## NEW MEXICO OIL CONSERVATION COMMISSION

## HOBBS OFFICE OCC

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS O

Revised 12-1-55

	Manont G			_						
Init	ial	Ann	ual		Spec	ial		_Date of T	est6-1;	3-56
Comp	any Amerada	Petroleum	Corpor	ation I	lease_J.	R. Phill	ips "A" G	as Unitell	No1	
	. <u> </u>									
	ng 6-5/8" W								3190-3	
	ng <b>2-3/8"</b> W								3380-	34201
	Pay: From_									
	ucing Thru:					x V	Type We	11		
	of Complet:								or G.O.	. Dual
	-					ED DATA	<del></del>			
Test	ed Through	(77.072)	((2000)	(Meter)				Type Taps	Pipe	)
Flow Data			Data			Tubing	Tubing Data		ta	
		(Choke)	Press.	Diff.	Temp.			Casing Da	Temp.	Duration
No.	(Line) Size	(Orifice)	neig	h <sub>w</sub>	o <sub>r</sub>	ps <b>i</b> g	o <sub>F.</sub>	psig	°F	of Flow Hr.
SI	Dize	5126	hare	W	F •	962.0	<del></del>	PD-E	11	72-1/2
ī.T	YR	2.250 <sup>H</sup>	A52.6	6.3	64	830.2				24
2. 3.	4"	2,250*	436.5	9.0	*	769.0				23-3/4
3.	<u> </u>	2.250# 2.250#	454.	16.0 18.8	60 62	587.3			<del></del>	23-1/2/
4. 5.		2.230	4344	40.00						
	,			τ	et out cat	CITATION	c			
	Coefficient		Pr	Pressure Flo		LCULATIONS Temp. Gravit		Compress. Rate of Flow		
No.					Fac	tor	Factor	Factor	9	MCTPB
	(24-Hou	$\mathbf{r}$ ) $\sqrt{\mathbf{h}}$	w <sup>p</sup> f	psia	F.	t	F <sub>g</sub>	Fpv	<b>@</b>	15.025 psia
1.	40.53			465.8	0.99		0.941	1.0		2127.2
2.	40.53			469.7 1.001 467.7 1.001			0.941			3441.9
20	40.53			165.b	0.99		0.941			3714.6
1. 2. 3. 4.	40.53		333	7.6	V2774					
				PRI	ESSURE C	ALCUIATI	ONS			
as I	iquid Hydro	carbon Rat	io Dr	<b>y</b>	cf/bbl.		Speci	fic Gravit	y Separat	tor Gas .655
ravity of Liquid Hydrocarbons					deg.		Specific Gravity Flowing Fluid P. 995.2 P2 990.4			
c	DX 9.93	<u> </u>	(1-e <sup>-s</sup> )	0.142	<u> </u>		Pc	995.2	Pc 990	•4
- Т	$P_{\mathbf{w}}$								<del>                                     </del>	
No.		$P_{\mathbf{t}}^{2}$	F <sub>c</sub> Q	$(F_cQ)^2$	(F	$(c_0)^2$	$P_w^2$	$P_c^2 - P_w^2$	Cal.	P <sub>W</sub> P <sub>C</sub>
_	Pt (psia)				(+	. <b>-</b> € "	- PEFE - 10	215.6	P. 880.2	Pc 88.44
1. 2.	782.2	711.3	21.16	663.6		3.5	774.8	284.4	840.2	84.43
<u>3.</u>	662.6	139.0	34.20	1169.6	15	(3	605.1	365.3	777.9	78.17
4.	600.5	360.6	36.91	1362.3	19		534.0	436,4	744.3	74.77
5.	.1	<del></del>		<del></del>	MORED		83.26	<del></del>		
	olute Potent PANY Am	ial: erada Peir	7200	merati	MCFPD;	n_ Vol		<del></del>		
ADDF	ESS Dr	eser D - K	manage.	New Ker	<u>clao</u>			10		
	IT and TITLE	W.G. Ab	bott - I	istrict	Engine		y. al	both		
	PANY PO	rmien Besi	n Pine I	dae		<del></del>	<del></del>			
JOH		CHILLET DESI			REM	ARKS		<del></del>		

## 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
- 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.
- $h_{\mbox{W}}\mbox{\fontfame}$  Differential meter pressure, inches water.
- Fg= Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- F<sub>DV</sub> Supercompressability factor.
- n I Slope of back pressure curve.

Note: If  $P_{\mathbf{w}}$  cannot be taken because of manner of completion or condition of well, then  $P_{\mathbf{w}}$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_{\mathbf{t}}$ .