

State "CY" Com #1 Attachment.

Perforated 4-3/8" hole @ 2202. PIF @ 3-1/2 B/M @ 950# with no circulation to surface. Ran 8-5/8" Halco EZ drill retainer. Set @ 2151. Mixed and pumped 100 sx Thickset with additives, followed by 1000 sx Halco Lite with additives followed by 200 sx Class C with additives. Displaced 1157 sx out perfs. Left 13 sx in casing and reversed out 130 sx. Max. pressure 3000#. No circulation throughout job. Job complete at 1830 MDT 5/1/78. POOH.

Perforated 2 - 0.40" holes at 1499. PIF at rate of 7B/M @ 1400#. Pumped 31 bbls and broke circulation to surface. Ran 8-5/8" Halco EZ drill retainer and set @ 1470'. Mixed and pumped 100 sx thickset with additives, followed by 1000 sx Halco Lite with additives followed by 200 sx Class C with additives. Had good returns throughout job. Cement did not circulate. Got 1292 sx out perfs and left 8 sx in casing below retainer. Job complete @ 1100 MDT 5/2/78. WOC 6 hrs. Ran T.S. Top of cement @ approx 600'.

RIH with drilling assembly. Drilled retainer and cement 1470-1500. Fell free. RIH drilled 2nd retainer and cement 2151-2200. Fell free. RIH. Drilled cement 2687-2850. RIH to 2900'. Drilled cement in shoe joint 2900-2907'.

Ran Welox CBL from loggers TD 2906 to surface. Log was inconclusive but indicated good bond 2906-2810, 2220-2165, 1505-1200, 965-875, and 720-615.

RU H&R Testers. Tested blind rams, pipe rams and choke manifold to 3000# - ok. Tested Hydril to 1500# - ok. Tested casing to 1500#/30 min. - ok.

RIH with drilling assembly. Drilled rest of cement in shoe joint and cement in rat hole 2906-2921. RU Halco. Tested shoe to eq. mud wt. 10.5#/gal. - ok. Cleaned out rat hole 2921-3025. Tested open hole and shoe to eq. mud wt. 10.5#/gal. - ok. Started drilling ahead with 7-7/8" rock bit @ 0900 MDT 5/5/78.