

HMZ #2-29  
 Daily Drilling Report  
 Page Two

- 4/14/14 Depth 4380'. Cut 60'. DT: None. CT: 21hrs. Dev.: None. **LKC G**: pr-fr fos por, scat drk brn-blk w/ some med brn mstly patchy-sub sat stn, FSFO (some thick-hvy oil), no odor. **DST #3 4316-4380 (LKC G)**: 30-60-60-90. IF: blow built to 2¼". FF: blow built to 2". Rec. 65' OCM (10%G, 20%O, 70%M). HP: 2138-2084. FP: 25/39, 43/52. SIP: 157-377. BHT: 129°.
- 4/15/14 Depth 4465'. Cut 85'. DT: None. CT: 19 ¾ hrs. Dev.: None. **LKC H**: mstly pr w/ some pin point por, rare lt brn patchy stn, cpl pcs w/ VSSFO, no odor. **LKC J**:pr-fr intrprtcal w/ gd vug por (incrs vug por w/ depth), scat vry lt -med brn sub sat-sat stn & some blk tarry-asph patchy stn (near top), FSFO, fnt odor **DST #4 4375-4465 (LKC H-J)**: 30-60-60-90. IF: blow built to 2½". ISl: no blow back. FF: blow built to 2". FSl: no blow back. Rec. 127' OCM (17% O, 83% M). HP: 2227-2142. FP: 24/50, 56/90. SIP: 1261-1175. BHT: 129°.
- 4/16/14 RTD 4810'. Cut 345'. DT: None. CT: 5½ hrs. Dev.: None. TD @ 4:45AM 4/16. Loggers should get hole about 9:00AM
- 4/17/14 RTD: 4810'. CT: 21¼ hrs. Dev.: 2° @ 4810'. Pioneer logged 9:15AM-3:30PM 4/16. LTD: 4810'. Allied plugged hole, 8:30PM 4/16 – 12:15AM 4/17, as follows using 60/40Poz, 4%Gel, ¼# Floseal, 25sxs @ 3232', 100sxs @ 2453', 40sxs @ 310', 10sxs+plug @ 40', 30sxs RH, 15sxs MH. Orders: Pat Bedore KCC. RR @ 4:15AM 4/17/14. FINAL REPORT.

MDCI HMZ #2-29 330' FNL 990' FEL Sec. 29-1S-36W 3308' KB							MDCI HMZ #1-29 2135' FNL 2415' FWL Sec. 29-1S-36W 3292' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3215	+93	-15	3217	+91	-17	3184	+108
B/Anhydrite	3429	+59	-13	3252	+56	-16	3220	+72
Neva	3697	-389	-14	3698	-390	-15	3667	-375
Red Eagle	3761	-453	-15	3761	-453	-15	3730	-438
Foraker	3809	-501	-14	3810	-502	-15	3779	-487
Stotler	3960	-652	-17	3959	-651	-16	3927	-635
Topeka	4031	-723	-16	4034	-726	-19	3999	-707
Oread	4161	-853	-15	4163	-855	-17	4130	-838
Lansing	4246	-938	-17	4244	-936	-15	4213	-921
Stark	4462	-1154	-18	4463	-1155	-19	4428	-1136
BKC	4514	-1206	-18	4514	-1206	-18	4480	-1188
Pawnee	4638	-1330	-18	4636	-1328	-16	4604	-1312
Cherokee	4716	-1408	-19	4715	-1407	-18	4681	-1389
RTD	4810	-1502					4775	-1483
LTD				4810			4776	