

## PRESSURE TEST FOR GAS WELLS

Pool Undesignated Location Mesa Verde County San Juan  
Initial X Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test 5-16-61  
Company PUBCO PETROLEUM CORPORATION Lease Federal Well No. 6-B MV  
Unit B Sec. 6 Twp. 29N Rge. 11W Purchaser El Paso Natural Gas Company  
Casing 5½ Wt. 15½ Lbs. 4.950 Set at 6682 Perf. 3694 To 3709  
Tubing None Wt. \_\_\_\_\_ Lbs. \_\_\_\_\_ Set at \_\_\_\_\_ Perf. \_\_\_\_\_ To \_\_\_\_\_  
Gas Pay: From 3694 To 3709 L 3694 xG 0.650 -GL 2401 Bar. Press. \_\_\_\_\_  
Producing Thru: Casing X Tubing \_\_\_\_\_ Type Well G.G. Dual  
Single-Bradenhead-G. G. or G.O. Dual  
Date of Completion: 5-8-61 Packer Yes Reservoir Temp. \_\_\_\_\_

## OBSERVED DATA

Tested Through XXXXXX XXXXXX Type Taps \_\_\_\_\_

No.	Flow Data				Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psia	Diff. $h_w$ Ft.	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.
SI	2"	0.750						1400	80°
1.								623	2 hours
2.									
3.									
4.									
5.									

## FLOW CALCULATIONS

No.	Coefficient (24-Hour)	Pressure! psia	Flow Temp. Factor $F_t$	Gravity Factor $F_g$	Compress. Factor $F_{pv}$	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.365	635	0.9813	0.9608	1.025	7588
2.						
3.						
4.						
5.						

## PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.  
Gravity of Liquid Hydrocarbon \_\_\_\_\_ det.  
 $P_c$  \_\_\_\_\_ ( $10^6$  psi)  
Specific Gravity Separator Gas \_\_\_\_\_  
Specific Gravity Flowing Fluid \_\_\_\_\_  
 $P_c$  1384  $P_c^2$  1,915,456

No.	$P_w$ $P_t$ (psia)	$P_c^2 - P_w^2$	$(F_g Q)^2$ ( $10^{-6}$ s)	$P_w^2$	$P_c^2 - P_w^2$	Cal. $P_w$	$\frac{P_w}{P_c}$
1.	656			429,756	1,485,700		
2.							
3.							
4.							
5.							

Absolute Potential: \_\_\_\_\_ MCFPD; n 0.75  
COMPANY PUBCO PETROLEUM CORPORATION  
ADDRESS 108 West Chuuka, Aztec, New Mexico  
AGENT and TITLE B. H. Waychoff, Jr., Dist. Engr. *B. H. Waychoff, Jr.*  
WITNESSED Dan Jamieson  
COMPANY Pubco Petroleum Corp.

REMARKS

$$= 7588 \frac{(1,915,456)^{.75}}{(1,485,700)} = 7588 (1.28926)^{.75} = 1.2099 (7588) = 9181$$

RECEIVED  
MAY 18 1961

## INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

## NOMENCLATURE

- $Q$  = Actual rate of flow at end of flow period at W. H. working pressure ( $P_w$ ).  
MCF/da. @ 15.025 psia and 60° F.
- $P_c$  = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.  
psia
- $P_w$  = Static wellhead working pressure as determined at the end of flow period.  
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- $P_t$  = Flowing wellhead pressure (tubing if flowing through tubing, casing if  
flowing through casing.) psia
- $P_f$  = Meter pressure, psia.
- $h_w$  = Differential meter pressure, inches water.
- $F_g$  = Gravity correction factor.
- $F_t$  = Flowing temperature correction factor.
- $F_{pv}$  = Supercompressability factor.
- $n$  = Slope of back pressure curve.

Note: If  $P_w$  cannot be taken because of manner of completion or condition of well, then  $P_w$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_t$ .