McPherson Drilling LLC AFE# D13102 Drillers Log McPherson Drilling LLC

Rig Number: 2	S. 33 T. 26 R. 15 E
API No. 15-207-28565	County: Woodson
Elev. 1038'	Location: SE-NW-SW-SE

Gas Tests:
1056' Ø
1331' Slight Blow
Put oil on Pit from 1296' TO 1325'

Operator: Post Rock midcontinent Production
Address: Oklahoma Tower 210 Park Ave Ste 2750
Oklahoma city OK 73102
Well No: 33-3 Lease Name: Ecco Ranch
Footage Location: 825 ft. from the (N) (S) Line
2205 ft. from the (E) (W) Line
Drilling Contractor: McPherson Drilling LLC
Spud date: 6/13/13 Geologist:
Date Completed: 6/17/13 Total Depth: 1375'

Casing Record	Surface	Production	Rig Time:
Size Hole:	11"	7 7/8"	
Size Casing:	8 5/8"		
Weight:	23#		
Setting Depth:	41'	Post Rock	
Type Cement:	port	" "	
Sacks:	10		

Inj water @ 580'

Well Log

Formation	Top	Btm.		Formation	Top	Btm.		Formation	Top	Btm.	
Top Soil	0	2		lime	842	851		coal	1305	1306	
Sand Stone	2	28		shale	851	890		oil Sand	1306	1324	
Shale	28	161		sand	890	918	no sho	Shale	1324	1364	
lime	161	212		sand shale	918	940		coal	1364	1365	
shale	212	276		coal	940	942		Shale	1365	1375	TD
lime	276	313		shale	942	951					
shale	313	392		lime	951	965					
lime	392	440		Black shale	965	972					
shale	440	506		shale	972	996					
lime	506	565		lime	996	1015					
shale	565	571		sand	1015	1020					
sand	571	576	no sho	lime	1020	1029					
lime	576	591		mulky	1029	1032					
shale	591	608		lime	1032	1034					
lime	608	636		shale	1034	1115					
shale	636	646		coal	1115	1116					
lime	646	654		Shale	1116	1120					
shale	654	682		oil Sand	1120	1132					
sand	682	716	no sho	Sand/Shale	1132	1153					
sand shale	716	742		coal	1153	1154					
shale	742	803		Shale	1154	1176					
coal	803	805		coal	1176	1177					
lime	805	816		Shale	1177	1242					
shale	816	842		oil Sand	1242	1305					