

Pipeline Deep Unit Federal

North Quail Ridge Morrow Gas Field

Attempt recompletion in Bone Springs formation-

- 10/26 F-LVL @ 9200'. SWBD 2-1/2 BBLs FOR 8 HRS. F-LVL 9200-9700' (DRY).
- 10/27 ND TREE, NU BOP, REL PKR. RIH TO 9851'. SPOT 500 GAL 20% HCL W/9-40 & XL-2L 9851-9338', POOH. PERF BONE SPRINGS W/4" CSG GUN 2 SPF @ 9386-46' (21 SHOTS). RIH W/5-1/2" PKR ON 2-3/8" TBG, SPA 9770'. ND BOP, NU TREE. SDON.
- 10/28 PUMP INTO BONE SPRINGS PERFS 9836-52' W/500 GAL ACID @ 2 BPM @ 4500-4700'. ISIP 4400 (15) 3400 PSI. TLTR 50 BLW. SWBD 37 BW FOR 7 HRS. F-LVL SURF-8500'. SWBD 2 BW LAST HR W/TR OF OIL. SDON.
- 10/30 SITP 130/38. F-LVL 7500'. SWBD 2 BO + 8 BW/4-1/2 HRS. F-LVL 7500-9000'. LAST HR SWBD 2 BTF, 2% OIL. TR 45 OF 50 BLW. ND TREE. NU BOP. RIH W/PKR TO 9851'. REV CIRC HOLE CLEAN. PUH, PSA 9770'. SDON.
- 11/2 RIH TO 9980', SPOT 500 GAL 15% HCL W/NE, FE & LST ACID FRM 9980-9468', POOH. PERF BONE SPRINGS W/4" CSG GUN 4 SPF @ 9794-80' (25 SHOTS). TIH W/5-1/2" PKR ON 2-3/8" TBG, SPA 9368'. SDON.
- 11/3 SITP 0/13, 0# CP. FIH W/5-1/2" PKR, PSA 9930'. REV ACID INTO TBG. PI & BRK DN BONE SPRING PERFS @ 9974-80' @ 2.3 BPM & 4400-4250'. ISIP 3250 (5) 3000 (15) 2750. TLTR 54 BBL. SWBD 30 BW/7 HRS. F-LVL SURF-8200'. SWBD 2 BW LAST HR, NO SHOW OIL OR GAS. SDON.
- 11/4 ACIDIZE BONE SPRING PERFS @ 9974-80' W/3000 GAL 20% NE, FE & LST HCL + 50 1.3 SG BS TO DIVERT @ 2.2-2.6 BPM & 3900-4400#. ISIP 3400 (15) 3200. TLTR 112 BBL. SWBD 34 BW/6 HRS. F-LVL SURF-7500'. SWBD 5 BTF LAST HR, NO SHOW OIL OR GAS. SDON.
- 11/5 SWBD 11 BW FOR 6-1/2 HRS. F-LVL 7000-9500' (DRY). REC NO FLUID LAST HR, NO OIL OR GAS SHOW. TR 45 OF 112 BLW. SDON.
- 11/6 SITP 20/16. F-LVL 9300'. MADE ONE SWAB RUN. NO RECOVERY. REL PKR. PUH TO 9650'. SPOT 500 GAL 15% NE, FE & LST HCL FRM 9650-9135'. TOH, SDON.
- 11/7 APOLLO PERF BONE SPRING THRU 5-1/2" W/4" CSG GUN 2 SPF @ 9620-26', 9632-48' (46 HOLES TOTAL). PU 5-1/2" GUIBERSON PKR & RBP. RIH W/SA ON 2-3/8" SET BP @ 9750'. TEST 4400#, OK. PU PSA 9560'. REV 12 BBL ACID. PKSA 9560'. BD & PI BONE SPRING 9620-48' W/500 GAL ACID @ 2.4-3 BPM 3400-4000#. ISIP 2900 (5) 2750 (15) 2600. TLTR 51 BBL. SWBD 33 BW 5/HRS. F-LVL SURF-9100' DRY. SD 1/2 HR W/NO FLUID ENTRY. SWI. SDON.
- 11/8 F-LVL @ 9000' AFTER 13 HRS (100' ENTRY). SLIGHT TR OF OIL. POH W/STRADDLE ASSY. RAN TBG OE'D TO 10,049' & SPOT 70 SXS CLASS "H" CMT W/0.1% RETARDER 10,049-9415'. PU TO 9112'. SDON.
- 11/9 RIH W/2-3/8" TBG OPEN ENDED TO TOC @ 9537'. POOH & LD 2-3/8" TBG. ND BOP, RIG DN PU. TEMP OFF REPORT. - Pending Evaluation