

Berdie #2-21  
 Daily Drilling Report  
 Page Two

7/29/14 Depth 4331'. Cut 90'. DT: None. CT: 17hrs. Dev.: None. **DST #3 4184-4240 (LKC G):** 30-60-60-90. IF: surf blw built to 3". FF: Surf blw built to 6 3/4". Rec.: 126'TF, 63'MCO (90%O, 10%M), 63'MCO (50%O, 50%M). HP: 2077-2024. FP: 101/121, 101/121. SIP: 1250-1235. BHT: 129°. **LKC H:** Lm-crm-off wht, fxln, loosely cemented, fsl w/dense xln por, drk DO & lt stn, tr FO, wk-fr odr, dull-ylw fluor, some sft wht chalk carrying DO stn A/A, some sctrd recrystallization. **LKC J:** Lm-wht off wht, FXLN, mod. Well dev. Oolitic w/sctrd to mostly consistent fn ppt inter oolite por, sctrd lt stn, hvy oily sheen, SFO, gd odr, much free floating oil on top of wet cup. **DST #4 4238-4338 (LKC H-J):** 30-60-60-90. IF: Surf blw built to 2 1/2". FF: surf blw built to 2 1/2". Rec.: 65' OCM (55%M, 45%O). HP: 2146-2104. FP: 25/37, 40/50. SIP: 1349-1330. BHT: 131°.

7/30/14 RTD: 4470'. Cut 139'. DT: 1/4 hr pump. CT: 16hrs. Dev.: 1° @ 4470'. HC @ 9:00PM 7/29. Pioneer started logging @ 3:00AM 7/30. LTD: 4471'. Ran 106 jts of 15.5# 5 1/2 prod csg set @ 4464'.

7/31/14 RTD: 4470'. CT: 20 1/2 hrs. C.O.W.S. cmt w/450sxs (250sxs CMD 200sxs OWC). PD @ 11:30PM 7/30. 30sxs RH, 20sxs MH. RR 3:30AM 7/31/14. FINAL REPORT

		MDCI Berdie #2-21 660 FNL 1650 FEL Sec. 21-1S-35W 3185' KB					MDCI Berdie #1-21 729 FNL 1664 FWL Sec. 21-1S-35W 3161' KB		
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum	
Anhydrite	3040	+145	+30	3064	+121	-6	3046	+115	
B/Anhydrite	3070	+115	+35	3098	+87	+7	3081	+80	
Foraker				3684	-499	+5	3665	-504	
Topeka	3888	-703	+21	3897	-712	+12	3885	-724	
Oread	4000	+815	+6	3998	-813	+8	3982	-821	
Heebner	4067	-882	+1				4044	-883	
Lansing	4107	-922	+17	4119	-934	+5	4100	-939	
BKC	4370	-1185	+16	4377	-1192	+9	4362	-1201	
Pawnee				DNR			4483	-1322	
RTD	4470	-1285							
LTD				4471	-1286		4814		