

Culwell 'JT' #1-11  
 Daily Drilling Report  
 Page Two

- 3/6/14 Depth 4296'. Cut 86'. DT: None. CT: 16¾ hrs. Dev.: 6½° @ 4210'. **DST #2 4169-4210 (LKC G)**: 30-60-30-60. IF: blw built to ¼", died back, dead @ 20mins. FF: no blw. Rec.: 10'M w/oil spts (94%M, 4%O, 2%G). HP: 2098-2058. FP: 19/22, 23/24. SIP: 979-534. BHT: 129°.
- 3/7/14 Depth 4500'. Cut 204'. DT: None. CT: 4½ hrs. Dev.: None. **Pawnee**: influx tan gran - oolitic w/ generally pr-fr interparticle por w/ pp brn stn, fair sfo on brk but some listless, no odor NS of gas. **DST#3 4450-4500 (Pawnee)**:
- 3/8/14 Depth 4630'. Cut 130'. DT: None. CT: 14½ hrs. Dev.: 6° @ 4500'. **DST#3 4450-4500 (Pawnee)**: 30-60-60-90. IF: blw built to 9/4". FF: blw built to BOB (11") @ 25mins. Rec.: 380'GIP, 85'CO (96%O, 2%G, 2%M), 20'OCM (70%M, 23%O, 7%G). HP: 2168-2165. FP: 20/32, 29/59. SIP: 965-927. BHT: 137°. Plan to RTD at 4660'
- 3/9/14 RTD 4660'. Cut 30'. DT: 1hr time change. CT: 20½ hrs. Dev.: 4.7° @ 3934. HC @ 9:30AM 3/8. 1:15-2:00PM 3/8 Bridge @ 1070'. TIH to 1500' & TOOH w/bit. Pioneer logged 2:45PM -7:30PM 3/8. LTD: 4639'.
- 3/10/14 RTD: 4660'. CT: 9½ hrs. Ran 111 jts of 5½" prod csg @ 4655'. Swift cmt w/ 200 sxs EA2 & 200 sxs SMD. 30sxs @ RH & 20sxs @ MH. PD @ 12:30PM 3/9. Circ to cellar. RR @ 4:30PM 3/9/14. FINAL REPORT

MDCI Culwell 'JT' #1-11 1980' FNL 660' FWL Sec. 11-T1S-R37W 3134' KB							MDCI Culwell 'B' #1-11 850' FSL 700' FWL Sec. 11-T1S-R37W 3146' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3073	+61	-3	3074	+60	-4	3082	+64
B/Anhydrite	3109	+25	-6	3106	+28	-3	3115	+31
Neva	3531	-397	-4	3530	-396	-3	3539	-393
Red Eagle	3593	-459	+1	3594	-460	Flat	3606	-460
Foraker	3647	-513	-8	3638	-504	+1	3651	-505
Topeka	3867	-733	-6	3864	-730	-3	3873	-727
Oread	4000	-866	-6	3998	-864	-4	4006	-860
Lansing	4082	-948	-6	4080	-946	-4	4088	-942
Stark	4300	-1166	-8	4296	-1162	-4	4304	-1158
BKC	4358	-1224	-14	4351	-1217	-7	4356	-1210
Pawnee	4476	-1342	-9	4473	-1339	-6	4479	-1333
Cherokee	4565	-1431	-9	4559	-1425	-3	4568	-1422
RTD	4660						4900	-1754
LTD				4639	-1505		4902	-1756