

- 6/17 Pulled 4 3/4" bit. Ran 4 3/4" concave mill and tagged at 2961'. Milled to 2980'. Pulled mill - worn. Ran 4 3/4" mill to 2860'.
- 6/18 Tagged at 2984'. Milled to 2992'. Ran to 3022'. Pulled mill. Ran 4 5/8" string mill and tagged 2979-2992'.
- 6/19 Milled 2992-3001'. Ran to 3012'. Pulled mill.
- 6/20 Ran 4 3/4" taper string mill. Tagged at 2984' - went to 3267. Pulled up to 2955'. Rotated thru tbq. 2984-89'. Pulled mill. Ran Halliburton 2 3/8" x 5 1/2" EZ bridge plug on 105 jts. 2 7/8" tbq. Set BP at 3270.
- 6/21 Ran 2 7/8" x 5 1/2" RTTS pkr. on 92 jts. (2861') 2 7/8" and set pkr. at 2869'. Tested backside to 1000# OK. Halliburton pumped down 2 7/8". Circulated out bradenhead. Mixed 10 bbls. red dye in 137 bbls. water. Circulated dye. POH with 2 7/8" tbq. and pkr. Ran 2 7/8" x 5 1/2" Halliburton EZ cement retainer on 92 jts. (2861') 2 7/8" tbq. Set retainer at 2865'. Pumped down 2 7/8" in bad csg. at 2962'. Mixed and pumped 350 sxs Halliburton Lite with 15# salt. Tailed in with 200 sxs Class "C" with 3% CaCl. SD. Displaced cement to 2865' with 15 bbls. water at 1100#. Circulated 112 sxs to pit. Pulled out of retainer. Circulated 4 sxs cement 350#. POH with tbq. and retainer. WOC.
- 6/22 WOC.
- 6/23 Ran 4 3/4" bit and tagged 2858-2968'. Ran bit to 3270'. Pulled bit to 2828'. Tested 500# OK.
- 6/24 Pulled tbq. Ran 5 1/2" EZ drill retainer and set at 2869'. Halliburton cemented bad csg. 2984-89' with 75 sxs Thickset with 3% CaCl. Tailed in with 50 sxs Class "C" with 3% CaCl. Pressured to 3000#. Pulled out of retainer. Reversed out 40 sxs. Pulled tbq. WOC.
- 6/25 WOC.
- 6/26 Ran 4 3/4" bit and drilled cement retainer 2869-72'. Drilled cement 2869-2961'. Ran to 3100'. In 10 min. pressure at 850#. Backflowed 29 BPD. Pulled bit.
- 6/27 Ran Halliburton EZ drill retainer and set at 2869'. Halliburton cemented hole at 2961' at a rate of 1.5 BPM using 2400# 500 gals. Flo-check, 1 1/2 BW, 50 sxs Class "C" with 2% CaCl, 1/2 bbl. followed with 25 sxs Class "C" cement at 1 BPM using 2300# to 3500#. Reversed out 25 gals. Flo-check and cement. Pulled tbq. WOC.
- 6/28 to 6/29 WOC.
- 6/30 Ran 4 3/4" bit. Drilled cement retainer 2869-72'. Ran bit to 3100'. Tested with 500# OK. No back flow. Ran to plug at 3270 and drilled to 3564'.
- 7/1 Cleaned out 3564-3678'. Pulled bit. Ran 5 1/2" Halliburton R-4 Tension Pkr. to 3370'.
- 7/2 Set pkr. at 3370'. Knox treated perms., 3488-3647', with 3000 gals. 15% NE acid and 60 ball sealers. Flushed with 28 bbls. 2% KCL. Maximum 2200#, minimum 1500#, rate 4.5 BPM. ISIP 1800#, 15 min. 1600#. Total load 112 bbls. Pulled tbq. and pkr. Ran 2 3/8" tbq. 118 jts. (3635').
- 7/3 Dropped standing valve - had leak. Pulled tbq. Tested in hole.

CONTINUED