

DRILL STEM TEST REPORT

PERRY R. BASS

COMPANY & LEASE POKER LAKE UNIT ; WELL NO. 42 ; TEST NO. 5
FIELD Wildcat ; COUNTY Eddy ; STATE New Mexico
NAME OF SECTION TESTED Morrow ; TESTED FROM 14,840 TO 15,350
DATE 8/16-17/74 ; REASON FOR TEST _____
SERVICE COMPANY Johnston ; TYPE PACKER Bobtail
SIZE TUBING OR DRILL PIPE 5" & 3½" ; CHOKE SIZE, BOTTOM 5/8" SURFACE 1" & 5/8"
WATER CUSHION 7000 FT. ; TIME TOOL OPEN 6:21 am ~~pm~~ (CDT)
LENGTH OF TIME TOOL OPEN 8 hours, 40 minutes ; PRE-FLOW TIME 10 min.
REMARKS: Tool opened 1st time dead and remained; Closed tool in 10 minutes; Took 1 hour
initial shut in pressure; Tool opened 2nd time dead & remained; Closed tool in 30 mins; Took
2 hr. shut in; Tool opened 3rd time dead and remained; Closed tool in 30 mins; Took 1-1/2 hr.
shut in; Gas broke through water blanket-had 135 psig on surface at end of closed in period;
Note: Failed to open master valve in manifold to rubber hose reason for flow dead; Opened to
pit on 1" choke and pulled pressure down to 80 psig; Closed in surface; Tool opened 4th time
at 12:07 pm (CDT) with 110 psig on surface; (see attached sheet for recorded data). Closed
tool at 7:37 pm (CDT); Took 8 hr. 4th and final shut in; Pulled packers free at 3:30 AM;
Pulled 500', circulating sub at 14,214'. Dropped bar at 4:18 AM, 2nd bar at 4:47 AM; 3rd bar
at 5:32 AM; Unable to open circulating sub (have had trouble in past with cement about 1/8"
thick falling off inside drill pipe and lodging on top of bit, see sample). Rigged up Kelly
and filled drill pipe with mud and pressured to 3000 psig; Unable to pump out pump-out-plug;
Released pressure and rigged up to pull wet string at 7:15 AM.

TIME ELAPSED TO REACH SURFACE: GAS 340 min, WATER _____ min, OIL _____ min,
MUD _____ min.

FLOWING SURFACE PRESSURES: INITIAL 0 psi, FINAL 470 psi

FLOWING BOTTOM HOLE PRESSURES: INITIAL 3578 psi, FINAL 1402 psi

1 hour INITIAL SHUT IN BOTTOM HOLE PRESSURE 8544 psi

8 hour FINAL SHUT IN BOTTOM HOLE PRESSURE 7372 psi

FLUID COLUMN PRESSURE (Bomb readings): IN 10,310 psi, OUT 10,169 psi

CALCULATED FLUID COLUMN PRESSURE 10,037 psi; FLUID WEIGHT **RECEIVED**

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

DID FLUID DROP IN ANNULUS? No ; IS TEST CONCLUSIVE? Yes **AUG 23 1974**

REPORTED BY: Grover L. Worley

NOTE: See Attached sheet for breakdown of pressures.

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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.