



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1122276

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
---	--	--

Form	ACO1 - Well Completion
Operator	Darrah, John Jay, Jr.
Well Name	Kratzer 11
Doc ID	1122276

Tops

Name	Top	Datum
Topeka	2412	-367
Heebner	2674	-899
Douglas	2703	-928
Brown Lime	2794	-1019
Lansing B Zone	2840	-1065
Base KC	3082	-1307
Simpson Shale	3130	-1355
Arbuckle	3189	-1414
TD	3285	-1510

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. 6060

Date	1-17-13	Sec.	21	Twp.	17	Range	8	County	Ellsworth	State	Ks	On Location		Finish	6:15 AM
------	---------	------	----	------	----	-------	---	--------	-----------	-------	----	-------------	--	--------	---------

Lease Kratzer Location 4+14 Jct, 3N, 1/2 W, 5T into

Well No. 11 Owner

Contractor Mallard To Quality Oilwell Cementing, Inc.
Type Job Surface You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 12 1/4" T.D. 260' Charge To Bo Darrah oil

Csg. 8 5/8" Depth 260' Street

Tbg. Size Depth City State

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

Cement Left in Csg. 20' Shoe Joint 20' Cement Amount Ordered 170 5X Common 3% cc

Meas Line Displace 15 1/4 BLS 2 1/2 gal

EQUIPMENT

Pumptrk 16 No. Cementer Travis Common 170
Helper

Bulktrk 13 No. Driver Lonnie M. Poz. Mix

~~Bulktrk~~ p.u. No. Driver Rick Gel. 3

JOB SERVICES & REMARKS

Remarks: Cement did Circulate. Calcium 6

Rat Hole Hulls

Mouse Hole Salt

Centralizers Flowseal

Baskets Kol-Seal

DV or Port Collar Mud CLR 48

Handling 179

Mileage

FLOAT EQUIPMENT

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge Surface

Mileage 54

Tax

Discount

Total Charge

X Signature

[Handwritten Signature]

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. 6065

Date	1-22-13	Sec.	21	Twp.	17	Range	8	County	Ellsworth	State	Ks	On Location		Finish	6:30 PM
Lease								Location		Kratzer 4+14 Jct, 3N to Rd V, 1/4 W, 5/16th					
Contractor								Well No.		Owner					
Mallard								11		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										Charge To					
Production										Bo Darcab oil					
Hole Size				T.D.		Depth		Cement Amount Ordered							
7 7/8"				3175'		3170'		130 5x Common 10% Salt							
Csg.				Depth		Street		Cement Amount Ordered							
5 1/2" 1/4#								130 5x Common 10% Salt							
Tbg. Size				Depth		City		State							
Tool				Depth		The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.				Shoe Joint		Cement Amount Ordered									
36'				36'		130 5x Common 10% Salt									
Meas Line				Displace		Cement Amount Ordered									
				76 1/2 BLS		130 5x Common 10% Salt									
EQUIPMENT												Common			
												130			
Pumptrk				No.		Cement		Poz. Mix							
16						Helper		Travis							
Bulktrk				No.		Driver		Gel.							
8						Driver		Lonnie w.							
Bulktrk				No.		Driver		Calcium							
p.u.						Driver		Rick							
JOB SERVICES & REMARKS												Hulls			
Remarks:												Salt			
Rat Hole												11			
30 5x												Flowseal			
Mouse Hole												Kol-Seal			
15 5x												600#			
Centralizers												Mud CLR 48			
												500 gal			
Baskets												CFL-117 or CD110 CAF 38			
D/V or Port Collar												Sand			
pipe on bottom, break												Handling			
Circulation, pump 500 gal Mud												147			
Clear 48, plug Rathole w/ 30 5x												Mileage			
Hook to 5 1/2" casing + mix															
70 5x Cement, shut down, wash												FLOAT EQUIPMENT			
pump + lines. Released plug +												Guide Shoe			
Displaced with 76 1/2 BLS of water.												1			
Released + Float held												Centralizer			
												3 Reg			
Lift pressure												Baskets			
600 #												AFU Inserts			
Land plug to												1			
1200 #												Float Shoe			
												Latch Down			
												1 - Rubbes plug			
												Pumptrk Charge			
												prod long string			
												Mileage			
												54			
Signature												Tax			
												Discount			
												Total Charge			



