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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 X Annual _____ Special _____ Date of Test 8-2-57
 Company Northwest Production Corp. Lease "N" Well No. 10-7
 Unit L Sec. 7 Twp. 26N Rge. 4W Purchaser Not connected
 Casing 5 1/2 Wt. 14 & 15.5 I.D. _____ Set at 6240 Perf. 5502 To 6126
 Tubing 2-3/8 Wt. 4.7 I.D. _____ Set at 6002 Perf. _____ To _____
 Gas Pay: From 5502 To 6126 L _____ xG .650 -GL _____ Bar.Press. _____
 Producing Thru: Casing _____ Tubing X Type Well Single
 Date of Completion: 7-24-57 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps _____

No.	Flow Data			Tubing Data		Casing Data		Duration of Flow Hr.	
	(Prover) (Line) Size	(Choke) (Line) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.		Press. psig
1.						1020		1023	SI
2.		3/4				202	82	517	3 hrs
3.									
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.	12.3650		214	0.9795	0.9608	1.019	2538
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 1035 P_c² 1071.2

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.						279.8	791.4		1.3536
3.									
4.									
5.									

Absolute Potential: 3,282 MCFPD; n .85/1.2932
 COMPANY Pacific Northwest Pipeline Corporation
 ADDRESS 405 1/2 W. Broadway, Farmington, New Mexico
 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 .

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DRILLING DEPARTMENT

COMPANY Northwest Production Corp.

LEASE "N" WELL NO. 10-7

DATE OF TEST 8-2-57

SHUT IN PRESSURE (PSIG): TUBING 1020 CASING 1023 S. I. PERIOD 8 DAYS

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

FLOW THROUGH Tubing WORKING PRESSURES FROM Casing

TIME		CHOKER PRESSURE	Q (MCFD) 15.025 PSIA & 60°F	WELLHEAD WORKING PRESSURE (PSIG)	TEMP
HOURS	MINUTES				
	34.5	518		798	59
	41.5	594		772	62
	50	680		776	63
1	0	740	Freezing	782	64
	12	330	Change T-C Choke	649	65
	26.5	286		664	71
	44	264		610	75
2	5	238		574	77
	30	222		542	81
3	0	202		517	82

START AT: 10:30 AM END TEST AT 1:30 PM

REMARKS: Light fog of H₂O through out test

TESTED BY: C. R. Wagner

WITNESS: _____