NEW MEXICO OIL CONSERVATION COMMISSION

CORRECTED REPORT

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 K 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	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						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 (24-Hour) F_{lg}	$\sqrt{h_w p_f}$	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.
Gravity of Liquid Hydrocarbons ____ deg.
F_c ____ $(1-e^{-s})$ ____

Specific Gravity Separator Gas ____
Specific Gravity Flowing Fluid ____
P_c 890.2 P_c^2 792.5

No.	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.	718.2	515.8				567.3	225.2	753.2	.8461
2.	652.2	425.4				481.9	310.6	694.2	.7798
3.	753.2	567.3		Measured		587.1	205.4	766.2	.8607
4.	803.2	645.1				656.4	136.1	810.2	.9101
5.									

Absolute Potential: 4,600 MCFPD; n 1.000

COMPANY DALPORT OIL CORPORATION

ADDRESS 930 Fidelity Union Life Bldg. Dallas, Texas

AGENT and TITLE Production Manager

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_c.