

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Lindcat Formation Pictured Cliffs County Rio Arriba
Initial XX Annual _____ Special _____ Date of Test 10-8-56
Company Northwest Production Corp. Lease "8" Well No. 11-11
Unit A Sec. 11 Twp. 24N Rge. 4W Purchaser Not connected.
Casing 7" Wt. _____ I.D. _____ Set at 3,233 Perf. _____ To _____
Tubing 2" Wt. _____ I.D. _____ Set at 3,025 Perf. _____ To _____
Gas Pay: From 2,894 To 3,030 L _____ Est. xG .700 -GL _____ Bar.Press. 12.0
Producing Thru: Casing _____ Tubing XX Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 9-8-56 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Backflow) (Choke) (Venturi) Type Taps _____

No.	Flow Data				Tubing Data		Casing Data		Duration of Flow Hr.
	Pressure Size	(Choke) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.
SI									
1.	2"	3/4	367		69	998 367	69	998 628	Shut-in. 3 hrs.
2.									
3.									
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.	14.1605		379	.9915	.9258	1.044	5143
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1010 P_c 1020.1

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.	610					409.6	610.5		1.671
2.									
3.									
4.									
5.									

Absolute Potential: 7956 MCFPD; n₈₅ = 1.547

COMPANY Pacific Northwest Pipeline Corp.
ADDRESS 405 1/2 West Broadway, Farmington, New Mexico
AGENT and TITLE W. B. Richardson, III; Well Test Engineer
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 .

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