NEW MEXICO OIL CONSERVATION COMMISSION

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool _____ Formation _____ County _____

Initial __X__ Annual _____ Special _____ Date of Test ___1/10/59___

Company __A__C IL___ Lease _____ Well No. __5__

Unit __A__ Sec. __33__ Twp. __11-N__ Rge. __12-W__ Purchaser _____

Casing __7__ Wt. __23__ I.D. _____ Set at __724__ Perf. _____ To __7230__

Tubing __2__ Wt. _____ I.D. _____ Set at __719__ Perf. _____ To _____

Gas Pay: From __600__ To _____ L_____ xG_____ =GL_____ Bar.Press._____

Producing Thru: Casing_____ Tubing __XX__ Type Well __Single - Gas__
                                          Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: __1/1/59__ Packer_____ Reservoir Temp._____

P-724'
T-7217'
F-194'

Tested Through (Prover) (Choke) (Meter)   Type Taps _____

OBSERVED DATA

| No. | Flow Data | | | | | Tubing Data | | Casing Data | | Duration of Flow Hr. |
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. hw	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						2198		2172		7 days
1.		.750				117	-9	190		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.	12.3650		129	.9024	.960	1.011	1,138
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 __.650__
F_c _____ $(1-e^{-s})$ _____ P_c __2210__ P_c^2 __4,884,100__

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	$\frac{P_w}{P_c}$
1.	502					252,004	4,632,096		
2.									
3.									
4.									
5.									

Absolute Potential: __1500__ MCFPD; n __.75__

COMPANY _____
ADDRESS _____
AGENT and TITLE ___ORIGINAL SIGNED BY D. K. BRYANT___
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.