

Teledyne 4 Gas Com Well No. 1

660' FSL & 330' FEL, Sec 4, 23-S, 29-E

Eddy County, New Mexico

DST RESULTS

DST NO. 2 11940-12014 ATOKA CLOSED CHAMBER TST TO EVALUATE SN DRLG BREAK 11988-12088: ON 5.5 MIN INITIAL PREFLOW VERY LOW FLOW OF GAS WAS INDICATED. R 76" ISIBHP WITH NO GAS OBSERVED BREAKING OUT FROM SURFACE PRS INDICATIONS. BLOWDOWN INDICATED REC OF 0.5 BBL. ON 63" FINAL FLOW AVERAGE FLOW RATE OF 27 MCFPD WAS CALCULATED WITH INDICATIONS OF ONLY A LOW FLOW OF GAS. RAN 154" FSIBHP WITH SURFACE PRS BEHAVIOR INDICATING GAS BREAKING OUT OF W CUSHION FOR 1 HR. BLOWDOWN INDICATED REC OF 0.5 BBL. RECOVERED 1430 FT OR 16.39 BBLS OF SLIGHTLY GAS-CUT WATER CUSHION WITH CHLORIDES 3000 MPL AND RESISTIVITY 4.0 AT 64 DEG F 600 FT OR 2.94 BBLS OF SULFUR GAS-CUT W CUSHION 3000 MPL AND 3.6 AT 65 DEG F AND 40 FT OR 0.20 BBLS SULFUR GAS-CUT AND MUD-CUT W 83000 MPL AND 0.08 AT 63 DEG F. SAMPLE CHAMBER REC AT 200 PSI OF 0.77 CU FT OF GAS AND 300 CC DRLG MUD WITH CHLORIDES 97000 MPL AND RESISTIVITY 0.07 AT 65 DEG F VS PIT MUD 88000 MPL AND 0.08 AT 56 DEG F. IHH 5767 PSI. 5.5" IFBHP 916-916 PSI. 76" ISIBHP 5209 PSI. 63" FFBHP 916-916 PSI. 154" FSIBHP 5355 PSI. FHH 7676 PSI. BHT 189 DEG F.

DST NO. 3 13217-13242 MORROW CLOSED CHAMBER TEST TO EVALUATE SAND DRILLING BREAK 13224-13242: TOOL OPENED ON INITIAL FLOW WHICH EXTENDED THROUGH INITIAL SHUT-IN AND FINAL FLOW DUE TO OPERATOR ERROR IN CYCLING TOOL--TOTAL FLOW TIME 138 MINS. RAN 100 MIN FSIBHP. RECOVERED 3200 FT OR 31.7 BBLS OF FRESH WATER CUSHION WITH CHLORIDES 1000 MPL AND RESISTIVITY 8.0 AT 45 DEG F IN TOP AND 4500 MPL AND 2.3 AT 45 DEG F IN MIDDLE 400 FT OR 1.6 BBLS OF DRILLING FLUID WITH CHLORIDES 110000 MPL AND 88 FT OR 0.4 BBLS FORMATION WATER WITH CHLORIDES 51000 MPL AND RESISTIVITY 0.2 AT 45 DEG F. SAMPLE CHAMBER RECOVERY AT 45 PSI OF 0.6 CU FT OF GAS AND 1800 CC OF WATER WITH CHLORIDES 51000 MPL AND RESISTIVITY 0.2 AT 45 DEG F VS PIT MUD 110000 MPL AND 0.11 AT 45 DEG F. IHH 8066 PSI. 138 MIN IFBHP 1657-1671 PSI. 100 MIN FSIBHP 5320 PSI STILL BUILDING. FHH 7953 PSI. BHT 210 DEG F.