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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 Blanco Formation Mesaverde County Rio Arriba

Initial xx Annual _____ Special _____ Date of Test 4/22/57

Company Pacific Northwest Pipeline Lease 27-5 Well No. 24-32

Unit J Sec. 32 Twp. 27N Rge. 5W Purchaser Inc.

Casing 5½ Wt. 14# I.D. _____ Set at 5630 Perf. 5502 To 5224

Tubing 2 3/8 Wt. 4.7 I.D. _____ Set at 5484 Perf. 5482 To 5484

Gas Pay: From _____ To _____ L 5482 xG .650 =GL 3563 Bar.Press. 12

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

Date of Completion: _____ Packer 4958 Reservoir Temp. _____

OBSERVED DATA

Tested Through ~~(Prover)~~ ~~(Choke)~~ ~~(Meter)~~ ~~xxxxxx~~ B.C 8 & 10 days 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						1115				
1.		3/4	140		55	140				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		152	1.0048	.9608	1.014	1840
2.							
3.							
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 9.402 $(1-e^{-s})$ 1.236 P_c 1187 P_c^2 1270

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.	152	23.1	17.3	299.3	68.2	91.3	1178.7		1.07745
4.									
5.									

Absolute Potential: 1946 MCFPD; n .75 1.0575

COMPANY Pacific Northwest Pipeline Corp.
ADDRESS [illegible] Broadway Street, Farmington [illegible]
AGENT and TITLE C. B. Wagner - Well [illegible]
WITNESSED Tom Grant
COMPANY [illegible]

REMARKS

RECEIVED
MAY 23 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.

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