

MODES OFFICE OCC

Form C-122

Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

1957 FEB 11 AM 10:04

Pool Jalnet Formation Yates - 7 Rivers County Lea

Initial \_\_\_\_\_ Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test \_\_\_\_\_

Company Dalport Oil Corporation Lease Christmas Well No. 1Unit 0 Sec. 25 Twp. 22-8 Rge. 36-E Purchaser El Paso Natural Gas CompanyCasing 5 1/2 Wt. 15.5 I.D. \_\_\_\_\_ Set at 2920 Perf. \_\_\_\_\_ To \_\_\_\_\_Tubing None Wt. \_\_\_\_\_ I.D. \_\_\_\_\_ Set at \_\_\_\_\_ Perf. \_\_\_\_\_ To \_\_\_\_\_Gas Pay: From 3130 To 3450 L 2920 xG .670 -GL 1956 Bar.Press. 13.2Producing Thru: Casing X ☒ Tubing \_\_\_\_\_ Type Well Single

Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 12-24-50 Packer None Reservoir Temp. \_\_\_\_\_

## OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps \_\_\_\_\_

No.	Flow Data			Tubing Data		Casing Data		Duration of Flow Hr.
	( <del>Prover</del> ) (Line) Size	( <del>Choke</del> ) (Orifice) Size	Press. psig	Diff. h <sub>w</sub>	Temp. °F.	Press. psig	Temp. °F.	
SI							827	72
1.	1	1.250	719	2.1 <sup>2</sup>	71	719		24
2.	1	1.250	669	2.85 <sup>2</sup>	71	669		24
3.	1	1.250	625	3.6 <sup>2</sup>	69	625		24
4.	1	1.250	584	4.3 <sup>2</sup>	68	585		24
5.								

## FLOW CALCULATIONS

No.	Coefficient Flg (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F <sub>t</sub>	Gravity Factor F <sub>g</sub>	Compress. Factor F <sub>pv</sub>	Rate of Flow Q-MCFPD @ 15.025 psia
1.	9.643	56.82		.9896	.9463	1.080	554
2.	9.643	74.43		.9896	.9463	1.071	721
3.	9.643	90.93		.9915	.9463	1.069	880
4.	9.643	105.07		.9924	.9463	1.066	1.014
5.							

## PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio Dry Gas cf/bbl.  
 Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.  
 F<sub>c</sub> .9171 (1-e<sup>-s</sup>) .126

Specific Gravity Separator Gas \_\_\_\_\_  
 Specific Gravity Flowing Fluid \_\_\_\_\_  
 P<sub>c</sub> 840.2 P<sub>c</sub><sup>2</sup> 705.9

No.	P <sub>tx</sub> P <sub>t</sub> (psia)	P <sub>t</sub> <sup>2</sup>	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-s</sup> )	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Cal. P <sub>w</sub>	P <sub>w</sub> P <sub>c</sub>
1.	732.2	536.1	0.5	0.3	0.04	536.1	169.8		86.9
2.	682.2	465.4	0.7	0.5	0.06	465.5	240.4		80.9
3.	638.2	407.3	0.8	0.6	0.08	407.4	298.5		75.8
4.	598.2	357.8	0.9	0.8	0.10	357.9	348.0		70.7
5.									

Absolute Potential: 2,000 MCFPD; n .96COMPANY Dalport Oil CorporationADDRESS 930 Fidelity Union Life Bldg. Dallas, TexasAGENT and TITLE W. C. Smith Vice-PresidentWITNESSED Smith & BlumerCOMPANY El Paso Natural Gas Co

## 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  $P_t$ .