Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool __Basin Dakota__ Formation __Dakota__ County __San Juan__

Initial __X__ Annual_____ Special_____ Date of Test __1-26-65__

Company __PAN AMERICAN PETROLEUM CORP.__ Lease __P. O. PIPKIN__ Well No. __5__

Unit __A__ Sec. __7__ Twp. __27N__ Rge. __10W__ Purchaser_____

Casing __4-1/2__ Wt. __10.5__ I.D. __4.052__ Set at __6434__ Perf. __6265-72__ To __6341-54__ (6341-48 / 6319-32)

Tubing __2-3/8__ Wt. __4.7__ I.D. __1.995__ Set at __6249__ Perf. __6211__ To __6217__

Gas Pay: From __6241__ To __6354__ L __6298__ xG __.700__ _GL __4469__ Bar.Press. __12__

Producing Thru: Casing_____ Tubing __X__ Type Well __Single__
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: __1-17-65__ Packer __None__ Reservoir Temp._____

OBSERVED DATA

Tested Through (~~Prover~~) (Choke) (~~Orifice~~)   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	9 Days					1865		1864		
1.	Inch	.750	197			197	60° est.	551	60° est.	3 Hr.
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		209	1.000	.9258	1.025	2652
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 __1879__ P_c^2 __3,526,884__

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	$\frac{P_w}{P_c}$
1.						294,849	3,232,035		
2.									
3.									
4.									
5.									

Absolute Potential: __2615__ MCFPD; n __.75__

COMPANY __PAN AMERICAN PETROLEUM CORPORATION__
ADDRESS __Box 480, Farmington, New Mexico__
AGENT and TITLE __F. L. Robers, District Engineer__
WITNESSED __By:__ ORIGINAL SIGNED BY
COMPANY __F. W. Foell__

REMARKS

RECEIVED FEB 1 1965 O.L. CON. COM.
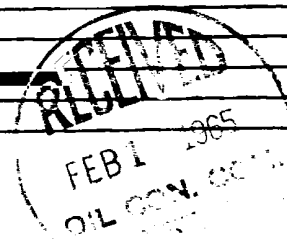
INSTRUCTIONS

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.