## NEW MEXICO OIL CONSERVATION COMMISSION

ELVIS A. UTZ
CAS ENGINEER CA

## HOBBS OFFICE OCC

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Eumont		<del> </del>	Fc	rmation	1955 UU1 Vates S	even Ris	TATE CHARL	_County_	Les		
											ly 5, 1956	
Comp	any Stanol	Ind Od	and Ges	Com	DANT.	Lease O.	J. (411)	illy "A"	We]	ll No	4	
Unit	B	Sec	Twp.	_20	Rg	e <b>36</b>	Pur	chaser Pe	rmian Basi	in Pipe	line Company	
	ng <b>7</b> # \										_	
	ng_2-1/2" \											
	-										ess. <u>13.2</u>	
	ucing Thru											
Date	of Complet	cion:	12-2-53	_	Packe	r	Sir	ngle-Brade Reserve	enhead-G.	G. or (	G.O. Dual	
					<del></del>		ED DATA			7W:1		
Te <b>st</b> e	ed Through	( Basa	om) (Choi	<b>~~</b> )	(Meter)		20 2		Type Tap	ne ne		
<del>-</del>	9										pa	
	(Preven)	(Ghe	low Data		Diff	Temp.	Tubing	Data Temp.	Casing D	Temp.	j Duration	
No.	(Line)	(Orif	ice)		D111 •	-			riess.	l	of Flow	
	Size	Si	ze ps	sig	h <sub>w</sub>	° <sub>F</sub> .	psig	°F.	psig	°F∙	Hr.	
SI	4-OH	2.0					935.9		935.5		71-1/2	
L.		2-0			9.6	_71	848.6		8/1.0		23-3/4	
2. 3.	4-Q#	2-6			13-2	-66	8,618		797.0		24-1/4	
+•	4.0"	2.0			22.6	69	764-1		720.8		24	
5.	4+O#	2.0	40	204	35.5	72	697.3	<del> </del>	626.9		23-3/4	
			•		τ	PT OW CAT	TIT A TOTAL	c		<del>• • • • • • • • • • • • • • • • • • • </del>		
T	Coefficient						CULATIONS Temp. Gravity		Compress.		Rate of Flow	
ю.	(2) Hours				1	Factor		Factor	Factor		Q-MCFPD	
	(24-Hour) $\sqrt{h_{w}p_{f}}$			psia		F <sub>1</sub>		Fg	Fpv		@ 15.025 psia	
2.	29.92				71.4 .989			-91-27	1.048		1969	
	29.92				76.0 .9943				1-051		2334	
	29.92 29.92		130-5		75.7 78.6	9924		-9427	1.051		3067	
	<del></del>	77+74 130+3			-4/348 -3/576			-9427	1.049		3821	
					ם מם	SSURE CA	L CITY A MT	OMC				
					1141	POOTE OF	TOOMIT	OMP				
s Li	quid Hydro	carbon	Ratio	)rv	Ges	cf/bbl.		Speci	fic Gravi	ty Sepa	rator Gas	
avit	y of Liqui	d Hydro	ocarbons_			deg.					ing Fluid	
	Pw Meagu		(1-e <sup>-</sup>	د	<del></del>			Pc\$	49.1	_Pc	200	
$\Box$	$P_{\mathbf{W}}$					1						
0.		$P_{\mathbf{t}}^2$	F <sub>c</sub> Q		$(F_cQ)^2$	(F <sub>c</sub>	Q) <sup>2</sup> -e <sup>-s</sup> )	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Ca	l. Pw	
	Pt (psia)					(1-	-e <sup>-s</sup> )		~ <b>**</b>	P.	$\begin{array}{c c} P_{W} \\ \hline P_{C} \end{array}$	
<del>:  </del> -	861.8			上				743	157		,907	
<del>:  -</del>	830.0					<del></del>		689	211	<del> </del>	187	
:	777.3			+-	<del></del>	+		604	296	<del> </del>		
	12000			1				505	395	†	. 74	
bsol	ute Potent:	ial:	7500			MCFPD;	n .	<u> </u>	<del></del>	· <del>/-</del> ,	<del></del>	
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REMARKS

## 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 ( $P_{\rm W}$ ). MCF/da. @ 15.025 psia and 60° F.
- Pc 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
- Pr Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fnv Supercompressability factor:
- n \_ 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  $P_{\rm t}$ .