEET

Company: THOMASON PETROLEUM, INC.

Well: #11-1 LAMBERT SE  
Location: 2235' FSL & 1655' FEL  
Sec. 11 - 9S - 20W Rooks Co., KS

FORMATION	INTERVAL		% POROSITY	Rt	Rw	Sw %	MICRO	SP	BOND
	FROM	TO							
Topeka	3264	3472	19	2	0.045	79%	YES	YES	





20ft samples

**Topeka 3108 -984 (log 3113 -986)**

Limestone, cream, microcrystalline, sub bioclastic, fossiliferous, pyritic, soft to dense, sub chalky, no shows

Limestone, cream, cryptocrystalline, fossiliferous, pyritic, soft to dense, sub chalky, no shows

Limestone, same as above

Shale, gray wash, silty, sub sandy

Limestone, cream, microcrystalline, sub bioclastic, fossiliferous, pyritic, surface etching, soft to dense, sub chalky, no shows

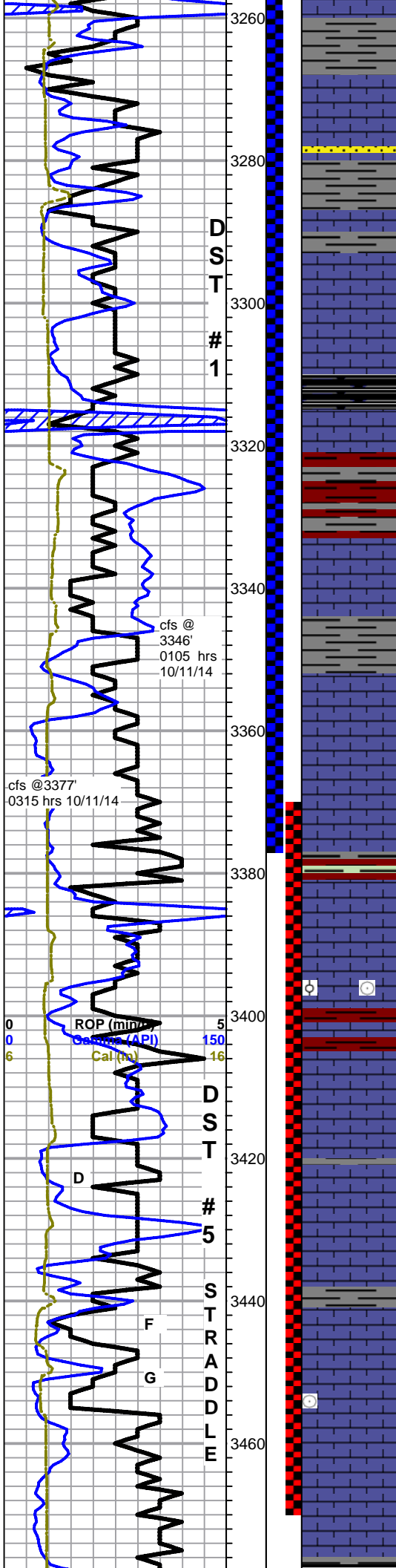
Limestone, cream, microcrystalline, sub bioclastic, fossiliferous, pyritic, weathered, soft to dense, sub chalky, no shows

Limestone, same as above

Limestone, white to cream, cryptocrystalline to microcrystalline, fossiliferous, cubic pyritic, opaque/brown chert, soft to dense, sub chalky, no shows

Limestone, sandy limestone, cream to light gray, microcrystalline, fossiliferous, surface etching, pin hole vugs, poor visible porosity, free oil in tray, free bleeding oil, free oil on break, heavy sheen, good odor, great cut, great fluorescence

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



10ft samples

Limestone, sandy limestone, white to cream, microcrystalline, fossiliferous, brown to white chert, surface etching, pin hole vugs, poor visible porosity, free oil in tray, free bleeding oil, free oil on break, heavy sheen, good odor, great cut, great fluorescence

Limestone, white to cream, microcrystalline to cryptocrystalline, fossiliferous, white chert, pyritic, soft to dense, sub chalky, fleeting odor, no shows

