

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Jalmat Formation Yates - 7 Rivers County Lea
Initial _____ Annual _____ Special X Date of Test 5-9-58
Company Dalport Oil Corporation Lease Christmas Well No. 1
Unit 0 Sec. 25 Twp. 22 Rge. 36 Purchaser El Paso Natural Gas Co
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 .670 -GL 2072 Bar.Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Single
Date of Completion: 4-24-58 Packer None Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

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

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						763		768		72
1.	4	1.250	712	18.06	70	714		753		24
2.	4	1.250	671	11.60	68	675		732		24
3.	4	1.250	640	61.62	68	646		715		24
4.	4	1.250	602	89.30	66	613		697		24
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.	9.613	171.14	725.2	.9905	.9463	1.080	1118
2.	9.613	168.69	684.2	.9924	.9463	1.073	1640
3.	9.613	200.60	653.2	.9924	.9463	1.069	1941
4.	9.613	234.35	615.2	.9943	.9463	1.066	2266
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio Dry cf/bbl. Specific Gravity Separator Gas .670
Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____
F_c _____ (1-e^{-s}) P_c 781.2 P_w 610.3

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	$\frac{P_w}{P_c}$
1.	727.2	528.8	81.5			587.1	23.2		
2.	688.2	473.6	136.7			555.3	55.0		
3.	659.2	434.5	175.8			530.3	80.0		
4.	626.2	392.1	218.2			504.4	105.2		
5.									

Absolute Potential: 5750 MCFPD; n .500

COMPANY Dalport Oil Corporation
ADDRESS 930 Fidelity Union Life Bldg
AGENT and TITLE W. J. [Signature] President
WITNESSED Earl J. Smith
COMPANY El Paso Nat Gas Co

REMARKS

In accordance with Rule 15 Jalmat Gas Pool deliverability procedure average slope of .771 shall be used to calculate deliverability.

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 .