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

Poo]	Beein	Bahata	Fc	rmation		eketa		_County	Rio	Arriba	
Init	ial	An	nual		Spec	ial		_Date of	Test	10-16-63	
	oany MY A										
Unit	. <u> </u>	Sec	Twp	Rg	e. <u>4</u>	Purch	naser 11	Paso Natu	ural Ga	e Company	
Casing 4-1/2 Wt. 10.5 I.D. 4.090 Set at 8320 Perf. 8618-8034 To 8654-8666											
Tubi	ng 2-3/8 W	t. 4.7	_I.D. <u>1.9</u>	95 Se	t at 800	Per	f. Open	ind	To		
Gas Pay: From 8016 To 8666 L 8042 xG .70 estGL Bar. Press. 12											
Producing Thru: Casing Tubing Type Well State											
Producing Thru: Casing Tubing Type Well Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 9-19-63 Packer Reservoir Temp.											
						ED DATA					
Test	ed Through	(Parameter)	(Choke)	(Mediana)				Туре Тар	s	Lange	
Flow Data				Tubing			Data Casing Data			· · · · · · · · · · · · · · · · · · ·	
	(allowers see)	(Choke)	Press.	Diff.	Temp.	Press.		Press.	Temp.	Duration	
No.	(Line) Size	Size	psig	h.	° _F .	psig	o _F .	psig	1	of Flow Hr.	
SI	27 4070	 	1 -0	 "		2300		2410			
1.		9.750	230			360		686	600	3 brs.	
2.											
3. 4.		 		-							
5.											
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	FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow									Rate of Flow	
No.				1	Fac	tor Factor		Factor Q-MCFPD		Q-MCFPD	
	$(24-Hour)$ $\sqrt{h_{W}}$		h _w p _f					L bA		15.025 psia	
1. 2.	12.3650		241		1.000		.9258	1.628 2548		2040	
3.											
4. 5.											
5.1					to the second se						
				PR	ESSURE C	alcui ati o	ons				
aa T	iouid Hydno	aanhan Da	tio.	· ·	of /bbl		Speci	fic Gravi	t.v Sena	arator Gas	
Gas Liquid Hydrocarbon Ratio cf/bbl. Gravity of Liquid Hydrocarbons deg.							Specific Gravity Separator Gas Specific Gravity Flowing Fluid				
P_c 2422 P_c^2 3,864,684											
	$P_{\mathbf{W}}$	2				2		2 2			
No.		$P_{\mathbf{t}}^{2}$	F _c Q	$(F_cQ)^2$	(F	_{c2)} ²	$P_{\mathbf{w}}^2$	$P_c^2 - P_w^2$	r .	P _w	
- 	Pt (psia)					-e ^{-s})	87,204	5,378,80	<u>.</u>	P _w P _c	
2.									1		
3.								1			
4. 5.								<u> </u>	+		
	lute Potent		3639		MCFPD;		.75	•			
		AMERICAL		M 60870	PAT 100						
	ESS Bea	480, Pas	mington,		ico						
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	PANY	1. v.	Poell	<u> </u>				/AI	ULIY	LD /	
					REM	ARKS		1	T181	963	
								1 00	1101	COM.	
								OIL	CON. DIST.	3	
								1	ייבוע	- /	

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_W). 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
- P_t Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- $h_{\mbox{w}}$ Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{DV} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If $P_{\rm W}$ cannot be taken because of manner of completion or condition of well, then $P_{\rm W}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\rm t}$.