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.

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool __Blanco Mesaverde__ Formation __Mesaverde__ County __Rio Arriba__

Initial __X__ Annual __-__ Special __-__ Date of Test __10/2/58__

Company __Magnolia Petroleum Company__ Lease __Jicarilla "G"__ Well No. __7 MV-LT__

Unit __A__ Sec. __36__ Twp. __27N__ Rge. __3W__ Purchaser __Pacific Northwest Pipeline__

Casing __5"__ Wt. __15#__ I.D. __4.408"__ Set at __6240'__ Perf. __5698'__ To __6154'__

Tubing __2-3/8"__ Wt. __4.7#__ I.D. __1.995"__ Set at __6150'__ Perf. __-__ To __-__

Gas Pay: From __5698'__ To __6154'__ L __6150'__ xG est.__0.680__ -GL __4182__ Bar.Press. __12 psia__

Producing Thru: Casing __-__ Tubing __x__ Type Well __G.G.Dual__

Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: __8/21/58__ Packer __yes__ Reservoir Temp. __-__

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter)   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						1186	-	-	-	
1.	2"	0.750"	76	-	58°	76	58°	-	-	3 hrs.
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	-	88	1.0019	0.9393	-	1024
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 __0.68 est__

T_c __9.402__ $(1-e^{-s})$ __0.262__ P_c __1198__ P_c^2 __1435.2__

No.	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.									
2.	88	7.7	9.6	92.2	24.2	31.9	1403.3	-	-
3.									
4.									
5.									

Absolute Potential: __1039__ MCFPD; n __0.75__

COMPANY __MAGNOLIA PETROLEUM COMPANY__

ADDRESS __BOX 2406, HOBBS, NEW MEXICO__

AGENT and TITLE __William A Krogman__, Jr Gas Engineer

WITNESSED __-__

COMPANY __-__

REMARKS

RECEIVED OCT 20 1958 OIL CON. COM. DIST. 3