

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 4/26/61
Company Dalport Oil Corporation Lease Winters B Well No. 2
Unit 1 Sec. 7 Twp. 25 Rge. 37 Purchaser El Paso Natural Gas Co
Casing 5 1/2 Wt. 14.0 I.D. _____ Set at 2865 Perf. _____ To _____
Tubing 2 3/8 Wt. 4.7 I.D. _____ Set at 3025 Perf. _____ To _____
Gas Pay: From 2885 To 3034 L 3025 xG .650 -GL 1966 Bar.Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 8-26-51 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.
	(<u>Prover</u>) (Line) Size	(<u>Choke</u>) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						380				72
1.	4	0.750	205	50.41	64	285				24
2.	4	0.750	205	61.15	71	277				24
3.	4	0.750	226	68.06	75	281				24
4.	4	0.750	228	85.56	62	279				24
5.	4	0.750								

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.	3.435	104.83		.9962	.9608	1.021	352
2.	"	115.46		.9896	"	1.020	386
3.	"	127.55		.9859	"	1.021	424
4.	"	143.60		.9981	"	1.023	484
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 9.936 (1-e^{-S}) .127
Specific Gravity Separator Gas .650
Specific Gravity Flowing Fluid _____
P_c 393.2 P_c² 154.6

No.	P _t 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.	298.2	88.9	3.497	12.23	1.553	90.5	64.1		
2.	290.2	84.2	3.835	14.71	1.868	86.1	68.5		
3.	294.2	86.6	4.213	17.75	2.254	88.9	65.7		
4.	292.2	85.4	4.809	23.13	2.938	83.3	66.3		
5.									

Absolute Potential: 1025 MCFPD; n .771

COMPANY Dalport Oil Corporation
ADDRESS 930 Fidelity Union Life Bldg
AGENT and TITLE President
WITNESSED Earl G. Smith
COMPANY El Paso Natural Gas Company

REMARKS

Poor point alignment on this test. Jalmat average slope of .771 was drawn thru data point corresponding to highest rate of flow. 2nd test on this well.

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 B #2
 L-7-26-37. LBO CO. N.M.
 4-26-1957
 A.P. = 6025 MCFD

