



SUMMARY REPORT

4/2/98

HAPPY VALLEY '4' FED #22

10/10/97

Days- 51; Depth- 11664; FTG- 69; DRILLING; Basal Lower Morrow 80% sand 20% shale; DRILLING; MW- 10.6+; Vis- 44; PV/YP- 10/25; Gels- 10/14; pH- 9.5; WL- 6.2; Cake- 1; Sand- TR; Solids- 6.5; Chls- 158K; LCM- 4#; Calc- 100; Mix- KCL 4.5; Liner- 5 1/2"; Stroke- 16; SPM- 44; Press- 1950; GPM- 204; NV- 99; AVDP- 205; AVDC- 350; DEV- 3/4 @ 11660; Bit#- 11; SN- H68YF; Size- 6 1/8; Mfg- HTC; Type- STR 44C; Jets- 3-18; In- 11293; Out- 11660; Ftg- 367; Hrs- 58 1/4; Ft/Hr- 6.3; T/B/G- 6/5/ 1/16; WOB- 30; RPM- 50; BHA(ft)- 1110.94; Bit#- 8 rerun; SN- H67YF; Size- 6 1/8; Mfg- HTC; Type- STR 44C; Jets- 3-18; In- 11660; Ftg- 4; Hrs- 1; Ft/Hr- 4; WOB- 25; RPM- 50; BHA(ft)- 1110.94; 10 3/4 hrs-Drlg; 1/4 hr-Circ drlg break 11649-11655 4 min/ft 165 unit show; 1/4 hr-Drlg to 11660; 1 1/4 hr-Circ Samples out @ 11660; 1/2 hr-Drop totco; 4 hrs-TOH for bit #11; 3 1/2 hrs-TIH/rerun bit #8; 1/2 hr-BC @ 9050'; 1/2 hr-TIH; 1/4 hr-BC @ 10730; 1/4 hr-TIH; 1 hr-Wash 60' to bttm no fill no out of gauge hole; 1 hr-Drlg from 11660 to 11664.

DMC-\$ 1683 TMC-\$ 62,403 TDC-\$ 12313 CWC-\$ 958,264 CMIC- KJ

10/11/97

Days- 52; Depth- 11780; FTG- 116; DRILLING; Basal Lower Morrow; DRILLING; MW- 10.6; Vis- 44; PV/YP- 11/25; Gels- 10/15; pH- 9.5; WL- 6.6; Cake- 1; Sand- TR; Solids- 7.0; Chls- 158K; LCM- 4; Calc- 200; Mix- 4.5; Liner- 5 1/2; Stroke- 16; SPM- 44; Press- 1950; GPM- 204; NV- 99; AVDP- 205; AVDC- 350; Bit#- 3 rerun; SN- H67YF; Size- 6 1/8; Mfg- HTC; Type- STR 44C; Jets- 3-18; In- 11660; Ftg- 120; Hrs- 24 3/4; Ft/Hr- 4.8; WOB- 28; RPM- 50; BHA(ft)- 1110.94; 4 1/4 hrs-Drlg; 1/4 hr-Serv rig; 19 1/2 hrs-Drlg to 11780'. BG gas 10-15. Con Gas 50. Trip Gas 900. Lith: 60% sand, 30% shale, 10% lime. Str Wt 194K. SPR 900#, 255 pm.

DMC-\$ 104 TMC-\$ 62,507 TDC-\$ 10654 CWC-\$ 968,918 CMIC- KJ