

# Daily Drilling Report

<b>Operator:</b> Running Foxes Petroleum	<b>Location:</b> NW SW SW	<b>Coord.:</b> 990' FSL 330' FWL
<b>Well Name:</b> Herrmann 13-3B	<b>County:</b> Brown <b>State:</b> KS	<b>Sec.:</b> 3
<b>Project Area:</b> Brown County	<b>API #:</b> 15-013-20043	<b>Twp.:</b> 1S
<b>Spud Date:</b> 6/20/2014	<b>Lat/Long:</b>	<b>Rge.:</b> 15E
<b>Field:</b> Livingood	<b>Logging Geologist:</b> Chad Counts/Lukas Thompson	<b>GL Elev:</b> 1122' surveyed <b>KB:</b> 1132'
<b>Drilling Contr.:</b> Summit Drilling	<b>Toolpusher:</b> Dan Cox	
<b>Surf. Casing:</b> 8 5/8"	<b>Set @:</b> 211'	<b>Cement Date:</b>
<b>Surf. Bit:</b> 12 1/4"	<b>Out @:</b> 232'	<b>Hole size:</b> 7 7/8"
<b>Bit #1:</b> 7 7/8" pdc	<b>In @:</b> 232'	<b>Drilling fluid:</b> Water based mud
<b>Bit #2:</b> 7 7/8" pdc	<b>In @:</b> 2655'	<b>Mud Pumps:</b> 14 X 6 1/2" Continental Emsco
<b>Bit #3:</b> 7 7/8" button	<b>In @:</b>	

Date	Start Depth	End Depth	Ft. Drilled
6/26/14	3332'	3440'	108'

**Operations**

8:00pm Pipe out of hole DC's at surface. 8:53pm TIH w test tools. 11:06pm Tool on bottom of hole. 12:06 End of DST #2. 12:42 TOOH. 2:56am Test tool on bank. 4:00am TIH w/bit. Strapping pipe in hole. 3.60' board short. 8:30am back to drilling. Drilling continued through out the day without any issues. Very minor mud loss.

Time	Depth	Bit Weight	Pump PSI	Pump SPM	Table RPM	Mud Weight	Viscosity/LCM	Chlorides
2:00pm	3400'	30k			50	9	48 16#	

**Mud/Chemicals Mixed:**  
 30sx MI gel; 2sx Soda Ash; 3sx Caustic; 1sx Lime; 6sx c/s hulls; 2sx cedar fiber; 4sx liquid drill.

Formation Entered	Depth	Subsea	Units Gas	BG GAS	Prognosis	Hi/Low
Howard Limestone	642	490	0	0	644	2
Topeka Limestone	672	460	0	0	671	-1
Lecompton Limestone	743	389	0	0	741	-2
Plattsmouth Limestone	885	247	0	0	887	2
Heebner Shale	920	212	3	0	922	2
Lansing Group	1039	93	0	0	1044	5
Stark Shale	1355	-223	33	2	1360	5
Lenapah Limestone	1407	-275	3	3	1414	7
Cherokee Shale	1557	-425	37	0	1563	6
Bartlesville Sand	1800	-668	2	2	1803	3
Mississippian	2278	-1146	0	0	2252	-26
Kinderhook Shale	2398	-1266	0	0	2381	-17
Hunton Dolomite	2645	-1513	0	1	2626	-19
Hunton Pay	2646	-1514	2	1	2632	-14
Maquoketa Shale	3277	-2145	2	2	3259	-18
Viola Dolomite	3323	-2191	2	2	3310	-13
Viola Pay	3326	-2194	4	2	3314	-12

Drill Stem Test		
DST#	1	RECOVERY
Interval:	2636-2651	2020' water (chlorides 5,000 ppm) very slightly oil cut <1%
Formation	Hunton	Entire test put approximately 1/8 bbl oil onto pits.
Times	10-30-15-30	
ISIP	958	
IFP	955	
FFP	230-600psi	
FSP	618-885psi	
DST#	2	
Interval:	3324-3332'	35' Clean Oil (28 gravity at 60 degrees)
Formation	Viola	Intermittent very weak surface blow for amount of recovery. Potential loose connection. Test was short due to mud loss.
Times	15-20-20-30	
ISIP	982 #	
IFP	22#	
FFP	23#	
FSP	984#	
DST#	3	
Interval:		
Formation		
Times		
ISIP		
IFP		
FFP		
FSP		

