

## Bering UPRR 42-35 #1: Packer and Remedial Cement

- 1 MIRU Wireline services. PU and RIH w/ CCL-CBL-VDL tools and log from 7000' to 2000'. Contact engineering if there is not cement at or above 4300' as we will need to add Sussex cement. Email logs to Jacob.Barker@Anadarko.com. Email copies of logs, summaries and invoices to rscDJVendors@Anadarko.com within 24hrs.
- 2 ND BOP. Unland production casing (4-1/2", 12.75#, J-55), ND surface casing head and NU double entry flange. 1985 vintage casing, don't pull with more than 85,000lbs (43% of virgin joint strength).
- 3 Pick up concentrated mud flush (Alcomer 74L – liquid mud thinner in 5 gallon bucket) from Imperial.
- 4 Pick Up 47 jnts of TBG (1-1/4", 2.33#, J-55, IJ). Run in annulus with pup jnt with CutRight, burn shoe or mule shoe on 1-1/4" tbg to 1450' or as deep as possible while circulating. Circulate mud flush sweeps intermittently (about 2 or 3 while TIH). If TBG hits tight spots work it for a bit while circulating to break the bridge as best possible. Call engineering if there is difficulty making depth or if a power swivel is necessary to break bridging.
- 5 Once EOT of 1-1/4" is at 1450' circulate another 4 hours minimum using at least 1 mud flush sweep.
- 6 Order and pump 20 bbls of 10# mud from Imperial. Displace with 2 bbl of fresh water to prevent unbalanced flow back. Note: Don't put mud in tanks contaminated with mud flush.
- 7 Pull 1-1/4" TBG up annulus so EOT at +/- 1,250'.
- 8 MIRU cementing services.
- 9 Mix & pump as follows: 5 bbls fresh water, 10 bbls Sodium Metasilicate (SMS), 10 bbl fresh water spacer, 565 sks Type III cement, 1/4#/sk Cello Flake, mixed at 14.8 ppg and yield of 1.33 cuft/sk (retardant amounts as determined by cementing service company for a 3 hour pumping time at 80° F) for a total of 133.8 bbl of cement. Design is for coverage from 1250' to 342' in 10" Borehole and 96' in 8.1" with a 30% excess (has no caliper log over the shallow depths). See Calculation if necessary. Don't displace with any fresh water.
- 10 POOH with 1-1/4" tbg to +/- 200 and circulate back to tanks until clean.
- 11 POOH and SB tbg. ND double entry flange and Re-Land the 4-1/2" production casing immediately.
- 12 Shut in and WOC for 24 hrs minimum and at least 30 hrs before pressure testing back side of packer.
- 13 MIRU Wireline services. PU and RIH w/ CCL-CBL-VDL tools and log from 1400' to surface. NOTE: IF TOC IS BELOW 340' OR POOR BOND, CONTACT EVANS ENGINEERING. Email logs to Jacob.Barker@Anadarko.com. Email copies of logs, summaries and invoices to rscDJVendors@Anadarko.com within 24hrs.
- 14 POOH, RDMO Wireline service company.