## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

								50		F779.	Copies.	Ĉo.	J	Form C-122
					MULTI	-POINT	BACK, PE	re <b>s</b> súre	TES	T FOR GA	WELLS		Revise	ed 12-1-55
Poo	1	out.			F	ormatic	n	Que			County_	544		
											_Date of		8-10-	56
Com	pany C	4410	s Ser	vice (	211 Com	peny	_Lease_	St	a <b>te</b>	"AT"	We	ll No.	1	
														• Сопражу
Cas	ing 52°	W1	. 14	. <b>o/</b> 1	.D5.	<b>012</b> * s	et at_	40001	Pe	rf	36081	_To	399	<b>%</b> '
											532			
											11 34			
									Sing	zle-Brade	nhead-G.	G. or	G.O. Du	ıal
Date	e or com	ртес	.on:_	<del></del>	<i>,,</i>	Pack	er	<u>A</u>		Keservo	oir Temp.	79	ASC.	
C	02 -1.19	s, n	<b>7-3.1</b>	15			OBSE	ERVED D	ATA					
Test	ted Thro	ugh	(1)	Mary	OHALS)	(Meter	)				Type Ta	psl	'lange	
				Flow D	ata		·	Tu	bing	Data	Casing	Data	<del></del>	
N-	(Prove	er)	(Ch	oke)	Press	Diff	• Temp			Temp.				Ouration
NO.	(Line Size			fice) ize	psig	h <sub>w</sub>	o <sub>F</sub> .	, р	sig	°F.	psig	o <sub>F</sub> .	1	of Flow Hr.
SI					+		+		.2		864.8		72	
1.	40			.50	444.8		93	697	.0	93	761.7		233/	
2.	Ya.			.50	443.2		78			78	662,7	78	244	
3.	48	1		.50	445.7	10.8	71			71	594.2	71	24	
4. 5.	Ya.			.50	440.5	14.0	64	466	<u>,, y</u>	64	534.6	64	24	
<u> </u>			<del></del>		<del> </del>	<u> </u>	<u> </u>				L			
							FLOW C	ALCULA	TIONS	3				
	Coefficient				Pı	Pressure		Flow Temp. Factor		Gravity	Compress. Factor		Rate of Flow Q-MCFPD	
No.							F			Factor				
ļ	(24-	-Hour	•)	√ h <sub>w</sub>	$p_{\mathbf{f}}$	psia		$\mathtt{F_t}$		${\tt F_g}$	Fpv		@ 15.0	025 psia
1.	15.	26		31	.75	458.0	0.0	9697	-	0.9393	1.0		457	
2.	15.26		36.12		456.4		0.9831		0.9393	1.0	1	823		
1. 2. 3.	15.26		70.40		438.9		0.9896		0.9393	1.0		939	<del></del>	
4. 5.	15.	15.26		79.70		453.7	0.	7962	0.9393		1.0		1192	
5.														
	Liquid Hy ity of Li			rocarb	ons	y Gas	RESSURE _ cf/bb de		'ATIC	Speci	fic Grav			Gas <b>680</b>
c		-			1-e <sup>-s</sup> )	**				P <sub>c</sub>	878.0	P <sup>2</sup>	770.9	
No.	$P_{\mathbf{W}}$		P	2 <b>F</b>	Q	(F <sub>c</sub> Q)	2	$(\mathbf{F_cQ})^2$		P., 2	Pc-Pw	0	Cal.	Pw

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4.	547.8			300.1	470.8	
5.						
Abso	olute Pote	ntial: 1904	MCFPD; n	0.95		
	PANY	Perstan Main Pipal	1me Company			
	RESS	Hebbs, New Mexico	<del></del>		<del></del>	
AGE	NT and TIT	LE R. L. West, Gas	Engineer			
WITI	NESSED	Richard O. Borg				
COM	PANY	Cities Service Oil Co	mpeny			

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  $\equiv$  Actual rate of flow at end of flow period at W. H. working pressure (P<sub>W</sub>). MCF/da. @ 15.025 psia and 60° F.
- Pc 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwI 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.
- $F_t$  Flowing temperature correction factor.
- Fpv 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  $P_{\mathbf{t}}$ .