San Juan 27-5 #24
Mesa Verde/Pictured Cliffs
1140' FNL & 1840' FEL
Unit B, Section 32, T27N, R05W
Latitude / Longitude: 36° 32.0947'/ 107° 22.7179'
DPNO: 5335301 (MV)
Tubing Repair Procedure

Project Summary: The San Juan 27-5 #24 was drilled in 1957 as a Mesa Verde/Pictured Cliff dual well with the Pictured Cliff producing up the casing. A wireline check on 8/18/98 was ran to 4860'. Fluid level was at 4650'. The tubing has not been pulled since originally installed. We propose to pull the tubing, check for fill, replace any worn or scaled tubing, reset the tubing with a packer continuing to let the Pictured Cliffs produce up the casing, install production equipment and add a plunger lift.

1. Hold safety meeting. Comply with all NMOCD, BLM and Burlington safety and environmental regulations. Test rig anchors and build blow pit prior to moving in rig. **Notify BROG Regulatory (Peggy Bradfield 326-9727) and the appropriate Regulatory Agency prior to pumping <u>any</u> cement job. If an unplanned cement job is required, <u>approval is required before the job can be pumped</u>. <u>If verbal approval is obtained, document approval in DIMS/WIMS</u>. Allow as much time as possible prior to pump time in case the Agency decides to witness the cement job.**

2. MOL and RU workover rig. Obtain and record all wellhead pressures. NU relief line. Blow well down and kill with 2% KCL water if necessary. NU BOP with stripping head. Test and record operation of BOP rams. Have wellhead and valves serviced as necessary. Test secondary seal and replace/install as necessary.

3. The Mesa Verde tubing is 2-3/8", 4.7#, J-55 set at 5484' with a Baker EOJ packer at 4858' and an Otis sidedoor choke at 4857'. Release donut. Attempt to release the packer with straight pickup. If packer will not release, cut 2-3/8" tubing above the packer and fish with overshot and jars. TOOH with the 2-3/8" tubing. Visually inspect tubing for corrosion and replace any bad joints. Check tubing for scale build up and notify Operations Engineer.

4. TIH with 4-3/4" bit and a watermelon mill on 2-3/8" tubing to below perforations, cleaning out with air/mist. PU above the perforations and flow the well naturally, making short trips for clean up when necessary. TOOH with tubing. **NOTE: When using air/mist, minimum mist rate is 12 bph.**

5. TIH with one joint of 2-3/8" tubing with an expendable check on bottom, a seating nipple one joint off bottom and sufficient 2-3/8" tailpipe to place Baker Model R-3 packer at approximately 3390' with the tubing landed at approximately 5480'. Run a broach on sand line to insure that the tubing is clear and land tubing. ND BOP and NU WH. Pump off expendable check. Swab well to assure that expendable check has pumped off. RD and MOL. Return well to production.

6. Production operations will install the plunger lift.

Recommended: K Midkiff 1/29/98
Operations Engineer

Approved: Bruce D. Boyd 2-1-99
Drilling Superintendent

Kevin Midkiff
Office - 326-9807
Pager – 564-1653