3 - N.M.O.C.C.
1 - W. G. Cutler
1 - Fowler - E.P.N.G. -Farm.
1 - Galloway - E.P.N.G. - Farm.
1 - File

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Wildcat Formation Dakota County Rio Arriba

Initial XX Annual ____ Special ____ Date of Test 8-5-59

Company Pacific Northwest Pipeline Lease 28-5 Well No. 34-18

Unit M Sec. 18 Twp. 28N Rge. 5W Purchaser El Paso Nat. Gas Company

Casing 5" Wt. 15# I.D. 4.5 Set at 7981 Perf. 7708 To 7904
7868 TD

Tubing 2" EUE Wt. 4.7 I.D. 1995 Set at 7878 Perf. 7875 To 7878

Gas Pay: From 7708 To 7904 L ____ xG .650 -GL 5010 Bar.Press. 12

Producing Thru: Casing ____ Tubing Dak. Tub. Type Well Dual - G.G.
S[redacted]G. G. or [redacted]

Date of Completion: 7-27-59 Packer @ 7325 Reservoir Temp. ____

OBSERVED DATA

Tested Through [redacted] (Choke) [redacted] Type Taps ____

No.	Flow Data (Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI						2639		-		
1.		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	69°	-		3 Hrs.
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.[redacted]	[redacted]	[redacted]	.9915	.9608	1.0[redacted]	4817
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio ____ cf/bbl.
Gravity of Liquid Hydrocarbons ____ deg.
F_c 9.402 $(1-e^{-s})$ 0.305

Specific Gravity Separator Gas ____
Specific Gravity Flowing Fluid ____
P_c 2651 P_c^2 7027.801

No.	Pt (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	$\frac{P_c^2}{P_c^2-P_w^2}$
1.	3[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		1.125
2.									
3.									
4.									
5.									

Absolute Potential: 5279 MCFPD; n .75/1.0959
COMPANY Pacific Northwest Pipeline Corporation
ADDRESS 418[redacted] West Br[redacted] - Farmington, New Mexico
AGENT and TITLE G. R. Wagner - Well Test [redacted]ineer
WITNESSED G. R. Wagner - W. G. Smith - Tommy Smith - Frank M. Clark
COMPANY P.N.W. Phillips N.M.O.C.C. [redacted]

REMARKS

RECEIVED
AUG 19 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.