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1 - Galloway - E.P.N.G. -Farm.
1 - File

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122
Revised 12-1-55

Pool Blanco Formation Mesa Verde County Rio Arriba
Initial XX Annual _____ Special _____ Date of Test 8-12-59
Company Pacific Northwest Pipeline Lease 28-5 Well No. 34-18
Unit M Sec. 18 Twp. 28N Rge. 5W Purchaser El Paso Nat. Gas Company
Casing 9 5/8" Wt. 36# I.D. _____ Set at 3503 Perf. 5152 To 5686
Tubing 1 1/2" Wt. 2.4 I.D. 1.38 Set at 5683 Perf. 5680 To 5683
Gas Pay: From 5152 To 5686 L _____ xG .650 -GL _____ Bar.Press. 12
Producing Thru: Casing XXX Tubing _____ Type Well Dual G.G.
Date of Completion: 7-27-59 Packer 7" Mod. H Reservoir Temp. 133° F
Baker 7325'

OBSERVED DATA

Tested Through (XXXXXX) (Choke) (XXXX) 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.		<u>3/4"</u>	<u>199</u>	<u>63"</u>	<u>63°</u>	<u>1094</u> <u>218</u>		<u>1088</u> <u>199</u>	<u>63°</u>	<u>3 Hours</u>
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.	<u>12.550</u>		<u>211</u>	<u>0.9771</u>	<u>.9608</u>	<u>1.020</u>	<u>2549</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c _____ (1-e^{-s})
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1106 P_c 1223.2

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	<u>230</u> P _w ²	P _c ² -P _w ²	Cal. P _w	P _c ² P _w ²
1.						<u>52900</u>	<u>1414000</u>		<u>1.05</u>
2.									
3.									
4.									
5.									

Absolute Potential: 2644 MCFPD; n .75/1.0372
COMPANY Pacific Northwest Pipeline Corporation
ADDRESS 4184 West Broadway - 7th Floor - Albuquerque, New Mexico
AGENT and TITLE C. R. Wagner - Well Test Engineer
WITNESSED Tom Grant - W. B. 1-143 - Fred Cook
COMPANY E.P.N.G. - Phillips P. - N.M.O.C.C.

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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