

AMOCO PRODUCTION COMPANY

EMPIRE SOUTH DEEP UNIT WELL NO. 19

2280' FNL & 660" FEL, UNIT H, SEC. 36, T-17-S, R-28-E

EDDY COUNTY, NEW MEXICO

DST RESULTS

073078 R DST #1 7700-7765. WOLFCAMP. LYNES STRADDLE PKR TST TO EVAL LOG POROSITY ZONE 7730-7740. TOOL OPENED X STRONG BLOW OF AIR CONTINUING DURING 15 MIN PREFLOW. R 60 MIN ISIBHP. OPENED ON 60 MIN FINAL FLW X GOOD BLOW OF AIR WHICH CONTINUED THROUGHOUT TST. R 120 MIN FSIBHP. REV OUT 2780 FT SLIGHTLY OIL X HEAVILY GAS CUT SULFUR W X RESISTIVITY 0.18 AT 78 DEG F X 53000 MG/L CHL AT TOP OF REC 0.14 AT 78 DEG F X 62000 MG/L CHL IN MIDDLE X 0.09 AT 78 DEG F X 72000 CHL IN BTM OF REC. SAMPLE CHAMBER REC AT 40 PSI OF 2000 CC OIL X GAS CUT DRL MUD X RESISTIVITY 0.14 AT 78 DEG F X 53000 MG/L CHL VS PIT MUD 52000 MG/L CHL. IHH 3780 PSI.
15 MIN IFBHP 126.6-202.5 PSI. 60 MIN ISIBHP 2717.7 BUILDING UP ALMOST IMMEDIATELY X STAB. 60 MIN FFBHP 329.1-783.3 PSI. 120 MIN FSIBHP 2642.1 BUILDING UP ALMOST IMMEDIATELY X STAB. FHH 3655 PSI. BHT 150 DEG F.

8-1-78

DST #2 7000-7098. BONE SPRINGS. OPEN TOOL 1:35 AM. LYNES STRADDLE PKR TST TO EVAL LOG ZONE 7022-7086. TOOL OPENED X WEAK BLOW OF AIR DIED IN 2 MINS DURING 15 MIN. PREFLOW. R 30 MIN ISIBHP. OPENED ON 30 MIN FINAL FLW X NO SURF BLOW DURING PERIOD. R 60 MIN FSIBHP. REC 5 FT OF MUD IN DRL STRING X RESISTIVITY OF 0.09 AT 86 DEG F X 115000 MG/L CHL. SAMPLE CHAMBER REC AT 0 PSI OF 2100 CC MUC X RESISTIVITY 0.11 AT 54 DEG F X 116000 MG/L CHL VS PIT MUD OF 1.3 AT 86 DEG F X 82000 MG/L. IHH 3450 PSI. 15 MIN IFBHP 22-44 PSI. 30 MIN ISIBHP 197 PSI X SLIGHT BU. 30 MIN FFBHP 44-44 PSI. 60 MIN FSIBHP 87 PSI X VERY SLIGHT BU. FHH 3429 PSI. BHT.