

**McPherson Drilling LLC Drillers Log**

**PO#** **AFE# D11065**

<b>Rig Number:</b> 1	<b>S. 33</b>	<b>T. 28</b>	<b>R.18 E</b>
<b>API No. -105- 133-27567</b>	<b>County: Neosho</b>		
Elev. 932	<b>Location:</b>		

<b>Gas Tests:</b>	
153'	0
204'	116
354'	191
479'	181
555'	186
579'	186
605'	198
680'	134
730'	134
755'	134
805'	116
879'	116
930'	116
990'	147
1006'	147
1131'	159
<b>Comments:</b>	
Start injecting @	

<b>Operator:</b> POSTROCK			
<b>Address:</b> 210 Park Ave Ste 2750 Oklahoma City, OK 73102-5641			
<b>Well No:</b> 33-1	<b>Lease Name:</b> THORNTON		
<b>Footage Location:</b> 2,225 ft. from the NORTH Line			
966 ft. from the EAST Line			
<b>Drilling Contractor:</b> McPherson Drilling LLC			
<b>Spud date:</b> 6/29/2011	<b>Geologist:</b> Ken Recoy		
<b>Date Completed:</b> 6/30/2011	<b>Total Depth:</b> 1131		

<b>Casing Record</b>			<b>Rig Time:</b>	
	Surface	Production		
<b>Size Hole:</b>	11"	7 7/8"		
<b>Size Casing:</b>	8 5/8"			
<b>Weight:</b>	20#			
<b>Setting Depth:</b>	21	MCP	300'	h2o
<b>Type Cement:</b>			<b>DRILLER:</b>	Andy Coats
<b>Sacks:</b>		Pump Truck		

<b>Well Log</b>										
<b>Formation</b>	<b>Top</b>	<b>Btm.</b>	<b>HRS.</b>	<b>Formation</b>	<b>Top</b>	<b>Btm.</b>		<b>Formation</b>	<b>Top</b>	<b>Btm.</b>
soil	0	4		coal	333	335		shale	754	790
clay	4	9		sand shale	335	360		coal	790	792
west shale	9	14		lime	360	373		shale	792	860
shale	14	33		shale	373	381		coal	860	861
lime	33	39		sand shale	381	410		shale	861	923
shale	39	57		black shale	410	413		coal	923	924
lime	57	94		shale	413	452		shale	924	926
shale	94	96		lime	452	459		coal	926	928
lime	96	128		coal	459	461		shale	928	985
shale	128	131		lime	461	503		coal	985	987
lime	131	140		shale	503	545		shale	987	994
shale	140	145		oswego lime	545	569		miss	994	1131
coal	145	148		summit	569	576				
shale	148	167		lime	576	581				
sand shale	167	184		mulky	581	586				
shale	184	193		lime	586	587				
lime	193	199		shale	587	660				
shale	199	202		coal	660	663				
coal	202	204		shale	663	722				
shale	204	229		coal	722	724				
lime	229	268		shale	724	740				
shale	268	273		coal	740	742				
black shale	273	277		shale	742	753				
shale	277	333		coal	753	754				