MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	FAULAS	d	·····	F	'ormation	· 	7. C.		_County_	San	luan_	
Init	ial	· · · · · · · · · · · · · · · · · · ·	Annua	21 <u></u>		Spec	ial		_Date of	Test_	7-6-5	
Compa	any Se	uther	unior	Gas	Co.	Lease_ 🍹	oster_		We:	ll No.		
Unit	m 1/4 S	ec	Twṛ	_26	Rg_Rg	e	Pur	chaser_	ethera li	alon G	e Com	
Casir	ng 5 1/2" W	t. <u>1</u>	. 5 I.	.D	Se	t at_	67 _P	erf		To	75	
Tu bir	ng 1 1/4" W	t	7 _I	.D	Se	t at 🏥	28 P	erf		To		
Gas I	Pay: From_	2245	_To1	5	L	KK	G 0.66	<u> </u>		Bar.Pı	ress	12.0
	ucing Thru:											
Date	of Complet	ion:	5-11-4	16	Packe	r #	Si	ngle-Brade Reservo	nhead-G.	G. or	G.O. I	Oual
	01 00mp100		<u> </u>				ED DATA		,			
		(description of the second	·		(ED DATA					
este	ed Through				(REIEE)				Type Ta			
	(Prover)	(Chc	Flow Da		Diff	Temn.	Tubing Press.	g Data Temp.	Casing Press.	Data Temp	_	Duration of Flow Hr.
vo.	(Line)	(Orif	cice)	11000	Barre	10mp.	1000	10,000	11000	2		of Flow
_	Size	Si	ze	psig	h _w	°F.				F.		Hr.
SI L.		3/4		38	 	*	105		805	-	+	house
2.		3/4					30			<u> </u>		
3.												
5.					 			+		+	+	
<u> </u>	Coeffici	ent.		T P		FLOW CAL		NS Gravity	Compre	ess.	Rate	of Flow
lo.	(24-Hour)			1		Factor F _t		Factor	Factor		Q-MCFPD	
			√ h _w p	f	psia			Fg_	Fpv		@ 15.025 psia	
2. 3.	12, 1650				50	1.096	9	0.9535	1.6	105	- 01	
3.												
	 										 	
<u> </u>											<u> </u>	
					PR	ESSURE C	CALCULAT	IONS				
as Li	iquid Hydro	carbon	Ratio)		cf/bbl.	ı	Speci	fic Grav	ity Ser	parato	Gas
ravit	y of Liqui	d Hydr	ocarbo	ns_		deg.	ı		fic Grav			
			(]	Le ^{-s} ∑			-	Pc	817 50	_P _c	667.	47
												
io.	$P_{\mathbf{W}}$	P _t	F	a	$(F_cQ)^2$	(F	2-0)2	P _w 2	$P_c^2 - P_w^2$		Cal.	P.,,
	Pt (psia)	^ T	. 10	; ~	(104)	(1	$(c^{Q})^{2}$ $(-e^{-s})$				P _w	Pw Pc
								2.5	664.99			0.001
												
5.												
				610*	<u> </u>			0.85	L			
bsol COMP/	Lute Potent ANY	ial:				MCFPD;	n	7497				
DDRI	ESS											
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COMPA											PFR	
						REN	MARKS			/Ri	1.14	
		orrec	ted Co	971	620*					(3 pm/s)	ari i	100
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										OIL C	ON 🗛	
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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 I Actual rate of flow at end of flow period at W. H. working pressure ($P_{\rm W}$). MCF/da. @ 15.025 psia and 600 F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- P_{w} 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.
- $h_{\mathbf{W}}^{\perp}$ 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 $P_{\mathbf{W}}$ 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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