NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool **Jalmat** Formation **Yates** County **Lea**

Initial ____ Annual ____ Special **X** Date of Test **9-12/20-63**

Company **Dalport Oil Corporation** Lease **Winters C** Well No. **1**

Unit **J** Sec. **7** Twp. **25** Rge. **37** Purchaser **El Paso Natural Gas Company**

Casing **7** Wt. **23** I.D. ____ Set at **3200** Perf. ____ To ____

Tubing **2 3/8** Wt. **4.7** I.D. ____ Set at **3285** Perf. ____ To ____

Gas Pay: From **2796** To **2946** L **2796** xG **.674** -GL **1884** Bar.Press. **13.2**

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

Date of Completion: **3-29-53** Packer **2950** Reservoir Temp. ____

OBSERVED DATA

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

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								271		72
1.	4	.750	134	2.25	84			241		24
2.	4	.750	152	6.76	82			212		24
3.	4	.750	162	10.89	80			183		24
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-hour) F_b	Pressure P_m	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	3.435	18.20	.9777	.9435	1.012	58.36
2.	3.435	33.42	.9795	.9435	1.014	107.5
3.	3.435	43.68	.9813	.9435	1.016	141.1
4.						
5.						

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio ____ cf/bbl. Specific Gravity Separator Gas ____
Gravity of Liquid Hydrocarbons ____ deg. Specific Gravity Flowing Fluid ____
P_c ____ (1-e-s) ____ P_c **284.2** P_c^2 **80.8**

No.	P_w Pt (psia)	P_t^2	$F_c Q$	$(F_c Q)^2$	$\frac{(F_c Q)^2}{(1-e^{-s})}$	P_w^2	$P_c^2 - P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	254.2	64.6	16.2					64.6	16.2
2.	225.2	50.7	30.1					50.7	30.1
3.	196.2	38.5	42.3					38.5	42.3
4.									
5.									

Absolute Potential: **256** MCFPD; n **.910**

COMPANY **Dalport Oil Corporation**

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

AGENT and TITLE Jean M. Hampton **Geologist**

WITNESSED **Jack T. Littlefield**

COMPANY **El Paso Natural Gas Company, Jal New Mexico**

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.