



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1215360  
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: \_\_\_\_\_

1215360

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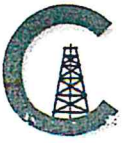
<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <i>(Submit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

**REMIT TO**  
P INV  
Consolidated Oil Well Services, LLC  
Dept. 970  
P.O. Box 4346  
Houston, TX 77210-4346

**MAIN OFFICE**  
P.O. Box 884  
Chanute, KS 66720  
620/431-9210 • 1-800/467-8676  
Fax 620/431-0012

INVOICE

Invoice # 268722

Invoice Date: 06/11/2014 Terms: 0/0/30,n/30

Page 1

REC'D JUN 14 2014

RUNNING FOXES PETROLEUM INC  
6850 S. HAVANA STREET, ST.400  
CENTENNIAL CO 80112  
(303) 617-7242

GRUBER 3-3D  
46909  
3-1S-15E  
06-02-2014  
KS

Part Number	Description	Qty	Unit Price	Total
1131	60/40 POZ MIX	250.00	13.1800	3295.00
1118B	PREMIUM GEL / BENTONITE	2000.00	.2200	440.00
1102	CALCIUM CHLORIDE (50#)	450.00	.7800	351.00
1107	FLO-SEAL (25#)	75.00	2.4700	185.25
1110A	KOL SEAL (50# BAG)	1500.00	.4600	690.00
4277	DV TOOL SIZE 5 1/2" (STA	1.00	3381.0000	3381.00
4104	CEMENT BASKET 5 1/2"	3.00	240.0000	720.00

Description	Hours	Unit Price	Total
446 CEMENT PUMP	1.00	1085.00	1085.00
446 EQUIPMENT MILEAGE (ONE WAY)	100.00	.00	.00
491 TON MILEAGE DELIVERY	1.00	1656.75	1656.75

ENTER DIRECTLY INTO QUICKBOOKS

G&A

COMPANY RFP

DATE REC'D \_\_\_\_\_

DATE ENTERED \_\_\_\_\_

WELL	ACCOUNT/EXPENSE CODE	AMOUNT
501301032	4001	12,497.27

Parts: 9062.25 Freight: .00 Tax: 693.27 AR 12497.27  
 Labor: .00 Misc: .00 Total: 12497.27  
 Sublt: 20 Supplies: .00 Change: .00

Signed [Signature]

Date \_\_\_\_\_

BARTLESVILLE, OK  
918/338-0808

EL DORADO, KS  
316/322-7022

EUREKA, KS  
620/583-7664

PONCA CITY, OK  
580/762-2303

OAKLEY, KS  
785/672-8822

OTTAWA, KS  
785/242-4044

THAYER, KS  
620/839-5269

GILLETTE, WY  
307/686-4914

CUSHING, OK  
918/225-2650





**CONSOLIDATED**  
Oil Well Services, LLC

268722

TICKET NUMBER 46909  
LOCATION El Dorado  
FOREMAN Fuzz

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

125

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-2-14	6960	Grubbs 3-30	3	15	15E	Brown

CUSTOMER	TRUCK #	DRIVER	TRUCK #	DRIVER
Running Force Petroleum Mailing Address	446	Togin		
	491	Dugger		

CITY	STATE	ZIP CODE

JOB TYPE 2-stage-2nd HOLE SIZE 7 7/8 HOLE DEPTH 2714' CASING SIZE & WEIGHT 5 1/2 17#  
 CASING DEPTH 2715' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 10.8 # SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT 39.7 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE DU @ 1712'

REMARKS: Safety meeting on C&G #1. Pump 5 BBL water. Mix 309KS  
RT mix 2205KS 6040 gal 270cc w/6# Kolsal w/2# Glosal.  
Wash pump and lines. Drop plug and displace 40 BBL. 500' Lift  
close DU Tool @ 1300'. Cement did circulate approx 15 BBL  
to pit.