Limestone, same as above

**Heebner 3310 -1184 (log 3314 -1188)**

Shale, black carbonaceous

Limestone, cream, cryptocrystalline, fossiliferous, surface etching, stainings, dense, sub chalky questionable show

shale, red wash, silty, red gummy

Limestone, white to cream, microcrystalline to cryptocrystalline, fossiliferous, pyritic, white to brown chert, soft to dense, sub chalky, no shows

**Lansing 3352 -1226 (log 3558 -1232)**

Limestone, white to cream, microcrystalline, fossiliferous, pyritic, surface etchings, staining, free spotty oil on break, good cut, fair fluorescence

Limestone, white to cream, microcrystalline, fossiliferous, pyritic, oolitic, opaque to white chert, dense, sub chalky, surface etchings, pin hole vugs, free spotty trace oil on break, fair cut, fair fluorescence

Limestone, white to cream, cryptocrystalline, fossiliferous, pyritic, pin holes vugs, surface etching, dense, slight staining, questionable show

Limestone, white, cryptocrystalline to microcrystalline, fossiliferous, oolitic, pyritic, brown chert, pin holes vugs, surface etching, dense, chalky. slight staining, spotty free oil on break, poor cut, poor fluorescence,

Limestone, white to cream, cryptocrystalline, fossiliferous, oolitic, pyritic, orange chert, pin holes vugs, surface etching, dense, chalky. slight staining, spotted free oil in tray,

Limestone, white, microcrystalline, fossiliferous, oolitic, pyritic, orange/brown chert, pin holes vugs, surface etching, dense, chalky. slight staining, spotted free oil in tray, strong odor

Limestone, white to cream, microcrystalline, fossiliferous, oolitic, pyritic, surface etching, pin hole vugs, intercrystalline vugs, poor visible porosity, free oil in tray, free bleeding oil, free oil on break, heavy sheen, great cut, great fluorescence, strong odor

Limestone, same as above, white/opaque chert

Limestone, white, microcrystalline, fossiliferous, white/light gray chert, pin hole vugs, sharp, dense, chalky no shows

Lambert SE 1-11 dst 1.jpg

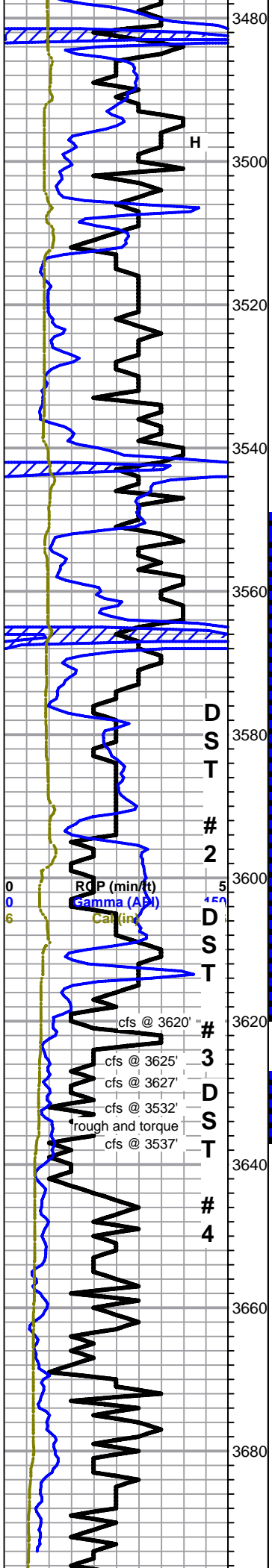
Mud-Co Mud chk  
 @ 3377 ft.  
 1320 hrs. 10/11/14  
 Vis. 51 Wt. 9.1  
 PV 17 YP 14  
 WL 7.6  
 Cake 1/32,  
 pH 10.0  
 CHL 2400 ppm  
 Ca 10 ppm  
 Sol 5.6 LCM 1#  
 DMC \$895.55  
 CMC \$6637.10

Survey = 3/4  
 Pipe Strap = .26 short

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

Lambert SE 1-11 dst 5.jpg





Limestone, white, microcrystalline, fossiliferous, light gray chert, surface etching, sharp, dense, chalky, fleeting odor. no shows

Limestone, white, microcrystalline, fossiliferous, oolitic, opaque brown chert, surface etching, sharp, dense, chalky, slight staining, fleeting odor. questionable show

Limestone, white, microcrystalline, fossiliferous, opaque chert, cubic pyritic, surface etching, sharp, dense, chalky, no shows