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil CO

21-17-8

225 N Market Suite 300
Wichita KS 67202

Kratzler#11

Job Ticket: 49522

DST#: 1

ATTN: Will Darrah/ Seth Ev

Test Start: 2013.01.20 @ 22:27:59

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 40.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 0.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2815' GIP	0.000
120.00	MUD	0.590

Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Darrah Oil CO

21-17-8

225 N Market Suite 300
Wichita KS 67202

Kratzler#11

Job Ticket: 49522

DST#: 1

ATTN: Will Darrah/ Seth Ev

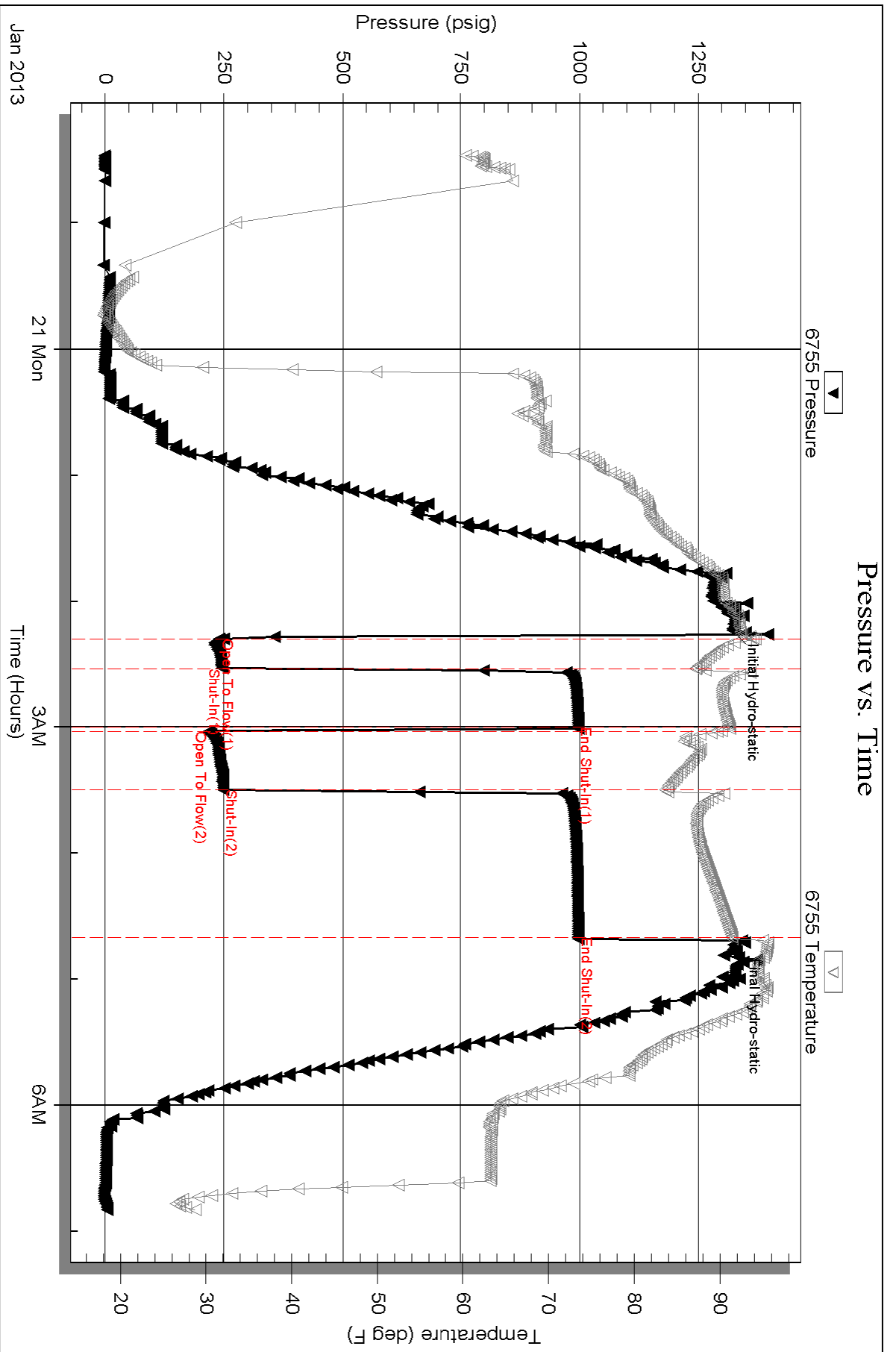
Test Start: 2013.01.20 @ 22:27:59

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	5	1.00	29.00	1247.70
1	15	1.00	35.00	1420.19
2	5	1.00	34.00	1391.44
2	10	1.00	39.00	1535.19
2	20	1.00	40.00	1563.93
2	30	1.00	39.00	1535.19



DARRAH

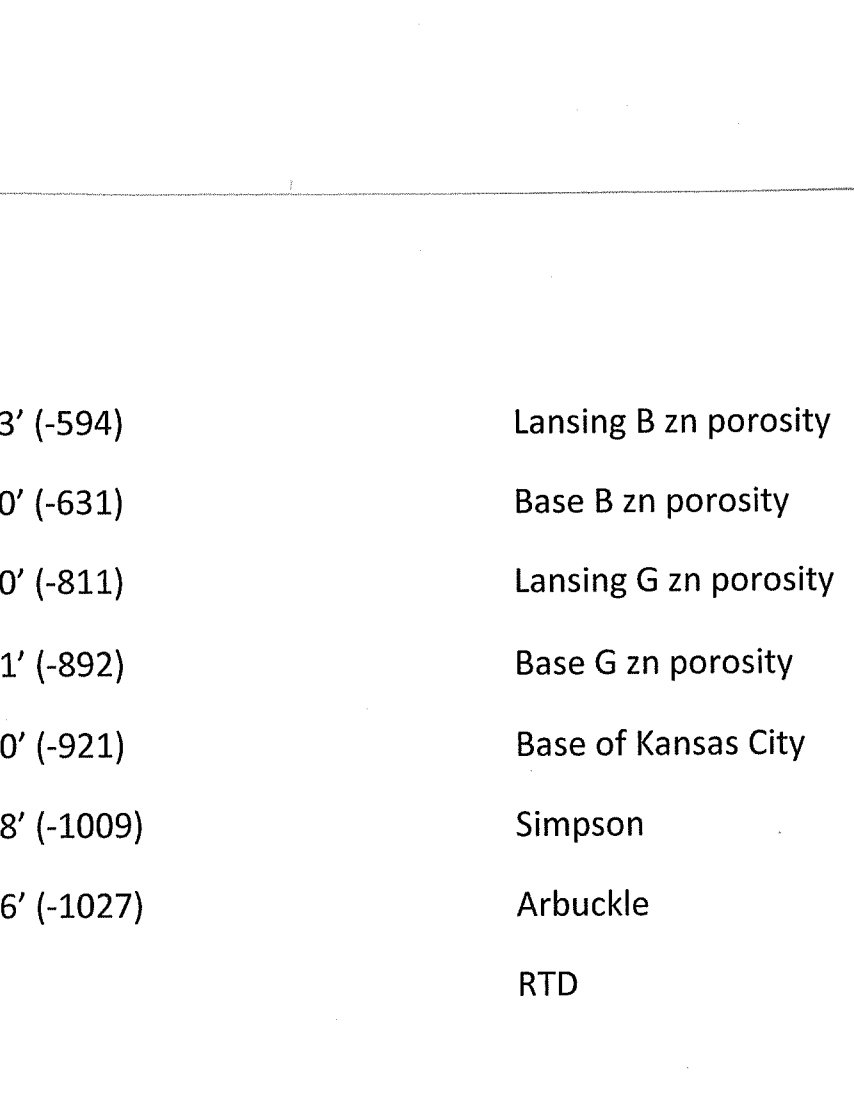
Geologic Report
#11 Kratzer
 15-053-1181

880' FNL & 955' FEL
 SEC 21 T17S R8W
 Ellsworth County MS

Contractor: Mallard JV
 Drilling Fluid: Chem mud
 Spud date: January 16th, 2013
 Drilling Complete: January 22nd, 2013

