

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool TAPACITO Formation PICTURED CLIFFS County BIG BANDA

Initial X Annual _____ Special _____ Date of Test NOV 7, 1962

Company NORTHWEST PRODUCTION CORP. Lease "H" Well No. 12-6

Unit D Sec. 6 Twp. 26N Rge. 4W Purchaser Not connected

Casing 5 Wt. 11.5 I.D. 4.500 Set at 4100 Perf. 3078 To 3058

Tubing 1-1/4 Wt. 2.3 I.D. 1.300 Set at 3000 Perf. 3076 To 3040

Gas Pay: From 3078 To 3058 L 3076 xG .650 ^{est.} -GL _____ Bar.Press. _____

Producing Thru: Casing _____ Tubing X Type Well Single

Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 10-25-62 Packer No Reservoir Temp. _____

OBSERVED DATA

Tested Through (~~Bottom~~) (Choke) (~~Minimum~~) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Minimum) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.						600		600		81
2.										
3.		3/4				233	50	498		3 hrs
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.							
2.							
3.	12,365		244	1.0000	0.9000	1.020	3,004
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 P_c _____ (1-e⁻⁵)
 Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 P_c **601** P_c² **401,761**

No.	$\frac{P_w}{P_t}$ (psia)	P _t ²	F _c Q	(F _c Q) ²	$\frac{(F_c Q)^2}{(1-e^{-5})}$	P _w ²	P _c ² -P _w ²	Cal. P _w	$\frac{P_w}{P_c}$
1.									
2.									
3.	507					257,049	398,712		2.2438
4.									
5.									

Absolute Potential: 5,970 MCFPD; n .85/1.9873

COMPANY NORTHWEST PRODUCTION CORPORATION

ADDRESS P. O. BOX 1796, EL PASO 49, TEXAS

AGENT and TITLE C. E. VERNER, WELL TESTER

WITNESSED _____

COMPANY _____

REMARKS



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} = Supercompressibility 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 .