NEW MEXICO OIL CONSERVATION COMMISSION

HOBBS OFFICE OCC

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR CAS WELLS

Poo		ront		Fc	rmation		116661		County			
Ini	tial		_Annu	al	Special			Š.	_Date of	Test	7	·5-56
	pany Gon											
	t <u> </u>										12	
	ing 5]/2" V											
	ing 2" V									•		
Gas	Pay: From	337	_To	3507	_ r 34	x x	G <u>්ර</u> ූල			Bar.Pre	388	13.2
Pro	ducing Thru:	: Cas	sing	I	Tu	bi.ng	Sin	Type We	ell <u>Si</u> enhead-G.	rele G or (<u> </u>	Dual
Date	e of Complet	ion:_	5-1]52	Packe	r	PASSED DITT	Reserve	oir Temp	0. or (7.0.	Dua1
						OBSERV	ED DATA					
Tes	ted Through	(Prov	en) (Choke)	(Meter)				Туре Тар	s	11	
	" 	F	low Da	ata			Tubing	Data	Casing D	ata	Τ	
			(Choke)		Diff.	Temp.	Press.		Press.		1	Duration
No.	(Line) Size	(Orif	-	psig	$h_{m{w}}$	$\circ_{\mathtt{F}_{ullet}}$	psig	°F.	psig	o _F .	ŀ	of Flow Hr.
SI				7	W		- 구성()	<u> </u>	r		-	
1.	į, n	1.0	XX)	460	92	<u> 68</u> 0	803				 	
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		4						 			<u></u>	
FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate												
No.	Coefficient			Pr	essure				Compress. Factor		Rate of Flow	
	(24-Hour)		$\sqrt{h_{\mathbf{W}}p_{\mathbf{f}}}$		psia	Ft		Fg	Fpv		@ 15.025 psia	
1.	6.135				73.2	0.9924		0.9393	7.300		1	1210
1. 2. 3.	9.643		175.8		83.2	0.9952		0.9393	2.083		1717	
3 o		13.99			75.2	0.9833		0.9393	1.067		2244	
4. 5.	22.58		<u> </u>	-13 5	93.2	3.2 0.992		0.9393		8	2323	
	Liquid Hydro ity of Liqui Pw Measu	d Hydr	ocarbo		t (all Strip)	cf/bbl.	alcu ati	Speci Speci	fic Gravit			
No.	Pw (Psia)	$P_{\mathbf{t}}^2$	F	0	$(F_cQ)^2$	(F	0)2	ъ 2	$P_c^2 - P_w^2$	<u></u>	1.	
	rexerna)	¹t	1,0		(rew)		Q) ² -e ^{-s})	P _w 2	LC_LM	F	W	$\frac{P_{\mathbf{W}}}{P_{\mathbf{C}}}$
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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 = 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
- PwT 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.
- Fpv 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 $P_{\rm t}$.