

5/7/14 Depth 4147'. Cut 107'. DT: None. CT: 18¼ hrs. Dev.: None. **LKC J:** lt gry, micro xtl, bioclastic – foss forams & corals, v vuggy interclast por, lt wormy brn – blk sn, hvy streaming sheen FO, gassy, FSFO on brk, fnt odr, lt flouresence, gd cut & halo. **LKC K:** Ls, gry-pale grn & crm, micro xtl, sl foss, chrt, sm scrt lt surf etching w/v lt brn stn, NS, 1pc trc hvy tarry oil on brk, no odor, fr fluor, no cut-60 min smpl a.a. w/some brn/yellow grainy ls, chlky foss & influx gry/blk silty shales. **DST #3 4078-4147 (LKC J-K):** 30-60-60-90. IF: BOB 28mins. FF: BOB 32mins. Rec.: 20'OSMW (20%M, 80%W (oil spts)), 126'MW(80%W, 20%M), 181'MW (95%W, 5%M), 5'M (Hvy). HP: 2009-1951. FP: 23/92, 96/177. SIP: 1257-1227. BHT: 128°.

5/8/14 Depth 4395'. Cut 248'. DT: None. CT: 5¼ hrs. Dev.: None.

5/9/14 RTD: 4560'. Cut 165'. DT: None. CT: 15¾ hrs. Dev.: ¾° @ 4560'. HC @ 12:15PM 5/8. Pioneer logged 10:30PM 5/8 – 3:00AM 5/9. LTD: 4563'. To Plug

5/10/14 RTD: 4560'. CT: 9hrs. Allied plugged hole 9:00AM – 12:00PM 5/9, as follows using 60/40Poz, 4%Gel, ¼#Flo seal, 25sxs @ 2685', 100sxs @ 1930', 40sxs @ 275', 10sxs @ 40', 30sxs RH, 15sxs MH. Order: Ed Schumacher KCC Hays. RR @ 4:00PM 5/9/14. FINAL REPORT

Melba #1-34 660' FSL 2310' FWL Sec. 34-4S-31W 2940' KB							Neil Wood O&G Erickson 61-4 Sec. 4-5S-31W 2946' KB	
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2672	+268	+2	2668	+272	+6	2680	+266
B/Anhydrite	2704	+236	+3	2702	+238	+5	2713	+233
Topeka	3741	-801	+3	3739	-799	+5	3750	-804
Heebner	3906	-966	+4	3908	-968	+2	3916	-970
Lansing	3954	-1014	+6	3956	-1016	+4	3966	-1020
Stark	4120	-1180	+8	4121	-1181	+7	4134	-1188
BKC	4175	-1235	+1	4169	-1229	+7	4182	-1236
Pawnee	4283	-1343	+8	4285	-1345	+6	4297	-1351
Ft Scott	4359	-1419	+5	4357	-1417	+7	4370	-1424
Cherokee	4368	-1428	+6	4372	-1432	+2	4380	-1434
Mississippi	4482	-1452		4491	-1461		DNR	
RTD	4560						4500	
LTD				4563			4499	