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Grenier A 8

Dakota/Mesa Verde AIN: 2567901 and 2567902 1450' FNL & 1450' FWL Unit F, Sec. 35, T30N, R10W

Latitude / Longitude: 36° 46.34' / 107° 51.85'

Recommended Commingle Procedure

Project Summary: The Grenier A 8 is a dual Dakota/Mesa Verde well drilled in 1978. The Dakota is currently producing 87 MCFD and has a cumulative production of 854 MMCF. The Mesa Verde is producing 185 MCFD and has a cumulative production of 1,824 MMCF. There is an obstruction in the Mesa Verde tubing. We plan to commingle this well and add production equipment in order to keep the well unloaded. This well has not been pulled since it was originally drilled. Estimated uplift is 25 MCFD for the Dakota and 50 MCFD for the Mesa Verde.

- 1. 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 any cement job. If an unplanned cement job is required, approval is required before the job can be pumped. If verbal approval is obtained, document approval in DIMS. 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. Conduct safety meeting for all personnel on location. NU relief line. Blow down well and kill with 2% KCl water as necessary. ND wellhead and NU BOP. Test and record operation of BOP rams. Have wellhead and valves serviced at machine shop to convert to a single string wellhead (2-3/8"). Test secondary seal and replace/install as necessary.
- 3. Set a plug with wireline in the 1.985" ID SN in the Dakota tubing. There is an obstruction (plunger parts) in the Mesa Verde tubing. Set a plug in the Mesa Verde tubing prior to pulling the tubing. TOOH laying down the 1-1/2", 2.76#, J-55 Mesa Verde tubing (set at 5117').
- 4. Release Model R double grip packer (set at 5263') with straight pickup (no rotation required). If packer will not come free, then cut 2-3/8" tubing above the packer and fish with overshot and jars. TOOH with 2-3/8", 4.7#, CSR-55 Dakota tubing (set at 7074'). Visually inspect tubing for corrosion and replace any bad joints. Check tubing for scale build up and notify Operations Engineer.
- 5. TIH with 3-7/8" bit and a watermelon mill on 2-3/8" tubing and cleanout to PBTD at +/- 7176'. 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, the minimum mist rate is 12 bph.

 Try to maintain air rate at 1,400 cfm. A hydrocarbon stable foamer should be utilized since this well makes significant amounts of condensate.
- 6. TIH with 2-3/8" tubing with an expendable check and a seating nipple on the bottom. Broach all tubing and land at approximately 7120'. ND BOP and NU single string wellhead (2-1/16" master valve). Pump off expendable check and blow well in. RD and MOL. During cleanout operations the reservoir may be charged with air. As a result of excess oxygen levels that may be in the reservoir and/or wellbore, contact the Lease Operator to discuss the need for

determining oxygen levels prior to returning the well to production. Return well to production.

7. Production Operations will install plunger lift.

Recommended:

Operations Engineer

Approval:

Contacts:

Operations Engineer

Joe Michetti

Office - 326-9764

Pager - 326-8385

Sundry Required: (YES/LNO

Regulatory Approval

Lease Operator:

Mike Gould

Cell: 320-2509

Pager: 326-8405

Specialist:

Cell: 320-2503

Pager: 326-8473

Foreman:

Terry Nelson

Steve Florez Office: 326-8560

Cell: 320-0029

Pager: 326-8199

JAM/ims