Limestone, same as above, oolitic

Limestone, white, microcrystalline, fossiliferous, oolitic, opaque chert, surface etching, sharp, dense, chalky, dead black staining, fleeting odor. questionable show

**Stark 3530 -1404 (log 3540 -1414)**

Limestone, white to cream, microcrystalline, fossiliferous, sub oolitic, white chert, surface etching, sharp, dense, chalky, fleeting odor, slight staining, questionable show

Limestone, cream, microcrystalline, fossiliferous, pyritic, weathered, sharp, soft to dense, chalky, no shows

**Base KC 3563 -1437 (log 3577 -1451)**

Shale, red wash to gray, silty, gummy

Shale, gray wash to red, silty, gummy

Dolomitic limestone and weathered dolomite, spotty free oil in try, pyritic, multiple cherts, surface etching, chalky, soft to dense, fleeting odor

**Arbuckle 3614 -1488**

Dolomite, cream, medium - fine crystalline, recrystallized, dense, surface etching, free oil in tray, free oil on break, poor porosity, caliche-chalk, fleeting odor

3625' 30 min - Dolomite, cream, medium - fine crystalline, recrystallized, dense, surface etchings, free oil on break, sand, clear to cloudy, sub rounded, sub angular, fair cemented, free oil on break. 60 min - Dolomite, cream, fine to medium crystalline, dense, surface etchings, fair stain, free oil on break, bleeding oil, poor visible porosity, good odor, some oolitic chert, some cream sandy dolomite

3627-32, a.a.

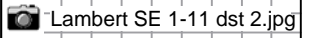
3732-37 dolomite, cream to brown, micro-fine crystalline, recrystallized, some fair to good small intercrystalline solution vugs, golden to dark brown stain, fair show free oil, strong odor, bright green fluorescence, chert and sandy dolomite dropping out

3737-60 a.a., slight decrease in show, some dense lithographic dolomites

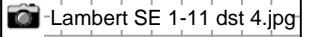
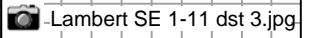
mixed dolomite, tan to cream, micro to cryptocrystalline, recrystallized, some weathered/chalky, poor to scattered small vuggy porosity with some caliche infill, slight staining, few pieces slight show oil on break, flood caliche and white to gray opaque cherts, faint odor

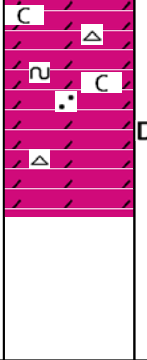
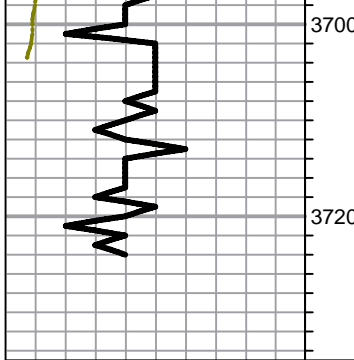
as above, decrease in caliche and chert, still carrying show as above, trace free oil and sheen in tray, faint odor

3710 sample dolomite grades to mixed white to cream, gray and tan, mixed crystalline, mostly recrystallized, some lithographic, some



Mud-Co Mud chk @ 3620 ft. 0930 hrs. 10/12/14 Vis. 57 Wt. 9.1 PV 17 YP 18 WL 7.2  
 Total Cake 1/32, pH 9.0, CCHL 4100 ppm, Ca 20 ppm, Sol 5.5 LCM 1#, DMC \$578.90, CMC \$7216.00

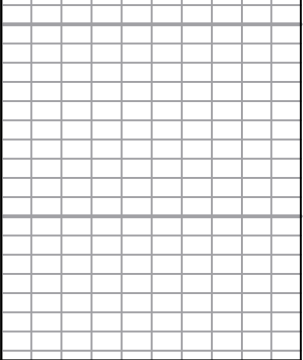




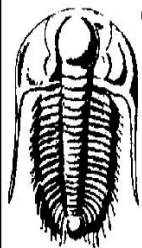
glauconitic, chalky to dense, some sandy, spotty black dead stain, no free oil, fleeting odor, abundant caliche and mixed cherts including oolitic

cfs samples, as above, marked decrease in caliche and chert, fleeting odor

**Rotary TD @ 3720 ft - 0100 hrs 10/14/14**  
**Nabors Wireline TD 3722 ft**  
**complete logging operations @ 1100 hrs 10/14/14**



# DRILL STEM TEST REPORT



**TRILOBITE  
TESTING, INC.**

Thomason Petroleum, Inc.

