

AMOCO PRODUCTION COMPANY

FEDERAL "J" WELL NO. 1

2180'FNL & 660'FWL, UNIT E, SEC. 6, T-26-S, R-27-E

EDDY COUNTY, N.M.

DST NO 1 4867-4959 CONVENTIONAL TST TO EVAL DELAWARE SHOWS X KICK ZONE: TOOL OPENED ON 5 MIN PREFLOW X FAIR BLW OF AIR IMMEDIATELY 2 IN OF H₂O INCREASING TO GOOD BLOW OF AIR IN 2 MINS 28 IN OF H₂O X MEASURING 2 PSI AT END OF 5 MIN. R 90 MIN ISIBHP. OPENED ON 90 MIN FINAL FLOW X GOOD BLOW OF AIR IMMEDIATELY 11 PSI AT 10 MIN X CHANGED FROM 1/8" BUBBLE ROSE TO 1/4" CH TO FLOWLINE GAS TO SURF IN 18 MIN X 10 PSI ON 1/4" CH 11 PSI IN 20 MIN 36 MCFPD 18 PSI IN 30 MIN 47 MCFPD 26 PSI IN 40 MIN 58 MCFPD 35 PSI IN 50 MIN 70 MCFPD 45 PSI IN 60 MIN 85 MCFPD 52 PSI IN 70 MIN 95 MCFPD 60 PSI IN 80 MIN 105 MCFPD X 65 PSI IN 90 MIN 115 PCFPD. R 392 MIN FSIBHP UNTIL DAYLIGHT. REC 10 FT SLUDGY YELLOWISH-GREEN OIL X 800 FT DRL FL 155000 MG/L CHL X RESISTIVITY 0.06 AT 67 DEG F. SAMPLE CHAMBER REC AT 350 PSI OF 800 CC DRL FL 155000 MG/L CHL X RESISTIVITY 0.06 AT 67 DEG F O CC W X 2.1 CU FT GAL PIT MUD 154000 MG/L CHL X RESISTIVITY 0.05 AT 70 DEG F. IHH 2506 PSI 5 MIN IFBHP 131-162 PSI. 90 MIN ISIBHP 2345 PSI STILL BUILDING. 90 MIN FFBHP 162-419 PSI. 392 MIN FSIBHP 2340 PSI STILL BUILDING. FHH 2506 PSI. BHT 110 DEG F.

DST #2 11027-11045. MORROW STRADDLE PKR TST MISRUN.

PKRS FAILED TO INFLATE.

DST #3 11029-11047

STRAWN TO EVAL CORED INTERVAL BY LYNES INFLATABLE STRADDLE PKR TST: TOOL OPENED ON 12:45 P.M. 6/6/78 ON 5 MIN PREFLOW X WEAK BLOW OF AIR IMMEDIATELY X CONTINUING FOR FLOW PERIOD. R 60 MIN ISIBHP. OPENED TOOL FOR 60 MIN FINAL FLOW X FAIR BLOW OF AIR INC TO STRONG FLOW OF AIR IN 5 MINS FOR DURATION OF TST. ON PULLING TOOL IT WAS DETERMINED THAT FL CUT O-RINGS IN HYDRAULIC TOOL MADE FSIBHP TST INVALID X FINAL FLOW PERIOD WAS ACTUALLY 180 MINS. PKRS HELD OK X REC DATA IS REPRESENTATIVE. REVISED REC DATA BASED ON FINAL FIELD REPORTS: 2000 FT BRINE WATER BLANKET 720 FT CONCENTRATED ST W 56 FT DRL MUD 6350 FT LIGHT BUBBLY FOAM X 900 FT FOAMED UP MUD. SAMPLE CHAMBER REC AT 300 PSI OF 0 CU FT OF GAS 0 CC OF OIL X 2400 CC MUDDY ST WATER CHL 100000 MG/L VS PIT MUD CHL 132000 MG/L. IHP 6383 PSI. 5 MIN IFBHP 1118 PSI. 60 MIN ISIBHP 5500 PSI STILL BUILDING. 60 MIN FFBHP 1117 PSI 180 MIN FFBHP 1161 PSI. FHP 6295 PSI. BHT 140 DEG F. R 2000 FT BW BLANK SO AS TO NOT EXCEED INFLAT PKR DIFFERENTIAL PRS RATING 11.2 LBS/GAL MUD.

RECEIVED
AUG 18 1978
U.S. DEPARTMENT OF
ENERGY