

4/2/98
HAPPY VALLEY '4' FED #22
10/04/97

Days- 45; Depth- 11061; FTG- 38; SWIVEL LOCKED UP; Morrow 20% chert 20% shale 60% lime; SWIVEL LOCKED UP; MW- 11.0; Vis- 43; PV/YP- 13/22; Gels- 10/15; pH- 8.5; WL- 7.6; Cake- 1; Sand- tr; Solids- 7; Chls- 174k; LCM- 4#; Calc- 200; Mix- KCL 5%; Liner- 5 1/2; Stroke- 16; SPM- 44; Press- 1950; GPM- 204; NV- 99; AVDP- 205; AVDC- 350; DEV- 1 1/2 @ 11026; Bit#- 9; SN- G37YD; Size- 6 1/8"; Mfg- HTC; Type- STR44C; Jets- 3-18's; In- 10,567'; Out- 110567; Ftg- 459; Hrs- 68 3/4; Ft/Hr- 6.67; T/B/G- 7/5/in; WOB- 25/28; RPM- 65/60; BHA(ft)- 1110.94; Bit#- 10; SN- LM5899; Size- 6 1/8; Mfg- STC; Type- F57P; Jets- 3-18's; In- 11026; Ftg- 35; Hrs- 10 3/4; Ft/Hr- 3.25; WOB- 28/30; RPM- 50/60; BHA(ft)- 1110.94; 1/2 hr-Drlg to 11026'; 3/4 hrs-Drop totco; 1 1/4 hrs-TOH/Bit #9; 1 3/4 hrs-Replace high drum chain; 1 3/4 hrs-TOH/Bit #9; 3/4 hrs-Cut drlg line; 1 1/4 hrs-TOH/Bit #9; 1/2 hr-Work blinds-OK-Dress bit #10 STC F57P 3-18's; 2 3/4 hrs-TIH/Bit #10; 3/4 hr-Broke circ @ 8980'; 1/2 hr-TIH; 1/4 hr-Wash 60' to bttm 1' fill; 10 3/4 hrs-Drlg; 1/2 hr-Swivel locked up- prep to pull bit into 7" csg. BG gas-7. Con Gas-none. Survey gas-na. Trip gas-1204. Str wt-181,000. Spr 875#. 25 SPM.

DMC-\$ 5268 TMC-\$ 48,104 TDC-\$ 20768 CWC-\$ 869,844 CMIC- KJ

10/05/97

Days- 46; Depth- 11104; FTG- 43; DRILLING; Morrow 60% lime 20% chert 10% sand 10% shale; DRILLING; MW- 10.6; Vis- 40; PV/YP- 10/21; Gels- 9/14; pH- 8.0; WL- 7.2; Cake- 1; Sand- TR; Solids- 5.5; Chls- 170K; LCM- 2-4; Calc- 180; Mix- KCL 5; Liner- 5 1/2"; Stroke- 16; SPM- 44; Press- 1925; GPM- 204; NV- 99; AVDP- 205; AVDC- 350; Bit#- 10; SN- LM5899; Size- 6 1/8; Mfg- STC; Type- F57P; Jets- 3-18's; In- 11026; Ftg- 78; Hrs- 18 1/2; Ft/Hr- 4.2; WOB- 30/32; RPM- 60; BHA(ft)- 1110.94; 1 hr-Pull bit into 7" csg-WO swivel from Patterson Drilling; 3 1/4 hrs-Circ in 7" csg-WO swivel; 2 1/4 hrs-Replace swivel-bottom box sub on swivel leaks; 6 1/2 hr-WO another swivel; 2 1/2 hrs-Change out swivels; 1/2 hr-TIH-new bearing section rot head & rubber; 1/4 hr-Wash 50' to bttm; 7 3/4 hrs-Drlg. BG gas-30-40. Con gas-250. Trip gas 750. Str wt 187,000. SPR 875#, 25 SPM.

DMC-\$ 0 TMC-\$ 48,104 TDC-\$ 11305 CWC-\$ 881,149 CMIC- KJ