

HAPPY VALLEY '4' FED #22

12/02/97 Days- 104; TD- 11856; PBTD- 11813;RIH W/UNI-6 PKR & TBG;Lower Morrow; Perfs- 11770'-11772' & 11774'-11776' 4' w/19 holes.; Csg- 4 1/2 13.5# 8933'-11856; Tbg- 2 3/8"; BOPD- 0; MCF/D- 0; BWPD- 0;Open up well w/20 psi, RU swab, IFL @ 9300', ND tree, NU BOP, RU I&W pump 38 bbls 2% KCL to load tbg, unset pkr, POOH w/364 jts 2 3/8" tbg, 1-2 3/8" x 6' sub, Uni-6 pkr, 1-2 3/8" x 6' sub, nipple 1-2 3/8" x 2' sub, perf gun release, 2 jts of 2 3/8" tbg, perf gun firing head, perf gun. RIH w/2' x 2 3/8" sub, nipple, 1-6' 2 3/8" sub, Uni-6 pkr, 364 jts 2 3/8" tbg. Set pkr @ 11410' w/15 pts close in well, SDON.

DWC-\$ 3,392 CWC-\$ 1,342,612 CMIC- CD

12/03/97 Days- 105; TD- 11856; PBTD- 11813;FLOWING WELL BACK;Lower Morrow; Perfs- 11770'-11772' & 11774'-11776' 4' w/19 holes.; Csg- 4 1/2 13.5# 8933'-11856; Tbg- 2 3/8"; BOPD- 0; MCF/D- 0; BWPD- 0;Unlatch on & off tool, RU I&W pump truck to csg, circulate 130 bbls pkr fluid, latch on pkr. ND BOP, NU tree. Pressure csg to 1500 psi for 20 mins test OK. RU to swab, swab well down to 11400' RU tree saver, RU BJ Services, test lines 8000#, acid well as follows: 3 bbls of 7 1/2% w/corrosion inhibitor, iron control, clay stabilizer, and 492 gals methonal solvent. Flush w/2000 SCF N2, 45 bbls 7 1/2 acid w/scf N2, top off w/3 bbls 2 % KCL water. ISIP 5060#, 5 min 4973, 10 min 4900, 15 min 4813, avg rate 3.8 bbls per min, max 6445#, avg 5180#. Shut in for 1 hour. Backflow well to pit on 8/64 chk @ 4500# pressure drop 3500# in 17 min open up to 10/64 chk. Pressure drop to zero. Left well open to pit overnight.

DWC-\$ 15,717 CWC-\$ 1,358,329 CMIC- CD

12/04/97 Days- 106; TD- 11856; PBTD- 11813;FLOWING WELL BACK;Lower Morrow; Perfs- 11770'-11772' & 11774'-11776' 4' w/19 holes.; Csg- 4 1/2 13.5# 8933'-11856; Tbg- 2 3/8"; BOPD- 0; MCF/D- 0; BWPD- 0;FTP-275 psi on 10/64" choke, flow well back to pit, flow well back for 10 hrs, pressure range from 275 to max 410# 5:00 PM pressure was 320# burning a 8' to 10' flair. Well was slugging water.

DWC-\$ 1,485 CWC-\$ 1,359,814 CMIC- CD

12/05/97 Days- 107; TD- 11856; PBTD- 11813;FLOW WELL TO PIT;Lower Morrow; Perfs- 11770'-11772' & 11774'-11776' 4' w/19 holes.; Csg- 4 1/2 13.5# 8933'-11856; Tbg- 2 3/8"; BOPD- 0; MCF/D- 0; BWPD- 0;Pressure was 340# 10/64" choke (7:00AM), 7:30 AM 320# open well to a 12/64" choke, max. Max pressure 340#, min 220# @ 4:00 PM sluges small amount of water. Left well open to pit. SDON.

DWC-\$ 1,025 CWC-\$ 1,360,839 CMIC- CD