NM OCC-3
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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** Formation **Mesaverde** County **Rio Arriba**

Initial **X** Annual _____ Special _____ Date of Test **6-3-57**

Company **Northwest Production Corp.** Lease **"M"** Well No. **8-8**

Unit **M** Sec. **8** Twp. **26N** Rge. **4W** Purchaser **Not connected**

Casing **5½** Wt. **15.5** I.D. _____ Set at _____ Perf. **5156** To **5770**

Tubing **2-3/8** Wt. **4.7** I.D. _____ Set at **7673** Perf. _____ To _____

Gas Pay: From **5156** To **5770** L **5156** xG **.650** -GL **3351** Bar.Press. _____

Producing Thru: Casing **X** Tubing _____ Type Well **Dual - Gas - Gas**

Date of Completion: **May 9, 1957** Packer **Yes - 7178.1** 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						**2356**		**1070**		**SI**
1.										
2.		**3/4**				**2362**		**150**	**62**	**3 hours**
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.							
3.	**14.1605**		**162**	**.9981**	**.9608**	**1.016**	**2235**
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl. Specific Gravity Separator Gas _____

Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____

F_c **.988** $(1-e^{-s})$ **.216** P_c **1082** P_c^2 **1171**

No.	P_w P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$(F_cQ)^2$ $(1-e^{-s})$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.									
2.									
3.	**162**	**26.2**	**2.2**	**4.8**	**1.0**	**27.2**	**1143.8**		**1.0238**
4.									
5.									

Absolute Potential: **2275** MCFPD; n **.75** **1.0178**

COMPANY **Pacific Northwest Pipeline Corp.**

ADDRESS **405½ W. Broadway, Farmington, New Mexico**

AGENT and TITLE **C. R. Wagner, Well Test Engineer**

WITNESSED ~~Fred Cook~~

COMPANY ~~N.M. Oil Conservation Commission~~

REMARKS

RECEIVED JUN 7 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.

DRILLING DEPARTMENT

COMPANY Northwest Production Corp.

LEASE "N" WELL NO. 8-8

DATE OF TEST 6-3-57

SHUT IN PRESSURE (PSIG): TUBING DK 2356 CASING MV 1070 S. I. PERIOD 7 DAYS

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

FLOW THROUGH Casing - MV WORKING PRESSURES FROM Tubing - DK

TIME HOURS	TIME MINUTES	CHOKE PRESSURE	Q (MCFD) 15.025 PSIA & 60°F	WELLHEAD WORKING PRESSURE (PSIG)	TEMP
	30	350		2359	60
1	0	240		2359	60
	30	194		2360	61
2	0	174		2361	61
	30	159		2361	62
3	0	150		2362	62

START AT: 11:20 am END TEST AT 2:20 pm

REMARKS: Dry

TESTED BY: C. R. Wager

WITNESS: ~~Frank Conley, NW OGC~~

OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

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