3 - N.M.O.C.C.
1 - Oliver Fowler - KPNG
1 - Amer. Petrofina
1 - W. G. Cutler
1 - KLPNG - Farm.
1 - File

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco - Mesa Verde Formation Mesa Verde County San Juan

Initial XX Annual _____ Special _____ Date of Test 7-1-59

Company Pacific Northwest Pipeline Corp. Lease 32-9 Well No. 71-33

Unit San Juan Sec. 33 Twp. 32N Rge. 9W Purchaser El Paso Natural Gas Company

Casing 5½ 7 5/8" Wt. 15.5 26.4 I.D. 5" 6.75" Set at 6000 5775 Perf. 5432 To 5994

Tubing 1½ Wt. 2.4 I.D. 1.38 Set at 5955 Perf. 5952 To 5955

Gas Pay: From 5432 To 5994 L _____ xG 0.650 -GL _____ Bar.Press. 12

Producing Thru: Casing XXX Tubing _____ Type Well Single
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 6-17-59 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through [redacted] (Choke) [redacted] 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						1077		1077		
1.		3/4	273		68°	277		273	68°	3
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.	12.3650		285	.9924	.9608	1.027	3451
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

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

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1089 P_c^2 1185.9

No.	P_w P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	289 P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.						83.5	1102.4		1.08
2.									
3.									
4.									
5.									

Absolute Potential: 3656 MCFPD; n .75/1.0594

COMPANY Pacific Northwest Pipeline Corporation
ADDRESS 418½ West Broadway - Farmington, New Mexico
AGENT and TITLE Well Test Engineer - C. B. Wagner
WITNESSED KPNG Gave O.K. to Test Without Witness
COMPANY _____

REMARKS

RECEIVED
AUG 3 1959
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.