

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

Corrected Copy

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Jalmat Formation Yates - 7 Rivers County Lea
Initial _____ Annual _____ Special _____ Date of Test 10-22 to 10-26-56
Company Dalport Oil Corporation Lease Christmas Well No. 1
Unit 0 Sec. 25 Twp. 22-S Rge. 36-E Purchaser El Paso Natural Gas Co.
Casing 5 1/2 Wt. 15.5 I.D. _____ Set at 2920 Perf. _____ To _____
Tubing None Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____
Gas Pay: From 3130 To 3450 L 2920 xG .670 -GL 1956 Bar.Press. 13.2
Producing Thru: Casing X Tubing _____ Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 12-24-50 Packer None Reservoir Temp. _____

OBSERVED DATA

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

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI								827		72
1.	1	1.250	719	2.12	71			719		24
2.	1	1.250	669	2.85	71			669		24
3.	1	1.250	625	3.62	69			625		24
4.	1	1.250	584	4.32	68			585		24
5.										

FLOW CALCULATIONS

No.	Coefficient F _{lg} (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.	9.643	56.82		.9896	.9463	1.080	554
2.	9.643	74.43		.9896	.9463	1.071	721
3.	9.643	90.93		.9915	.9463	1.069	880
4.	9.643	105.07		.9924	.9463	1.066	1.014
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio Dry Gas cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c .9171 (1-e^{-s}) .126

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 840.2 P_c 705.9

No.	P _w (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.	732.2	536.1	0.5	0.3	0.04	536.1	169.8		.8715
2.	682.2	465.4	0.7	0.5	0.06	465.5	240.4		.8119
3.	638.2	407.3	0.8	0.6	0.08	407.4	298.5		.7596
4.	598.2	357.8	0.9	0.8	0.10	357.9	348.0		.7120
5.									

Absolute Potential: 2,000 MCFPD; n .96COMPANY Dalport Oil CorporationADDRESS 930 Fidelity Union Life Bldg, Dallas, TexasAGENT and TITLE Lawrence Wright Jr. Production ManagerWITNESSED Smith & BlumerCOMPANY El Paso Natural Gas Company

REMARKS

ELVIS
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 .