NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco-Pictured Cliffs Formation Pictured Cliffs County San Juan

Initial X Annual ____ Special ____ Date of Test 9- -58

Company PAN AMERICAN PETROLEUM CORP. Lease S. E. Elliott "B" Well No. 4

Unit P Sec. 27 Twp. 30N Rge. 9 Purchaser El Paso Natural Gas Company

Casing 5-1/2 Wt. 14 I.D. 5.012 Set at 2611 Perf. 2528 To 2569

Tubing 1.66 Wt. 2.3 I.D. 1-1/4 Set at 2540 Perf. 2534 To 2540

Gas Pay: From 2528 To 2569 L 2548 xG 0.69(est) -GL 1758 Bar.Press. 12

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

Date of Completion: 8-23-58 Packer None Reservoir Temp. 96° F

OBSERVED DATA

Tested Through (~~Prover~~) (Choke) (~~Meter~~) Type Taps ____

No.	Flow Data (~~Prover~~) (Line) Size	(Choke) (~~Orifice~~) Size	Press. psig	Diff. h_w	Temp. °F.	Tubing Data Press. psig	Temp. °F.	Casing Data Press. psig	Temp. °F.	Duration of Flow Hr.
SI	Shut in 7 days					1036		1036		
1.	2"	3/4"	278		60(est)	291	60 (est)	278	60(est)	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.	12.365		290	1.000	0.9325	1.035	[illegible]61
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 1048 P_c^2 1,0[illegible],304

No.	P_w / P_t (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	$\frac{P_w}{P_c}$
1.						91,809	1,006,495		
2.									
3.									
4.									
5.									

Absolute Potential: 3727 MCFPD; n 0.85
COMPANY [illegible] PETROLEUM CORPORATION
ADDRESS BOX 437, FARMINGTON, NEW MEXICO
AGENT and TITLE [illegible], JR., FIELD 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.