

DRILL STEM TEST REPORT

COMPANY & LEASE PERRY R. BASS; (Big Eddy Unit); WELL NO. 40; TEST NO. 3
 FIELD Wildcat; COUNTY Eddy; STATE New Mexico
 NAME OF SECTION TESTED Strawn; TESTED FROM 11,428 TO 11,781'
 DATE 5-7&8-74; REASON FOR TEST _____
 SERVICE COMPANY Johnston; TYPE PACKER Bobtail
 SIZE TUBING OR DRILL PIPE 4½"; CHOKE SIZE, BOTTOM 5/8" SURFACE 1"
 WATER CUSHION _____ FT.; TIME TOOL OPEN 10:32 am pm; (CDT)
 LENGTH OF TIME TOOL OPEN 1 hours, 5 minutes; PRE-FLOW TIME 5 min.
 REMARKS: Tool opened with weak blow air; strong blow air in 2 min.; Very strong blow air
in 3 min.; Closed tool in 5 min.; Turned to pit on 1" choke to flow down blow on drill pipe;
Took 1 hr. initial shut in; Tool opened second time with very strong blow air; Turned to
pit on 1" choke in 1 min.; Gas to surface in 20 min. TSTM; Max. flwg. surface press. 6 in
water press. and min. flwg. surface press. 3" wtr press.; Closed tool in 60 min.; Filled hole
10 times in 1 hr. period; Pkr. seat did not fail, acted as if fluid going through
fractures in formation; Used 55 bbls. mud to fill hole; Took 2 hr. final shut in press.;
Hole stayed full during shut in periods; Pulled pkrs. free at 2:38 a.m. (CDT); Pulled 63'
and dropped bar to open circ. sub; reversed out 5,480' gas and 5,758' drlg. mud; Used
80 bbls. mud to fill hole then reversed 20 bbls. mud over fill up vol.; Circ. until 4:45 a.m.;
Pulled out of hole; Recovered 90' drlg. mud below circ. sub; Recovered in sample chamber:
800 psig, 0.36 cf. gas and 2,400 cc. drilling mud; J. C. at 12:35 p.m.; Chlorides:
pit mud 137,000 ppm; res 0.05 at 73°F; sample chamber 120,000 ppm, res 0.05 at 76°F.
 BHT 181° F.

TIME ELAPSED TO REACH SURFACE: GAS 20 min, WATER _____ min, OIL _____ min,
 MUD _____ min.

FLOWING SURFACE PRESSURES: INITIAL 6" wtr press, FINAL 3" wtr press.

FLOWING BOTTOM HOLE PRESSURES: INITIAL 350 psi, FINAL 2,810 psi

1 hour INITIAL SHUT IN BOTTOM HOLE PRESSURE 6,086 psi

2 hour FINAL SHUT IN BOTTOM HOLE PRESSURE 6,124 psi

FLUID COLUMN PRESSURE (Bomb readings): IN 6,086 psi, OUT 6,136 psi

CALCULATED FLUID COLUMN PRESSURE 6,053 psi; FLUID WEIGHT 9.9 #/gal.

DID PACKER HOLD? yes; DID BOTTOM CHOKE PLUG? no;

DID FLUID DROP IN ANNULUS? yes; IS TEST CONCLUSIVE? no

REPORTED BY: Grover L. Worley

Trace chart below. Show pressure scale, increasing vertically. Show time horizontally. Define opening and closing of tool, and build-up formation pressure.

