## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

Eumont

Pool Eumont	·		_Formation	n Quee	n	·	County	Lea		
Initial X										
Company Sin										
Unit <u></u>								· <b></b>		
							rf. 3724 To 37281			
Tubing 2"	Wt. <u>4.7</u>	I.D	<b>1.995</b> Se	et at 3,	<b>703</b> Pe	rf. <u>O</u> p <b>e</b>	<u>n</u>	To		
Gas Pay: From To L 3703 xG .672 -GL 2488 Bar.Press. 13									ess. <u>13.</u> 2	
Producing Thru	: Cas	ing	Tı	ıbi.ng	X	Type We	ell Sing:	le		
Date of Comple	tion:_]	12-12-57	Packe	r Set 0	3,685'	gle-Brade Reservo	ennead-G. oir Temp	G. or (	i.O. Dua⊥	
				OBSERV	ED DATA					
Tested Through	(Prov	er) <del>(Chok</del>	e) (Meter)	<u>-</u>			Type Tap	s		
α	ਜ	low Data	T m. 1			ng Data   Casing Data				
(Prover)	(Cho	ke) Pre	ss. Diff	Temp.		Temp.	Casing D	Tom	Duration	
No. (Line) Size	(Orif	ice)	i a h	o <sub>F</sub> .	psig			ļ	of Flow	
SI			TR IIW	F •	709		psig	r.	Hr.	
. 211	3/16				672	67			72	
211	7/32				658	70	(Packs	r)	3	
2"	1/4 5/16				631	70			3	
2"	3/8				557 487	69 69		ļ	24	
Coefficient (24-Hour)			h <sub>w</sub> p <sub>f</sub> Pressure		tor	Gravity Factor Fg	Factor F <sub>pv</sub>			
			<u>- 685.2</u>		<del></del>	-9463	1.073		543	
1.4030	<del></del>		671.2	<u>•9905</u>		9463	1.071		730	
2.1577		- 644.2 - 570.2		.9905 .9915		9463	1.057 1.053		904	
3.0691		****	500.2	9915		9463 9463	1.000		1,226 1,517	
s Liquid Hydro avity of Liqui 9.936	ocarbon Id Hydro	Ratio Docarbons (1-e-5	ry gas	cf/bbldeg.	ALCUI.ATIC	Speci	fic Gravit	ty Sepa ty Flow Pc	rator Gas672 ing Fluid672	
P <sub>w</sub> Pt (psia)	Pt <sup>2</sup>	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>0</sub>	cQ) <sup>2</sup> -e <sup>-s</sup> )	P <sub>w</sub> 2	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Ca P	w Pc	
685.2 671.2	469	5.395	29.11	4	57	473.9	48.6	688.5	95.3	
671.2	451 415	7.253 8.982			26 67	458.7	62.9	677.3	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
. 570.2	325	12.182	30.68		30	427.5 348.4	94.1 173.2	653.8		
. 500.2	250	15.072	227.17		.67	285.8	235.8	534.6		
bsolute Potent	ial: 2	2.410		MCFPD;		55				
OMPANY Sinc	air 0 8								· · · · · · · · · · · · · · · · · · ·	
DDRESS Box J		_Midland,						····		
GENT and TITLE	, кау	Lord	Gas Anal	yst	<del></del>					
L'INESSED										
WINDHY	·			REMA	ARKS					
				r chinkly	-1117					

## 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  $\equiv$  Actual rate of flow at end of flow period at W. H. working pressure (P<sub>w</sub>). MCF/da. @ 15.025 psia and 60° F.
- $P_c$  72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- Pw- Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- Pt Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- $P_{f}$  Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fnv Supercompressability factor.
- n I 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  $P_+$ .