OIL SHOWS	DESCRIPTION
Hunton 2646-2651' (poor-fair show)	(2646-2651') 90% tan dense micritic dol. A/A. 10% fn/med xln Dol, occ rare vuggy porosity, pinpoint, 3 or 4 cuttings large rhomb crystal, spotty oil stain, sl show free oil, poor/fair odor, 3 to 4 cutting bright green fluorescence, slow milky cut, light blue. Light oil show into mud pits. 2654-57' Dolomite, tan, micro xln, occ. pinpoint vugs. Spotty oil stain, fair odor, immediate chartreuse cut, partial stained sample cup with few oil globules floating in cup, poor-fair show free oil.(3327-3332') 20% sample brown-tan oil stained dolomite. Fn-med xln, fair-good visible pipoint vuggy porosity, fair odor, spotty oil stain, slow milky blue neon cut, good black oil saturation in dry samples.
Hunton 2654-2657' (Fair show.)	
Viola 3327-3332' (Fair show)	

**Comments:**  
 Will TD well at 12:00am, and should be near 3485'. Logging will occur at 4:00am, and running 5 1/2" casing will follow in the morning.





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<b>Project Area:</b> Brown County	<b>API #:</b> 15-013-20043	<b>Twp.:</b> 1S
<b>Spud Date:</b> 6/20/2014	<b>Lat/Long:</b>	<b>Rge.:</b> 15E
<b>Field:</b> Livingood	<b>Logging Geologist:</b> Chad Counts/Lukas Thompson	<b>GL Elev.:</b> 1122' surveyed <b>KB:</b> 1132'

  

<b>Drilling Contr.:</b> Summit Drilling	<b>Toolpusher:</b> Dan Cox
<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" pdc	<b>Mud Pumps:</b> 14 X 6 1/2" Continental Emsco
<b>Bit #3:</b> 7 7/8" button	

Date	Start Depth	End Depth	Ft. Drilled
6/25/14	3029'	3332'	303'

**Operations**

8:30pm 3074' Losing fluid. Build volume. Have 3/4 Return. 9:30pm Full returns. 10:00pm Losing fluid, mix tank. 10:30 back to drilling. 11:30pm 3140' Losing fluid, mix tank. Drilling continues with minor loss. 9:00am 3294' Losing volume. Mix tank. 10:30am Back to drilling. Deviation survey 1.5 degrees. 2:20pm In Viola formation. Circulate for samples. 3:10pm Start short trip of 26 stands. 3:40pm Trip to bottom. 4:30 Circulating on bottom. 5:20 spot 19 bbl mud with lighter LCM for tests. 5:30pm start TOOH. 7:50pm Drill collars at surface. 8:45 Trip in hole with test tool.

Time	Depth	Bit Weight	Pump PSI	Pump SPM	Table RPM	Mud Weight	Viscosity/LCM	Chlorides
3:00am	3225	18k			95	8.9	43 20#	
7:00am	3275'	18k				8.8	48 20#	
1:00pm	3318'	18k			80	8.8	48 25#	
2:00pm	3325'	18k			80	8.6	50 30#	

**Mud/Chemicals Mixed:**  
 33 MI Gel; 5 Soda Ash; 3 Caustic Soda; 3 Super Lig; 1 Drill Pac; 12 Walnut; 63 Cedar Fiber; 46 Drill Paper