2717 Canah Blvd.  
P.O. Box 875  
Hays, KS 67601  
ATTN: Logan Walker

**Sec. 11-9s-20w Rooks**

**Lambert SE #1-11**

Job Ticket: 60707

**DST#: 1**

Test Start: 2014.10.11 @ 06:39:00

## GENERAL INFORMATION:

Formation: **Topeka - A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:40:30

Time Test Ended: 16:21:10

Test Type: Conventional Bottom Hole (Initial)

Tester: Phillip Gage

Unit No: 77

**Interval: 3225.00 ft (KB) To 3377.00 ft (KB) (TVD)**

Total Depth: 3377.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2134.00 ft (KB)

2126.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8898**

**Outside**

Press@RunDepth: 114.77 psig @ 3226.00 ft (KB)

Start Date: 2014.10.11

End Date: 2014.10.11

Start Time: 06:39:01

End Time: 16:21:10

Capacity: 8000.00 psig

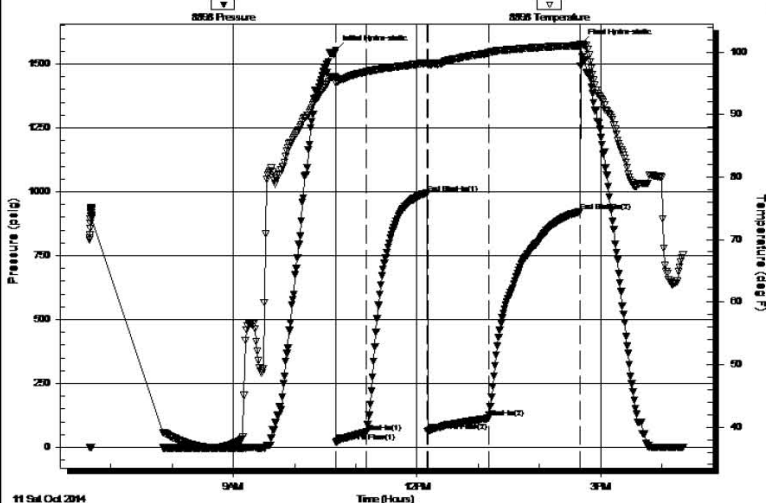
Last Calib.: 2014.10.11

Time On Btm: 2014.10.11 @ 10:40:20

Time Off Btm: 2014.10.11 @ 14:40:50

**TEST COMMENT:** 30-IF-Built to 8"  
60-ISI-No Return  
60-FF-BOB in 44 mins.  
90-FSI-Weak Surface Return, Died in 5 mins.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1554.78	95.89	Initial Hydro-static
1	20.33	94.99	Open To Flow (1)
31	58.73	96.80	Shut-In(1)
90	992.07	98.21	End Shut-In(1)
91	61.75	98.00	Open To Flow (2)
151	114.77	99.88	Shut-In(2)
240	921.34	101.02	End Shut-In(2)
241	1578.81	101.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	VSGWOCM, 5%g, 5%w, 10%o,80%m	0.46
63.00	SGOCM, 10%g, 20%o, 70%m	0.46
83.00	SOCM, 10%o, 90%m	0.61

