

DRILL STEM TEST REPORT

COMPANY & LEASE Perry R. Bass; Big Eddy Unit; WELL NO. 40; TEST NO. 5
FIELD Wildcat; COUNTY Eddy; STATE New Mexico
NAME OF SECTION TESTED Morrow; TESTED FROM 12,834 TO 13,314' (log TD)
DATE 5-31-74; REASON FOR TEST _____
SERVICE COMPANY Halliburton; TYPE PACKER Expanding Shoe
SIZE TUBING OR DRILL PIPE 4½" XH; CHOKE SIZE, BOTTOM ¾" SURFACE ½" & 1"
WATER CUSHION _____ FT.; TIME TOOL OPEN 6:51 am ~~pm~~; CDT
LENGTH OF TIME TOOL OPEN 4 hours, 10 minutes; PRE-FLOW TIME 10 min.
REMARKS: Tool opened with very weak blow of air; Weak blow air in 2 minutes; strong blow
air in 3 minutes; 10 psig in 7 minutes; 20 psig in 8 minutes; 30 psig in 9 minutes; 40 psig
in 10 minutes; Closed tool in 10 minutes; 50 psig in 11 minutes; 55 psig in 12 minutes;
Turn to pit in 12 minutes on 1" choke, gas to surface in 15 minutes; FSP 35 psig; took 1 hour
initial shut in; drill pipe bled to zero during shut in; tool opened second time at 8:04 AM
with weak blow gas; 40 psig in 2 minutes; turned to pit on 1/2" choke; 70 psig in 4 minutes;
80 psig in 6 minutes; 90 psig in 11 minutes, est. flow rate 657 Mcf/D

95	"	16	"	"	689	"
100	"	24	"	"	720	"
90	"	51	"	"	657	"
80	"	76	"	"	595	"
75	"	96	"	"	563	"
70	"	156	"	"	532	"
70	"	240	"	"	532	"

Closed tool at 12:04 PM and took 8 hour final shut in; circulated out 25 barrels gas cut
mud; sample ch.

TIME ELAPSED TO REACH SURFACE: GAS 15 min, WATER _____ min, OIL _____ min,
MUD _____ min.

FLOWING SURFACE PRESSURES: INITIAL 10 psi, FINAL 70 psi

FLOWING BOTTOM HOLE PRESSURES: INITIAL 585 psi, FINAL 782 psi

1 hour INITIAL SHUT IN BOTTOM HOLE PRESSURE 5183 psi

8 hour FINAL SHUT IN BOTTOM HOLE PRESSURE 5291 psi

FLUID COLUMN PRESSURE (Bomb readings): IN 7169 psi, OUT 7139 psi

CALCULATED FLUID COLUMN PRESSURE 7118 psi; FLUID WEIGHT 10.3 #/gal.

DID PACKER HOLD? Yes; DID BOTTOM CHOKE PLUG? No;

DID FLUID DROP IN ANNULUS? No; IS TEST CONCLUSIVE? Yes

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.

Note: Charts not available.