

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Jalnet Formation Yates County Lea
Initial _____ Annual _____ Special X Date of Test 1-21 to 1-25-57
Company Dalport Oil Corporation Lease Winters Well No. 1
Unit B Sec. 18 Twp. 25S Rge. 37E Purchaser El Paso Natural Gas Company
Casing 7" Wt. 20.0# I.D. _____ Set at 2775 Perf. _____ To _____
Tubing 2 3/8 Wt. 4.7 I.D. _____ Set at 2842 Perf. _____ To _____
Gas Pay: From 2775 To 2937 L 2842 xG .645 -GL 1833 Bar.Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 5-15-52 Packer None Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) _____ Type Taps Flange

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						430				72
1.	4	1.250	211	7.3	52	413				24
2.	4	1.250	232	28.1	57	385				24
3.	4	1.250	232	49.0	56	370				24
4.	4	1.250	240	69.7	56	340				24
5.										

FLOW CALCULATIONS

No.	Coefficient Flg (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	9.613	40.41		1.0078	.9645	1.022	387
2.	9.613	82.96		1.0029	.9645	1.024	793
3.	9.613	109.56		1.0039	.9645	1.024	1047
4.	9.613	132.82		1.0039	.9645	1.025	1271
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio Dry cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 9.936 (1-e^{-s}) .119

Specific Gravity Separator Gas .645
Specific Gravity Flowing Fluid _____
P_c 443.2 P_c 196.4

No.	P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.	426.2	181.6	3.85	14.82	1.76	183.4	13.0	427.2	.9640
2.	398.2	158.6	7.88	62.09	7.39	166.0	30.4	407.5	.9194
3.	383.2	146.8	10.48	109.86	12.67	159.7	36.7	399.6	.9086
4.	353.2	124.8	12.63	159.52	18.98	143.8	52.6	379.2	.8556
5.									

Absolute Potential: 3,900 MCFPD; n .847

COMPANY Dalport Oil Corporation

ADDRESS 930 Fidelity Union Life Bldg. Dallas, Texas

AGENT and TITLE Lawrence J. Smith Production Manager

WITNESSED Earl G. Smith

COMPANY El Paso Natural Gas Company

REMARKS

EL PASO NATURAL GAS COMPANY

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.

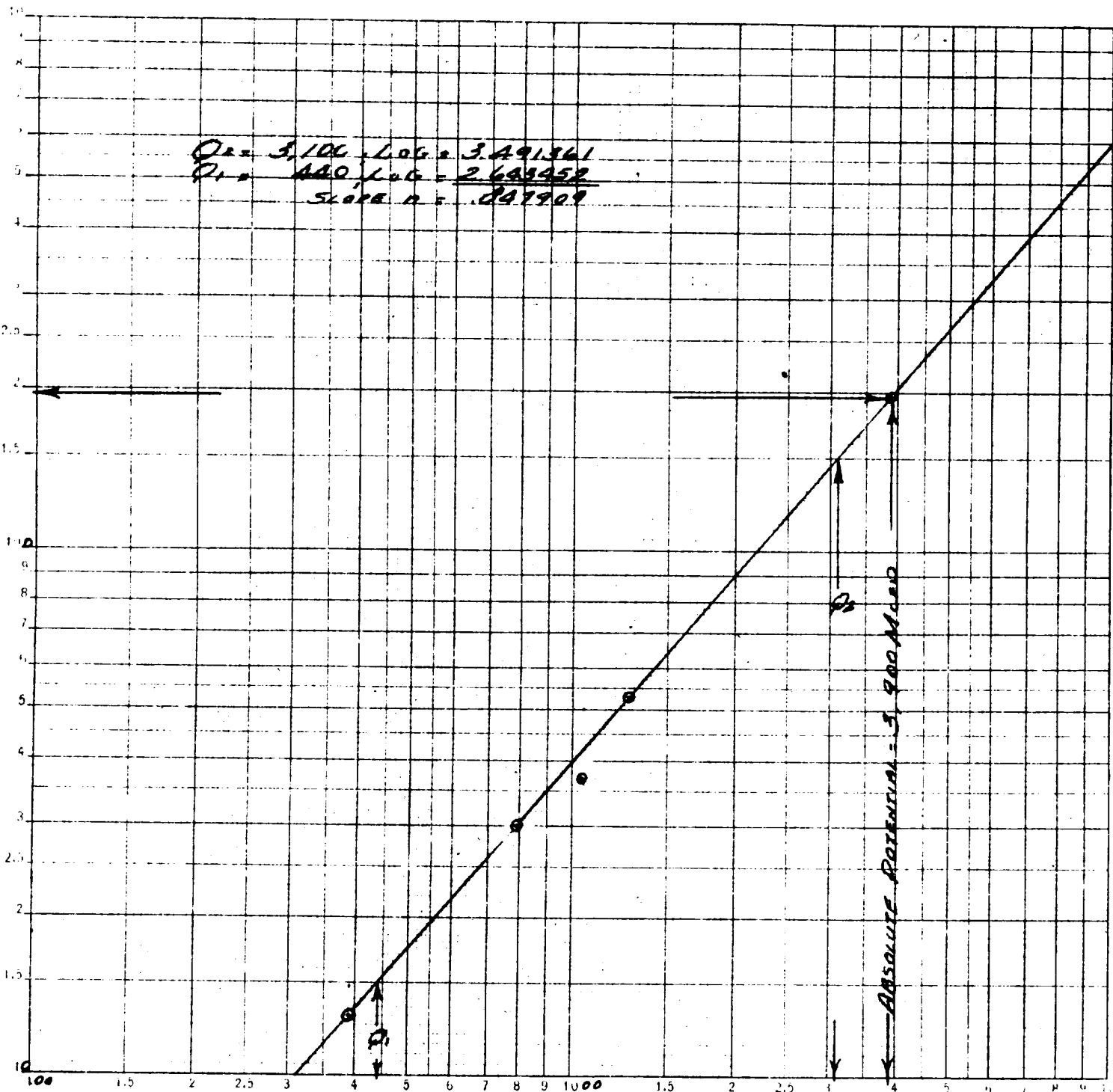
Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .

DALPORT OIL CORP.
 WINTERS N° 1
 B-18-25-37 LEANM.
 1-25-1957

$Q_2 = 3,100, \text{ LOG} = 3.491361$
 $Q_1 = 440, \text{ LOG} = 2.643452$
 SLOPE $n = .047909$

$P^* - P_w$ (lbs/sq. ft.)

LOGARITHMIC 359-110
 PERMEABILITY INDEX



Q - Mcfd 15.025 PSIA 60°F