Gas Rates

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



**TRIOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Thomason Petroleum, Inc.

2717 Canal Blvd.  
P.O. Box 875  
Hays, KS 67601  
ATTN: Logan Walker

**Sec. 11-9s-20w Rooks**

**Lambert SE #1-11**

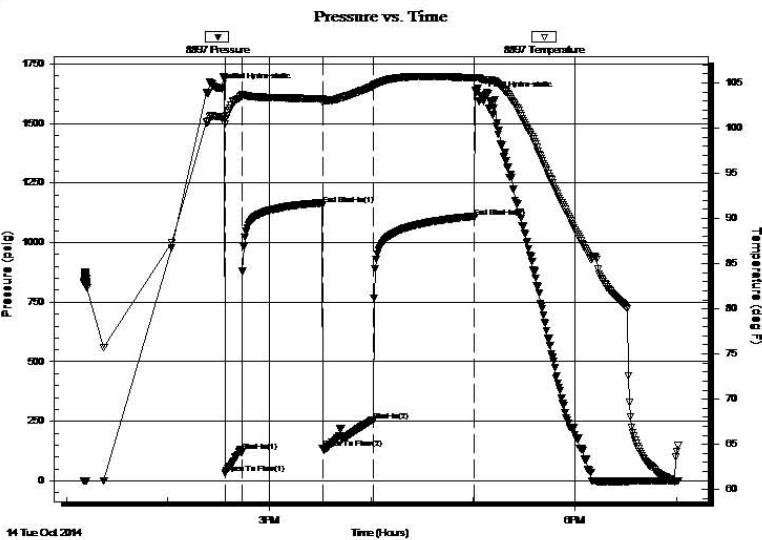
Job Ticket: 60711      **DST#: 5**  
Test Start: 2014.10.14 @ 13:10:19

**GENERAL INFORMATION:**

Formation: **LKC**  
Deviated: No    Whipstock:                      ft (KB)  
Time Tool Opened: 14:33:39  
Time Test Ended: 19:00:58  
Interval: **3370.00 ft (KB) To 3470.00 ft (KB) (TVD)**  
Total Depth: 3722.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches    Hole Condition: Fair  
Test Type: Conventional Straddle (Reset)  
Tester: Ray Schwager  
Unit No: 77  
Reference Elevations: 2134.00 ft (KB)  
2126.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8897      Inside**  
Press@RunDepth: 252.81 psig @ 3371.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.10.14      End Date: 2014.10.14      Last Calib.: 2014.10.14  
Start Time: 13:10:20      End Time: 19:00:59      Time On Btm: 2014.10.14 @ 14:29:59  
Time Off Btm: 2014.10.14 @ 17:04:29

TEST COMMENT: 10-IFP-w k to strg in 7min  
45-ISIP-no bl  
30-FFP-w k to strg in 15min  
60-FSIP-no bl



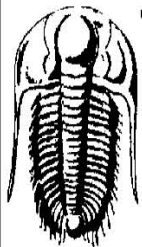
PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1649.27	101.25	Initial Hydro-static
4	31.79	100.47	Open To Flow (1)
14	121.38	103.58	Shut-In(1)
61	1158.34	103.28	End Shut-In(1)
62	136.39	102.86	Open To Flow (2)
91	252.81	104.63	Shut-In(2)
151	1107.34	105.56	End Shut-In(2)
155	1614.61	105.39	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
110.00	Mud	1.14
120.00	MW 25%M75%W	1.68
180.00	Water	2.52

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

\* Recovery from multiple tests

# DRILL STEM TEST REPORT



**TRILOBITE  
TESTING, INC.**

Thomason Petroleum, Inc.

2717 Canal Blvd.  
P.O. Box 875  
Hays, KS 67601  
ATTN: Logan Walker

**Sec. 11-9s-20w Rooks**

**Lambert SE #1-11**

Job Ticket: 60708

**DST#: 2**

Test Start: 2014.10.12 @ 10:49:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:34:40

Time Test Ended: 18:03:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 77

**Interval: 3549.00 ft (KB) To 3620.00 ft (KB) (TVD)**

Total Depth: 3620.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2134.00 ft (KB)

2126.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8898**

**Outside**

Press@RunDepth: 22.20 psig @ 3550.00 ft (KB)

