## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

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Revised	12-1-	<b>-</b> 55

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InitialAnnual			<del></del>	Spe		Date of	Test_	10/17/61				
Company Socony Mobil Cil Co., Inc.												
Unit Sec11 Twp26% Rge3% Purchaser El Paso Natural Gas Co.												
	sing <b>2-7/6</b> *											
	bing											
											ess. 12 psi	
Pro	oducing Thr	u: C	asing	x	<b>Т</b> ъ	hing			-11	_bar.Pr	ess	
Dat	oducing Thr	et.ion•			Poolso		Sin	gle-Brade	enhead-G.	G. or	G.O. Dual	
	te of Compl			<del></del>	racke	r		Keserv	oir Temp.	<del></del>		
_							ED DATA					
Tes	sted Throug	h <u>(Pro</u>	over) (	Choke)	(Meter)				Type Tar	os		
	(Provider	\ 1 /@\	Flow D	ata		Tubing Data			Casing Data			
No.	(Line)	(Ori	fice)	ł	Diff.	_	Press.	Temp.		Temp.	Duration of Flow	
SI	Size		Size ———	psig	hw	o <sub>F</sub> .	psig	°F.	1	<sup>⊃</sup> F•	Hr.	
1.	24	0	.750	30		56			763 30	56	3 hrs.	
1. 2. 3.												
4. 5.											ļ	
5.	<u> </u>											
			<del>                                      </del>				CULATION					
No.		pefficient Pressure Flow Temp. Factor		Gravity Compress. Rate of Flow Factor Factor Q-MCFPD								
	[ V 17 ]		psia	ia F <sub>t</sub>		Fg	Factor F <sub>pv</sub>		Q-MCFPD @ 15.025 psia			
$\frac{1}{2}$	12.3650	3650			42 1.0039		•9393		1.011		495	
3.								<del></del>				
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ravity of Liquid Hydrocarbons									fic Gravity Flowing Fluid			
	<del></del>											
No.	$P_{\mathbf{w}}$	P	F <sub>c</sub>	a	$(F_cQ)^2$	(F	Q) <sup>2</sup>	D O	<sub>2</sub> <sub>2</sub>		_	
	Pt (psia)				(Few)	(1-	e <sup>-s</sup> )	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Ca P	; W I	
1. 2. 3. 4. 5.	42	1,76	2,	75	7.56	1.2	5	3.01	597.6		w	
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5.		ļ								<del>                                     </del>		
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COMP	ANY Second ESS P. O. 1	Mobil	OLI Co	pany,	Inc.				<del></del>			
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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 ( $P_{\rm W}$ ). 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
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- $F_{pv}^{-}$  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  $P_{\rm t}$ .