NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool __Undesignated__ Formation __Dakota__ County __San Juan__

Initial __X__ Annual _____ Special _____ Date of Test __11-9-60__

Company __Adobe oil company__ Lease __Harris__ Well No. __1__

Unit __N__ Sec. __28__ Twp. __31 N__ Rge. __13 W__ Purchaser __El Paso Natural gas co.__

Casing __5 1/2__ Wt. __15.5__ I.D. __4.990__ Set at __6475__ Perf. __6246__ To __6400__

Tubing __2 3/8__ Wt. __4.7__ I.D. __1.995__ Set at __6390__ Perf. __--__ To __--__

Gas Pay: From __6246__ To __6400__ L __6323__ xG __.67__ =GL __4236__ Bar.Press. __12.0__

Producing Thru: Casing _____ Tubing __X__ Type Well __single-gas__

Date of Completion: __10-25-60__ Packer __No__ Single-Bradenhead-G. G. or G.O. Dual 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						2011		2001		7 day
1.		3/4				173	62°	618		3 hour
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		185	.9981	.9463	1.0225	2,201
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c _____ $(1-e^{-s})$ _____

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c __2023__ P_c^2 __4096.5__
T_w __630__ P_w^2 __396.9__

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.									
2.						396.9	3699.6		.311
3.									
4.									
5.									

Absolute Potential: __2,377__ MCFPD; n __.75__

COMPANY __Adobe oil company__
ADDRESS __1223 Petroleum Life Bldg., Midland, Texas__
AGENT and TITLE __G.L. Hoffman__
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.