Start Date: 2014.10.12

End Date: 2014.10.12

Capacity: 8000.00 psig

Start Time: 10:49:01

End Time: 18:03:50

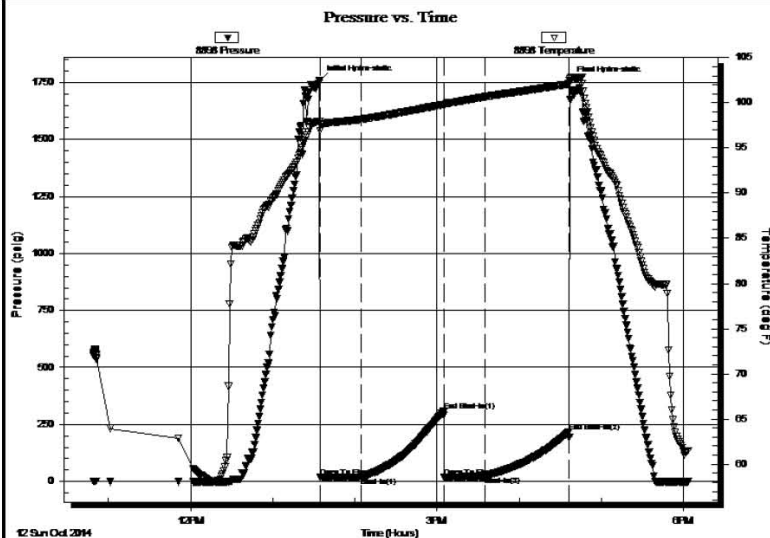
Last Calib.: 2014.10.12

Time On Btm: 2014.10.12 @ 13:34:30

Time Off Btm: 2014.10.12 @ 16:37:00

## TEST COMMENT:

30-IF-Built to 1"  
60-ISI-No Return  
30-FF-Weak Surface Blow  
60-FSI-No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1757.78	97.89	Initial Hydro-static
1	17.75	96.95	Open To Flow (1)
31	19.88	98.17	Shut-In(1)
91	307.38	99.82	End Shut-In(1)
91	20.53	99.71	Open To Flow (2)
121	22.20	100.66	Shut-In(2)
182	218.60	102.08	End Shut-In(2)
183	1752.99	102.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
7.00	VSOCM, 5%o, 95%m	0.05

\* Recovery from multiple tests

## Gas Rates

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

# DRILL STEM TEST REPORT

Thomason Petroleum, Inc.

**Sec. 11-9s-20w Rooks**

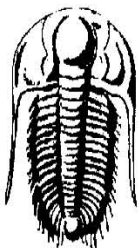
2717 Canal Blvd.  
P.O. Box 875  
Hays, KS 67601  
ATTN: Logan Walker

**Lambert SE #1-11**

Job Ticket: 60709

**DST#: 3**

Test Start: 2014.10.13 @ 00:09:00



**TRILOBITE  
TESTING, INC.**

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:00:10

Time Test Ended: 06:06:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 77

**Interval: 3619.00 ft (KB) To 3627.00 ft (KB) (TVD)**

Reference Elevations: 2134.00 ft (KB)

Total Depth: 3627.00 ft (KB) (TVD)

2126.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8898 Outside**

Press@RunDepth: 26.19 psig @ 3620.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.13

End Date: 2014.10.13

Last Calib.: 2014.10.13

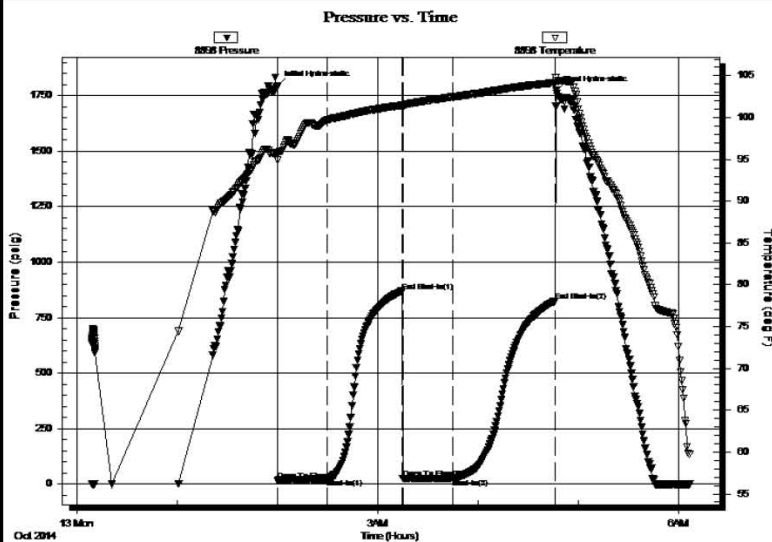
Start Time: 00:09:01

End Time: 06:06:50

Time On Btm: 2014.10.13 @ 02:00:00

Time Off Btm: 2014.10.13 @ 04:47:00

**TEST COMMENT:** 30-IF-Built to 1"  
45-ISI-No Return  
30-FF-Surface Blow  
60-FSI-No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1791.95	95.85	Initial Hydro-static
1	16.86	94.91	Open To Flow (1)
30	23.02	99.70	Shut-In(1)
75	866.42	101.46	End Shut-In(1)
75	24.92	101.17	Open To Flow (2)
105	26.19	102.47	Shut-In(2)
167	824.83	104.17	End Shut-In(2)
167	1772.14	104.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	VSOCM, 5%o, 95%m	0.07
1.00	O, 100%o	0.01

\* Recovery from multiple tests

## Gas Rates

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

# DRILL STEM TEST REPORT

Thomason Petroleum, Inc.

