

# 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>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			Cement Surface
Howard	616	489			616' KB	0	DST#	1	RECOVERY	
Topeka	652	453			654' KB	2' high	Interval:			Sacks
Lecompton	724	381			724' KB	0	Formation			145
Plattsmouth	880	225			885' KB	5 high	Times			Class
Heebner	940	165			940' KB	0	ISIP			A
Lansing	1048	57			1045' KB	3' low	IFP			Depth@TD
Stark	1348	-243			1343' KB	5 low	FFP			200'
Lenapah	1399	-294			1395' KB	4 low	FSP			
Cherokee	1552	-447			1550' KB	2 low	DST# 2 RECOVERY			
Bartlesville	1770	-665			1755' KB	15' low	Interval:			
Mississippian	2262	-1157			2261' KB	1' low	Formation			
Kinderhook	2368	-1263			2355' KB	13' low	Times			
Hunton	2606	-1501			2603' KB	3 low	ISIP			
Hunton Pay	2627	-1522			2611' KB	16 low	IFP			
							FFP			
							FSP			
							DST# 3 RECOVERY			
							Interval:			
							Formation			
							Times			
							ISIP			
							IFP			
							FFP			
							FSP			
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**

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<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			
Topeka	654	451			654' KB	0	Interval:		Cement Surface Sacks			
Lecompton	723	382			724' KB	1 high	Formation					
Plattsmouth	880	225			885' KB	5 high	Times					
Heebner	940	165			940' KB	0	ISIP					
Lansing	1047	58			1045' KB	2 low	IFP					
Stark	1348	-243			1343' KB	5 low	FFP		Class			
Lenapah	1399	-294			1395' KB	4 low	FSP		Depth@TD			
Cherokee	1552	-447			1550' KB	2 low	DST# 2 RECOVERY					
Bartlesville	1767	-662			1755' KB	2 low				Interval:		200'
Mississippian	2270	-1165			2261' KB	9 low				Formation		
Kinderhook	2361	-1256			2355' KB	6 low				Times		
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						
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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:**  
 Survey @ 622 = 1/4; 1150=1/4; 1553=1/4; 2149=1/2

**Gruber 3-3D**

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<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		
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Mississippian					2261' KB		Formation		
Kinderhook					2355' KB		Times		Class
Hunton					2603' KB		ISIP		
Hunton Pay					2611' KB		IFP		Depth@TD
							FFP		
							FSP		
							DST# 3 RECOVERY		
							Interval:		Class
							Formation		
							Times		Depth@TD
							ISIP		
							IFP		
							FFP		
							FSP		

OIL SHOWS	DESCRIPTION
	Currently no oil shows.

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



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<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		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #f4a460;"><th>DST#</th><th>1</th><th>RECOVERY</th></tr> <tr><td>Interval:</td><td></td><td></td></tr> <tr><td>Formation</td><td></td><td></td></tr> <tr><td>Times</td><td></td><td></td></tr> <tr><td>ISIP</td><td></td><td></td></tr> <tr><td>IFP</td><td></td><td></td></tr> <tr><td>FFP</td><td></td><td></td></tr> <tr><td>FSP</td><td></td><td></td></tr> </table>	DST#	1	RECOVERY	Interval:			Formation			Times			ISIP			IFP			FFP			FSP			Cement Surface Sacks
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**Comments:**

**Gruber 3-3D**