McPherson Drilling LLC Drillers Log

PO# **AFE# D11044**

Rig Number:	**1**	**S. 31**	**T. 33** **R.18 E**
API No. -105-	**099-24637**	County:	**Labette**
	Elev. 767	Location:	

Operator:	POSTROCK			
Address:	210 Park Ave Ste 2750			
	Oklahoma City, OK 73102-5641			
Well No:	**31-1**	Lease Name:	**BUSSMAN**	
Footage Location:	1,880	ft. from the	SOUTH	Line
	500	ft. from the	EAST	Line
Drilling Contractor:	**McPherson Drilling LLC**			
Spud date:	6/16/2011	Geologist:	Ken Recoy	
Date Completed:	6/17/2011	Total Depth:	975	

Gas Tests:

54'	0
303'	0
339'	0
378'	2.13
429'	2.13
453'	2.13
479'	19.9
579'	19.9
629'	20.9
655'	19.9
755'	21.9
805'	17.2
821'	145
830'	145
975'	158

Comments:
Start injecting @

Casing Record

	Surface	Production
Size Hole:	11"	7 7/8"
Size Casing:	8 5/8"	
Weight:	20#	
Setting Depth:	22	MCP
Type Cement:	Port	
Sacks:	4	MCP

Rig Time:

298'	ODOR
830'	h2o
DRILLER:	Andy Coats

Well Log

Formation	Top	Btm.	HRS.	Formation	Top	Btm.		Formation	Top	Btm.
soil	0	8		black shale	477	478				
lime	8	27		shale	478	490				
shale	27	39		black shale	490	491				
lime	39	49		shale	491	510				
black shale	49	52		coal	510	513				
lime	52	64		shale	513	570				
shale	64	81		coal	570	572				
sand shale	81	94		shale	572	598				
shale	94	196		coal	598	600				
lime	196	224		shale	600	605				
coal	224	227		coal	605	606				
shale	227	296		shale	606	628				
oswego	296	328		wet sand	628	648				
summit	328	333		shale	648	651				
lime	333	363		coal	651	653				
mulky	363	370		shale	653	749				
lime	370	375		coal	749	751				
shale	375	426		shale	751	792				
coal	426	428		coal	792	793				
shale	428	445		shale	793	815				
coal	445	446		coal	815	817				
shale	446	458		shale	817	827				
coal	458	460		miss	827	975				
shale	460	477								