

Delay #1-21
 Daily Drilling Report
 Page Two

8/31/14 Depth 4310'. Cut 90'. DT: None. CT: 18hrs. Dev.: None. **LKC G:** pr w/ tr fr intrprtcal & vug por, scat med-drk brn & blk sptd-patchy stn w/ tr sat stn, SSFO, no odor. **LKC H:** pr w/ tr fr fos por, scat med-drk brn & blk patchy stn, S-FSFO (some bleeding), no odor. **DST #4 4215-4310 (LKC G-H):** 30-60-30-60. IF: blow built to 1/4". FF: no blow. Rec. 65' Mud w/ oil spots (100% M). HP: 2113-1986. FP: 44/46, 48/49. SIP: 664-546. BHT: 136°. Note: tool opened going through bridge 5' off bottom.

9/1/14 Depth 4430'. Cut 120'. DT: none. CT: 17hrs. Dev.: 1/2° @ 4430'. **LKC J:** pr por, tr blk sptd-patchy dead stn & two pcs w/ brn sptd-sub sat stn, 1 pc w/ VSSFO (caving ?), no odor. **LKC K:** pr por, tr brn-blk sptd-patchy stn, NSFO, no odor. **LKC L:** pr por, NS. **DST #5 4303-4430 (LKC J-L):** 30-60-30-60. IF: blow built to 1/4". FF: no blow. Rec. 5' Mud w/ oil spots (100% M). HP: 2295-2101. FP: 22/34, 32/34. SIP: 322-166. BHT: 136°.

9/2/14 Depth 4570'. Cut 140'. DT: None. CT: 14 1/2 hrs. Dev.: None. **Marmaton C zn:** pr w/ tr fr intrprtcal & gd fos (bryozoan) por, scat lt-med w/ some drk brn sptd-sat stn, S-FSFO, no odor (some barren bryozoan por). **Pawnee:** pr w/ some fr pin point & tr small vug por, fr amnt lt brn patchy-sat stn, S-FSFO, fnt odor. **DST #6 4423-4570 (Marm 'C'-Paw):** 30-60-30-60. IF: blow built to 1 1/4" then died back to 1". FF: no blow. Rec. 5' M. HP: 2258-2279. FP: 28/32, 32/36. SIP: 197-196. BHT: 136°.

9/3/14 RTD: 4750'. Cut 180'. DT: None. CT: 14 1/2 hrs. Dev.: 3/4° @ 4750'. HC @ 11:30PM 9/3. Pioneer started logging @ 5:15AM. LTD: 4753'

9/4/14 RTD: 4750'. CT: 23 1/4 hrs. Pioneer finished logging @ 10:30AM 9/3. Ran 112jts of 15.5# 5 1/2" prod csg, set @ 4741'. Allied cmt w/155sxs ASC. PD @ 2:15AM 9/4. 30sxs RH, 15sxs MH. RR @ 6:15AM 9/14/14. FINAL REPORT

MDCI Delay #1-21 1510' FSL 330' FEL Sec. 21-T1S-R38W 3199' KB							Golden Eagle Drig Co Christensen #15-52 990' FSL 2220' FEL Sec. 15-T1S-R38W 3186' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3147	+52	+11	3143	+56	+15	3145	+41
B/Anhydrite	3174	+25	----	3176	+23	----	----	-----
Neva	3587	-388	----	3591	-392	----	----	----
Red Eagle	3659	-460	----	3659	-460	----	----	----
Foraker	3708	-509	----	3711	-512	----	----	----
Topeka	3937	-738	----	3930	-731	----	----	----
Oread	4068	-869	+17	4070	-871	+15	4072	-886
Lansing	4139	-940	+18	4141	-942	+16	4144	-958
Stark	4365	-1166	+19	4366	-1167	+18	4371	-1185
BKC	4427	-1228	+18	4424	-1225	+21	4432	-1246
Pawnee	4543	-1344	+20	4546	-1347	+17	4550	-1364
Cherokee	4631	-1432	+20	4633	-1434	+18	4638	-1452
Mississippi	DNR			DNR			4878	-1692
RTD	4750	-1551					5143	
LTD				4753			5143	