NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

NMOCC-3
Geo Peppin-1
L.G.Truby-1
File-1

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Wildcat Formation Mesaverde County Rio Arriba

Initial X Annual ____ Special ____ Date of Test 3-6-57

Company Northwest Production Corp Lease "E" Well No. 2-33

Unit H Sec. 33 Twp. 26N Rge. 3W Purchaser Not connected

Casing 5 Wt. 11.50 I.D. ____ Set at 6438 Perf. 5740 To 6356

Tubing 2-3/8 Wt. 4.7 I.D. ____ Set at 6248 Perf. ____ To ____

Gas Pay: From 5740 To 6356 L 6248 xG .650 -GL 4061 Bar.Press. ____

Producing Thru: Casing ____ Tubing X Type Well Dual - G-G
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 2-23-57 Packer Yes - 5702' 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						1203		961		SI
1.										
2.		3/4"				126	57	960		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.	14.1605		138	1.0029	.9608	1.014	1909
3.							
4.							
5.							

PRESSURE CALCULATIONS

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

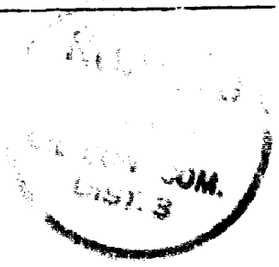
Specific Gravity Separator Gas ____
Specific Gravity Flowing Fluid ____
P_c 1215 P_c^2 1476

No.	P_w P_t (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.									
2.									
3.	138	19.0	17.95	322.2	82.5	101.5	1374		1.0742
4.									
5.									

Absolute Potential: 2014 MCFPD; n .75/1.0552

COMPANY Pacific Northwest Pipeline Corp.
ADDRESS 405½ West Broadway, Farmington, New Mexico
AGENT and TITLE C. E. Wagner
WITNESSED A. L. Kendrich
COMPANY New Mexico Oil Conservation Commission

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.

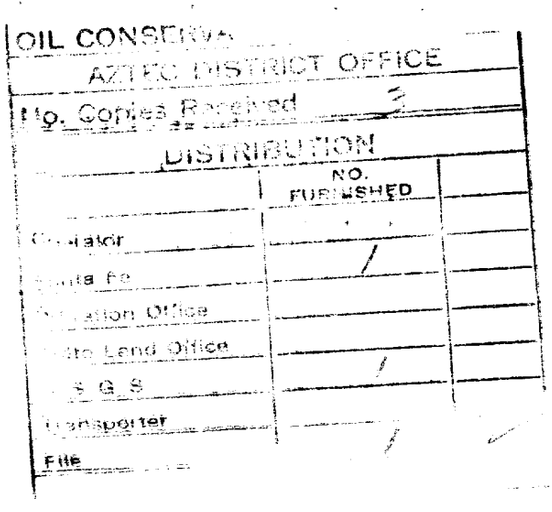
F_g = Gravity correction factor.

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.



PACIFIC NORTHWEST PIPELINE CORPORATION

DRILLING DEPARTMENT

Northwest Production Corporation

COMPANY ~~"g"~~ ~~2-33~~

LEASE ~~3-6-57~~ WELL NO. _____

MV 1203 PC 961 DATE OF TEST _____

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

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

FLOW THROUGH MV - Tubing PC-Casing WORKING PRESSURES FROM _____

TIME HOURS	TIME MINUTES	PRESSURE	Q (MCFD) 15.025 PSIA & 60°F	WELLHEAD WORKING PRESSURE (PSIG)	TEMP
	~~15~~	~~339~~		~~964~~	
	~~30~~	~~288~~		~~962~~	
	~~45~~	~~250~~		~~963~~	~~57~~
~~1~~	~~0~~	~~166~~		~~962~~	~~57~~
	~~30~~	~~161~~		~~960~~	~~57~~
~~2~~	~~0~~				
	~~30~~	~~138~~		~~959~~	~~57~~
~~3~~	~~0~~	~~126~~		~~960~~	~~57~~

START TEST AT ~~10:50 am~~ 5:30 PM END TEST AT ~~1:50 pm~~ 8:30 PM

REMARKS: _____

RECEIVED
MAR 18 1957
OIL CON. COM.
DIST.

TESTED BY C. R. Wagner