

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

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 Well No. 1
Unit 0 Sec. 25 Twp. 22 Rge. 36 Purchaser El Paso Natural Gas Company
Casing 5½" Wt. 15.5 I.D. _____ Set at 2920 Perf. _____ To _____
Tubing 2" Wt. 4.7 I.D. _____ Set at 3092 Perf. _____ To _____
Gas Pay: From 3125 To 3240 L 3092 xG .657 -GL 2031 Bar.Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Single
Date of Completion: Apr 24, 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					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										
1.	4	1.500	157	4.00	72	456		456		72
2.	4	1.500	184	9.00	74	438		441		24
3.	4	1.500	166	23.04	68	422		428		24
4.	4	1.500	187	31.36	70	399		409		24
5.						383		399		24

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w Q}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	13.99	26.09		.9887	.9556	1.014	349.7
2.	13.99	42.13		.9868	.9556	1.018	565.8
3.	13.99	64.26		.9924	.9556	1.016	866.2
4.	13.99	79.24		.9905	.9556	1.018	1,067
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio Dry cf/bbl.
Gravity of Liquid Hydrocarbons None deg.
F_c Measured (1-e^{-s})

Specific Gravity Separator Gas None
Specific Gravity Flowing Fluid .657
P_c 469.2 P_c² 220.1

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.	451.2	203.6	- - -	Measured	- - -	206.3	13.8		
2.	435.2	189.4	- - -	Measured	- - -	194.6	25.5		
3.	412.2	169.9	- - -	Measured	- - -	178.2	41.9		
4.	396.2	157.0	- - -	Measured	- - -	169.9	50.2		
5.									

Absolute Potential: 4,150 MCFPD; n 47 9 7COMPANY Dalport Oil CorporationADDRESS 930 Fidelity Union Life Bldg Dallas, TexasAGENT and TITLE John M. Dalport GeologistWITNESSED J. B. MurrayCOMPANY El Paso Natural Gas Company, Jal, New Mexico

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 .