**Sec. 11-9s-20w Rooks**

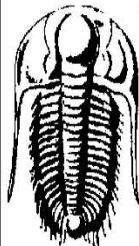
2717 Canal Blvd.  
P.O. Box 875  
Hays, KS 67601  
ATTN: Logan Walker

**Lambert SE #1-11**

Job Ticket: 60710

**DST#: 4**

Test Start: 2014.10.13 @ 11:56:00



**TRILOBITE  
TESTING, INC.**

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:29:40

Time Test Ended: 18:50:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 77

**Interval: 3627.00 ft (KB) To 3637.00 ft (KB) (TVD)**

Total Depth: 3637.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2134.00 ft (KB)

2126.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8898 Outside**

Press@RunDepth: 33.84 psig @ 3628.00 ft (KB)

Start Date: 2014.10.13

End Date: 2014.10.13

Start Time: 11:56:01

End Time: 18:50:50

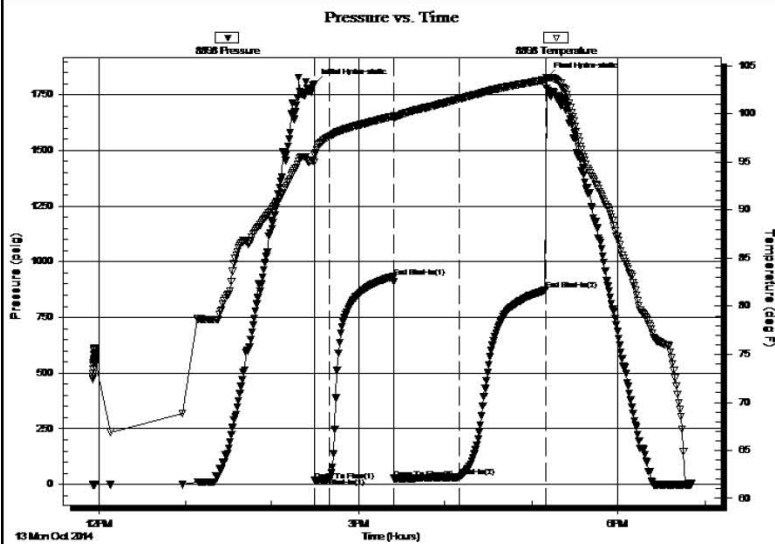
Capacity: 8000.00 psig

Last Calib.: 2014.10.13

Time On Btm: 2014.10.13 @ 14:29:30

Time Off Btm: 2014.10.13 @ 17:10:39

**TEST COMMENT:** 10-IF-Built to 1"  
45-ISI-No Return  
45-FF-Built to 1"  
60-FSI-No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1797.64	95.71	Initial Hydro-static
1	17.59	95.00	Open To Flow (1)
11	28.11	97.67	Shut-In(1)
55	931.86	99.78	End Shut-In(1)
56	26.83	99.56	Open To Flow (2)
101	33.84	101.57	Shut-In(2)
161	872.48	103.56	End Shut-In(2)
162	1827.63	103.80	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	SOCM, 10%o,90%m	0.15
10.00	WMCO, 15%w, 20%m, 65%o	0.07

## Gas Rates

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

\* Recovery from multiple tests

# 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. 763

Date	10-7-14	Sec.	11	Twp.	9	Range	20	County	Rooks	State	KS	On Location	7:00 PM	Finish	8:30 PM
Lease								Location		Zurich @ W to B D 7					

