

# PERRY R. BASS, INC.

## DRILL STEM TEST REPORT

COMPANY & LEASE Perry R. Bass, Inc. Big Eddy Unit ; WELL NO. 39 ; TEST NO. 2  
 FIELD Wildcat ; COUNTY Eddy ; STATE New Mexico  
 NAME OF SECTION TESTED Morrow ; TESTED FROM 11,740 TO 11,872  
 DATE 11-8-73 ; REASON FOR TEST \_\_\_\_\_  
 SERVICE COMPANY Johnston ; TYPE PACKER Bobtail  
 SIZE TUBING OR DRILL PIPE 4 1/2" ; CHOKE SIZE, BOTTOM 5/8" SURFACE 1/2"  
 WATER CUSHION 1,757 FT. ; TIME TOOL OPEN 5:51 am ~~PM~~ ;  
 LENGTH OF TIME TOOL OPEN 5 hours, 6 minutes ; PRE-FLOW TIME 5 min.  
 REMARKS: Tool opened with weak blow air, strong blow in 1/2 min., very strong blow air in 1 min.,  
Closed in drill pipe press. 10 psig in 3 min. 20 psig in 4 min., 100 psig in 5 min. Closed tool  
@ 5:56 AM; Took 1 hr. ISIP, turned to pit in 6 min. (Closed in Press. 130 psig) on 1/2" ch. water  
blanket to surface in 9 min. FSP 200 psig; Gas in 12 min. FSP 340 psig; Closed pit line 6 min. pres  
340 to 460 psig; press. blowed down to 50 psig while taking ISIP; Opened tool 2 nd time @ 6:56 AM;  
Flowing surface press; 50 psig @ 6:56 AM: 80 @ 6:59 200 @ 7:00 280 @ 7:01 400 @ 7:02, 520 @ 7:03,  
730 @ 7:05, 820 @ 7:07, 1,300 @ 7:10, 1,800 @ 7:19, 1,875 @ 7:23, 2,000 @ 7:29, & 2,000 psig @ 7:40-  
AM; Through separator @ 8:03 AM; 8:03 to 8:33 AM 18/64" ch. 6,300 MCF PD. FSP 3,450, 8:33 to 9:03  
AM; 20/64" ch. 7,330 MCF PD, FSP 3,250; 9:03 to 9:33 AM 24/64" ch. 9,060 MCF PD, FSP 2,900,  
Closed tool @ 9:33 AM & Opened pit line & sep. to flow down drill pipe; Flowed 35 bbls. fluid in  
3 hrs. ( some condensate on top of fluid in tank ) Very little fluid produced after clean up period  
FSP 2,000 while attempting to flow down, est. rate 13,500 MCFPD; Cycled tool @ 11:57 AM and found  
tool still open; Closed at this time; Tool open 5 hrs. 1 min; Took 2 hr. FSP: Flowed down drill pip  
Pulled pkrs. @ 1:57 PM; Pulled OOH; Lost about 1/4 btm. pkr. rubber in hole; Recovered about 5' Water  
immediatley above tool( chlorides 118,000 ppm, res. 0.14 @ 75° F ); Sample chamber contained  
2,400 psig, 16.6 cu. ft. gas, & no water or condensate; OOH @ 6:35 PM (MST); Pit mud chlorides  
106,000 ppm, res. 0.22 @ 54° F; BHT 195° F.

TIME ELAPSED TO REACH SURFACE: GAS 12 min, WATER 9 min, OIL \_\_\_\_\_ min,  
 MUD \_\_\_\_\_ min.

FLOWING SURFACE PRESSURES: INITIAL 10 psi, FINAL 2,000 psi

FLOWING BOTTOM HOLE PRESSURES: INITIAL 2,032 psi, FINAL 3,224 psi.

1 hour INITIAL SHUT IN BOTTOM HOLE PRESSURE 5,170 psi

2 hour FINAL SHUT IN BOTTOM HOLE PRESSURE 5,107 psi

FLUID COLUMN PRESSURE (Bomb readings): IN 6,641 psi, OUT 6,641 psi

CALCULATED FLUID COLUMN PRESSURE 6,531 psi; FLUID WEIGHT 10.6 #/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.

