

## DRILL STEM TEST REPORT

PERRY R. BASS

COMPANY & LEASE BIG EDDY UNIT ; WELL NO. 4-1 ; TEST NO. 2  
FIELD Wildcat ; COUNTY Eddy ; STATE New Mexico  
NAME OF SECTION TESTED Atoka ; TESTED FROM 11,280 TO 11,431  
DATE 9-25-74 ; REASON FOR TEST Drilling Break  
SERVICE COMPANY Halliburton ; TYPE PACKER Expanding Shoe  
SIZE TUBING OR DRILL PIPE 4 1/2" XH ; CHOKE SIZE, BOTTOM 3/4" SURFACE 1/2"  
WATER CUSHION 2004 FT. ; TIME TOOL OPEN 7:24 am  
LENGTH OF TIME TOOL OPEN 5 hours,        minutes ; PRE-FLOW TIME 60 min.  
REMARKS: Tool opened with very weak blow of air; very strong blow of air in 1 minute;  
Turned to pit on 1/2" choke in 4 minutes; Water blanket in 14 minutes. FSP 75 psig; Gas  
in 18 minutes, FSP 150; Drilling Mud in 21 minutes, FSP 200; Condensate in 56 minutes,  
FSP 325; Closed tool in 60 minutes, FSP 325. Took 2 hour shut in; Pressure gauge plugged;  
FSP 500, est. rate 3300 Mcf/D; Tool opened 2nd time with weak blow of gas; FSP 200 in  
5 minutes; FSP 580 in 10 minutes; FSP 750 in 15 minutes; Turned through separator in  
36 minutes; At end of 1 hour flow est. rate 4000 Mcf/D. 20/64" Choke FSP 1850; Took 2 hour  
shut in; Flowed 3 hours, est. rate 4600 Mcf/D, 16/64" Choke FSP 2425 psig; Took 5 hour  
final shut in. BHT 170°F.

TIME ELAPSED TO REACH SURFACE: GAS 18 min, WATER        min, OIL        min,  
MUD 21 min.

FLOWING SURFACE PRESSURES: INITIAL 0 psi, FINAL 2425 psi

FLOWING BOTTOM HOLE PRESSURES: INITIAL 1541 psi, FINAL 3509 psi

1 hour INITIAL SHUT IN BOTTOM HOLE PRESSURE 5777 psi

5 hour FINAL SHUT IN BOTTOM HOLE PRESSURE 5777 psi

FLUID COLUMN PRESSURE (Bomb readings): IN 6812 psi, OUT 6832 psi

CALCULATED FLUID COLUMN PRESSURE 6764 psi; FLUID WEIGHT 11.4 #/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.

Chart Not Available.