NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool **Jalmat** Formation **Yates-7-Rivers** County **Lea**

Initial ____ Annual ____ Special **X** Date of Test **3-24/4-1-60**

Company **Producing Properties, Inc.** Lease **Dabbs** Well No. **1**

Unit **M** Sec. **34** Twp. **25** Rge. **37** Purchaser **El Paso Natural Gas Co.**

Casing **7"** Wt. **24.0** I.D. **6.36** Set at **2546'** Perf. **Open** To ____

Tubing **2 3/8"** Wt. **4.7** I.D. **1.99"** Set at **2550'** Perf. **Open end** To ____

Gas Pay: From **2717** To **2785** L **2550** xG **.666** =GL **1698** Bar.Press. **13.2**

Producing Thru: Casing ____ Tubing **X** Type Well **Single**

Date of Completion: **1/23/57** Packer **2460'** Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp. ____

OBSERVED DATA

Tested Through ~~(Prover)~~ ~~(Choke)~~ (Meter) Type Taps **Flange**

No.	Flow Data (Prover) (Line) Size	Flow Data (Choke) (Orifice) Size	Flow Data Press. psig	Flow Data Diff. h_w	Flow Data Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI						534				72
1.	4	1.250	153	1.00	74	305				24
2.	4	1.250	209	1.96	67	287				24
3.	4	1.250	164	4.84	79	252				24
4.	4	1.250	160	8.41	64	235				24
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.	9.643	12.88	166.2	.9868	.9491	1.015	118.0
2.	9.643	20.87	222.2	.9933	.9491	1.021	193.6
3.	9.643	29.29	177.2	.9822	.9491	1.016	267.5
4.	9.643	38.17	173.2	.9962	.9491	1.017	353.9
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio **Dry** cf/bbl.
Gravity of Liquid Hydrocarbons ____ deg.
F_c **9.936** $(1-e^{-s})$ **0.110**

Specific Gravity Separator Gas ____
Specific Gravity Flowing Fluid ____
P_c **547.2** P_c^2 **299.4**

No.	P_w / P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$(F_cQ)^2 (1-e^{-s})$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	P_w / P_c
1.	318.2	101.2	1.172	1.37	0.15	101.4	198.0		
2.	300.2	90.1	1.924	3.70	0.41	90.5	208.9		
3.	265.2	70.3	2.658	7.06	0.78	71.1	228.3		
4.	248.2	61.6	3.516	12.36	1.36	63.0	236.4		
5.									

Absolute Potential: **440** MCFPD; n **1.000**
COMPANY **Producing Properties, Inc.**
ADDRESS **Box 955, Andrews, Texas.**
AGENT and TITLE **Paul Gregory, Prod. Supt.** Paul Gregory 12/16/60
WITNESSED **Murray and Irwin**
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.