

Drill Stem Test

Prior to conducting DST No 1 a CBL was run in both the 9-5/8" (w/ 750 PSI surface pressure) and 7". While running in to log the 5" liner, the CBL tool became stuck at 3,930.4 m (12,895') and was left after parting the line at the rope socket weak point.

The SSTT was run, redressed after trouble shooting did not clear a malfunction and rerun and tested.

DST No 1 3,672 m - 3,699 m (12,047' - 12,136')

After running the test string and setting the 7" RTTS packer at 3,534.2 m (11,595') a water cushion was then pumped (2,000 PSI underbalance) using a hydraulic by-pass located above the LPR-N valve. The interval was perforated with 2-1/8" Enerjets (4SPF) in two runs. A gauge cutter run was required between the two perforating runs to work debris downhole due to Enerjet debris not settling to bottom in the 5" liner. No indications of flow were seen at surface. The water cushion was increased (previous method) to 3,100 PSI underbalance. Upon opening the LPR-N no indications of flow were seen at surface.

DST No 2 3,607 m - 3,619 m (11,834' - 11,873')

With the test string and water cushion left in place from DST No. 1 a 2-1/8" gauge cutter was run, stuck and left in the hole (.092 line cut using LPR-N). A blind box and jars were then run to work debris and fish down to 3,689.9 m (12,106'). The DST No. 2 interval was then perforated with 2-1/8" Enerjets (4SPF). No indications of flow were seen at surface.

In preparation for re-perforating, a 2-1/8" gauge cutter was run but became stuck. The test was abandoned and the test string tripped after reversing out the water cushion.

DST No 2A 3,612 m - 3,618 m (11,850' - 11,870')

Prior to perforating, a 4-1/8" mill assembly was run to work junk down hole and it eventually became stuck at 3,674.1 m (12,054'). After an unsuccessful attempt to run a Pingo shot with free point indicator to bottom, the string was pulled free at 135 k overpull. Drill collars with a bit sub was then run and junk was worked down to 3,686.9 m (12,096').

The interval was perforated with 3-3/8" casing guns (6SPF). The test string was run and the 7" RTTS packer set at 3,360.1 m (11,024'). A water cushion was pumped for 3500 PSI underbalance. Upon opening the LPR-N the SIWHP increased from 0 PSI to 700 PSI but bled to 0 PSI upon opening the well. The well remained static. A PLT was run and confirmed that the well was static.