MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

,ool	Dad	Dakota			_Formation	nDe	kota		County_	Sen	<u>Iven</u>	
nit	tialAnnual_			ual	Special				Date of	Test	August 1, 1960	
ompa	any Tenne	seen d	68 & 0	11 0	ompany	Lease	lvin J.	Payne (a	that We	ll No	"A" 1	
nit		Sec	19 Tw	ф 	2 9 W Rg	ge. <u>lo</u>	Purcl	haser				
asir	ıg <u>4 1/2 </u>	Wt	I	.D	Se	et at6	425 Per	rf 6 2	80	То	6391	
ubir	ng 🐅 T	Wt	I	.D	Se	et at	Per	rf		_To		
as F	ay: From	6,380	To	4391	L	x	:G	<u>=</u> GL		_Bar.Pr	ess	
	icing Thru											
ate	of Complet	tion:	Anount	1. 1	eso Packe	r No	Sing	gle-Brade Reservo	enhead-G. oir Temp.	G. or	G.O. Dual 56 F	
	-						ED DATA					
este	d Through	(Pro	ver) (Choke	e) (Meter)				Type Tar	15		
ested Through (Prover) (Choke) (Flow Data						Tubing Data			Type TapsCasing Data			
T		(Choke)		Press. Diff		Temp.		Temp.	Press.		j .	
۰,	(Line) Size				lg h _w	°F.	psig	°F.	psig	°F∙	of Flow Hr.	
-							1954		1951	ļ		
I			50	334			317		744		3.0	
#				<u> </u>								
!		<u> </u>		ļ					L	1		
1	FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of									Rate of Flow		
) ·	(24-Hour)		$\sqrt{h_{w}}$	$\sqrt{h_{w}p_{\mathbf{f}}}$ psi		Factor Ft		Factor F _g	Fpv		Q-MCFPD @ 15.025 psia	
7	12,3650			34				.8408	1.020		3,753	
土												
					PR	ESSURE CA	ALCULATIO	ONS			*	
Li	quid Hydro y of Liqui	carbo	n Ratio	° *	· Sep.	cf/bbl.		Speci	fic Gravi	ty Sepa	arator Gas	
V10	y or brown				Σ	deg.		Pc—	394	Pc	wing Fluid 8	
						···						
-	$P_{\mathbf{w}}$	P	F	_c Q	$(F_cQ)^2$	(F	_c Q) ² -e-s)	P_{w}^{2}	$P_c^2 - P_w^2$	Ca	P. P.	
	Pt (psia)	874				(1.	-e ^{-s})	-074	4809	1	P _w P _c	
+-	700	47.						014	3009			
\mp												
sol	ute Potent	ial:_		400		MCFPD;	n			. L		
MPA:			Ward.	4 Ja	nison Bag	incering	Company					
DRE		,	****		2111, Per		MAN FIGYT	***				
	and TITLE SSED	·——-	- John	War d	, Buginee							

Surface Pressures measured with dead weight tester

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.
- PcI 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.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fnv 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_{+} .