MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poo!	l Jalmat			_Formatio	n Seven		County Lea 107			
Init	cial	7	Annual		Spec	cial XX		Date of	Test	1/16/56 10
Comp	oanySke	lly 011 (Company		_Lease_S	teeler		We	ll No	7
Jnit	<u> </u>	Sec <u>17</u>	Twp2	23 S F	ge. <u>37 E</u>	Purc	chaser	ermian Ba	sin Pir	eline Company
Casi	ng 5-3 "	Wt. 14.0	#_I.D4	387 " S	et at 344	0¹ P€	erf. <u>2927</u>	,†	To 306	8'
'ubi	ng 2-3/8"	Wt. 4.7	I.D <u>1</u>	.99 5 # S	et at <u>362</u>	2' Pe	erf		To	
as	Pay: From	2924	To_3068'	L_ 2	324 x	G_0.660		930	Bar.Pr	ess. <u>13.2</u>
	ucing Thru									
ate	of Comple	tion: <u>4-</u>	9-54	Pack	er <u>3300</u>	Sir	ngle-Brade Reserve	enhead-G. oir Temp.	G. or	G.O. Dual
						ED DATA		_		,
'e s t	ed Through	(ABicover	K)X (ORKOW	Meter)			Type Tar	os	
		Flo	ow Data			Tubing	Data	Casing D	at.a	1
lo.	(Line)		Pres	ss. Diff	· Temp.		Temp.	Press.	Temp.	Duration
	Size	Size		ig h _w	o _F .	psig	°F.	psig	⊃ _F .	of Flow Hr.
I		<u> </u>						675.8		72 Hr. S.I.
•		0.75	4740		69			656.0		24 Hrs.
•	<u> </u>	0.75	476.		73			644.0		23-3/4 Hrs
-		0.75	.92.		68		<u> </u>	625.9		24 lira
	<u>4</u>	0.75	<u> 189.</u>	5 38.2	72			590.0		24 Hrs.
	3.515 3.515	ır) 7			Flow Fac F. 0.9915 0.9877	tor t	Gravity Factor Fg 0.9535		r	ate of Flow Q-MCFPD 15.025 psia 179 253
<u>- </u>	3.515	9	8.55		0.9924		0.9535	1.049		344
•	3.515	1.30	8.6		0.9887		0.9535	1.046		480
avit	iquid_ ty of Liqui			PH P	RESSURE CA cf/bbl. deg.	ALCUTATI	Speci			rator Gas_ ving Fluid
Т	$P_{\mathbf{w}}$		Γ							
	Pt (psia)	$P_{\mathbf{t}}^2$	F _c Q	(F _c Q) ²	[_(<u>+</u> .	Q) ² -e ^{-s})	P _w 2	$P_c^2 - P_w^2$	Ca F	P _W P _C
		447.8	0.3371	0.1136	0.01			26.9	669.2	0.97
+		431.9	0.4764	0.2270	0.02			42.8	657.2	
-		708°F	0.6478	0.4196	0.05			66.2	639.1	
+		363.9	0.9038	0.8169	0.10	13		110.7	603.3	0.88
J Sol	Lute Potent	ial • 1254	<u> </u>		MCFPD•	n_ 0.66			1	
)MP/	WY Skelly	Oil Comv	TANT		FIOF FD;	., U. 50				
DRF	ESS Box 38	Hobbs	New Mari	CO						
ENT	and TITLE		-IVE ALUAL				 			
	ESSED						· · · · · · · · · · · · · · · · · · ·		······	

REMARKS

COMPANY_

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 = Actual rate of flow at end of flow period at W. H. working pressure (P_W) . MCF/da. @ 15.025 psia and 60° F.
- Pc= 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.
- hw Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{pv} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If $P_{\rm W}$ cannot be taken because of manner of completion or condition of well, then $P_{\rm W}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\rm t}$.