MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

. 17	L Co. Iwp 2	RgRg	Lease_L	englie '	.B.,	Date of		27/ 5-32-57 2
c. <u>15</u> . . <u>17</u>	Iwp2	RgSe	e. 37			We]	1 No	2
. <u>17</u> . <u>6.5</u>	_I.D	Se		Purc	. h o =			
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	_I.D	2		53 Pe	erf. 28	52	То	2072
852 To		Se	t at 👖	30 Pe	erf	 	То	
	2092	L_11	30 x	G <u>,660</u>		2066	Bar.Pre	ss. 13,2
Casing_		Tu	bing	X	Type We	ell Sin enhead-G.	10	- D - 1
on: 9	11-37	Packe	r <u> </u>	51r	ngle-Brade Reserve	enne ad-G. pir Temp. _	G. or G	
			OBSERV	ED DATA				
(Prover)	(Choke)	(Meter)				Type Tap	os	
Flow Data				Tubing	ng Data Casing		Data	
(Choke)	Press	Diff.	Temp.	Press.	Temp.	Press.	Temp.	1 0 t k' lot
Size	psig	h _w	°F.	psig	°F.	psig	°F∙	Hr.
		4		128				72
1,000								
1,000	300	16.41	10	305				24
AAVON!					<u> </u>			
Coefficient (FE)						Compress.		Rate of Flow Q-MCFPD
		p _f psia		•				@ 15.025 psia
10.20				.9535		1.033		244
72,54		.940			.9535			
80.	.22		.9664		9535	1.02		ATE
		PR	ESSURE C	ALCU ATI	ONS			1
arbon Rat	io		cf/bbl.		Speci	ific Gravi	t.v. Sena	rator Gas
	bons		deg.		Speci	ific Gravi	ty_Flow	ing Fluid
	(1 - e ^{-s})	0.133			F c	41.2	^{Pc}	194-7
						2 -		
P_{t}^{2}	F _c Q	$(F_cQ)^2$	(F.	$c_{-\epsilon}^{Q)^{Z}}$	P_w^2	$P_c^2 - P_w^2$	Ca	1. Pw Pc
		2,82		.38	142.7	52.0		<u>w</u>
				-61				
		7.78	1	.03	82.3	112.4	+	
2].			MCFPD.	n .	75	L		
		Corpore		**	~/			
	Flow (Choke) (Orifice) Size 1.000 1	Flow Data (Choke) (Orifice) Size psign 1.000 1	Flow Data (Choke) (Orifice) Size psig hw 1.000 1.00	Prover (Choke (Meter Flow Data (Choke Press Diff Temp. (Orifice Size psig hw OF.	Flow Data (Choke) Press. Diff. Temp. Press. (Orifice) psig hw OF. psig 1000 100 100 100 1000 100	Prover (Choke (Meter)	Prover (Choke (Meter Type Tape Flow Data Casing I	Prover (Choke) (Meter) Type Taps

REMARKS

WITNESSED 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 I Actual rate of flow at end of flow period at W. H. working pressure (P_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.
- $h_{\mbox{W}}^{-}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{DV} 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 $P_{\rm t}$.