

3-MBCC Astec
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 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 Mesa Verde County Rio Arriba
 Initial X Annual _____ Special _____ Date of Test 8-28-57
 Company Pacific Northwest Pipeline Lease San Juan 29-6 Well No. 49-35
 Unit X Sec. 35 Twp. 23N Rge. 6W Purchaser Not connected
 Casing 5-1/2" Wt. _____ I.D. _____ Set at 5651' Perf. 5070' To 5634'
 Tubing 1-1/8" Wt. _____ I.D. _____ Set at 5609' Perf. _____ To _____
 Gas Pay: From 5 To _____ L _____ xG .650 -GL _____ Bar.Press. _____
 Producing Thru: Casing X Tubing _____ Type Well Single
 _____ Single-Bradenhead-G. G. or G.O. Dual
 Date of Completion: _____ Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (~~Prover~~) (Choke) (~~Water~~) Shut in 7 days Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1108		1110		
1.		3/4"	256		65°	341	65°	296		3 hours
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		268	.9952	.9608	1.025	3719
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

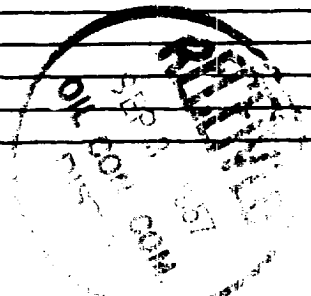
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 F_c _____ (1-e^{-s})
 Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 P_c 1122 P_c 1258.9

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 ³⁵³	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.						124.6	1134.3		1.11
2.									
3.									
4.									
5.									

Absolute Potential: 4,022 MCFPD; n .75/1.0214

COMPANY Pacific Northwest Pipeline Corporation
 ADDRESS 405 West Broadway, Farmington, New Mexico
 AGENT and TITLE C. R. Wagner - 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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