Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Tapacito Pictured Cliffs Formation									Pictured Cliffs				County Rio Arriba			
Init	ial_	X	<u> </u>		Annu	al			Spe	Special Date of				rest <u>9-26-64</u>			
Comp	any_	Sout	ther	n Un	ion Pr	oduc	tio	Co. I	ease_	McCrod	en.		Wel	1 No	3_		
Unit		0	_Sec	<u>3</u>	Tw	o	15-N	Rge	. <u>3-4</u>	Pur	chaser	Sou	thern Un	ion Gas	Comp	any	
Casi	.ng	4-1/2	_Wt.	9.	50_I	.D	4.09	O Set	at_3	861, F	erf	3780		To	308		
Tubi	ng	1-1/2	_Wt.	2.	90_I	.D	1.61	LO Set	at	1 72 7 I	erf	3717		To3	27		
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	Producing Thru: Casing Tubing IX Type Well Single Gas Single-Bradenhead-G. G. or G.O. Dual																
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		Size		Si	ze	ps	ig	h _w	o _F .					°F.		Hr.	
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4. 5.			+				-				- -	+			+		
<u> </u>				····													
		- 661		. 1			Desa			LCULATIO		-1+	Compre		Pate	of Flow	
No.	Coefficient			- 1				ŀ	Flow Temp. Factor		Factor		Facto	r	Q-MCFPD @ 15.025 psia		
		(24-Hour)			$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$		р	sia	Ft		Fg		Fpv				
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2. 3.		·															
4.																	
5.												 			L		
as I Fravi	PRESSURE CALCULATIONS as Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Specific Gravity Flowing Fluid Pc 776 Pc 602176																
T	$P_{\mathbf{w}}$,		T	/\2	T	(= a)2			$P_c^2 - P_w^2$		_,		
No.	Pt (psia)		.)	$P_{\mathbf{t}}^2 \mid \mathbf{F}$		r _c Q (1		$(F_cQ)^2$	$(F_cQ)^2$ $(1-e^{-s})$		P _w 2		• "		al. P _w	P _w P _c	
1. 2.											28090	0	32127	6		.683	
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cc:	cc: (1) Mr. Bob Corliss - Gas Co. cs: (1) Mr. Rudy Motto - Gas Co.																
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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.
- Fg Gravity correction factor.
- F_t 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 $P_{\mathbf{t}}$.