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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
 Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Wildcat Formation Pictured Cliffs County Rio Arriba
 Initial X Annual _____ Special _____ Date of Test Feb 14, 1957
 Company Northwest Production Corp. Lease S Well No. 4-2
 Unit A Sec. 2 Twp. 24N Rge. 4W Purchaser Pacific Northwest Pipeline
 Casing 4 1/2 Wt. 9.5 I.D. _____ Set at 3583 Perf. 3440 To 3520
 Tubing 1 1/2 Wt. 2.3 I.D. _____ Set at 3473 Perf. _____ To _____
 Gas Pay: From 3440 To 3520 L _____ xG. .650 -GL _____ Bar.Press. 12
 Producing Thru: Casing _____ Tubing IX Type Well Single
 Date of Completion: _____ Packer No Single-Bradenhead-G. G. or G.O. Dual
 Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) 1000000 (1000000) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						<u>993</u>		<u>993</u>		<u>SI</u>
1.		<u>3/4</u>	<u>48</u>		<u>56</u>	<u>48</u>	<u>56</u>	<u>445</u>		<u>2 hr.</u>
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.	<u>12.2023</u>		<u>60</u>	<u>1.0039</u>	<u>.9902</u>	<u>1.000</u>	<u>708</u>
2.							
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 1095 P_c 1010.0

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.							<u>208.8</u>	<u>801.2</u>	<u>1.28</u>
2.									
3.									
4.									
5.									

Absolute Potential: 859 MCFPD; n .85/1.2170
 COMPANY Pacific Northwest Pipeline Corporation
 ADDRESS 408 1/2 West Broadway, Farmington, New Mexico
 AGENT and TITLE C. R. Wagner, Well Test Engineer
 WITNESSED _____
 COMPANY _____

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 .

DRILLING DEPARTMENT

DATE OF TEST February 14, 1957

SIZE BLOW NIPPLE **3/4 Plate w/2" Prover**

FLOW THROUGH tubing WORKING PRESSURES FROM casing

[illegible]

START TEST AT 2:35 END TEST AT 3:35

REMARKS: Light fog of H₂O & Dist.

TESTED BY C. R. Wagner

OIL CONSERVATION COMMISSION		
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