MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revi	sed	12-	-1-	٠5	5

Pool	1 Aztes 1	Pictur	ed Cli	ffs	Formation	Pic	ctured C	liffs	County	San	Juan	
Ini	tialK_		Annu	al		Spe	cial		Date of	Test_I	ebru	v 3. 1960
Company Southern Union Gas Company												
Unit	N S	Sec3	3_Tw	p. 2 9	N Rg	e. 10	I Pur	chaser	Southern	Union (as Co	mapny
Casi	ing 51 W	t. <u>15.</u>	<u>5</u> 1	.D. 4.	9 50 Se	t at	2 099 F	erf. 1997		То	2052	
Tubi	ing 2"EUE W	t. 4.	<u>7_</u> I	.D. 1.	995 _Se	t at	1990 I	erf. 1980		То	1990	
Gas	Pay: Fron_	1997	To	2052	L		xG_0.67	EstGL_		Bar.Pr	ess	12.0
Prod	lucing Thru:	Ca	sing		Tu	bing	X Si	Type We	ell <u>Singl</u> enhead-G.	e - Gas G. or	G.O. I	Dual
Date	e of Complet	ion: <u>J</u>	an. 27	196	O Packe	r						
							VED DATA					
Test	ed Through	173.70	erik (Choke) Mesosari	.			Туре Тар	aps		
	(Prover)		rlow Da		B. Diff.	Temp.		g Data . Temp.	Casing D		1	Duration
No.		(Ori	fice)		g h _w	_		o _F .	psig	o _F .	1	of Flow Hr.
SI							560		567			7 days
1. 2. 3.		3/) in	165		65	165	65	362	 	┿~	3 hrs.
3.												
<u>4.</u> 5.							 	 			<u> </u>	
						FLOW CA	LCULATIO	NS				
	Coeffi:i	ent		F	ressure	Flow	Temp.	Gravity				of Flow
No.	(24-Hour) $\sqrt{h_{W}}$		-	f psia		ctor F _t	Factor F _g	r Factor F _{pv}		@ 15.	@ 15.025 psia	
1.	12.3650				177	0.9	952	0.9463	1.0	18	2,098	
3 _e												
1. 2. 3. 4.												
			L			PCCUDE /	OA COUT AT	TONG		,		
							CALCUIAT				- 4	0 1
	iquid Hydro ty of Liqui					cf/bbl deg			lfic Gravi lfic Gravi			
			(]	L-e ⁻⁵)			<u>-</u>	Pc	579	_P2	335.2	
_								Pw	374	Pw2	139.9	
No.	$P_{\mathbf{W}}$	Ρŧ	2 6	,Q	$(F_cQ)^2$		F 012	P _w 2	$P_c^2 - P_w^2$	۲.	al.	P
NO.	Pt (psia)	rt	F	3	(rew)	($\left[\begin{array}{c} \mathbf{F_cQ} \\ \mathbf{1-e^{-s}} \end{array}\right]$	r w ^z	1 C_1 M	i	P _w	Pw Pc
<u>j.</u>								139.9	195.3			0.646
3.										<u> </u>	<u> </u>	
1. 2. 3. 4.										+		
					 	Manne			<u> </u>			
COMP	olute Potent		3,31 NTON G		MPANY	MCFPD	; n	1485				
	ESS P.O.	Box	815. F	armin	gten New	Mexico	L					
WITN	T and TITLE ESSED		lhert	Nolan	d, Ir. =	Engines	P					
COMP	PANY					17.17	MARKS					
						K.L.	CANAM		COEN	150		
								,	/RILLI	AED,		
			CERS 1960						rep.5			

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.
- hw Differential meter pressure, inches water.
- Fg 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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