

9-20-87 12,750' 40% LIME, 60% SHALE, 25,000 BIT WT. 100 UNITS BACK GROUND GAS, 400 UNITS CONN. GAS. 12,717'-12,730' SAND, 12,733-12,752' LIME, WT. 10, VIS. 28, WATER LOSS 10, PH 9.5, 200,000 CHL. 45 STROKES, 1800 PUMP PRESSURE, 11 HRS. DRLG. CMT. 12,213' 12,572', FLOAT @ 12,572' CMT. 12,655 SHALE, 8 1/4 HRS. FORMATION 4 3/4 HRS. PUMP REPAIR. DMC:0, CMC:\$131,661.00, DWC:\$5850.00 CWC:\$1,076,001.00.

9-21-87 12,855' 100% LIME, 25,000 BIT WT. TRIP IN HOLE WITH BIT. 100 UNITS BACK GROUND GAS, 720 CONN. GAS. WT. 10.0 VIS. 28, WL. 14 PH 10, 187,000 CHL. BIT #14 6 1/2" HTC J33-C (NM198) 3/18 12,656'-12855' 199' IN 27 1/4 HRS. BIT #15 6 1/2" REED HPSM (NJ-0786) 3/14 IN 12,855', 19 1/2 HRS. DRLG. 4 1/2 HRS. TRIP DMC:\$2433.00 CMC:\$134,094.00, DWC:\$7592.00, CWC:\$1,083,593.00.

9-22-87 12,991' 90% SHALE 10% LIME, 25,000 BIT WT., PRESENT OPERATION: DRILLING, 300 UNITS BACKGROUND GAS, 750 UNITS CONN. GAS. TRIP GAS 10' FLARE, NO GAIN. WT. 10.0, VIS. 31, WL. 12.4, PH 9.5 185,000 CHL. 45 STROKES, 1800 PUMP PRESSURE, BIT #15 6 1/2" REED SN NJ0786 3/14 IN @ 12,855' MADE 136' IN 18 HRS. 4 1/2 HRS. TRIP, 3/4 HR. CUT DRLG. LINE, 3/4 HR. REAM TO BOTTOM, 18 HRS. DRLG. MADE 136' IN LAST 24 HRS. DMC:0 CMC:\$134,094.00, DWC:\$4500.00 CWC:\$1,088,093.00.

-23-87 13,155', 80% Lime, 20% Shale; 25,000# Wt. on Bit. Present Operation: Drilling 400 units Background Gas, 800 units Conn. Gas; 10 Wt., 30 Vis, 7.2 W.L., 10.5 PH, 183,000 Chlorides; 45 Strokes, 1800 Pump Pressure, 104 SPM, Bit #15, 6 1/2", Reed, SN-NJ0786, 3-14 Jets, In @ 12,855'. Made 300' in 39 1/2 hrs.; Hourly Breakdown: 21 1/2 Hrs. Drlg., 2 1/2 hrs. Jet Collar. Test Wellhead to 500 psi, Made 164' in last 24 hrs., DCM: \$1082, CMC: \$135,176; DWC: \$5242; CWC: \$1,093,335.

-24-87 13,247', 25,000 #WT. on bit; Present Operation: Shut-in to circulate gas out of hole. 3' Drilling break, 13,244-13,247; 1 min./ft. Shut-in. Had 20 BBL gain immediately, 700# drill pipe pressure, 1100# Csg. Pressure. Circulate out gas. 1200# on drill pipe and 1900# on csg. 50' flare. Zone not depleting. Lost 50 BBL fluid in formation after working out gas. Drop drill pipe pressure to 1000#. Gave up 50 BBL mud and 75 BBL gas; 10.2 Wt., 36 Vis, 5 W.L., 10.5 PH, 184,000 Chlorides, 45 RPM, 1800# Pump Pressure, 104 SPM, Bit #15, 6 1/2", Reed, SN-NJ0786, 3-14 Jets, In @ 12,855', Made 392' in 49 1/2 Hrs; Hourly Breakdown: 14 hrs.-drlg, 10 hrs.-Well shut-in on choke. DMC: \$0; CMC: \$135,176; DWC: \$4850, CWC: \$1,098,185

-25-87 13,280'; 50% Lime, 20% Chert, 20% Shale, 10% Sand; 25,000 #Wt. on bit; Present Operation: Drilling, 120 units; Background gas, no flare; 11.2 WT., 39 Vis, 5.2 W.L., 10.5 PH, 186,000 Chlorides, 45 RPM, 1800 Pump Pressure, 92 SPM; Bit #15, 6 1/2" Reed, SN-NJ0786, 3-14 Jets, In @ 12,855', Made 435' in 64 3/4 hrs; Hourly Breakdown: 12 3/4 hrs. circulate gas and raise mud weight to 11.2, 11 1/4 hrs drlg; Made 33' in last 24 hrs. DMC: \$4850; CMD: \$158,976; DWC: \$4850; CWC: \$1,103,035