NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

1959 MAR 11 AM 10 15

Pool Jalmat Formation Yates County Lea

Initial X Annual Special Date of Test 3-4-59

Company Dalport Oil Corporation Lease Lunt-B Well No. 1

Unit P Sec. 20 Twp. 27 Rge. 36 Purchaser Not connected

Casing 5½ Wt. 14 I.D. Set at 3400 Perf. 3164 To 3363

Tubing 2 Wt. 4.7 I.D. Set at 3150 Perf. To

Gas Pay: From 3164 To 3363 L 3150 xG .650 =GL 2048 Bar.Press. 13.2

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

Date of Completion: Recompleted Packer None 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						701		701		
1.	2x.250				70	590		660		3
2.	2x.312				70	510		595		3
3.	2x.437				68	300		574		3
4.										
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.	1.4030		603.2	.9905	.9608	1.061	855
2.	2.2080		523.2	.9905	.9608	1.050	1154
3.	4.3397		313.2	.9924	.9608	1.030	1353
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl.
Gravity of Liquid Hydrocarbons deg.
F_c Measured $(1-e^{-s})$

Specific Gravity Separator Gas
Specific Gravity Flowing Fluid
P_c 714.2 P_c^2 510.1

No.	~~P_w~~ 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.	603.2	363.9					146.2		
2.	523.2	273.7					236.4		
3.	313.2	98.1					412.0		
4.									
5.									

Absolute Potential: 4150 MCFPD; n 1.000

COMPANY Dalport Oil Corporation

ADDRESS 930 Fidelity Union Life Bldg. Dallas, Texas

AGENT and TITLE W. L. Peavy President

WITNESSED H. H. Kerby and Bob Boas

COMPANY El Paso Natural Gas Company

REMARKS

Due to well producing heavy spray of frac oil it was impossible to obtain 4th point or 24 hr. point, however, when well is tied into gas line a 4 point test will be conducted. No alignment of points. Slope of 1.000 drawn through highest rate of flow.

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.