McPherson Drilling LLC Drillers Log

PO# TLC 121510-1 AFE# D10069

Rig Number:	1	S. 18	T. 33 R.13 E
API No. 15-	019-27034	County:	CHAUTAUGUA
Elev.	1005	Location:	N2 SE SE NE

Operator:	POSTROCK			
Address:	210 Park Ave Ste 2750			
	Oklahoma City, OK 73102-5641			
Well No:	18-4	Lease Name:	JAMES PERKINS	
Footage Location:		2250 ft. from the	NORTH	Line
		330 ft. from the	EAST	Line
Drilling Contractor:	McPherson Drilling LLC			
Spud date:	12/17/2010	Geologist:	Ken Recoy	
Date Completed:	12/21/2010	Total Depth:	1554	

Gas Tests:

630	0.00	MCF
740	0.00	MCF
850	0.00	MCF
950	0.00	MCF
1050	0.00	MCF
1150	0.00	MCF

850 of water too much to test

wet at 214;320;501;780

Casing Record

	Surface	Production
Size Hole:	11"	7 7/8"
Size Casing:	8 5/8"	
Weight:	20#	
Setting Depth:	44	MCP
Type Cement:	Portland	
Sacks:	8	mcp

Rig Time:

DRILLER: Andy Coats

Start injecting @ 343

Well Log

Formation	Top	Btm.	HRS.	Formation	Top	Btm.		Formation	Top	Btm.
soil	0	2		sand shale	1030	1044				
shale	2	4		sand	1044	1080				
sand	4	51		lime	1080	1106				
shale	51	214		coal	1106	1107				
sand	214	241		lime	1107	1114				
sand shale	241	393		sand shale	1114	1235				
lime	393	406		lime	1235	1248				
shale	406	501		lime	1248	1259				
sand	501	522		coal	1259	1262				
sand shale	522	670		shale	1262	1322				
lime	670	701		oswego	1322	1354				
coal	701	703		summit	1354	1362				
shale	703	772		lime	1362	1379				
sand shale	772	810		mulky	1379	1384				
black shale	810	812		lime	1384	1395				
shale	812	885		shale	1395	1407				
lime	885	602		black shale	1407	1409				
shale	602	620		shale	1409	1554 TD				
black shale	620	624								
sand shale	624	910								
shale	910	984								
coal	984	985								
shale	985	1006								
lime	1006	1030								