MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poo	Undesignated Formation Pictures					red Cli	d Cliffs County Rio Arriba						
Initial X Annual Special Date of Test 10-22-60										0			
Com	pany August	. & Wa	zg ense	ller		_Lease;	icarill	Apache	Wel	.1 No	21-12	B-1	
Unit Sec. 12 Twp. 23N Rge. 3W Purchaser RT Pago Natural Gas Co.													
Casing 1/2 Wt. c.5 I.D. 1.090 Set at 3097 Perf. 2098 To 3008													
Tubing 2 3/8 Wt. 4.7 I.D. 1.995 Set at 3003 Perf. 3003 To													
Gas	Pay: From_	2 998	_To_3	CO8	L_	3003	xG_0_65		952	Bar.Pr	ess. <u>1</u>	2.0	
Pro	ducing Thru:	Cas	sing			lubi.ng	X C	Type We	ellsir	wla	<u> </u>	7	
Date	e of Complet	ion:_	10-12	<u>-60</u>	Pack	cer		Reserve	oir Temp.	125		uaı	
		No.											
Test	ted Through	Pro	ver) (Choke) (Meter	•)			Туре Тар	s			
		I	low Da	ata			Tubin	g Data	Casing D	ata			
No.	(Prover) (Line)	(Cho (Ori	oke) ficel	Pres	s. Diff	Temp.	1	•		1			
	•	S	ize	psi	g h _w	o _F .	psig	°F.	psig	°F∙	<u> </u>		
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2. 3.			•						3.60			•	
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<u>5. l</u>													
	Cooffici	ant.	 		Programa	FLOW CAI	LCULATIO	NS Constitute	Commo		Dot o	e Flore	
No.					rressure	Fac	ctor	Factor	Facto	r	Q-MC	FPD FIOW	
-	(24-Hou	r)	$\sqrt{h_{\mathbf{w}}^{\mathbf{p}}\mathbf{f}}$		psia	1	Ft	Fg	Fpv		@ 15.025 psia		
1. 2.													
3. 4.	12.365		 		85	1.000		0.9608 1.00				1.020	
5.													
					F	RESSURE (CALCULAT	IONS					
as I	Liquid Hydro	carbor	n Ratio)		cf/bbl.	•	Speci	fic Gravi	ty Sepa	arator	Gas	
	-	d Hydr	rocarbo	onss	200		•					luid	
C	9-402		\-	L -C	/_0 .132		-	· c——		_, c_ <i>-94</i>	<u> 19-725 </u>		
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No.	Pt (psia)	Pt	Fc	,Q	(F _c Q)		FcQ) L-e-s)	P _w 2	Pc-Pw			P _w P _c	
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2 • 3.								44-521	902.208			1.049	
3. 4. 5.					 		+			+		·	
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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 \Box 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
- 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.
- F_g : Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{DV} 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_{t} .

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