MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool	Wildcat]	Formation	Dakot	<u>. </u>		_County	San Ju	ian		
Init	ial <u> </u>		Annu	al		Spec	ial		_Date of	Test	ot.	21, 1959	
Compa	any Southe	rn Uni	on Gar	Comp	eny .	Lease	Federal	. Hye	Wel	1 No	_1_		
Unit	<u> </u>	Sec	O Tw	p 31	n Rg	e. <u>12W</u>	Purc	haser So	uthern Un	ion Gas	Com	perry	
Casi	ng 53.0 h	lt. <u>15.</u>	5# _I	.D	.950 Se	t at 71	73 Pe:	rf. <u>6948</u>		To	70hli		
Tubir	ng 2-3/8" W	/t	7# _I	.D	.995 Se	t at 69	Per	rf. <u>6945</u>		То	591.8		
Gas I	Pay: From_	6948	_To	70kh	L6	2 <u>48</u> ×	G <u>.670</u>		655	Bar.Pr	ess	12.0	
Produ	ucing Thru:	Cas	sing		Tu	bing	T Sin	Type We	ll Duel	Ges -	Cos	Dual	
Date	of Complet	ion:_	Sept.	30, 1	959 Packe	r <u>6500</u>		_Reservo	ir Temp.	G. OF		Duai	
						OBSERV	ED DATA						
Test	ed Through	I PED		Choke	(MALES	K			Type Tap	s			
			low D				Tubing		Casing D		Ţ ~		
No.	(Prover) (Line)		oke) fice)			•		· ·		Temp.		Duration of Flow	
SI	Size	S	ize	psig	g h _w	o _F .	psig	°F.	psig	[⊃] F•		Hr.	
1.			3/4"	128		64	2097			ļ	 	21 days 3 hours	
2 . 3 .										<u> </u>	<u> </u>		
4. 5.										 	-		
	· 	!				DT OW CAT	CULATION	<u> </u>		<u> </u>	. 		
	Coeffici	.ent		I	ressure	Flow	Temp.	Gravity	Compre	ss.		of Flow	
No.	(24-Hour)		$\sqrt{h_{wl}}$	√ h _w p _f psi				tor Factor		Factor F _{pv}		Q-MCFPD @ 15.025 psia	
1.	12.365				140	1ho 0.996		0.9463	1.015		1,521		
3 _e													
1. 2. 3. 4. 5.													
					PR	ESSURE C	ALCU ATI	ONS					
as Li	iquid Hydro	carbo	n Ratio	O		cf/bbl.		Speci	fic Gravi	ty Sepa	arato	r Gas	
ravit	y of Liqui		rocarb		0.287	deg.		Speci	fic Gravi 2109	ty Flo	wing	Fluid	
c).h02		(.	T-6 - 1	/ 0,201		•	¹ C	2207	c <u>-</u>	desto		
	$P_{\mathbf{W}}$,	2 7		(7.0)2		0)2	D 0	$P_c^2 - P_w^2$.,	D.	
No.	Pt (psia)	P		c ^Q	$(F_cQ)^2$	(1	cQ) ² -e ^{-s})	P _w 2	"		al. Pw	P _W P _C	
1. 2. 3. 4.	11:0 19.6		6 11.29		200-119	57.	34	77.14	4371	275.6		.131	
3.				v.									
4. 5.	_ 									1			
	Lute Potent	ial:_	6541			MCFPD;	n0	.75					
			FION G		PANY eton. No	Marino						.	
AGEN?	and TITLE	_The	me K.	Feen	Facing	E							
	ESSED Mr. ANY Chic			urang	o Colora	do							
	7	- 				REM	ARKS	(or	WILL	`			
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						Notice to the second se		1 06	, ~ <u>~ ~ CO</u>	📭 Sangkanara 🖜	g. 444 - 10 - 244	Marian Company of the	

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 371, 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
- Pt Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- $h_{\mbox{W}}\mbox{{\fontfamily{\fontfamily{1.5}{l}}}}$ 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_{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_{+} .

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