Thanks Fuzz & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	1085 <sup>00</sup>	1085 <sup>00</sup>
5406	100 miles	MILEAGE	430	N/C
5407A	11.75 ton	Ton mileage Delivery	141	1656 <sup>25</sup>
1131	250 SKS	6040 PMS	1318	3295 <sup>00</sup>
118B	2000 #	Bentonite	.22	440 <sup>00</sup>
4102	450 #	Calcium Chloride	.78	351 <sup>00</sup>
1107	75 #	Glo-seal	247	185 <sup>25</sup>
1110A	1500 #	Kol-seal	.46	690 <sup>00</sup>
4277	1	5 1/2 - DU Tool	3381 <sup>00</sup>	3381 <sup>00</sup>
4104	3	5 1/2 - cement Baskets	240 <sup>00</sup>	720 <sup>00</sup>
		Subtotal		11804 <sup>00</sup>
		Sales Tax		693 <sup>27</sup>
		Total		12497 <sup>27</sup>

**Completed**

AUTHORIZATION Cotton TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this for

# Daily Drilling Report

<b>Operator:</b> Running Foxes Petroleum	<b>Location:</b> 1070' FNL & 2310' FWL	<b>Coord.:</b> S2 SE NE NW
<b>Well Name:</b> Gruber 3-3D	<b>County:</b> Brown	<b>State:</b> KS
<b>Project Area:</b> Livingood	<b>API #:</b> 15-013-20042	<b>Sec.:</b> 3
<b>Spud Date:</b> 5/30/2014	<b>Lat/Long:</b>	<b>Twp:</b> 1S
<b>Field:</b> Livingood	<b>Logging Geologist:</b> Chad Counts/Lukas Thompson	<b>Rge:</b> 15E
	<b>GL Elev:</b> 1098' surveyed	<b>KB:</b> 1105'

<b>Drilling Contr:</b> C&G Drilling	<b>Toolpusher:</b> Tim Gullick/Duke Colter
<b>Surf. Casing:</b> 8 5/8"	<b>Cement Date:</b>
<b>Surf. Bit:</b> 12 1/4"	<b>Hole size:</b> 7 7/8"
<b>Bit #1:</b> 7 7/8" pdc	<b>Drilling fluid:</b> Water based mud
<b>Bit #2:</b> 7 7/8" button	<b>Mud Pumps:</b> 14 X 6 1/4" Continental Emsco
<b>Bit #3:</b>	

Date	Start Depth	End Depth	Ft. Drilled
6/2/14	2656	2714	58'

**Operations**

Drilling continued into the night down to TD. Rig was having some problems with pump pistons leaking, but no major problems occurred. 4:15am Reached TD at 2714'. 4:30am Short trip 15 stands. 5:00am Circulate 1 hour. 6:00am TOOH for Logs. 7:30am Rig up Loggers. 7:50 Tucker reached bottom of hole where tool became stuck. Loggers had to pull over max tension to release from bottom. 8:30 Tool released from bottom. 9:50am Tucker completed services. 12:20pm Trip in casing. See casing details below in comments section.

Time	Depth	Bit Weight	Pump PSI	Pump SPM	Table RPM	Mud Weight	Viscosity/LCM	Chlorides
3:00am	2702'	35k					49 6#	

**Mud/Chemicals Mixed:**  
 62 premium gel; 3 soda ash; 2 caustic soda; 2 super lig; 21 hulls; 21 cedar fiber; 6 Drill Paper; 7 Sawdust, 1 Drill Pac.

Formation Entered	Depth	Subsea	Units Gas	BG GAS	Prognosis	Hi/Low	Drill Stem Test			
Howard	616	489			616' KB	0	DST#	1	RECOVERY	Cement Surface Sacks
Topeka	652	453			654' KB	2' high	Interval:			
Lecompton	724	381			724' KB	0	Formation			Class
Plattsmouth	880	225			885' KB	5 high	Times			A
Heebner	940	165			940' KB	0	ISIP			Depth@TD
Lansing	1048	57			1045' KB	3' low	IFP			200'
Stark	1348	-243			1343' KB	5 low	FFP			
Lenapah	1399	-294			1395' KB	4 low	FSP			Cement Longstring Sacks
Cherokee	1552	-447			1550' KB	2 low	DST#	2	RECOVERY	
Bartlesville	1770	-665			1755' KB	15' low	Interval:			Class
Mississippian	2262	-1157			2261' KB	1' low	Formation			
Kinderhook	2368	-1263			2355' KB	13' low	Times			Depth@TD
Hunton	2606	-1501			2603' KB	3 low	ISIP			
Hunton Pay	2627	-1522			2611' KB	16 low	IFP			Cement Longstring Sacks
							FFP			
							FSP			Class
							DST#	3	RECOVERY	
							Interval:			Depth@TD
							Formation			
							Times			Cement Longstring Sacks
							ISIP			
							IFP			Class
							FFP			
							FSP			Depth@TD
							DST#			

OIL SHOWS	DESCRIPTION
Hunton 2627' - 2633'	(2627' - 2633') 100% tan-off white, sugary texture, fn xln, excellent porosity. Excellent show free oil, pungent odor, immediate cut, sample cup stained in oil. Large pinpoint vugs in dry sample.