Formation Entered	Depth	Subsea	Units Gas	BG GAS	Prognosis	Hi/Low
Howard Limestone	642	490	0	0	644	2
Topeka Limestone	672	460	0	0	671	-1
Lecompton Limestone	743	389	0	0	741	-2
Plattsmouth Limestone	885	247	0	0	887	2
Heebner Shale	920	212	3	0	922	2
Lansing Group	1039	93	0	0	1044	5
Stark Shale	1355	-223	33	2	1360	5
Lenapah Limestone	1407	-275	3	3	1414	7
Cherokee Shale	1557	-425	37	0	1563	6
Bartlesville Sand	1800	-668	2	2	1803	3
Mississippian	2278	-1146	0	0	2252	-26
Kinderhook Shale	2398	-1266	0	0	2381	-17
Hunton Dolomite	2645	-1513	0	1	2626	-19
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Drill Stem Test									
<b>DST#</b>	1	<b>RECOVERY</b>							
<b>Interval:</b>	2636-2651	2020' water (chlorides 5,000 ppm) very slightly oil cut <1%	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #f4a460;"><td><b>Cement Surface Sacks</b></td></tr> <tr><td>125</td></tr> <tr style="background-color: #f4a460;"><td><b>Class</b></td></tr> <tr><td>A 2%cc</td></tr> <tr style="background-color: #f4a460;"><td><b>Depth@TD</b></td></tr> <tr><td>211'</td></tr> </table>	<b>Cement Surface Sacks</b>	125	<b>Class</b>	A 2%cc	<b>Depth@TD</b>	211'
<b>Cement Surface Sacks</b>									
125									
<b>Class</b>									
A 2%cc									
<b>Depth@TD</b>									
211'									
<b>Formation</b>	Hunton								
<b>Times</b>	10-30-15-30	Entire test put approximately							
<b>ISIP</b>	958	1/8 bbl oil onto pits.							
<b>IFP</b>	955								
<b>FFP</b>	230-600psi								
<b>FSP</b>	618-885psi								
<b>DST#</b>	2	<b>RECOVERY</b>							
<b>Interval:</b>									
<b>Formation</b>									
<b>Times</b>									
<b>ISIP</b>									
<b>IFP</b>									
<b>FFP</b>									
<b>FSP</b>									
<b>DST#</b>	3	<b>RECOVERY</b>							
<b>Interval:</b>									
<b>Formation</b>									
<b>Times</b>									
<b>ISIP</b>									
<b>IFP</b>									
<b>FFP</b>									
<b>FSP</b>									

OIL SHOWS	DESCRIPTION
Hunton 2646-2651' (poor-fair show)	(2646-2651') 90% tan dense micritic dol, A/A. 10% fn/med xln Dol, occ rare vuggy porosity, pinpoint, 3 or 4 cuttings large rhomb crystal, spotty oil stain, sl show free oil, poor/fair odor, 3 to 4 cutting bright green fluorescence, slow milky cut, light blue. Light oil show into mud pits. 2654-57' Dolomite, tan, micro xln, occ. pinpoint vugs. Spotty oil stain, fair odor, immediate chartreuse cut, partial stained sample cup with few oil globules floating in cup, poor-fair show free oil.(3327-3332') 20% sample brown-tan oil stained dolomite. Fn-med xln, fair-good visible pipoint vuggy porosity, fair odor, spotty oil stain, slow milky blue neon cut, good black oil saturation in dry samples.
Hunton 2654-2657' (Fair show.)	
Viola 3327-3332' (Fair show)	

**Comments:**  
 Will be drill stem testing the Viola formation into early morning.



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<b>Project Area:</b> Brown County	<b>API #:</b> 15-013-20043	<b>Twp.:</b> 1S
<b>Spud Date:</b> 6/20/2014	<b>Lat/Long:</b>	<b>Rge.:</b> 15E
<b>Field:</b> Livingood	<b>Logging Geologist:</b> Chad Counts/Lukas Thompson	<b>GL Elev.:</b> 1122' surveyed <b>KB:</b> 1132'

  

<b>Drilling Contr.:</b> Summit Drilling	<b>Toolpusher:</b> Dan Cox
<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 1/2" Continental Emsco
<b>Bit #3:</b>	

Date	Start Depth	End Depth	Ft. Drilled
6/24/14	2651'	3029'	378'