Geologist: Seth Evenson on location January 20th, 2013 @ 4:56^{PM} M.D.
 TO: 1717 (-1406)
 Drill time kept from 2300' to TD
 Samples examined from 2400' to TD

Elogs on None



Sample Tops

Severy shale	2363' (-594)	Lansing B zn porosity	2820' (-1051)
Topeka	2400' (-631)	Base B zn porosity	2842' (-1073)
Oread	2580' (-811)	Lansing G zn porosity	2908' (-1139)
Heebner	2661' (-892)	Base G zn porosity	2937' (-1168)
Douglas	2690' (-921)	Base of Kansas City	3108' (-1339)
Brown Lime	2778' (-1009)	Simpson	3118' (-1349)
Lansing	2796' (-1027)	Arbuckle	3164' (-1395)
		RTD	3175' (-1406)

Structural comparison:

#11 Kratzer	#10 Kratzer	#5 Kratzer/Janssen	#8 Janssen
SW/NE/NE 21-17S-8W	SE/NW/SE/NE 21-17S-8W	N2/NE/NE 21-17S-8W	N2/N2/NE 21-17S-8W
Heeb -892	-884 (-8)	-896 (+4)	NA
Doug -921	-912 (-9)	-925 (+4)	NA
Brn Lm -1009	-1003 (-6)	-1017 (+8)	-1027 (+18)
Lans -1027	-1022 (-5)	-1037 (+10)	-1046 (+19)
B zn -1051	-1049 (-2)	-1064 (+13)	-1070 (+29)
G zn -1139	-1127 (-10)	-1144 (+5)	-1146 (+7)
BKC -1339	-1326 (-13)	-1343 (+4)	-1351 (+12)
Simp -1349	-1337 (-12)	-1373 (+24)	-1393 (+44)
Arb -1395	-1385 (-10)	-1417 (+22)	-1418 (+23)

Formation Tests:

DST #1
 Lansing B
 2814'-2850'
 15-30-30-60
 IHP 1322#
 FHP 240#-246#
 ISIP 997#
 FSP 217#-248#
 FSP 997#
 FHP 1324#

Gas rates:
 Initial rate= 1248 MCFG/D @ 29 PSI
 Max rate= 1564 MCFG/D @ 40 PSI
 Final rate= 1535 MCFG/D @ 39 PSI

Rec:
 2815' GIP
 120' mud

The Kratzer #11 was drilled over a closed structural 3D seismic anomaly. Once again the 3D survey over the Kratzer/Janssen lease has been proven accurate. While not as high structurally as the #10; the #11 has adequately beaten all the offsetting wells surrounding it, and should prove to be a high ultimate recovery well. In addition to the positive indications from the Arbuckle, the Lansing B zone was tested since the zone developed so well on e-logs from the #10; but was not formation tested in that well. The B zone in the #11 gave up a large amount of gas at high rates, as shown by the DST results. Due in part to significant structural advantage, coupled with fair oil shows; it was decided to run 5.5 inch casing to 3166' MD; without formation testing the Arbuckle. The plug was set, and holding at 6:12pm on January 22nd, 2013. Darrah Oil can look forward to having another long lived commercial oil well on this lease, and possibility to produced significant gas reserves from the lease; sometime down the road.

Respectfully submitted by,

Seth Evenson
 Geologist
 Darrah Oil Company
 June 4th, 2013

DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
2300'				Severy shale 2363' (-594)
2400'				Topeka 2400' (-631)
2580'				Oread 2580' (-811)
2661'				Heebner 2661' (-892)
2690'				Douglas 2690' (-921)
2778'				Brown Lime 2778' (-1009)
2796'				Lansing 2796' (-1027)
2820'				Lansing B zone 2820' (-1051)
2842'				Base of Lansing B zone 2842' (-1073)
2908'				Base of Lansing G zone 2908' (-1139)
2937'				Base of Lansing G zone 2937' (-1168)
3108'				Base of Kansas City 3108' (-1339)
3118'				Simpson 3118' (-1349)
3164'				Arbuckle 3164' (-1395)
3175'				RTD 3175' (-1406)