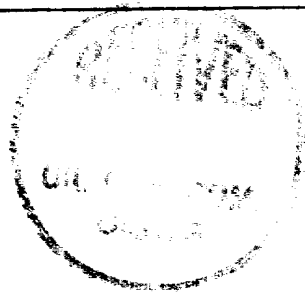


PACIFIC NORTHWEST PIPELINE CORPORATION
DRILLING DEPARTMENT

TESTED BY **C. R. Wagner**



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File - 1

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Mesaverde Formation Mesaverde County Rio Arriba
Initial Annual Special XX Date of Test 10-1-56
Company Northwest Production Corp. Lease "N" Well No. 7-8
Unit A Sec. 8 Twp. 26N Rge. 4W Purchaser Not Connected
Casing 7 20 5 Wt. 11.5 I.D. Set at 4120 3884 3916
5 11.5 6216 Perf. 5548 To 6168
Tubing 2-3/8 Wt. 4.7 I.D. Set at 6115 Perf. To
est.
Gas Pay: From 5548 To 6168 L 6115 xG .690 -GL 4219 Bar.Press. 12.0
Producing Thru: Casing Tubing X Type Well Dual - G-G
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 8-7-56 Packer 5493 Reservoir Temp.

OBSERVED DATA

Tested Through (~~Flowmeter~~) (Choke) (~~Valve~~) Type Taps

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Flowmeter) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1141		1070		81
1.										
2.										
3.	2	3/4	210		65	210	65			3 hrs
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.							
2.							
3.	12.3650		222	.9952	.9325	1.024	2,608
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl.
Gravity of Liquid Hydrocarbons deg.
F_c 9.936 (1-e^{-s}) .252
Specific Gravity Separator Gas
Specific Gravity Flowing Fluid
P_c 1153 P_c² 1329.4

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 ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.									
2.									
3.	222	49.3	25.9	670.8	169.04	218.3	1111.1	147.7	1.19647
4.									
5.									

Absolute Potential: 2,990 MCFPD; n .75/1.1465

COMPANY Northwest Production Corporation
ADDRESS 520 Sims Bldg., Albuquerque, N.M.
AGENT and TITLE C. R. Wagner, Well Test Engr.
WITNESSED
COMPANY



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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