**Comments:**  
 Casing TD: 2714'  
 One shoe joint at 38' with top latchdown plug. DV tool at joint 25, 1727'. Will need to drill out alluminum plug in tool at 1727'

Gruber 3-3D



# Daily Drilling Report

<b>Operator:</b> Running Foxes Petroleum	<b>Location:</b> 1070' FNL & 2310' FWL	<b>Coord.:</b> S2 SE NE NW
<b>Well Name:</b> Gruber 3-3D	<b>County:</b> Brown <b>State:</b> KS	<b>Sec.:</b> 3
<b>Project Area:</b> Livingood	<b>API #:</b> 15-013-20042	<b>Twp.:</b> 1S
<b>Spud Date:</b> 5/30/2014	<b>Lat/Long:</b>	<b>Rge.:</b> 15E
<b>Field:</b> Livingood	<b>Logging Geologist:</b> Chad Counts/Lukas Thompson	<b>GL Elev:</b> 1098' surveyed <b>KB:</b> 1105'

<b>Drilling Contr.:</b> C&G Drilling	<b>Set @:</b> 200.16'	<b>Toolpusher:</b> Tim Gullick/Duke Colter
<b>Surf. Casing:</b> 8 5/8"	<b>Out @:</b> 217'	<b>Cement Date:</b>
<b>Surf. Bit:</b> 12 1/4"	<b>In @:</b> 217'	<b>Hole size:</b> 7 7/8"
<b>Bit #1:</b> 7 7/8" pdc	<b>In @:</b> 2295'	<b>Drilling fluid:</b> Water based mud
<b>Bit #2:</b> 7 7/8" button	<b>In @:</b>	<b>Mud Pumps:</b> 14 X 6 1/4" Continental Emsco
<b>Bit #3:</b>		

Date	Start Depth	End Depth	Ft. Drilled
6/1/14	2295'	2656'	361'

**Operations**

No major problems occurred. 7:00 pm drilling continued into the Miss slowly through the night using 7 7/8" button bit. 3:00 am drilling into Kinderhook. 7:20 pm drilling into Hunton. 9:10 pm drilling into Hunton payzone. TD expected sometime in the early morning. Due to excessive rain fall Cat will be pulling loggers and cementers tomorrow morning. Expect logging approx. 5:00 am - 6:00 am.

Time	Depth	Bit Weight	Pump PSI	Pump SPM	Table RPM	Mud Weight	Viscosity/LCM	Chlorides
1:00 AM	2330	35,000			65	9.3	36	3.5
4:00 AM	2392	35,000			65	9.4	38	3
6:00 AM	2418	35,000			65	9.3	32	3
8:00 AM	2452	35,000			65	9.5	37	2
2:00 PM	2530	35,000			65	9.4	40	3
4:00 PM	2572	35,000			65	9.6	38	3
7:00 PM	2615	35,000			65	9.5	41	5

