NM OCC-3
Truby-1
Peppin-1
J.G.Maynard-1
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 Extn** Formation **Mesaverde** County **San Juan**

Initial **XX** Annual _____ Special _____ Date of Test **4-11-57**

Company **Northwest Production Corp.** Lease **Blanco 30-12** Well No. **1-4**

Unit **A** Sec. **4** Twp. **30N** Rge. **12W** Purchaser **Not connected**

Casing **5½** Wt. **14#** I.D. _____ Set at **4645** Perf. **4578** To **4630**

Tubing **2-3/8** Wt. **4.70#** I.D. **1.995** Set at **4602** Perf. _____ To _____

Gas Pay: From **4578** To **4778** L **4602** xG **.650** -GL **2991** Bar.Press. **12**

Producing Thru: Casing _____ Tubing **XX** Type Well **Dual - G-G**

Date of Completion: **4-3-57** Packer **Yes - 4500** Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp. _____

OBSERVED DATA

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

No.	Flow Data (Prover) (Line) Size	Flow Data (Choke) ~~(Orifice)~~ Size	Flow Data Press. psig	Flow Data Diff. h_w	Flow Data Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI						1001		622		8I
1.		3/4	42		70	42	70	624		3 hr
2.										
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.	14.1605		54	.9905	.9608	1.000	728
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c **9.402** $(1-e^{-s})$ **.195**

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c **1013** P_c^2 **1026.2**

No.	~~Pw~~ Pt (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	54	2912	6.84	46.8	9.13	12.05	1014.15	318	1.01
2.									
3.									
4.									
5.									

Absolute Potential: **733** MCFPD; n **.75/1.0074**

COMPANY **Pacific Northwest Pipeline Corp.**
ADDRESS **405½ W. Broadway, Farmington, New Mexico**
AGENT and TITLE **C. B. Wagner, Well Test Engineer**
WITNESSED _____
COMPANY _____

REMARKS

RECEIVED
APR 23 1957
OIL CON. COM.
DIST. 3

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.

OIL CONSERVATION COMMISSION
AZTEC DISTRICT OFFICE
No. Copies Received
DISTRIBUTION

	NO. FURNISHED	
Operator		
Santa Fe		
Proration Office		
[illegible]		
[illegible]		
File		

DRILLING DEPARTMENT

COMPANY Northwest Production Corp.

LEASE Blanco 30-12 WELL NO. 1-4

DATE OF TEST 4-11-57

SHUT IN PRESSURE (PSIG): TUBING MV 1001 CASING FR 622 S. I. PERIOD 7 DAYS

SIZE BLOW NIPPLE 3/4" Choke (Bureau of Mines)

FLOW THROUGH Tubing - Mesaverde WORKING PRESSURES FROM Fruitland

TIME HOURS	TIME MINUTES	PRESSURE	Q (MCFD) 15.025 PSIA & 60°F	WELLHEAD WORKING PRESSURE (PSIG)	TEMP
	30	118 MV		623 FR	
3	0	42		624	70
				2# Build Up	

START AT 9:55 am END TEST AT 12:55 pm

REMARKS: blowing sand with heavy fog of H_2O

TESTED BY C. R. Wagner

OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

No. Copies Received 3

DISTRIBUTION

[illegible]ator		
Santa Fe	1	
Proration Office		
State Land Office		
U. S. G. S.	1	
Transporter		
File	1	