Lambert SE		Well No.	11-1	Owner		N to W B D 1 W 1/2 N into				
Contractor		Discovered 2		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.						
Type Job		Surface		Charge To		Thomason Petroleum				
Hole Size		12 3/4		T.D.		221				
Csg.		8 5/8		Depth		220				
Tbg. Size				Depth						
Tool				Depth						
Cement Left in Csg.		20 ft		Shoe Joint		20 ft				
Meas Line		Displace		17.3/4 BBL		270 gal				

**EQUIPMENT**

Pumptrk	20	No.	Cementer	Mitt	Common	150
			Helper		Poz. Mix	
Bulktrk	3	No.	Driver	Dick	Gel.	3
			Driver		Calcium	5
Bulktrk	pu	No.	Driver	Doug	Hulls	
			Driver	Tyson	Salt	

**JOB SERVICES & REMARKS**

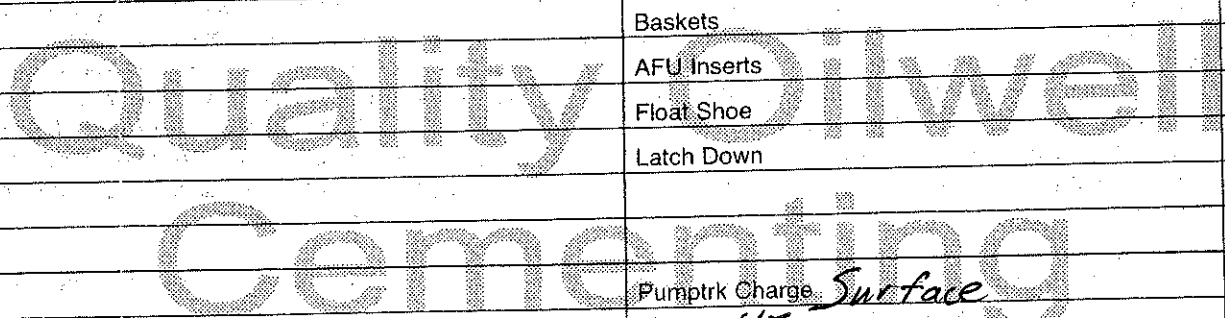
Remarks:	
Rat Hole	Flowseal
Mouse Hole	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand
	Handling 150
	Mileage

**FLOAT EQUIPMENT**

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge	Surface
Mileage	45
	Tax
	Discount
	Total Charge

X Signature *[Handwritten Signature]*





# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 400

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

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-15-14	11	9	20	Rooks	KS		1:45 Am.

Location *Zone A 3w 720 31 020 1w 120 Winto*

Lease	Well No.	Owner	
<i>Lambert SE</i>	<i>11-1</i>	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	Type Job	Charge To	
<i>D. Sweeney #2</i>	<i>Rotary Plug</i>	<i>Thomson Petroleum</i>	
Hole Size	T.D.	Street	
	<i>3720</i>		
Csg.	Depth	City	
<i>4 1/2 X-H</i>		State	
Tbg. Size	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
		Cement Amount Ordered <i>325 6 1/4 4 1/2 1/4 1/4</i>	
Tool	Depth		
Cement Left in Csg.	Shoe Joint		

Meas Line	Displace	Common
		<i>183</i>
EQUIPMENT		Poz. Mix
Pumptrk	No. Cementer	<i>122</i>
	Helper	Gel.
	Driver	<i>11</i>
Bulktrk	No. Driver	Calcium
	Driver	
Bulktrk	No. Driver	Hulls
	Driver	Salt

JOB SERVICES & REMARKS		Flowseal
Remarks:		<i>76#</i>
Rat Hole	<i>30SK</i>	Kol-Seal
Mouse Hole	<i>15SK</i>	Mud CLR 48
Centralizers		CFL-117 or CD110 CAF 38
Baskets		Sand
D/V or Port Collar		Handling
<i>1st 3594 50SK</i>		<i>316</i>
<i>2nd 1620 50SK</i>		Mileage
<i>3rd 924 100SK</i>		FLOAT EQUIPMENT
<i>4th 270 40SK</i>		Guide Shoe
<i>5th 40 10SK</i>		Centralizer
		Baskets
		<i>8 3/8 Dry Hole Plug</i>

AFU Inserts
Float Shoe
Latch Down
Pumptrk Charge
<i>plug</i>
Mileage
<i>45</i>

Tax
Discount
Total Charge

X Signature *Joe White*