**Mud/Chemicals Mixed:**  
 96 premium gel; 6 soda ash; 3 caustic soda; 3 super lig; 12 hulls; 10 cedar fiber

Formation Entered	Depth	Subsea	Units Gas	BG GAS	Prognosis	Hi/Low	Drill Stem Test			
Howard	616	489			616' KB	0	DST#	1	RECOVERY	Cement Surface Sacks
Topeka	654	451			654' KB	0	Interval:		145	
Lecompton	723	382			724' KB	1 high	Formation			Class
Plattsmouth	880	225			885' KB	5 high	Times		A	
Heebner	940	165			940' KB	0	ISIP			Depth@TD
Lansing	1047	58			1045' KB	2 low	IFP		Cement Longstring Sacks	
Stark	1348	-243			1343' KB	5 low	FFP			200'
Lenapah	1399	-294			1395' KB	4 low	FSP		Cement Class	
Cherokee	1552	-447			1550' KB	2 low	DST# 2 RECOVERY			Depth@TD
Bartlesville	1767	-662			1755' KB	2 low	Interval:		Cement	
Mississippian	2270	-1165			2261' KB	9 low	Formation			Longstring
Kinderhook	2361	-1256			2355' KB	6 low	Times		Sacks	
Hunton	2606	-1501			2603' KB	3 low	ISIP			Class
Hunton Pay	2627	-1522			2611' KB	16 low	IFP		Depth@TD	
							FFP			
							FSP			
							DST# 3 RECOVERY			
							Interval:			
							Formation			
							Times			
							ISIP			
							IFP			
							FFP			
							FSP			
<b>OIL SHOWS</b>							<b>DESCRIPTION</b>			
Hunton 2627 - 2633'							(2627' - 2633') 100% tan-off white, sugary texture, fn xln, excellent porosity. Excellent show free oil, pungent odor, immediate cut, sample cup stained in oil. Large pinpoint vugs in dry sample.			

**Comments:**  
 Survey @ 622 = 1/4; 1150=1/4; 1553=1/4; 2149=1/2

**Gruber 3-3D**

# Daily Drilling Report

<b>Operator:</b> Running Foxes Petroleum	<b>Location:</b> 1070' FNL & 2310' FWL	<b>Coord.:</b> S2 SE NE NW
<b>Well Name:</b> Gruber 3-3D	<b>County:</b> Brown <b>State:</b> KS	<b>Sec.:</b> 3
<b>Project Area:</b> Livingood	<b>API #:</b> 15-013-20042	<b>Twp.:</b> 1S
<b>Spud Date:</b> 5/30/2014	<b>Lat/Long:</b>	<b>Rge.:</b> 15E
<b>Field:</b> Livingood	<b>Logging Geologist:</b> Chad Counts/Lukas Thompson	<b>GL Elev:</b> 1098' surveyed <b>KB:</b> 1105'

<b>Drilling Contr.:</b> C&G Drilling	<b>Set @:</b> 200.16'	<b>Toolpusher:</b> Tim Gullick/Duke Colter
<b>Surf. Casing:</b> 8 5/8"	<b>Out @:</b> 217'	<b>Cement Date:</b>
<b>Surf. Bit:</b> 12 1/4"	<b>In @:</b> 217'	<b>Hole size:</b> 7 7/8"
<b>Bit #1:</b> 7 7/8" pdc	<b>In @:</b> 2295'	<b>Drilling fluid:</b> Water based mud
<b>Bit #2:</b> 7 7/8" button	<b>In @:</b>	<b>Mud Pumps:</b> 14 X 6 1/4" Continental Emsco
<b>Bit #3:</b>		

Date	Start Depth	End Depth	Ft. Drilled
5/31/14	217'	2295'	2078'

**Operations**

Drilling continued through the night without any problems. 4:00 am arrived on location drilling through the Kansas City @ 1400. 4:45 pm mud up above the Mississippian with 2# LCM. 6:04 pm stopped drilling due to slow rate of penetration in the Mississippian. 6:15 pm start TOOH. 7:30 pm bit on bank. Bit in severe condition with 2 cutters completely missing. Estimate back to drilling @ 9:00 pm. Drilling on bottom with button bit, and expect TD sometime tomorrow.

Time	Depth	Bit Weight	Pump PSI	Pump SPM	Table RPM	Mud Weight	Viscosity/LCM	Chlorides

**Mud/Chemicals Mixed:**  
Will have report tomorrow.

Formation Entered	Depth	Subsea	Units Gas	BG GAS	Prognosis	Hi/Low	Drill Stem Test			
Howard	616	489			616' KB	0	<b>DST#</b>	1	<b>RECOVERY</b>	<b>Cement Surface Sacks</b>
Topeka	654	451			654' KB	0	<b>Interval:</b>			
Lecompton	723	382			724' KB	1 high	<b>Formation</b>			145
Plattsmouth	880	225			885' KB	5 high	<b>Times</b>			<b>Class</b>
Heebner	940	165			940' KB	0	<b>ISIP</b>			A
Lansing	1047	58			1045' KB	2 low	<b>IFP</b>			<b>Depth@TD</b>
Stark	1348	-243			1343' KB	5 low	<b>FFP</b>			200'
Lenapah	1399	-294			1395' KB	4 low	<b>FSP</b>			<b>Cement Longstring Sacks</b>
Cherokee	1552	-447			1550' KB	2 low	<b>Formation</b>			
Bartlesville	1767	-662			1755' KB	2 low	<b>Times</b>			<b>Class</b>
Mississippian					2261' KB		<b>ISIP</b>			
Kinderhook					2355' KB		<b>IFP</b>			<b>Depth@TD</b>
Hunton					2603' KB		<b>FFP</b>			
Hunton Pay					2611' KB		<b>FSP</b>			
							<b>Formation</b>			
							<b>Times</b>			
							<b>ISIP</b>			
							<b>IFP</b>			
							<b>FFP</b>			
							<b>FSP</b>			
							<b>Formation</b>			
							<b>Times</b>			
							<b>ISIP</b>			
							<b>IFP</b>			
							<b>FFP</b>			
							<b>FSP</b>			
<b>OIL SHOWS</b>							<b>DESCRIPTION</b>			
							Currently no oil shows.			

