

MOBIL -12- FEDERAL NO. 1  
RE-COMPLETION  
(FROM ATOKA-MORROW DUAL TO CANYON-MORROW DUAL)  
SOUTH CARLSBAD POOLS  
EDDY COUNTY, NEW MEXICO

Re-completion procedure:

1. Blank off Morrow and Atoka tubing strings with tubing plugs.
2. Install 5000# W.P. blowout preventers.
3. Check operation of sliding sleeve in Atoka tubing string.
4. Plug off Atoka perforations (10,842' to 10,868') with blocking material.
5. Pull Atoka tubing string to 10,050' and perforate the Canyon zone w/1 shot per foot @ 10,084-10,090', 10,100-10,105', 10,110-10,115', 10,121-10,128'.  
(Perforating will be done with a gun that has a kicker arm and magnet that will prevent the possibility of damage to or entry into the Morrow tubing string).
6. Re-run Atoka (or short string) tubing string and set into the packer.
7. Set a tubing plug in the seating nipple at 10,797' in the short tubing string.
8. Remove B.O.P. and install well head.
9. Open the sliding sleeve in the short string at 10,734'.
10. With casing valve open, treat the Canyon perforations with 2,000 gallons of acid. (Close casing valve when acid is across the Canyon perfs).
11. Swab the Canyon perforations thru the short string of tubing. If necessary, re-treat with 5,000 gallons of acid.
12. Retrieve the tubing plug from the Morrow tubing string.
13. Run 4-point back pressure test on Canyon zone and a packer leakage test.

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