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 1-21 to 1-25-57

Company Dalport Oil Corporation Lease Harrison Well No. 1

Unit G Sec. 7 Twp. 25S Rge. 37E Purchaser El Paso Natural Gas Company

Casing 5½ Wt. 15.5 I.D. ____ Set at 3234 Perf. ____ To ____

Tubing 2 3/8 Wt. 4.7 I.D. ____ Set at 33.25 Perf. ____ To ____

Gas Pay: From 2820 To 2966 L 2820 xG .655 -GL 1847 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: 9-20-53 Packer 3167 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								497		72
1.	4	1.0	217	14.4	48			455		24
2.	4	1.0	221	32.5	48			420		24
3.	4	1.0	238	52.6	54			380		24
4.	4	1.0	242	68.9	54			358		24
5.	4	1.0	240	80.1	54			340		24

FLOW CALCULATIONS

No.	Coefficient F_{1g} (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.	6.135	57.63		1.0117	.9571	1.025	352
2.	6.135	87.19		1.0117	.9571	1.026	531
3.	6.135	114.86		1.0058	.9571	1.026	697
4.	6.135	132.54		1.0058	.9571	1.027	804
5.	6.135	142.36		1.0058	.9571	1.027	863

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio Dry cf/bbl. Specific Gravity Separator Gas .655

Gravity of Liquid Hydrocarbons ____ deg. Specific Gravity Flowing Fluid ____

P_c 1.793 $(1-e^{-s})$ .119 P_c 510.2 P_c^2 260.3

No.	P_w (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.	468.2	219.2	.63	.40	.048	219.2	41.1		.9177
2.	433.2	187.7	.95	.90	.110	187.7	72.6		.8490
3.	393.2	154.6	1.25	1.56	.190	154.8	105.5		.7707
4.	371.2	137.8	1.44	2.07	.250	138.1	122.2		.7216
5.	353.2	124.8	1.55	2.40	.290	125.1	135.2		.6923

Absolute Potential: 1.450 MCFPD; n .793

COMPANY DALPORT OIL CORPORATION

ADDRESS 930 Fidelity Union Life Bldg. Dallas, Texas

AGENT and TITLE [signature] Production Manager

WITNESSED Earl G. Smith

COMPANY El Paso Natural Gas Company

REMARKS

GAS ENGINEERING

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.

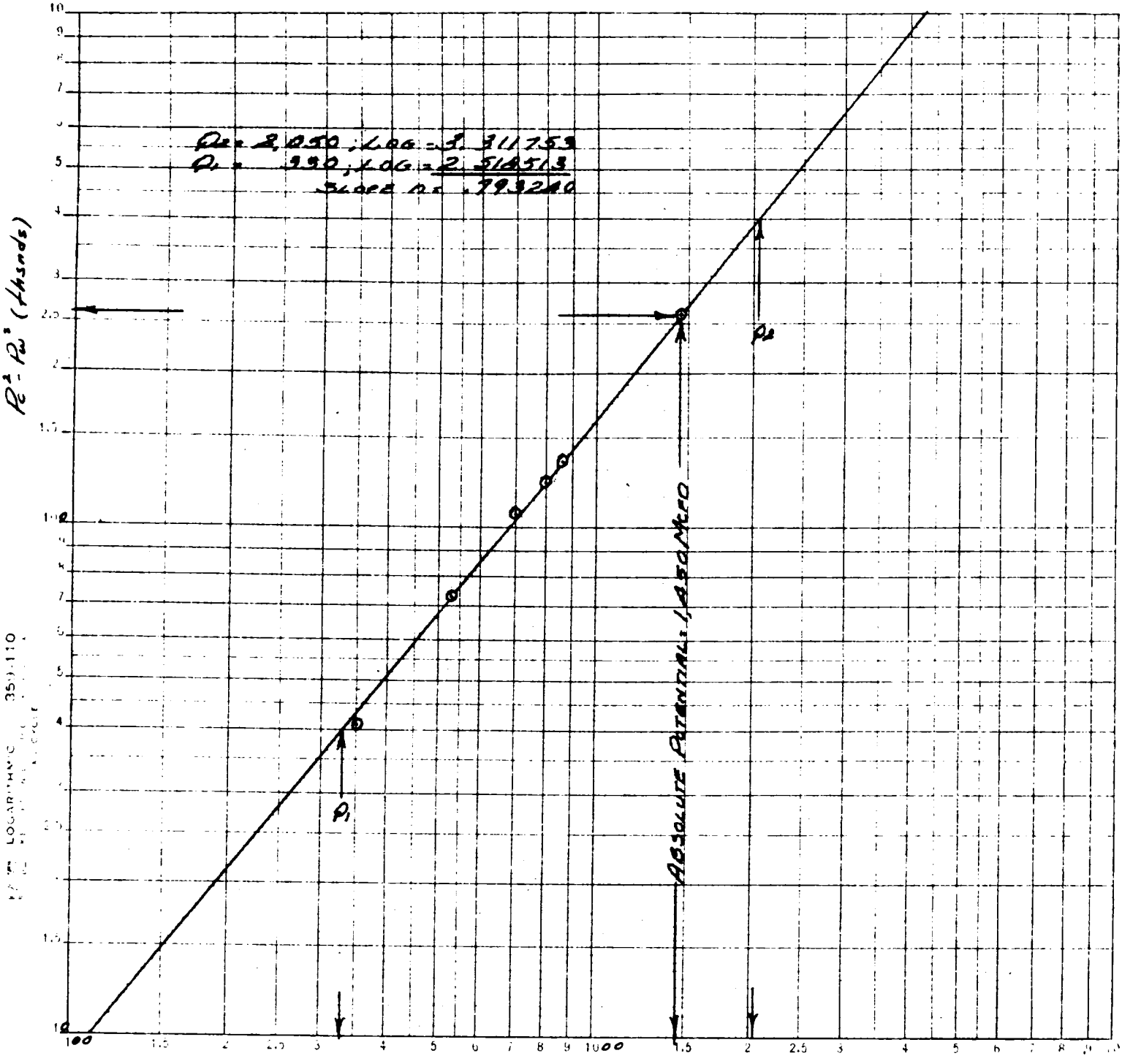
F_t = Flowing temperature correction factor.

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.

DALPORT OIL CORP.
HARRISON Nº 1
G-7-25-37 LEA NM
1-25-1957



Q - MCFD - 15.025 PSIA 60°F