## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Wildows.		Format	ion	Morrow		County_	1	-06	
				Special						
									1	
Unit <u>B</u>										
Casing <u>4-1</u>	<b>2</b> Wt	17# 20# I.D.	4.892	Set at	<b>13160</b> Pe	erf. 1	3004	To 1	3010	
Tubing 1										
				E t				-	ess. 13,2	
Producing T										
									.O. Dual	
		10/11/6	<u></u> . 62	OBSER'		Reserve	orr lemb.	·		
ested Thro	ugh ( <del>a</del>			OBOLIN	VED DATA		_			
		Flow Data		<u> </u>			Type Tar		71828	
(Prov		noke) Pro		e Town	Tubing	Data	Casing I	)ata	_	
0. (Lin	e)  (Ori	ifice)	ł			Temp.		1 1	Duration of Flo	
Siz.	-	Size ps	sig h	°F•	p <b>sig</b>	°F.	psig	<sup>⊃</sup> F•	Hr.	
. 4.000		500 5	10 12	57	1165	<del> </del>	<del> </del>	<del> </del>	2-1/4	
. 4,000	1.		9 14.		700			<del>                                     </del>	2-3/1	
. 4.000		500 5			745				3-1/2	
. A.000	-	500 5	18.6	94	612				2	
				<del></del>	<del></del>	L	<u> </u>	<del></del>		
00	0	<del></del>	<del>-</del>		CULATION					
Coefficient		Pressure			Flow Temp. G				ss. Rate of Flow	
(24-Hour)		$\sqrt{h_{ m W}p_{ m f}}$ psi		Fac	tor	Factor	Factor Q		Q-MCFPD	
1	13.99		pora	r	t	rg	Fpv		15.025 psi	
111	•77 • <b>9</b>	81.48	553.2	0.97		0.9608	1.04		1125	
13 13 13 13	13.99		553.2	0,773		0,9608	1.64		136	
13.	.99	95.54 99.79	553.2	0.964		0.7606	1.64		1361	
Liquid Hy	rdroos nhos	o Botio		PRESSURE C	ALCU ATI(					
vity of Li	.quid Hydi	rocarbons	16665	cf/bbl. deg.		Speci	fic Gravit	ty Separ	ator Gas <b>O.</b> ng Fluid <b>O.</b>	
5.6	366	(1-e <sup>=</sup>		<u> </u>		P <sub>2</sub>	3451.2	P <sup>2</sup> 1	ng riuid <b>v.</b> c	
						·				
$P_{\mathbf{W}}$										
•  *W	Pt	2 F C	(F <sub>c</sub> Q)	12 / [	012	D 0	-2 -2			
Pt (psi	a) 't	F <sub>c</sub> Q	(rcw.	'   \f	cQ) <sup>2</sup> -e-s)	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Cal	P <sub>W</sub>	
1178,2	1388	10 6.570				1.18 G1		Pw		
913-2	63.	7.24	22/	3214	3580	865.23 <sub>72</sub>	13332	1347:		
750.2	574	\$7.449	50.	30.	.97	44.71	11305.7	771		
1178.2 913.2 730.2 685.2	390,	.66 7.764	63.7	32		423.64	11487.2	650.	7 28.86	
<u> </u>										
solute Por	ential:	1420 MQ	FP9	MCFPD;	n 1.	000				
MPANY DRESS	a Aparta	N Lette	e Carpa	ration						
DRESS BEENT and TI	R 68 - H	Origin	nal Signed by							
INESSED	1 July		W. MEEK	J. 1	, Mack -	Area En	J.neer			
MPANY	<del></del>					<del></del>				
				REMA	RKS					
				תיבינו	TITL					

## 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  $(P_w)$ . MCF/da. @ 15.025 psia and 60° F.
- P<sub>c</sub>= 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
- $P_{f}$  Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n I Slope of back pressure curve.
- Note: If  $P_{W}$  cannot be taken because of manner of completion or condition of well, then  $P_{W}$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_{+}$ .