

EL PASO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

WELL BACK PRESSURE TEST FOR GAS WELLS

Pool Jalmat Location Yates County Lea
Initial Annual Special X Date of Test 6-15/6-19-64
Company Dalport Oil Corporation Lease Harrison Well No. 1
Unit G Sec. 7 Twp. 25 Rge. 37 Purchaser El Paso Natural Gas Company
Casing 5 1/2" Wt. 15.5 I.D. Set at 323 1/2 Perf. To
Tubing 2 3/8" Wt. 4.7 I.D. Set at 3325 Perf. To
Gas Pay: From 2820 To 2966 L 3325 xG .660 -GL 219 1/2 Bar.Press. 13.2
Producing From: Casing X Tubing Single-Bradenhead-G. G. or G.O. Dual Type Well G. O. Dual
Date of Completion: Sept 20 1953 Packer 3167 Reservoir Temp.

OBSERVED DATA

Tested Through: (Prover) (Choke) (Water)Type Taps

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Orifice) Size	Press. psia	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						G.O. Dual		218		72
1.	4	.500	148	6.76	90	G.O. Dual		238		2 1/2
2.	4	.500	166	14.44	91	G.O. Dual		233		2 1/2
3.	4	.500	144	47.61	91	G.O. Dual		221		2 1/2
4.	4	.500	146	67.24	92	G.O. Dual		213		2 1/2
5.										

FLOW CALCULATIONS

No.	Coefficient (2q-1000)	Pressure (psia)	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	1.525	33.01	.9723	.9535	1.012	47.22
2.	1.525	50.87	.9715	.9535	1.014	72.87
3.	1.525	86.51	.9715	.9535	1.012	123.6
4.	1.525	103.46	.9706	.9535	1.012	148.8
5.						

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio Dry cf/boil.
Gravity of Liquid Hydrocarbons None deg.
P_c 261.2 P_w 68.2

Specific Gravity Separator Gas None
Specific Gravity Flowing Fluid .660
P_c 261.2 P_w 68.2

No.	P _w (psia)	P _c ²	P _w ²	(P _c - P _w) 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.	251.2	63.1	- - -	Neg	- - -	63.1	5.1		
2.	246.2	60.6	- - -	Neg	- - -	60.6	7.6		
3.	234.2	54.8	- - -	Neg	- - -	54.8	13.4		
4.	226.2	51.2	- - -	Neg	- - -	51.2	17.0		
5.									

Absolute Potential: 500MCFPD; n 48.5COMPANY 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} = Supercompressibility 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.
HARRISON # 1
5-7-25-87
LEA COUNTY, NEW MEXICO
6-19-64

