

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Tapacito Pict. Cliffs Ext. Formation Pictured Cliffs County Rio Arriba
Initial X Annual _____ Special _____ Date of Test May 3, 1957
Company Northwest Production Corp. Lease "W" Well No. 6-7
Unit A Sec. 7 Twp. 26 N Rge. 4 W Purchaser Not connected
Casing 5 Wt. 11.5 I.D. _____ Set at 3924 Perf. 3810 To 3832
Tubing 2 3/8 Wt. 4.7 I.D. _____ Set at 3823 Perf. _____ To _____
Gas Pay: From 3810 To 3832 L _____ xG .650 -GL _____ Bar.Press. _____
Producing Thru: Casing _____ Tubing X Type Well Single -- Gas
Date of Completion: 4-27-57 Packer No Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. 51

OBSERVED DATA

Tested Through (Prover) (Choke) (3/4) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Choke) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1062		1062		SI
1.										
2.										
3.		3/4				347	51	715		3 hrs.
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w P_f}$	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.	14.1605		339	1.0088	.9608	1.041	5,129
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 1074 P_c² 1153

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.	727	528					625		1,845
4.									
5.									

Absolute Potential: 8,637 MCFPD; n .85/ 1.684

COMPANY Pacific Northwest Pipeline Corp.
ADDRESS 405 1/2 W. Broadway, Farmington, N.M.
AGENT and TITLE C. E. 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} = 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 .

DRILLING DEPARTMENT

COMPANY Northwest Production Corp.

LEASE "N" WELL NO. 6-7

DATE OF TEST May 3, 1957

SHUT IN PRESSURE (PSIG): TUBING 1062 CASING 1062 S. I. PERIOD 7 DAYS

SIZE BLOW NIPPLE 3/4" B.N. Choke

FLOW THROUGH Tubing WORKING PRESSURES FROM Casing

[illegible]

START AT 1:40 p.m.

END TEST AT 4:40 p.m.

REMARKS: Light fog of H₂O

TESTED BY C. R. Wagner

OIL CONSERVATION COMMISSION		
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