

Kuhn #2-4
 Daily Drilling Report
 Page Two
 11/8/14

Depth 4435'. Cut 120'. DT: None. CT: 15¼ hrs. Dev.: ¾° @ 4315'. **DST #3 4253-4315 (K-L)**: 30-60-60-90. IF: built to ½" blw. FF: no blw. Rec.: 10'M w/oil spts. HP: 2193-2106. FP: 35/41, 43/51. SIP: 856-861. BHT: 119°. **Alt A**: LS, tn, foss, ool in prt, fr fossmold por, ssfo, slt odor, spty stn. **DST #4 4316-4435 (Altamont)**:

11/9/14 Depth 4535'. Cut 100'. DT: None. CT: 16hrs. Dev.: None. **DST #4 4316-4435 (Marm)**: 30-60-60-90. IF: built to 2"blw. FF: built to ½" blw. Rec.: 100'M. HP: 2284-2268. FP: 76/103, 108/141. SIP: 1227-1153. BHT: 123°. **Up Paw**: LS, tn, foss, gran, dolo, int-gran and moldic por, ssfo, slt odor, sct stn. **Lwr Pawn**: LS, tn-gray, foss in prt, rare moldic por, ssfo, slt odor, pr vis stn. **Ft Scott**: LS, tn-brn, ool, sct int-ool por, ssfo, fr odor, sm sat stn. **DST #5 4447-4535 (Paw-Lwr Paw)**:

11/10/14 Depth 4610'. Cut 75'. DT: None. CT: 16½ hrs Dev.: 1° @ 4610'. **DST #5 4447-4535 (Pawnee-Lwr Paw)**: 30-60-60-90. IF: built to 1"blw. FF: no blw. Rec.: 25'M w/trc oil. HP: 2348-2259. FP: 51/68, 71/89. SIP: 636-621. BHT: 122°. **Johnson**: LS, tn to gray, foss, fr mossmold por, fsfo, gd odor, sm sat stn. **DST #6 4550-4610 (Johnson)**: 30-60-60-60. IF: BOB in 14mins. FF: built to 9" blw. Rec.: 100'M. HP: 2428-2288. FP: 37/80, 86/112. SIP: 128-129. BHT: 127°.

11/11/14 RTD: 4735'. Cut 125'. DT: ¼ hr Air. CT: 13¾ hrs. Dev.: ¾° @ 4735'. HC @ 9:30PM 11/10. Pioneer logged @ 2:00AM – 7:00AM 11/11. LTD: 4736'. To plug

11/12/14 RTD: 4735'. CT: 17hrs. Allied plugged hole (3:00PM-8:00PM 11/11) as follows using 60/40Poz, 4%Gel, ¼# Floseal, 50sxs @ 2550', 100sxs @ 1625', 50sxs @ 275', 10sxs @ 40', 30sxs RH, 20sxs MH. Orders: Case Morris KCC Hays. RR @ 12:00AM 11/12/14. FINAL REPORT.

MDCI Kuhn #2-4 1810' FSL 1780' FWL Sec. 4-T13S-R32W 3035' KB							MDCI Kuhn #1-4 1378' FSL 1030' FWL Sec. 4-T13S-R32W 3022' KB	
Formation	SampleTops	Datum	Ref	Log Tops	Datum	Ref	Log Tops	Datum
Anhydrite	2520	+515	-2	2520	+515	-2	2502	+517
B/Anhydrite	2542	+493	-2	2543	+492	-3	2527	+495
Topeka	3761	-726	-7	3760	-725	-6	3741	-719
Heebner	3986	-951	-7	3986	-951	-7	3966	-944
Lansing	4032	-997	-10	4029	-994	-7	4009	-987
Stark	4256	-1221	-7	4256	-1221	-7	4236	-1214
BKC	4316	-1281	-5	4321	-1286	-10	4298	-1276
Up Pawnee	4458	-1423	-15	4458	-1423	-15	4430	-1408
Chero Sh	4543	-1508	-15	4545	-1510	-17	4515	-1493
Johnson	4586	-1551	-16	4589	-1554	-19	4557	-1535
Mississippi	4659	-1624	-27	4661	-1626	-29	4619	-1597
RTD	4635						4720	
LTD				4736			4722	