

REMEDIAL CEMENTING PROCEDURE

DANGLADE NO. 2
660' FSL & 660' FEL
SECTION 13, T-22-S, R-37-E
LEA COUNTY, NEW MEXICO

December 17, 1979

Well Data

Elevation: 3331' GL, 3342' KB (11' AGL)
TD: 6960'
PBTD: 5690' (CIBP)
Casing: 13 3/8" - 36# @ 303'
8 5/8" - 32# @ 2832'
5 1/2" - 15# @ 6770', E.T.C, 4572'
Tubing: 2 3/8" Tbg. (177 JTS) No. Pkr.
Perfs: 5435-5620' (4 SPF) Blinbry, Drinkard
& Tubb Perfs. 6070-6740' squeezed w/400
sx. cement.

Note: NMOCD supervisor must be notified at least 24 hours prior to commencement of operations.

Procedure

1. MIRUPU. Kill well w/2% KCl water containing 1 gal/1000 Morlfo II. Install BOP. POH w/tubing.
2. GIH w/RBP, Pkr and tubing. Set RBP @ 5375'. Test RBP to 1500 psi. Spot 2 sx sand RBP. Test csg to 1000 psi. If csg does not hold, procede w/step 10. Otherwise procede w/step 3.
3. RU CRC Western. Perforate 4 holes @ 3100' w/ CRC Western Posi Jet 4" carrier gun (standard 19 gm charge, TTP 13.40", E.H.-0.48").
4. GIH w/cmt retainer and tubing. Set RET @ 3050'.
5. RU Halliburton. Mix and pump Class "C" cement until cement circulates. Close casing valve and squeeze last 20 sx (+) cement. Displace cmt w/2% KCl water, leaving + 2 bbls cmt in tubing. Pull out of retainer; reverse excess cmt out of tubing, POH w/tubing. WOC 24 hours. (If cmt does not circulate, RU CRC Western and run temperature survey after POH w/tubing to determine cmt top. Further steps to cement casing will be determined by results of temperature survey). Note: While pumping cement, hold 1000 psi on tubing-casing annulus; hold tubing pressure to 500 psi over pump-in pressure, not to exceed 3000 psi.