

M.O.C.C.-Aztec
El Paso Natural Gas
G. G. Truby
1-W. R. Johnston
1-File

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Formation Mesaverde County Rio Arriba
Initial x Annual _____ Special _____ Date of Test 2-26-57
Company Pacific Northwest Pipeline Lease 29-7 Well No. 56-15
Unit A Sec. 15 Twp. 29N Rge. 7W Purchaser Pacific Northwest Pipeline Corp.
Casing 5 1/2 Wt. _____ I.D. _____ Set at 5412 Perf. 5052 To 5372
Tubing 2 Wt. _____ I.D. _____ Set at 5266 Perf. _____ To _____
Gas Pay: From 5052 To 5372 L _____ xG .650 -GL _____ Bar.Press. 12
Producing Thru: Casing _____ Tubing xx Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: _____ Packer no Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (xxmeter) Type Taps _____

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI										
1.		3/4	340		71	340	71	855		3
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		352	.9896	.9608	1.033	4896
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 1115 P_c² 1243.2

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	<u>867</u> P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.						751.7	421.5		2.53
2.									
3.									
4.									
5.									

Absolute Potential: 9831 MCFPD; n .75 = 2.008 = Slide Rule
COMPANY Pacific Northwest Pipeline Corporation
ADDRESS 405 1/2 West Broadway, Farmington, New Mexico
AGENT and TITLE C. R. Wagner - Well Test Engineer
WITNESSED R. A. Ullrich - Engineer
COMPANY El Paso Natural Gas 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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