MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poo	1 <u>Undesig</u>	nated	Fo	rmation	Da	kota		_County_	San	Juan
Ini	tial_X	Ann	ual		Sp ec	ial		_Date of	Test	7/8/60
	pany South									
Uni	t <u>K</u> s	Sec. 18 Tv	mp_ 30N	Rge	. 11W	Purc	haser	l Paso	Natura	al Gas Co.
Cas	ing 4½" W	t.11.60	.D. 4.0 0) Set	t at_ 66	000Pe	rf6334	!	To_ 65	504
	ing 2 3/8" W								To 64	180
	Pay: From_									
Prod	ducing Thru:	Casing_		Tul	oing X		Type We	all Sin	gle Ga	18
Date	e of Complet	ion: 5/18	/60	Packer	·	Sin	gle-Brade Reservo	enhead-G. oir Temp	G. or (G.O. Dual
	_			_		ED DATA		_		
Test	ed Through	(BOOKKK) (Choke)	(MAKKY)				Туре Тар	ıs	
		Flow I				Tubing	Dat.a	Casing D		· · · · · · · · · · · · · · · · · · ·
		(Choke)	Press.	Diff.	Temp.	Press.			Temp.	
No.	(Line) Size	(Orifice) Size	psig	h _w	°F.	psig	°F.	psig	[⊃] F•	of Flow Hr.
SI		3/4"	310		82	1864 310	82	1864 630		40 days
1. 2. 3.		3/4	310		- 62	920				o nzs.
3. 4.			 							
4.] 5.										
<u>—</u> г	Coeffici	ent				CULATION	S Gravity	Compre		Rate of Flow
No.		, , , , , , , , , , , , , , , , , , , ,			Fact	tor	Factor	Facto		Q-MCFPD
, 	(24-Hou 12.3650	r) $\sqrt{h_w}$	- L -	322	0.979		F _g 0.9463	F _{pv}	31	@ 15.025 psia 3,805
1. 2. 3. 4. 5.	12.000									
ر 4.										
<u>5. l</u>					- 					
				PRE	ESSURE CA	ALCU'ATI	ONS			
	iquid Hydro ty of Liqui				cf/bbl.deg.		Speci	fic Gravi		rator Gas ving Fluid
			1-e ⁻⁵)				P _c	1864	_Pc	3474,5
							Pw	642	Pw2	412.2
No.	$P_{\mathbf{w}}$	$P_{\mathbf{t}}^2 \mid \mathbf{F}$	·cQ	$(F_cQ)^2$	(F ₀	$(2^{Q})^2$	P_w^2	$P_c^2 - P_w^2$	Ca	Pw Pc
1.	Pt (psia)				(1-	-e ^{-s})	412.2	3062.3	F	P _C P _C
2.										
3. 4.									+	_
5.										
Absc	lute Potent	ial: 4,33	37		_MCFPD;	n 0.7	5			
COMF ADDF	PANY South RESS 162	west Proc Petrole	m Cent	er Bld	ny g., Fai	rmingto	n, New	Mexico		
AGEN	T and TITLE ESSED	Georg	e L. H	offman	Produ	uction	Foreman			
	PANY							/aFil		
					REMA	ARKS		65[]1\	IFD.	(₎ .

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
- Pr Meter pressure, psia.
- $h_{\mbox{w}}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft 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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