

Hammerschmidt #1-24
 Daily Drilling Report
 Page Two

- 3/10/14 Depth 4180'. Cut 60'. DT: None. CT: 20½ hrs. Dev.: ¾°. **DST #3 4054-4120 (LKC H-J):** 30-60-60-90. IF: BOB in 4 mins. ISI: 1" return, died in 30 mins. FF: BOB in 5 mins. FSI: BOB in 20 mins, died to 4" over 90 mins. Rec.: 575' Total Fluid, 216' GIP, 92' GO (20%G, 80%O), 186' VSOCM (5%O, 95%M), 124' M (100%M), 173' MCW (80%W, 20%M), HP: 2119-2039. FP: 40/180, 192/327. SIP: 1277-1244. BHT: 121° Gravity: 36 API. **LKC K:** Ls., crm/lt gry, fn xln, foss, pr-fr intOolc por, dns, sli calc, hd to chky, pyrc, blk IP, scat brn sat stn, slw bld pp FO, sli irid OCW, v fnt odr, Tr fluor, fr Shw LO, SSFO. **LKC L:** Ls., crm/gry/purp, fn-med xln, Tr foss, pr vis por, pt dns, chky, sli glauc, n/s. **DST #4 4121-4180 (LKC K-L):** 30-60-30-60.
- 3/11/14 Depth 4475'. Cut 295'. DT: None. CT: 6½ hrs. Dev.: None. **DST #4 4121-4180 (LKC K-L):** 30-60-30-60. IF: wk blw, built to ¼" over 30mins. FF: wk blw built to surf over 30mins. Rec.: 20'O, 60'HOCM (45%O, 65%M). HP: 2080-1984. FP: 21/35, 36/50. SIP: 1325-1322. BHT: 116°.
- 3/12/14 RTD 4580'. Cut 105'. DT: None. CT: 18hrs. Dev.: ¾° @ 4580'. HC @ 1:45PM 3/11. Pioneer logged 8:00PM – 11:45PM 3/11. LTD 4583'
- 3/13/14 RTD: 4580'. CT: 10½ hrs. Ran 109jts of 5 ½" prod csg, set @ 4551'. Swift cmt wi/250sxs SMD, 200sxs EA-2. PD @ 1:30PM 3/12. 30sxs RH, 20sxsMH. Circ 25sxs. RR @ 5:30PM 3/12. FINAL REPORT

| Hammerschmidt #1-24 660' FSL 330' FWL Sec. 24-4S-31W 2916' KB | | | | | | | Gilbert Unit #1-26 200' FNL 1050' FEL Sec. 26-4S-31W 2901' KB | |
|--|------------|-------|------|----------|-------|------|--|-------|
| Formation | Sample top | Datum | Ref | Log tops | Datum | Ref | Log tops | Datum |
| Anhydrite | 2673 | +243 | +4 | 2673 | +243 | +4 | 2662 | +239 |
| B/Anhydrite | 2706 | +210 | +2 | 2706 | +210 | +2 | 2693 | +208 |
| Topeka | 3744 | -828 | -2 | 3744 | -828 | -2 | 3727 | -826 |
| Heebner | 3909 | -993 | -1 | 3910 | -994 | -2 | 3893 | -992 |
| Lansing | 3956 | -1040 | Flat | 3957 | -1041 | -1 | 3941 | -1040 |
| Stark | 4124 | -1208 | -2 | 4122 | -1206 | Flat | 4107 | -1206 |
| BKC | 4170 | -1254 | Flat | 4170 | -1254 | Flat | 4155 | -1254 |
| Pawnee | 4285 | -1369 | -1 | 4282 | -1366 | +2 | 4269 | -1368 |
| Cherokee | 4366 | -1450 | +3 | 4367 | -1451 | +2 | 4354 | -1453 |
| Mississippi | 4480 | -1564 | -3 | 4482 | -1566 | -5 | 4462 | -1561 |
| RTD | 4580 | | | | | | 4530 | |
| LTD | | | | 4583 | | | 4529 | |