NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Jalmat Formation Yates - Seven Rivers County Lea

Initial ____ Annual ____ Special X Date of Test 6-15/6-19-64

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

Unit J Sec. 21 Twp. 22 Rge. 36 Purchaser El Paso Natural Gas Company

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

Tubing 2 3/8" Wt. 4.7 I.D. ____ Set at 3268 Perf. ____ To ____

Gas Pay: From 3190 To 3473 L 3268 xG .678 -GL 2216 Bar.Press. 13.2

Producing Thru: Casing ____ Tubing X Type Well Single

Date of Completion: June 1958 Packer None Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp. ____

OBSERVED DATA

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

No.	Flow Data (Line) Size	Flow Data (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						473		473		72
1.	4	1.750	168	9.61	62	459		468		24
2.	4	1.750	196	25.00	66	435		463		24
3.	4	1.750	174	44.22	62	422		460		24
4.	4	1.750	182	53.29	62	413		458		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.	19.27	41.73		.9981	.9407	1.018	768.6
2.	19.27	72.32		.9943	.9407	1.020	1,330
3.	19.27	90.98		.9981	.9407	1.019	1,677
4.	19.27	101.99		.9981	.9407	1.020	1,882
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio Dry cf/bbl. Specific Gravity Separator Gas None

Gravity of Liquid Hydrocarbons None deg. Specific Gravity Flowing Fluid .678

P_c Measured $(1-e^{-s})$ - - - - P_c 486.2 P_c^2 236.4

No.	P_w (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.	472.2	223.0	- - -	Measured	- - - - -	231.5	4.9		
2.	448.2	200.9	- - -	Measured	- - - - -	226.8	9.6		
3.	435.2	189.4	- - -	Measured	- - - - -	223.9	12.5		
4.	426.2	181.6	- - -	Measured	- - - - -	222.0	14.4		
5.									

Absolute Potential: 20,050 MCFPD; n ~~.49~~ .75

COMPANY Dalport Oil Corporation

ADDRESS 930 Fidelity Union Life Bldg. Dallas, Texas

AGENT and TITLE Leon McSpadden Geologist

WITNESSED J. B. Murray

COMPANY El Paso Natural Gas 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.