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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 xx Annual _____ Special _____ Date of Test Feb. 12, 1957
Company Pacific Northwest Pipeline Lease 29-7 Well No. 54-14
Unit M Sec. 14 Twp. 29 Rge. 7W Purchaser Pacific Northwest Pipeline
Casing 5 Wt. _____ I.D. _____ Set at 5430 Perf. 4776 To 5326
Tubing 2 Wt. _____ I.D. _____ Set at 5289 Perf. _____ To _____
Gas Pay: From _____ To _____ L _____ xG .660 -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 xx) (Choke) (XXXX) 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						1107		1113		
1.		3/4	374		75	374	75	886		3
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		386	.9859	.9535	1.036	5323
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})

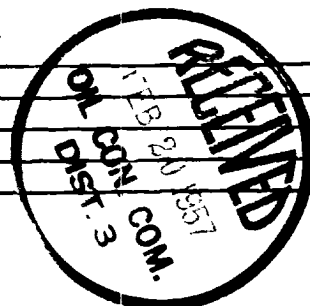
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1125 P_c 1265.63

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	$\frac{898}{P_w^2}$	P _c ² -P _w ²	Cal. P _w	$\frac{P_w}{P_c}$
1.						806.40	459.23		2.76
2.									
3.									
4.									
5.									

Absolute Potential: 11,381 MCFPD; n .75/2.138

COMPANY Pacific Northwest Pipeline Corporation
ADDRESS 4054 West Broadway, Farmington, New Mexico
AGENT and TITLE C. R. Wagner - Well Test Engineer
WITNESSED R. A. Ulrich
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 casing, 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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