

**McPherson Drilling LLC Drillers Log**

**PO# LRG010511-7**

**AFE# D10094**

<b>Rig Number:</b> 1	<b>S. 31</b>	<b>T. 34</b>	<b>R.18 E</b>
<b>API No. 15- 099-24633</b>	County: <b>LB</b>		
Elev. 827	Location:		

<b>Gas Tests:</b>	
229	0
360	2.76
404	2.76
435	2.76
455	2.76
505	6.01
530	6.01
605	6.01
640	6.01
800	7.37
820	7.37
891	7.37
904	5.64
920	5.64
1032	5.64
<b>Comments:</b>	
Start injecting @	904

<b>Operator:</b> POSTROCK
<b>Address:</b> 210 Park Ave Ste 2750 Oklahoma City, OK 73102-5641
<b>Well No:</b> 31-1 <b>Lease Name:</b> HOUGH EILEEN
<b>Footage Location:</b> 1,500 ft. from the NORTH Line
1,430 ft. from the WEST Line
<b>Drilling Contractor:</b> McPherson Drilling LLC
<b>Spud date:</b> 1/7/2011 <b>Geologist:</b> Ken Recoy
<b>Date Completed:</b> 1/10/2011 <b>Total Depth:</b> 1032

<b>Casing Record</b>			<b>Rig Time:</b>	
	Surface	Production		
<b>Size Hole:</b>	11"	7 7/8"	ODOR @ 492	
<b>Size Casing:</b>	8 5/8"			
<b>Weight:</b>	20#		H2O @ 894" 1004"	
<b>Setting Depth:</b>	25	MCP		
<b>Type Cement:</b>	Portland		<b>DRILLER:</b> Andy Coats	
<b>Sacks:</b>	4	MCP		

<b>Well Log</b>										
Formation	Top	Btm.	HRS.	Formation	Top	Btm.		Formation	Top	Btm.
SOIL	0	2		SHALE	474	497		SHALE	811	821
LIME	2	9		BLACKSHALE	497	501		BLACKSHALE	821	822
SHALE	9	46		SHALE	501	505		SHALE	822	833
COAL	46	48		COAL	505	508		BLACKSHALE	833	834
LIME	48	52		BLACKSHALE	508	510		SHALE	834	876
SAND	52	54		SANDSHALE	510	578		COAL	876	878
LIME	54	62		BLACKSHALE	578	580		SHALE	878	890
SHALE	62	196		SHALE	580	605		COAL	890	892
LIME	196	224		SANDSHALE	605	628		SHALE	892	894
COAL	224	227		COAL	628	632		MISS.LIME	894	1032
SHALE	227	312		SHALE	632	656				
COAL	312	354		BLACKSHALE	656	657				
SUMIT	354	358		SHALE	657	665				
LIME	358	390		COAL	665	667				
MULKY	390	395		SHALE	667	740				
LIME	395	399		COAL	740	742				
SHALE	399	429		SHALE	742	748				
COAL	429	431		BLACKSHALE	748	751				
SHALE	431	448		SHALE	751	761				
LIME	448	449		BLACKSHALE	761	762				
COAL	449	450		SHALE	762	781				
SANDSHALE	450	470		BLACKSHALE	781	782				
LIME	470	472		SHALE	782	809				
COAL	472	474		COAL	809	811				