

MIRUSU 01/20/97.

Attempted to plug and abandon the Chacra formation and return the Dakota formation to single producer, found both tubing strings stuck. Heat clay fix water to 225* and pump 70 bbls down 2.63" long string and 70 bbls down casing to try and clear long string of parafin for running eline to free point and cut the stuck tbg in 1.25 and 2.063 strings. Cut 2 1/6 and 1.25 above Chacra formation. Casing collapsed in Chacra interval around 1.25 and 2.063 tbg. Obtain permission to plug and abandon this well on 1/29/97.

Set cement retainer at 2917'.

Pumped 100 sxs CI-B cement below the cement retainer, 88 sxs out the Chacra perms to sqz formation and 12 sxs inside csg below retainer and to bottom perf in Chacra. Used 17 sxs CI-B cement above cement retainer and spot after displacing cmt below tool at 2915'.

With tbg set at 1975' used 63 sxs CI-b cement inside csg to plug Pictured Cliffs and Fruitland formations.

Tag at 1393'. Ran CBL from 50'-1386', log shows slight bond upto 1130' and no cmt above that point.

After shooting squeeze holes from 1168'-1169' pressure up and est rate of 1 bpm and 1000 psi and no circ on braden head. Attempted to pump thru retainer and pressure up to 1500 psi and no rate as prefs have colosed off. Could not circ bradenhead and pump thru squeeze holes at 1168' bond or obsrruption in annulus must be good at 1330' toc.

After shooting squeeze holes from 1017'-1018' pump form surface and istablish rate of 2.5 bpm and 300 psi, saw some circ on braden head.

Set retainer on tbg at 969'. Pumped 47 sxs CI-B cement below retainer at 969', sting out of retainer at 969' and spot 7 sxs above tool.

Shot squeeze holes from 361'-362' to circ braden head 50' below surface csg shoe depth of 311'.

Pumped 166 sxs CI-B cement to circ barden head and left 41sxs inside 5.5" csg from 362' to surface and had no braden head pressure on well.

Cut off wellhead and install marker.

RDMOSU 1/30/97