MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

/	// Wild		দ	ormation		Morrow	1 1011 011	Gounty	Lea	,
Pool Wildcat Initial X Annual							Date of Test 1-18-62			
		Matural G								
Unit	B;	Sec. 28 T	wp. 1	9 Rg	e. 3 4	Purc	haser_			
		vt. 17.0							To 13	,148
Tubi	ng 2 3/8 V	vt. 4.7	I.D. 1	.995 Se	t at 13,	129 Pe	ri	/	То	
Gas :	Pay: From	vt. 4.7 13,325 To	13,415	L_13	,129 x	G .685		11,356	Bar.Pres	s. 13.2
Prod	ucing Thru:	Casing_	- 	Tu	bing	Asses	Type We	:11 81	ngle	
Date	of Complet	cion: 1	-7-62	Packe	r <u> </u>	114 114	gle-Brade Reservo	enhead-G. oir Temp	G. or G.	O. Dual
						ED DATA				
Test	ed Through	(Freuer)	(Cheke)	(Meter)				Type Tap	s F	lange
~		Flow I				Tubing	Data	Casing D	ata	
No.	(Line)	(Oheke) (Orifice)						!	! !	Duration of Flow
SI	Size	Size	psig	h _w	F.	psig 4615	°F.	psig	F.	Hr.
1.	4	1.500		3.0	86	2582				72 3
2 . 3 .	<u>t</u>	1.500	600	7.0	89	1745 1162				3
4.	4	1.500	600	11.0	95	760			 	3
4. 5.		1.500	599	11.0	94	1032				13 *
	Coeffici	ent.	Pr			CULATIONS	S	Compre	ss. R	ate of Flow
No.		, ,				tor	Factor Fact		r (Q-MCFPD
- -	(24-Hou	. 1 V W	A M. I		sia F _t		Fg	Fpv		15.025 psia
1. 2.	14.36 14.36		.89 .52		.974 <u>1</u> .9732		·9359 ·9359	1.06		595.6 9.3 409.3
3.	14.36		31	.9706			.9359	1.05		1,079
4. 5.	14.36 14.36		.06	.9			.9359 .9359	1.05		1,125
ravit		carbon Rati d Hydrocarb		3,817 .1 6 60	cf/bbl.	ALCU ATI C	ONS Speci Speci		ty Separa ty Flowin	(Assumed) ator Cas .685 ag Fluid 7543
- -						· · · · · · · · · · · · · · · · · · ·				
No.	Pt (psia)	$P_{\mathbf{t}}^2$ F	co	$(F_cQ)^2$	(F ₀	Q) ² -e-s)	P _w 2	$P_c^2 - P_w^2$	Cal.	Pw Pc
1.	8595.2		98	35.02	19	.0	6754.1	14666.1	2598.9	-56
3.	1758.2	3091.3 9 1361.1 10		81.63			3135.5 1443.4	18284.7 19976.8	1770.7	.38
4.	773.2	597.8 11.	.18	124.99	67		665.5	20754.7	815.8	
5.	1045.2	1092.4 11	.22	125.89	68	.2	1160.6	20259.6	1077.5	.23
Absol COMPA	vte Potent	ial:	1,185	Company	MCFPD;	n	.000			
ADDRE	SS	PAO. Nox 2	344	Al. Bet	Mexico					
	' and TITLE	Maria C	1. K	TACK	<u> </u>	John .	A. Disch	- Petrole	um Engine	ber
WITNE COMPA		L. D. South El Pago Hai		Bobby (
* ¥	fell was co Clowing 13 Clope great	maidered st hours of the er than 1.0	abilina a 24 ho	ed in 6 l	REMA	avoid w				
2	rate of flo	W.					•	-	-	-/ -/

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 \equiv 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
- P_t 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_{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_{t} .