

OIL AND GAS CONSERVATION COMMISSION

Form C-122

WINTER BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Jalmat Formation Yates County Lea
Initial Annual Special X Date of Test 6-15/6-19-64
Company Dalport Oil Corporation Lease Winters "B" Well No. 2
Unit L Sec. 7 Twp. 25S Rge. 37E Purchaser El Paso Natural Gas Company
Casing 5 1/2" Wt. 14 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 .678 -GL 2051 Bar.Press. 13.2
Producing Str. Casing Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: Aug 26, 1951 Packer None Reservoir Temp.

OBSERVED DATA

Tested Through (Proven) (Choke) (Meter) Type Taps

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Proven) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						159				72
1.	4	.375	1147	9.00	91	1148				24
2.	4	.375	1144	20.70	93	1145				24
3.	4	.375	1140	34.22	95	1141				24
4.	4	.375	80	24.01	108	81				24
5.										

FLOW CALCULATIONS

No.	Orifice Flow (24-Hour)	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	.8607	37.97	.9715	.9407	1.012	30.22
2.	.8607	57.04	.9697	.9407	1.012	45.32
3.	.8607	72.40	.9680	.9407	1.012	57.42
4.	.8607	47.30	.9568	.9407	1.011	36.64
5.						

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio Dry cf/boil.
Gravity of Liquid Hydrocarbons None deg.
G 9.936 (1-0.000)

Specific Gravity Separator Gas None
Specific Gravity Flowing Fluid .678
P_c 172.2 P_c 29.6

No.	P _w xxx (psia)	$\frac{P_w^2}{L}$	P _c	$(P_w Q)^2$	$(F_c Q)^2$ (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	$\frac{P_w}{P_c}$
1.	161.2	26.0			Neg	26.0	3.6		
2.	158.2	25.0			Neg	25.0	4.6		
3.	154.2	23.8			Neg	23.8	5.8		
4.	94.2	8.9			Neg	8.9	20.7		
5.									

bsolute Potential 295 MCFPD; n 45
OMPANY Dalport Oil Corporation
DRESS 930 Fidelity Union Life Bldg. Dallas, Texas
GENT and TITLE Leon M. Sampert Geologist
ITNESSED J. B. Murray
OMPANY El Paso Natural Gas Company

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 .

DALPORT OIL CORP.
 WINTERS "B" #2
 L - 7-25-37
 LEA COUNTY, NEW MEXICO
 6-19-64