**Operations**

12:58am Drilling at 2753' in Hunton. Jet #1 pit add mud to tank. 4:00am Service Rig. 7:00am Pump pressured up on bottom. Pulled up to circulated, and ream back to bottom to fix mud ring. 7:40am Back to drilling. 11:40am 2973' Jet #1. 12:48pm 3014' Lost circulation. Continue drilling to follow with tanks. 1:12pm Pulled six stands, and mix up mud volume. Dropped two bucket aquasorb on the formation, and gave time to set up while mixing mud. 2:10 pulled 10 stands to get off bottom. Continue mixing LCM mud for volume. 6:20pm trip in 16 stands. 6:30pm Break circulation. Ream to bottom. 6:55pm on bottom and drilling. 7:45pm Noticed mud starting to fall. Getting mud from frac tanks that was used on surface to add to volume.

Time	Depth	Bit Weight	Pump PSI	Pump SPM	Table RPM	Mud Weight	Viscosity/LCM	Chlorides
10:40pm	2718'	18k		54	63	9.2	51 vis 7#	
8:00am	2880'	18k				9	44 vis 9#	
8:40am	2910'	18k				9	42 vis 9#	

**Mud/Chemicals Mixed:**  
 118 MI Gel; 2 Soda ash; 3 Caustic soda; 2 Super Lig; 1 Drill Pac; 50 Cotton Seed Hulls;

Formation Entered	Depth	Subsea	Units Gas	BG GAS	Prognosis	Hi/Low
Howard Limestone	642	490	0	0	644	2
Topeka Limestone	672	460	0	0	671	-1
Lecompton Limestone	743	389	0	0	741	-2
Plattsmouth Limestone	885	247	0	0	887	2
Heebner Shale	920	212	3	0	922	2
Lansing Group	1039	93	0	0	1044	5
Stark Shale	1355	-223	33	2	1360	5
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Cherokee Shale	1557	-425	37	0	1563	6
Bartlesville Sand	1800	-668	2	2	1803	3
Mississippian	2278	-1146	0	0	2252	-26
Kinderhook Shale	2398	-1266	0	0	2381	-17
Hunton Dolomite	2645	-1513	0	1	2626	-19
Hunton Pay	2646	-1514	2	1	2632	-14
Maquoketa Shale					3259	
Viola Dolomite					3310	
Viola Pay					3314	

Drill Stem Test			
<b>DST#</b>	1	<b>RECOVERY</b>	
<b>Interval:</b>	2636-2651	2020' water (chlorides 5,000 ppm) very slightly oil cut <1%	<b>Cement Surface Sacks</b> 125 <b>Class</b> A 2%cc <b>Depth@TD</b> 211' <b>Cement Longstring Sacks</b>
<b>Formation</b>	Hunton	Entire test put approximately 1/8 bbl oil onto pits.	
<b>Times</b>	10-30-15-30		
<b>ISIP</b>	958		
<b>IFP</b>	955		
<b>FFP</b>	230-600psi		
<b>FSP</b>	618-885psi		
<b>DST#</b>	2	<b>RECOVERY</b>	
<b>Interval:</b>			<b>Cement</b> <b>Longstring Sacks</b> <b>Class</b> <b>Depth@TD</b>
<b>Formation</b>			
<b>Times</b>			
<b>ISIP</b>			
<b>IFP</b>			
<b>FFP</b>			
<b>FSP</b>			
<b>DST#</b>	3	<b>RECOVERY</b>	
<b>Interval:</b>			<b>Class</b> <b>Depth@TD</b>
<b>Formation</b>			
<b>Times</b>			
<b>ISIP</b>			
<b>IFP</b>			
<b>FFP</b>			
<b>FSP</b>			

OIL SHOWS	DESCRIPTION
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Hunton 2654-2657' (Fair show.)	

