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

Pool Blanco Mesaverde				Fo	Formation Mesaverde				CountySan Juan				
Init	ialX_		Annu	al		Spec	ial		_Date of	Test	10-1-	57	
Compa	any Blackee	od &	Michol	s Compa	iny	Lease_ I.	E. Blar	oo Unit	We	ll No	51-29)	
Unit	S	ec2	9 _Tw	p. <u>31</u> 1	Rg	e. 7W	Purc	haser	l Paso Na	tural (las Co	mpany	
Casi	ng 5-1/2" W	t. <u>1</u>	5 .5 I	.D. 4.9)50" Se	t at _58	04 Pe	rf 5	218'	_To	56941	·	
Tubir	ng <u>2-3/8</u> W	t	4.7 I	.D. <u>1.</u>	95" Se	t at 56	Pe	rf <u>5</u>	5601	To	55721		
Gas I	Pay: From_	5218	_To_5	6941	_L 5	700 x	G655_		3733	_Bar.Pr	ess	11.5	
Produ	ucing Thru:	Cas	sing		Tul	bing	I Sin	Type We	ell Sing	le Ges	G O	Dual	
	of Complet												
						OBSERV	ED DATA						
Teste	ed Through	Î	(Coc)	Choke)	(Years)				Type Tap	os			
			low Da				Tubing		Casing I		I		
No.	(Prover) (Line)		oke) fice)		Diff.	Temp.	Press.	Temp.	Press.	Temp.		Duration of Flow	
	Size		ize	psig	h _w	°F.	psig	°F.	psig	[⊃] F•		Hr.	
SI							1112		1107				
1. 2. 3.		3/	4*				377_		978	+	+-3	hrs.	
3 .													
4.											.		
5.								<u> </u>	L	1			
					1	FLOW CAL	CULATION	S					
	Coefficie	ient Pressure Flow Temp. Gravity											
No.	(2) Have	- ì	_ / h ,	_	neia			Factor			Q-M0	0 <u>4</u> PD .0 25 psia	
<u>-</u> -	(24-Hour)		$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$			Ft		Fg	Fpv		4804		
1. 2. 3. 4.	12.3650				388.5						44		
3.													
4.						·							
<u> </u>											L		
					PRI	ESSURE CA	ALCU ATI	ons					
		1	Dati.			cf/bbl.		Snooi	lfic Gravi	itu San	anata	» Cae	
	iquid Hydro ty of Liquio					deg.			fic Grav				
c			(1-e ^{-s} ∑				Pc	1123.5	_Pc	126		
	$P_{\mathbf{w}}$												
No.		Pt	F F	cQ	$(F_cQ)^2$	(F	_c Q) ² -e−s)	P_{w}^{2}	$P_c^2 - P_w^2$	C	al.	$\frac{P_{\mathbf{w}}}{P_{\mathbf{c}}}$	
	Pt (psia)					(1	-e ^{-s})				Pw	.88	
1. 2. 3. 4.								979	283				
3.													
4.									 	- 			
			.			MORRE			1				
	lute Potent: ANY Black				nenv	MCFPD;	n0	•75					
ADDRI	ESS P. O.	Box 1	237.	Dagango	Color	do							
	r and TITLE	<u>\</u>	8	Linto		W. J.	Linton	. Petrole	um Engine	POP		E	
COMPA	ESSED ANY							_			M.	THE .	
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												To the state of	

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
- 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
- Pf Meter pressure, psia.
- $h_{\mathbf{w}}$ Differential meter pressure, inches water.
- F_{g} 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 $P_{\mathbf{t}}$.

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