

HAPPY VALLEY '4' FED #22

10/01/97 Days- 42; Depth- 10,730'; FTG- 163'; DRILLING - NO FLARE; Atoka, 80% Limestone & 20% Shale; MW- 10.4/10.6; Vis- 42/42; PV/YP- 11/22; Gels- 7/12; pH- 10.0/10.0; WL- 5.6/6; Cake- 1/1; Sand- Trace; Solids- 4.5/5; Chls- 166K/177K; LCM- 0/5; Calc- 220/200; Liner- 5 1/2"; Stroke- 16; SPM- 44; Press- 1875; GPM- 204; NV- 99; AVDP- 205; AVDC- 350; Bit#- 9; SN- G37YD; Size- 6 1/8"; Mfg- HTC; Type- STR44C; Jets- 3-18's; In- 10,567'; Ftg- 163; Hrs- 223.5; Ft/Hr- 6.9; WOB- 25; RPM- 65; BHA(ft)- 1110.94; 9 1/4 hr-Drlg; 1/2 hr-Change out rotating head @ 10,645'; 14 1/4 hrs-Drlg.
DMC-\$ 4207. TMC-\$ 40,862 TDC-\$ 14,824. CWC-\$ 822,787 CMIC-KJ

10/02/97 Days- 43; Depth- 10,881'; FTG- 151'; DRILLING; 50% Limestone & 50% Shale; MW- 10.8+; Vis- 40; PV/YP- 12/22; Gels- 9/14; pH- 10; WL- 6; Cake- 1; Sand- Trace; Solids- 5; Chls- 177K; LCM- 5#; Calc- 200; Liner- 5 1/2"; Stroke- 16; SPM- 44; Press- 1850; GPM- 204; NV- 99; AVDP- 205; AVDC- 350; Bit#- 9; SN- G37YD; Size- 6 1/8"; Mfg- HTC; Type- STR44C; Jets- 3-18's; In- 10,567'; Ftg- 314; Hrs- 46; Ft/Hr- 6.8; WOB- 28; RPM- 60; BHA(ft)- 1110.94; 5 1/2 hrs-Drlg; 1/4 hr-BOP Drill; 5 1/4 hrs-Drlg; 1/2 hr-Service Rig; 7 1/2 hrs-Drlg; 3/4 hr-Smart System showed instant 130 bbls gain. Pit markers showed 20 bbl gain. Shut well in @ 10,856'; 4 1/4 hrs-Drlg.
DMC-\$ 0. TMC-\$ 40,862 TDC-\$ 10,525. CWC-\$ 833,312 CMIC- KJ

10/03/97 Days- 44; Depth- 11,023'; FTG- 142'; DRLG - NO FLARE; Morrow 60%, 20% Chert, 20% Shale; MW- 10.6; Vis- 40; PV/YP- 10/20; Gels- 9/14; pH- 9.0; WL- 7.2; Cake- 1; Sand- Trace; Solids- 6; Chls- 176K; LCM- 5#; Mix- KCL 5.5; Liner- 5 1/2"; Stroke- 16; SPM- 44; Press- 1850; GPM- 204; NV- 99; AVDP- 205; AVDC- 350; DEV- 2 @ 10,939; Bit#- 9; SN- G37YD; Size- 6 1/8"; Mfg- HTC; Type- STR44C; Jets- 3-18's; In- 10,567'; Ftg- 314; Hrs- 46; Ft/Hr- 6.8; WOB- 28; RPM- 60; BHA(ft)- 1110.94; 2 3/4 hrs-Drlg f/10,881'; 1/4 hr-Service rig; 5 3/4 hrs- Drlg to 10,949'; 1 1/4 hr-Survey @ 10,939'; 13 3/4 hrs-Drlg; 1/4 hr-Service rig.
DMC-\$ 1974. TMC-\$ 42,836 TDC-\$ 15,764. CWC-\$ 849,076 CMIC-KJ