## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

100	- Sout	h bland	30	r	ormation	LICE	ared or	1118	county_	OFE AF	an .
Initial X Annual						Spec		Date of Test Narch 16, 1959			
Com	pany <b>Soo</b>	thern	Union G	as Com	pany	Lease	Navaj	o Indian	We	ll No	<u>lı-B</u>
Uni	t <u>D</u>	_Sec	<b>30</b> Tw	p. 2:	ZN Rg	e. <b>8</b> ₩	Pur	chaser_	Southern	Union G	as Company
Cas	ing <b>5}"</b>	Wt	15.5#_I	.D. 4.	<b>950</b> _Se	t at 21	<b>.02</b> P	erf2	010	_To	2060
Tub	ing 1"	_Wt	1.70#1	.D	Se	t at <b>20</b>	<b>21</b> P	erf <b>2</b>	001	То	2021
Gas	Pay: Fro	n 2010	To	2060	L	x	.G			_Bar.Pr	ess. <u>12.0</u>
Pro	ducing Thr	u: Ca	asing_		Tu	bing	I	Type W	ell	Single	- Gas
Date	e of Compl	etion:	March	7. 19	<b>59</b> Packe	r Non	Si	ngle-Brad Reserv	enhead-G. oir Temp.	G. or	G.O. Dual
							ED DATA				
Tesi	ted Throug	n <del>(Pre</del>	<del>ve</del> r) (	Choke)	(Motor)				Type Ta	ns	
			Flow D				Tubin	g Data	Casing		T
	(Prover				Diff.	Temp.		. Temp.			Duration
Nc.		(Ori	ifice)		h <sub>w</sub>						of Flow
SI	2126	-	Size 	psig	nw	r •	psig <b>632</b>	F.	psig 632	F.	Hr.
1.	***************************************	1	<b>∆ı</b> ¤	295		65	332	1	295	<del>                                     </del>	3 hours
2.											
3.											
4.											
5.				<b></b>					<u> </u>		<u> </u>
						ELON CAL	CIT AMTO	NC			
	Coeffic	iont	<del> </del>	D		FLOW CAL			Compa		Poto of Flore
No.	Coeffic	teur		Pr	essure	Fact		Gravity Factor			Rate of Flow Q-MCFPD
100 0	(24-Ho	(2111	$\sqrt{h_{WI}}$		psia						@ 15.025 psia
	\~4=1X		V			F		Fg	Fpv		
1.			<del></del> -		307	0.9952		.91:63	1.03	<b></b>	3,696
2.		<del></del>	+								<del></del>
3. 4.			+								
5.											
					PR	ESSURE CA	ALCULAT:	IONS			
	iquid Hydi					cf/bbl.		Spec	ific Grav	ity Sepa	arator Gas
Gravity of Liquid Hydrocarbons						deg. Spe					wing Fluid
"o			(	L-e <sup>-s</sup> )				Рс <b>—</b>	644	Pc	111.7
								•	344	p2 <sub>W</sub>	
	ъ						<del></del>		<u> </u>		110.3
No.	$P_{\mathbf{w}}$		2 F		$(F_cQ)^2$	(P	012	n o	$P_c^2 - P_w^2$	0.	
NO.	Pt (psia)		t   r	.Q	(r <sub>c</sub> (u)	(1)	<sub>cQ)</sub> <sup>2</sup> -e-s)	$P_{w}^{2}$	Pc-Pw	U C	Pw Pc
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$\frac{1}{2}$ .		+				<del></del>		118.3	296.4		
3.		1									
4.											
5.											
Lhan	lute Poter	tial.		,		MCPPD.	n -				
COMP	ANY	OFFICE PARTY	m union	040.00		MOFTD,	**0	-85			
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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  $(P_w)$ . 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.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- $F_{\text{DV}}$  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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