NEW MEXICO OIL CONSERVATION COMMISSION

Corrected Copy

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

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

Initial ____ Annual ____ Special **x** Date of Test **10-29 to 11-2-56**

Company **Dalport Oil Corporation** Lease **Christmas "B"** Well No. **1**

Unit **J** Sec. **21** Twp. **22-S** Rge. **36-E** Purchaser **El Paso Natural Gas Company**

Casing **5½** Wt. **15.5** I.D. ____ Set at **3140** Perf. ____ To ____

Tubing **2** Wt. **4.70** I.D. **1.995** Set at **3240** Perf. ____ To ____

Gas Pay: From **3190** To **3473** L **3240** xG **.670** =GL **2171** Bar.Press. **132**

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

Date of Completion: **12-16-52** Packer **None** 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	Press. psig	Diff. h_w	Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI						660		661		72
1.	4	.750	599	7.29	93	645		645		24
2.	4	.750	597	19.36	106	629		630		24
3.	4	.750	592	29.16	84	618		621		24
4.	4	.750	590	53.29	78	597*		600		24
5.										

* Not enough draw down due to high line pressure

FLOW CALCULATIONS

No.	Coefficient F_{lg} (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.	3.435	66.80		.9697	.9463	1.056	222
2.	3.435	108.67		.9585	.9463	1.052	357
3.	3.435	132.82		.9777	.9463	1.059	447
4.	3.435	179.26		.9831	.9463	1.061	608
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio **Dry Gas** cf/bbl. Specific Gravity Separator Gas ____

Gravity of Liquid Hydrocarbons ____ deg. Specific Gravity Flowing Fluid ____

F_c ____ $(1-e^{-s})$ ____ P_c **674.2** P_c^2 **454.5**

No.	P_w or 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	$\frac{P_w}{P_c}$
1.	656.2	433.2				433.2	21.3		.9763
2.	643.2	412.4				413.7	40.8		.9540
3.	634.2	398.4				402.2	52.3		.9407
4.	613.2	372.3				376.0	78.5		.9095
5.									

Absolute Potential: **2350** MCFPD; n **.77**

COMPANY **Dalport Oil Corporation**

ADDRESS **930 Fidelity Union Life Bldg., Dallas, Texas**

AGENT and TITLE Edward Mabe **Production Manager**

WITNESSED **Edward Mabe**

COMPANY **El Paso Natural Gas Company**

REMARKS

LOUIS A. UTZ GAS ENGINEER

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.