

- back into retainer Displace into perf @ 1700'. Break down @ 2200#. Displace w/ 2-1/2 BPM @ 1800#. Pump 50 bbls 10# Brine @ 2-1/2 BPM @ 1800#. Mix & pump 150 sx. Class "C" cmt w/2% CC & 5# salt/sx @ 2 BPM @ 1700#. Displace w/1/4 BPM @ 700#. To standing squeeze pressure of 1200#. Stage last 3 bbls displacement P.O. Retainer reverse circ hole clean POH w/2-3/8" tbg. WOC Run Worthwell temp log after WOC 7 hrs Top of cmt 1275'.
- 6-18 GIH w/4-3/4" Bit, 8 -- 3-1/2" DC's & 2-3/8" tbg. Tag retainer @ 1662'. Drlg retainer & 7' of cmt. Cmt. Green. Circ hole clean Pressure to 1100# SI WOC. NOTE: Sample to Howco lab in Odessa. Indicate cmt gas cut. Recommended additional 24 to 36 hrs WOC.
- 6-19 Finish WOC (total 48 hrs from time of placement). Drlg 5' cmt from 1670' to 1675' (cmt still not totally set). Circ hole clean. Pressure to 1000#. SI WOC.
- 6-20 WOC
- 6-21 WOC
- 6-22 Drlg cmt from 1675' to 1700' (cmt not totally set). Circ hole clean. Test perf @ 1700' to 1500'. Pressure bled from 1500# to 1000# in 5 mins. POH w/2-3/8" tbg, DC's & bit. GIH w/cmt retainer w/2-3/8" tbg. Set retainer @ 1631'. PO retainer circ gas out of tbg w/reverse unit. Sting back into retainer SI tbg pressure 850# w/8.9# Brine in hole. (BHP = 1600#) PO retainer.
- 6-24 Sting into cmt retainer @ 1631'. RU Howco pump into perf @ 1700 w/10# brine to establish inj. rate. Pump @ 2 BPM @ 200# pump to 10 bbls, well locked up - unable to pump in. Back flow tbg 2-1/2 hrs. PO retainer spot acid to bottom of retainer stage acid into perf @ 1700' (total 250 gals) 15% NE Acid. Break down & establish injection rate 2 BPM @ 1500# w/40 bbls. 10# Brine. Mix & pump 100 sx of thick set cmt w/4% CC & 5# salt/sx. 200 sx. Thick set cmt w/4% CC, 5# salt & 5# No. 5 SD SX & 50 SX Class C Cmt. w/4% CC & 20# bbls. Stage last 1.5 bbls. To standing pressure 1200# PO retainer & reverse circ hole clean. PO hole w/2-3/8" tbg. Pressure 5-1/2" csg to 1200#. SI WOC 24 hrs. Run Worthwell temp log after WOC 6 hrs. Did not indicate any cmt above loggers PBTD @ 1629'.
- 6-25 SI WOC.
- 6-26 Finish WOC 48 hrs. GIH w/4-3/4" bit. 8---3-1/2" DC's & 2-3/8" tbg tag retainer @ 1631'. Drlg retainer & cmt to 1643' circ hole clean. No gas build-up or flow on 8-5/8" -- 5-1/2" ANN after 24 hrs. SI
- 6-27 Drlg cmt from 1643' to 1700'. Circ hole clean. Test to 1500#. Pump into w/1/4 BPM @ 1400#. POH w/2-3/8" tbg, DC's & bit. GIH w/cmt retainer & 26 stds 2-3/8" tbg. Set retainer @ 1601'.
- 6-28 SI
- 6-29 POH w/2-3/8" tbg & cmt retainer setting tool. GIH w/4-3/4" bit, 8 --3-1/2" drilling collars & 2-3/8" tbg. Drlg cmt retainers w/1601 & 2699 plus 7' cmt to 2706'. Circ hole clean.
- 6-30 Drlg cmt from 2706-2750'. Pit gaining fluid while drlg. No increase in gain when drlg perf @ 2750'. No gas increase. POH w/2-3/8" tbg DC & Bit. GIH w/RTTS & 2-3/8" tbg. Set RTTS @ 2675' to test perf @ 2750'. Pump into W/O.8 BPM @ 1500#. Back flow Flow down in 30 mins waterflow w/some gas up ANN. From perf @ 1700'. POH w/RTTS & 2-3/8" tbg. GIH w/cmt retainer & 2-3/8" tbg, set retainer @ 2703'. Very slight gas flow on both tbg & ANN. RU swab tbg for 1 hr. Recovered 13 bbls water w/increase in gas flow.
- 7-1 SI tbg psi = 125#, SI csg psi = 25#. Flow down & swab well dry to 2550 in 1 hr. Swab @ rate of 1 bbl every 2 hrs. Recovered total 7 bbls. Gas flow decrease to very slight blow. 2-3/8" tbg - 5-1/2" csg ANN. Very slight gas blow. 5-1/2" csg - 8-5/8" csg ANN. Dead.

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