**Comments:**



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<b>Project Area:</b> Brown County	<b>API #:</b> 15-013-20043	<b>Sec.:</b> 3
<b>Spud Date:</b> 6/20/2014	<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> 1122' surveyed
		<b>KB:</b> 1132'

  

<b>Drilling Contr.:</b> Summit Drilling	<b>Toolpusher:</b> Dan Cox
<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 1/2" Continental Emsco
<b>Bit #3:</b>	

Date	Start Depth	End Depth	Ft. Drilled
6/23/14	2207'	2651'	443'

**Operations**

11:20pm Stop to circulate in Hunton @ 2650'. CFS 45min. 12:15 Working on conditioning mud for test (9.1 vis 55). 12:50 Started short trip to collars. Never pulled tight. 2:45 Tripping back to bottom. 3:25am Break circulation 40 stands out. 3:40am Hit a bridge w/34 joints out. 4:55am On bottom. Circulate and condition mud. 6:28am TOOH for DST #1. 8:05am Drill collars at surface. Collars took alot of torque to break. 9:05 make up tools.9:50 TIH w/ tool & collars. 11:30 Tool on bottom. 11:40am Open tool. 11:48am Close tool. 12:20pm Open tool. 12:32pm Closed tool. 1:03pm TOOH. 3:00pm pulling wet pipe. 5:15 tool at surface. 5:45 TIH w/bit #2. 7:47pm On bottom w/bit. Circulate drill stem bubble 30 minutes. 8:20pm resume drilling.

Time	Depth	Bit Weight	Pump PSI	Pump SPM	Table RPM	Mud Weight	Viscosity/LCM	Chlorides
6:28am	2651'	18k			60-80	9.1	vis 55 3# LCM	
8:00pm	2654'	18k			60	9.1	vis 52 4.5# LCM	

**Mud/Chemicals Mixed:**  
 35 MI Gel; 3sx Soda Ash; 2sx Caustic Soda; 3sx Super Lig; 6sx Bicarbonate.

Formation Entered	Depth	Subsea	Units Gas	BG GAS	Prognosis	Hi/Low
Howard Limestone	642	490	0	0	644	2
Topeka Limestone	672	460	0	0	671	-1
Lecompton Limestone	743	389	0	0	741	-2
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Maquoketa Shale					3259	
Viola Dolomite					3310	
Viola Pay					3314	

Drill Stem Test			Cement Surface Sacks
DST#	1	RECOVERY	
Interval:	2636-2651	2020' water (chlorides 5,000 ppm) very slightly oil cut <1% Entire test put approximately 1/8 bbl oil onto pits.	125
Formation	Hunton		
Times	10-30-15-30		
ISIP	958		
IFP	955		Class
FFP	230-600psi		A 2%cc
FSP	618-885psi		Depth@TD
DST#	2	RECOVERY	211'
Interval:			
Formation			
Times			
ISIP			
IFP			Cement
FFP			Longstring
FSP			Sacks

DST#	3	RECOVERY	Class
Interval:			
Formation			
Times			
ISIP			
IFP			Depth@TD
FFP			
FSP			

OIL SHOWS	DESCRIPTION
Hunton 2646-2651' (poor-fair show)	(2646-2651') 90% tan dense micritic dol, A/A. 10% fn/med xln Dol, occ rare vuggy porosity, pinpoint, 3 or4 cuttings large rhomb crystal, spotty oil stain, sl show free oil, poor/fair odor, 3 to 4 cutting bright green fluorescence, slow milky cut, light blue. Light oil show into mud pits.

**Comments:**  
 The Hunton fromation has fallen low to prognosis and seismic correlations. However, with surrounding datums in the Viola; the datum here should still be within the oil conatct. Drilling will continue down to the Viola datum to check for pay, pay, and DST #2 if favorable.







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<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 1/2" Continental Emsco
<b>Bit #3:</b>	

Date	Start Depth	End Depth	Ft. Drilled
6/22/14	1022'	2207'	1385'

**Operations**

Drilling continued throughout the night, and day without any problems. 1:04am Drilling out of Kansas City. 4:46am Drilling into Cherokee at 1557'. 9:05am drilling in Bartlesville sand. 1:00pm Started adding mud from surface excess to sytem. 4:00pm Drilling into Mississippian. 6:43pm Drilling into Kinderhook shale. Working on bringing mud weight down to 9.0 and vis near 48 for drilling Hunton formation. Plan to short trip on top of Hunton before drilling into reservoir. Will test if favorable reservoir and structural position.