**Comments:**  
Survey @ 622 = 1/4; 1150=1/4; 1553=1/4; 2143=1/2

**Gruber 3-3D**

# Daily Drilling Report

<b>Operator:</b> Running Foxes Petroleum	<b>Location:</b> 1070' FNL & 2310' FWL	<b>Coord.:</b> S2 SE NE NW
<b>Well Name:</b> Gruber 3-3D	<b>County:</b> Brown <b>State:</b> KS	<b>Sec.:</b> 3
<b>Project Area:</b> Livingood	<b>API #:</b> 15-013-20042	<b>Twp.:</b> 1S
<b>Spud Date:</b> 5/30/2014	<b>Lat/Long:</b>	<b>Rge.:</b> 15E
<b>Field:</b> Livingood	<b>Logging Geologist:</b> Chad Counts/Lukas Thompson	<b>GL Elev:</b> 1098' surveyed <b>KB:</b> 1105'

<b>Drilling Contr.:</b> C&G Drilling	<b>Set @:</b> 200.16'	<b>Toolpusher:</b> Tim Gullick/Duke Colter
<b>Surf. Casing:</b> 8 5/8"	<b>Out @:</b> 217'	<b>Cement Date:</b>
<b>Surf. Bit:</b> 12 1/4"	<b>In @:</b> 217'	<b>Hole size:</b> 7 7/8"
<b>Bit #1:</b> 7 7/8" pdc	<b>In @:</b>	<b>Drilling fluid:</b> Water based mud
<b>Bit #2:</b> 7 7/8" button	<b>In @:</b>	<b>Mud Pumps:</b> 14 X 6 1/4" Continental Emsco
<b>Bit #3:</b>	<b>In @:</b>	

Date	Start Depth	End Depth	Ft. Drilled
5/30/14	0	217	217

**Operations**

7:00am C&G on location. Drilled rat hole, and started spudding. 10:30am Consolidated cementing arrived on location. 11:30am Plug down. 7:30pm Started drilling out of surface.

Time	Depth	Bit Weight	Pump PSI	Pump SPM	Table RPM	Mud Weight	Viscosity/LCM	Chlorides

**Mud/Chemicals Mixed:**

Formation Entered	Depth	Subsea	Units Gas	BG GAS	Prognosis	Hi/Low	Drill Stem Test			
Howard					624' KB		DST#	1	RECOVERY	Cement Surface
Topeka					658' KB		Interval:			Sacks
Lecompton					728' KB		Formation			Class
Plattsmouth					889' KB		Times			A
Heebner					944' KB		ISIP			Depth@TD
Lansing					1049' KB		IFP			Cement Longstring
Stark					1347' KB		FFP			Sacks
Lenapah					1399' KB		FSP			Class
Cherokee					1554' KB		DST#	2	RECOVERY	Depth@TD
Bartlesville					1769' KB		Interval:			Cement
Mississippian					2265' KB		Formation			Longstring
Kinderhook					2359' KB		Times			Sacks
Hunton					2607' KB		ISIP			Class
Hunton Pay					2613' KB		IFP			Depth@TD
							FFP			Cement
							FSP			Longstring
							DST#	3	RECOVERY	Sacks
							Interval:			Class
							Formation			Depth@TD
							Times			Cement
							ISIP			Longstring
							IFP			Sacks
							FFP			Class
							FSP			Depth@TD

OIL SHOWS	DESCRIPTION

**Comments:**

**Gruber 3-3D**