

11000

Recompletion
Price 1 - Run 47
October 4, 1994

Procedure:

1. Move in rig. Rig Up. Nipple up blowout preventer.
2. Control or kill well with 2%KCl water. The volume of kill fluid lost to the Dakota is not critical - the Dakota is to be isolated.
3. Pull Dakota 2 3/8" tubing string.
4. Run 4 1/2" bit and scraper and clean out to top Dakota perf at 7047'.
5. Run packer and pressure test casing 1000 psi. Any casing leaks found should be repaired during this procedure.
6. Run CIBP and set CIBP between 6947' and 6997'. Cover CIBP with 50' of cement. By BLM stipulations, CIBP must be between 50 and 100' above top Dakota perf.
7. Fill casing with water and run GR-CBL across the minimum charge interval up to approx 2500' to determine the Pictured Cliffs pay interval and the point of free 4 1/2" pipe. (Estimated top of PC at 2995'.)

CALCULATIONS INDICATE THAT THE TOP OF CEMENT FOR THE 4 1/2" CASING IS PROBABLY BELOW THE 7 5/8" CASING SHOE. IF THE TOC IS IN THE PICTURED CLIFFS INTERVAL OR ABOVE, THE RECOMPLETION PROCEDURE WILL BE REVISED. CONTACT STAN KOLODZIE FOR REVISIONS.

8. Back off 4 1/2" casing at approx 3100'. Retrieve freed upper section.
9. Run 7 5/8" CIBP and set CIBP above open end of 4 1/2" casing. Cover CIBP with 50' of cement.
10. Coordinate with engineer to select the Pictured Cliffs pay intervals from the log.
11. Perforate the selected Pictured Cliffs intervals with 3 1/8" casing gun, 2 JSPF, 120 degree phasing.

STIMULATION

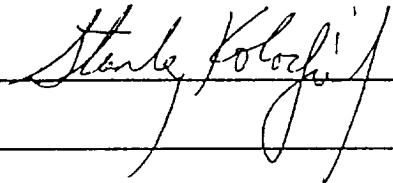
12. The Pictured Cliffs will be fracture stimulated in a manner similar to the Chavez GC D1E. Refer to the attached frac schedule for details.

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13. Run 2 3/8" tubing to bottom of Pictured Cliffs perms. Kick well off with nitrogen or air unit. Swab well in if necessary. Install 1/4 or 1/2" choke and flow well to atmosphere for 2 hours against 150 psi back pressure to estimate flow rate for completion report.
14. Remove BOP. Hook up well to production equipment. RDMO workover rig.

AUTHORIZATIONS

ENGINEER

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PRODUCTION FOREMAN

WORKOVER FOREMAN

UNITED STATES DEPARTMENT OF THE INTERIOR

**BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE**

1235 La Plata Highway
Farmington, New Mexico 87401

Attachment to Notice of

Re: Plug Back

Intention to Plug Back

Well: **1 Price**

CONDITIONS OF APPROVAL

1 **Mike Flaniken** with the Farmington Office is to be notified at least 24 hours before the plug back operations commence (505) 599-8907.

3. The following modifications to your plug back program are to be made (when applicable):

- 1.) Spot a cement plug from 6342' to 6242' plus 50 linear feet excess inside the casing. (top of Gallup @ 6292'.
- 2.) Spot a cement plug from 4528' to 4428' plus 50 linear feet excess inside the casing. (top of Mesaverde @ 4478')
- 3.) Perforate at 3205', place a cement plug from 3205' to 3105' inside and outside the casing plus 100% excess cement in the annulus and 50 linear feet excess inside the casing.

Note: The concern is with the 4 1/2" casing being backed off at approximately 3100' and a 7 5/8" CIBP being set above the cut off. Major problems could be encountered in the future drilling out the 7 5/8" CIBP to properly plug the lower formations.