## Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool _	Wilde	at		Formatio	n D	ako ta		County	San Ju	671
Initia	nitial X Annual_			Special				Date of	Test_	y 21, 1960
Compar	ту_Сожра	ss Exp	loration,	Inc.	_LeaseC	ity of	Parming to:	wel.	l No	1-4
Unit	<b>B</b> (	Sec4	Twp	29 N R	ge13W	Pur	chaser_E	l Paso Nat	ural Ga	s Company
Casing	4 1	/t.9.58	11.6 <sub>I.D.</sub>	4.090 4.000 Se	et at _ 63	<b>04</b> F	erf <b>59</b> 6	96	To6	104
							erf. 600			
Gas Pa	y: From_	5986	_To616	14 L 60	0 <b>63</b> x	G0.6	5GL3	<b>954</b>	Bar.Pre	ss. 12.0
Produc	ing Thru:	Cas	sing	T	ubing	x	Type We	ell <b>Si</b> n	gle	
Date o	of Complet	ion:_	May 13, 1	960 Packe	er	Si	ngle-Brade Reserve	enhead-G. ( oir Temp	G. or G 146°F	.O. Dual
					OBSERV	ED DATA	•			
Tested	Through	<u>(778</u>	Chok	( <b>Meeer</b>	)			Type Tap:	<b>s</b> _	
			low Data			Tubin	g Data	Casing Da		
No.	(Trover) (Line)		ke) Pre	ess. Diff	Temp.	Press	. Temp.		Temp.	Duration of Flow
İ	Size	1 -	ze ps	sig h <sub>w</sub>	°F.	psig		psig	<sup>⊃</sup> F∙	Hr.
SI l.					-	1777		2037		
2 <b>.</b> 3.	2	3/4	18	19				509	88	3 hrs.
4. 5.								7-7		
		L	<del></del>	<del></del>	ET OW CAT	חוד א חור	ing	<u> </u>	<b></b>	
No.									Rate of Flow	
	(24-Hour) $\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$		psia Fact		tor Factor Fg		Factor F <sub>pv</sub>		Q-MCFPD 15.025 psia	
L. 2										
3. 1	12.365			501	0.9741		0.9608	1.010		2364
ţ. 5.										
				PF	RESSURE CA	ALCUIAT	IONS			
	uid Hydro				_cf/bbl.			fic Gravit		
ravity of Liquid Hydrocarbons 9.402 (1-e-				deg.			Specific Gravity Flowing FluidP <sub>C</sub> 2049 P <sub>C_</sub> 4198.401			
<del></del>					·····			γ	·•	·
No.	W	$P_{\mathbf{t}}^2$	F <sub>c</sub> Q	$(F_cQ)^2$	2 (F	$(Q)^2$	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Cal	. 7
	t (psia)		-		(1-	-e <sup>-s</sup> )			P	P <sub>C</sub>
	201	40.40	1 22.226	494.00	123.	io	259.081	3939.320		1.066
5.									<del> </del>	
bsolu	te Potent	ial:	2,480		MCFPD;	n 0.75	/1.0490		<del></del>	
COMPAN' ADDRES	s 164	Cour	xploration	Denver, Ce	lorado					
GENT :	and TITLE		M. B. JOI	NES	Morri	s B. J	ones, Cons	ulting Eng	ineer	
COMPAN					REMA	IRKS		/	OFF	WA.
-					teru.n.				LANGE	4 3000 J
								(	MAY ZA Orlicol	4 1960

## 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 I 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
- Pt Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- $F_g$ : Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n I Slope of back pressure curve.
- Note: If  $P_{\mathbf{W}}$  cannot be taken because of manner of completion or condition of well, then  $P_{\mathbf{W}}$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_{\mathbf{t}}$ .

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