NEW MEXICO OIL CONSERVATION COMMISSION

HOBBS OFFICE OCC

1957 FEB 11 AM 10:04

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool **Eumont** Formation **Queen** County **Lea**

Initial ____ Annual ____ Special **X** Date of Test **8-13 to 8-17-56**

Company **Dalport Oil Corporation** Lease **McQuatters** Well No. **1**

Unit **E** Sec. **12** Twp. **21-S** Rge. **36-E** Purchaser **El Paso Natural Gas Company**

Casing **5½** Wt. **14** I.D. ____ Set at **3391** Perf. ____ To ____

Tubing **2 3/8** Wt. **4.70** I.D. ____ Set at **3598** Perf. ____ To ____

Gas Pay: From **3397** To **3608** L **3598** xG **.675** -GL ____ Bar.Press. **13.2**

Producing Thru: Casing ____ Tubing **X** Type Well **Single** Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: **12-7-54** Packer **None** Reservoir Temp. ____

OBSERVED DATA

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

No.	Flow Data: ~~(Prover)~~ (Line) Size	~~(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						870		877		72
1.	4	1.500	197	8.2	52	705		740		24
2.	4	1.500	250	8.2	60	639		681		24
3.	4	1.500	181	4.3	64	740		753		24
4.	4	1.500	170	2.0	75	790		797		24
5.										

FLOW CALCULATIONS

No.	Coefficient Flg (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.	13.99	118.83		1.0078	.9427	1.022	1,614
2.	13.99	132.98		1.000	.9427	1.028	1,802
3.	13.99	59.89		.9962	.9427	1.019	802
4.	13.99	27.06		.9859	.9427	1.017	359
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 **890.2** P_c^2 **792.5**

No.	P_w / P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	718.2	515.8				567.3	225.2		84.4
2.	652.2	425.4				481.9	310.6		77.7
3.	753.2	567.3		Measured		587.1	205.4		85.9
4.	803.2	645.1				656.4	136.1		90.9
5.									

Absolute Potential: **4,600** MCFPD; n **1.000**

COMPANY **Dalport Oil Corporation**

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

AGENT and TITLE W. [illegible] **Vice-President**

WITNESSED **Smith & Blumer**

COMPANY **El Paso Natural Gas Co**

REMARKS

ELVIS 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.