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
Howard Limestone	642	490	0	0	644	2
Topeka Limestone	672	460	0	0	671	-1
Lecompton Limestone	743	389	0	0	741	-2
Plattsmouth Limestone	885	247	0	0	887	2
Heebner Shale	920	212	3	0	922	2
Lansing Group	1039	93	0	0	1044	5
Stark Shale	1355	-223	33	2	1360	5
Lenapah Limestone	1407	-275	3	3	1414	7
Cherokee Shale	1557	-425	37	0	1563	6
Bartlesville Sand	1735	-603	2	2	1803	68
Mississippian	2278	-1146	0	0	2252	-26
Kinderhook Shale	2398	-1266	0	0	2381	-17
Hunton Dolomite					2626	
Hunton Pay					2632	
Maquoketa Shale					3259	
Viola Dolomite					3310	
Viola Pay					3314	

Drill Stem Test		
DST#	1	RECOVERY
Interval:		
Formation		
Times		
ISIP		
IFP		
FFP		
FSP		
DST#	2	RECOVERY
Interval:		
Formation		
Times		
ISIP		
IFP		
FFP		
FSP		
DST#	3	RECOVERY
Interval:		
Formation		
Times		
ISIP		
IFP		
FFP		
FSP		

OIL SHOWS	DESCRIPTION
	No oil shows.



# Daily Drilling Report

<b>Operator:</b> Running Foxes Petroleum	<b>Location:</b> NW SW SW	<b>Coord.:</b> 990' FSL 330' FWL
<b>Well Name:</b> Herrmann 13-3B	<b>County:</b> Brown	<b>State:</b> KS
<b>Project Area:</b> Brown County	<b>API #:</b> 15-013-20043	<b>Sec.:</b> 3
<b>Spud Date:</b> 6/20/2014	<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> 1122' surveyed
		<b>KB:</b> 1132'

  

<b>Drilling Contr:</b> Summit Drilling	<b>Toolpusher:</b> Dan Cox	
<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 1/2" Continental Emsco	
<b>Bit #3:</b>		

Date	Start Depth	End Depth	Ft. Drilled
6/21/14	232'	1022'	790'

**Operations**

5:15am Nipple up. 6:30am Started drilling out of plug. 7:45am Drilling at 295'. 12:50pm Drilling in Topeka at 672' 3:00pm Deviation Survey at 739' (1/2 degree). 3:15 back to drilling. 3:20pm Drilling in Lecompton. 5:45pm Drilling into Douglas shale. 7:20pm Drilling into Lansing. No major drilling problems throughout the day. Inconsistent drilling was noted in the Douglas shale, and was found that the drum brakes were warming unevenly, and causing the drum to hold up and drill unevenly.

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

**Mud/Chemicals Mixed:**  
 Drilling with water to the top of the Mississippian. Surface mud usage is now on yesterdays report.

Formation Entered	Depth	Subsea	Units Gas	BG GAS	Prognosis	Hi/Low
Howard Limestone	642	490	0	0	644	2
Topeka Limestone	672	460	0	0	671	-1
Lecompton Limestone	743	389	0	0	741	-2
Plattsmouth Limestone	885	247	0	0	887	2
Heebner Shale	920	212	3	0	922	2
Lansing Group	1039	93	0	0	1044	5
Stark Shale					1360	
Lenapah Limestone					1414	
Cherokee Shale					1563	
Bartlesville Sand					1803	
Mississippian					2252	
Kinderhook Shale					2381	
Hunton Dolomite					2626	
Hunton Pay					2632	
Maquoketa Shale					3259	
Viola Dolomite					3310	
Viola Pay					3314	

