## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

			MULTI-	-POINT BA	ACK PRESSI	URE TES	T FOR GAS	WETLS:	. //1	Revis	ed 12-1-55	
	Hobbs		Fc	rmation_	Dyer	s-Jucen		_County	Lea, I	ion mo	<b>3C1</b> CO	
Init	ial	Annu	al		Speci	pecial Z Date of				Test April 24, 1959		
						'A" Well No. 1						
Unit G Sec. 32 Twp. 130 Rge. 332 Purchaser  Casing 7' Wt. 24.0 I.D.6.336 Set at 3350 Perf. 3621 To 3635												
Tubing 3" Wt. 9.3 I.D.2.99												
Gas Pay: From 3535 To 3593												
Producing Thru: CasingTubing  Date of Completion: Sept. 17, 1941 Packer						Single-Bradenhead-G			G. or G.O. Dual			
Date	of Complet	ion: Sept.	17, 19	Packe:	r Robe	-	Keser <b>v</b> o	ır Temp.				
					OBSERVE	DATA DATA						
Test	ed Through	(Prover)	ZNXXX)	CONTRACT.		Typ			ne Taps			
		Flow I	ata			Tubing	Data	Casing	Data	T	D. akian	
No	(Prover)	Flow I	Press	Diff.	Temp.	Press.	Temp.	Press.	Temp.		of Flow	
ivo .	Size	Size	psig	h <sub>w</sub>	°F.		°F.			<u> </u>	Hr.	
SI	<del>2</del>	0.1250	ļ		0	142 407		块2 <b>407</b>			<u>72</u> 3	
1. 2.	5,	0.1275				364		364	81		3	
2. 3.	54	0.2183		ļ		332		332	77	+	3	
<u>4.</u> 5.	- 5 <sub>a</sub> - 5 <sub>a</sub>	0.2500			<b>-</b>	309_		317	79		24	
FLOW CALCULATIONS												
	Coefficient		Pressure		Flow T	emp.	Gravity Factor	Compr Fact			of Flow CFPD	
No.	(24-Hour) $\sqrt{h}$				Factor F <sub>t</sub>		Fg	Fpv		@ 15.025 psia		
1.	•3418		420.2		0.9804		0.9123	1.048		134.6		
2.	.7851			377-2	0.9804 0.9840		0.9123	1.042		275.9 348.8		
3.	1.0334	1.4030		345.2 326.2	0.990		0.9123	1.038			429.1	
<u>4.</u> 5.	1.4030			322.2			0.9123	1.036		419.6		
Charri	Liquid Hydro ity of Liqu <b>Maasured</b>	id Hydrocar	io <b>Dry</b> bons (1-e <sup>-s</sup> )	Gas	RESSURE CA cf/bbl. deg.		Spec: Spec:	ific Grav ific Grav <b>455.</b> 2	ity Flo	arato wing	r Gas	
V		-						<del>,</del>				
No.	$P_{\mathbf{W}}$	P <sub>t</sub> .	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>	2 (F	c <sup>Q)<sup>2</sup></sup> -e <sup>-s</sup> )	$P_w^2$	P <sub>c</sub> -P <sub>v</sub>	? C	Cal.	Pw Pc	
	(psia)				(1	-e <sup>-s</sup> )	176.6	30.6		P <sub>w</sub>	92 <b>.3</b>	
1.	311.5	<del> </del>		<del></del>			1/2.3	64.9			82.9	
3.	345.2	<u> </u>					119.2	38.0		<u> </u>	75.8	
4.	326.2						106.4	100.8	<u> </u>		71.7	
5.	330.2	<del></del>	850	L	MCFPD;		.96	· · · · · · · · · · · · · · · · · · ·				
Abs	olute Poren PANY	i di Compe	ny -		PIOT FD \$							
ADD	RESS	<del>849, Noore</del> s			a 111 at a=							
AGE	NT and TITI		D. Sout		o Toter		_ <del></del>					
	NESSED IPANY	<u> </u>	Pago IX	itural G	es Compon	y						
CON					REM	ARKS					,	

## 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 ( $P_{\rm W}$ ). MCF/da. @ 15.025 psia and 500 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
- $P_t$  Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- $P_{f}$  Meter pressure, psia.
- $h_{\mbox{W}}\mbox{-}$  Differential meter pressure, inches water.
- $F_{g}$  Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- $\mathbf{F}_{\mathrm{DV}}$  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  $P_{\mathbf{t}}$ .