



SUMMARY REPORT

4/2/98

HAPPY VALLEY '4' FED #22

09/18/97

Days- 29; Depth- 9171; FTG- 0; CIRC/RIG PUMP F/DV TOOL; Wolfcamp 70% shale 30% lime; CIRC/RIG PUMP F/DV TOOL; MW- 9.0; Vis- 32; PV/YP- 6/2; Gels- 1/3; pH- 10.5; WL- 7.2; Cake- Film; Sand- TR; Solids- .6; Chls- 72000; Calc- 1680; Liner- 5 1/2; Stroke- 16; Bit#- 4 rerun; SN- LN0249; Size- 8 3/4; Mfg- STC; Type- F47H; Jets- 3-12's; In- 4904; Out- 7436; Ftg- 2532; Hrs- 154; Ft/Hr- 16.4; WOB- use to lay; RPM- down DP &; BHA(ft)- DC; 6 hrs-Lay down DP; 1/2 hr-Break Kelly; 3/4 hr-Lay down DC; 1 hr-Rig up casers; 3/4 hr-Run 7" 23#, S95, & LT&C; 1/4 hr-Pump thru manual fill float @ 491.08; 3 hrs-Run 7" csg-fill on the run; 3/4 hr-Broke circ @ 5218.67; 2 1/4 hr-Run 7" csg; 3/4 hr-Broke circ @ 8722; 1/4 hr-Run 7" & tagged @ 9180.77; 3/4 hr-Rig up Sch/Dowell cementers. Note: Forklift charges of \$423.00 should be billed back to Patterson Drlg. Set out drill pipe & drill collars from location for inspection. 1/4 hr-Circ/rig pump; 1 3/4 hrs-Cement/Sch/Dowell (1st stage), circ psi 1900#, bumped bottom plug at 1 AM 9-18-97, at 2400# psi. Float held OK. Good circ thru job; 1/2 hr-Drop falling cone to DV Tool; 4 1/2 hrs-Open DV tool with 658 psi-circ/Sch/Dowell-pumped 53 brls of excess cement to surface. 170 sxs to surface. Switched over to rig pump at 2 AM 9-18-97 & circ from DV Tool at 40 SPM & 185 GPM.

DMC-\$ 0 TMC-\$ 9,300 TDC-\$ 134,119 CWC-\$ 585,220 CMIC- KJ

09/19/97

Days- 30; Depth- 9171; FTG- 0; TESTING BOPS TO 5000#; wolfcamp 70% shale 30% lime; Liner- 5 1/2; Stroke- 16; 1 1/4 hrs-Circ DV Tool/rig pump; 1 1/4 hrs-Pump 2nd stage cement job/Sch/Dowell from DV Tool @ 3994.44 dropped closing plug & displaced with 157 brls H2O. Landed top closing plug at 8:30 AM 9-18-97. Circ psi 1725#, landed plug 2800#. Float held OK. Good circ thru job. 67 brls of cement to surface. 223 sxs. 1/2 hr-Rig down Sch/Dowell; 1 1/2 hrs-Nipple down BOP & turn rotating head; 1/2 hr-Set slips on 7" csg, str wt 210K, set 150K on slips; 1/2 hr-Rough cut 7" csg; 1/2 hr-Finish nipple down & set out BOP; 1 1/2 hr-Nipple up CIW N 11" 5000 x 7 1/16" 5000 w/2 2 1/16" 5000 SSO 5000 WP tubing head & test to 2000#; 11 hrs-Nipple up 7 1/16 5000# rental BOP/annular, pipe & blind rams. Nipple up new 5000# choke manifold from Patterson Drlg. Rig up separator, degasser, centrifuge, & hydraulic choke. Unloaded 36 jts of 4 3/4 drill collars XO connections. 3 1/2 IF 15.50 drill pipe, kelly, & all handing tools & subs form Patterson Drlg; 1 hr-Pick up 3 1/2 Square Kelly & make up; 4 1/2 hrs-Test BOPs, choke manifold, & Kelly to 5000#.

DMC-\$ 0 TMC-\$ 0 TDC-\$ 38517 CWC-\$ 623,737 CMIC- KJ