Drill Stem Test		
<b>DST#</b>	1	RECOVERY
<b>Interval:</b>		
<b>Formation</b>		
<b>Times</b>		
<b>ISIP</b>		
<b>IFP</b>		
<b>FFP</b>		
<b>FSP</b>		
<b>DST#</b>	2	RECOVERY
<b>Interval:</b>		
<b>Formation</b>		
<b>Times</b>		
<b>ISIP</b>		
<b>IFP</b>		
<b>FFP</b>		
<b>FSP</b>		
<b>DST#</b>	3	RECOVERY
<b>Interval:</b>		
<b>Formation</b>		
<b>Times</b>		
<b>ISIP</b>		
<b>IFP</b>		
<b>FFP</b>		
<b>FSP</b>		

<b>Cement Surface</b>
<b>Sacks</b>
125
<b>Class</b>
A 2%cc
<b>Depth@TD</b>
211'
<b>Cement Longstring</b>
<b>Sacks</b>
<b>Class</b>
<b>Depth@TD</b>

OIL SHOWS	DESCRIPTION

# Daily Drilling Report

<b>Operator:</b> Running Foxes Petroleum	<b>Location:</b> NW SW SW	<b>Coord.:</b> 990' FSL 330' FWL
<b>Well Name:</b> Herrmann 13-3B	<b>County:</b> Brown <b>State:</b> KS	<b>Sec.:</b> 3
<b>Project Area:</b> Brown County	<b>API #:</b> 15-013-20043	<b>Twp:</b> 1S
<b>Spud Date:</b> 6/20/2014	<b>Lat/Long:</b>	<b>Rge:</b> 15E
<b>Field:</b> Livingood	<b>Logging Geologist:</b> Chad Counts/Lukas Thompson	<b>GL Elev:</b> 1122' surveyed <b>KB:</b> 1132'

  

<b>Drilling Contr:</b> Summit Drilling	<b>Toolpusher:</b> Dan Cox
<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 1/2" Continental Emsco
<b>Bit #3:</b>	

Date	Start Depth	End Depth	Ft. Drilled
6/20/14	0	232'	232'

**Operations**

Rig started spudding last night at 8:00pm. 10:15pm Lost circulation at 82'. Mixed mud. 12:28am dumped tank. 12:53am No returns. Mixed more mud. 2:00.am dropped mud with higher LCM. 3:45am Dropped tank 3. No returns. 5:58am Drop tank 4. Some return to surface. 6:20am Loosing fluid. Mixed tank 5. 8:00am Shoved sacks and plastic down hole with tank. 9:50am Drill for 15', and lost circulation. 10:25 mixed tank 7 6. 12:20 dropped tank with poly swell. 1:35pm started drilling, and holding fluid. 6:00pm Reached surface TD @ 232'. 7:30pm Out of hole with bit. 8:30pm Consolidated cementing well. 9:15 Plug down. No loss of cement. Will drill out plug at 5:15am.

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

**Mud/Chemicals Mixed:**  
 165sx MI Gel; 1sx Soda Ash; 2sx Lime; 76sx C/S Hulls; 65sx Cedar Fiber; 45 sx Drill Paper; 2 bkts Aqua Gel; 11sx walnut shells

Formation Entered	Depth	Subsea	Units Gas	BG GAS	Prognosis	Hi/Low
Howard Limestone					644	
Topeka Limestone					671	
Lecompton Limestone					741	
Plattsmouth Limestone					887	
Heebner Shale					922	
Lansing Group					1044	
Stark Shale					1360	
Lenapah Limestone					1414	
Cherokee Shale					1563	
Bartlesville Sand					1803	
Mississippian					2252	
Kinderhook Shale					2381	
Hunton Dolomite					2626	
Hunton Pay					2632	
Maquoketa Shale					3259	
Viola Dolomite					3310	
Viola Pay					3314	

Drill Stem Test		
DST#	1	RECOVERY
Interval:		
Formation		
Times		
ISIP		
IFP		
FFP		
FSP		
DST#	2	RECOVERY
Interval:		
Formation		
Times		
ISIP		
IFP		
FFP		
FSP		
DST#	3	RECOVERY
Interval:		
Formation		
Times		
ISIP		
IFP		
FFP		
FSP		

Cement Surface Sacks
125
Class
A 2%cc
Depth@TD
211'

Cement Longstring Sacks
Class
Depth@TD

OIL SHOWS	DESCRIPTION