

3-N.M.O.C.C. Artec
1-L. G. Truby
1-W. R. Johnston
1-File

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Blanco Formation Mesa Verde County Rio Arriba
Initial X Annual Special Date of Test 5/23/57
Company Pacific Northwest Pipeline Corp Lease San Juan 30-5 Well No. 5-30
Unit A Sec. 30 Twp 30N Rge. 5W Purchaser Unconnected
Casing 7" Wt. I.D. Set at 5603 Perf. 5102 To 5614
Tubing 1 1/4 Wt. I.D. Set at 5603 Perf. To
Gas Pay: From To L x Gest. .65 -GL Bar. Press.
Producing Thru: Casing X Tubing Type Well
Date of Completion: Packer Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp.

OBSERVED DATA

Tested Through 4-2-56 (Choke) 4-2-56 8 1 7 Days Type Taps

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Pressure) (Orifice) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1097		1110		Shut In
1.		3/4" B M	25		56	25				3 Hrs.
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	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		37	1.0039	.9608	1.004	507
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

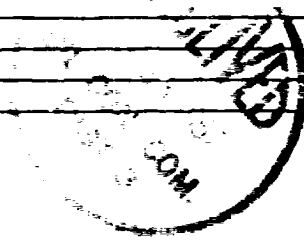
Gas Liquid Hydrocarbon Ratio cf/bbl.
Gravity of Liquid Hydrocarbons deg.
F_c (1-e^{-s})
Specific Gravity Separator Gas
Specific Gravity Flowing Fluid
P_c 1110 P_c 1259

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.	37					1.37	1258		1.0
2.									
3.									
4.									
5.									

Absolute Potential: 507 MCFPD; n .75/1.0

COMPANY
ADDRESS
AGENT and TITLE D. C. Adams
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} = 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 .

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