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1 - E.P.N.G. - Fowles
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1 - Cutler
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 6-29-59
Company Pacific Northwest Pipeline Lease San Juan 28-5 Well No. 33-17
Unit L Sec. 17 Twp. 28N Rge. 5W Purchaser Not Connected
Casing 9 5/8 Wt. 36 I.D. _____ Set at 3817 Perf. 5344 To 5900
Tubing 1 1/4 Wt. 2.4 I.D. 1.38 Set at 5807 Perf. 5804 To 5807
Gas Pay: From 5344 To 5900 L - xG .650 -GL _____ Bar.Press. 12
Producing Thru: Casing XXX Tubing _____ Type Well Dual - G.G.
Date of Completion: 6-9-59 Packer H @ 7545 Reservoir Temp. 135° F
Baker Mod. Single Brackets - G. G. 9000 Gals Per Day

OBSERVED DATA

Tested Through (Prover) (Choke) (XXX) 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						1086		1090		
1.		3/4	342		69°	375		342	69°	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.	12.3650		354	.9915	.9608	1.035	4316
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 1102 P_c 1214.4

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	387 P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.						149.8	1064.6		1.14
2.									
3.									
4.									
5.									

Absolute Potential: 4761 MCFPD; n .75/1.1032

COMPANY Pacific Northwest Pipeline Corporation
ADDRESS 4184 West Broadway - Farmington, New Mexico
AGENT and TITLE C. R. Wagner - Well Test Engineer
WITNESSED Fred Cook - W. B. Smith - S. V. Roberts
COMPANY N.M.O.C.C. - Phillips P. - E.P.N.G.

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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