Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool __Tapacito__ Formation __Matured Cliffs__ County __Rio Arriba__

Initial_____ Annual_____ Special __XX__ Date of Test __10/25/50__

Company __Petil Oil Company__ Lease __Tapacito "C"__ Well No. __1__

Unit __K__ Sec. __7__ Twp. __24a__ Rge. __3__ Purchaser __El Paso__

Casing __7 5/8"__ Wt. __21__ I.D. __7.385__ Set at __3021'__ Perf. __3590__ To __3641__

Tubing __2 3/8"__ Wt. __4.7__ I.D. __1.995__ Set at __3590__ Perf. __--__ To __--__

Gas Pay: From __3590__ To __3641__ L __3590__ xG __.430__ -GL __2414__ Bar.Press. __12 psia__

Producing Thru: Casing_____ Tubing __XX__ Type Well __Gas-Gas Dual__

Date of Completion: __12/6/57__ Packer __Yes__ Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter)　　　　Type Taps_____

No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	Duration of Flow Hr.
	Flow Data					Tubing Data		Casing Data		
SI						1345		1345		
1.	2"	5.759	19½		48°	19½	43°	577		3 hours
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.	12.345			1.330	.7393	1.25	8140
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_____

P_c_____ $(1-e^{-s})$_____　　P_c_____ P_c^2_____

No.	P_w (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	$\frac{P_w}{P_w}$
1.						151	599		1.127
2.									
3.									
4.									
5.		1750			.45				

Absolute Potential:_____ MCFPD; n_____

COMPANY_____
ADDRESS_____
AGENT and TITLE_____
WITNESSED_____
COMPANY_____

REMARKS

Original Potential 12/13/57   GMP = 1361

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.