## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	lB	esin		Formation Dakota					County Sen Juan				
Ini	tial	<u>x</u>		Annu	al		Spec	ial		_Date of	Test	5-23-61	
Comp	pany P	UBCO	PETR	E.B.M	CORPOR	ation	Lease	8	tate	We	ll No	28	
Unit	. <u>B</u>	s	ec3	<b>16</b> Tw	p. <b>29</b>	<b>x</b> _Rg	e. <b>10</b> W	Purc	haser I	Pago He	tural @	as Company	
Casi	ing5	W	t15	I	.D.4.9	<b>50</b> Se	t at <u><b>660</b></u>	<b>k</b> Pe	rf.	Pago Ma	_To6	<b>**</b>	
Tub	ing 2	<b>3/8</b> W	t	<b>7</b> I	.D1	<b>.992</b> Se	t at <b>655</b>	<b>1</b> Pe	rf. <u>65</u>	51	_To	39A	
Gas	Pay: F	rom_	6576	_To	6378	L <b>6</b>	<u>477                                   </u>	G <b>0.65</b> 0		21.0	_Bar.Pr	ess. 12.025	
Producing Thru: Casing Tubing Type Well Single-Bradenhead-G. G. or G.O. Dual													
Date of Completion: 5010					<b>2-61</b> Packer <b>16</b>			Single-Bradenh <b>ead</b> - Reservoir Tem			-G. G. or G.O. Dual mp <b>154</b>		
						<del></del>		ED DATA					
Test	ed Thro	uøh	()253		Choke)	ineri)				Туре Тар	ne		
		<u> </u>		low D		7			Dot o	Casing I		T	
	(Prov	er)	(Chc	oke)	Press	. Diff.	Temp.	Press.	Temp.	Press.	Temp.	Duration	
No.	(Lin Siz		(Orii Si	ice) ze	psig	h <sub>w</sub>	°F.	psig	o <sub>F</sub> .	psig	<sup>⊃</sup> F•	of Flow Hr.	
SI l.	2		0.7	750				1951	80	1002	80	<u> </u>	
2.					<b>!</b>	<b>_</b>		333		968		2	
3. 4.								309		908	<del> </del>	3	
5.									İ				
								CULATION					
No.	1						Fac	tor	emp. Gravity Compre or Factor Facto			r Q-MCFPD	
	(24-Hour) $$			$\sqrt{h_{W}}$	h <sub>w</sub> p <sub>f</sub> psia		Ft		Fg	Fpv		@ 15.025 psia	
1. 2.	12.365				321	0.961	3	0.9608	1.0	25	3836		
3.													
3° 4°							<del></del>						
				-		PR.	ESSURE C	ALCU ATI	ONS				
ac I	ianid H	vd ro	es chon	. Rati	0		cf/bbl		Speci	fic Gravi	ity Sena	arator Gas <b>0.650</b>	
Gas Liquid Hydrocarbon Ratio cf/bbl. Gravity of Liquid Hydrocarbons deg.									Specific Gravity Flowing Fluid  Pc 1968 Pc 3.853.369				
c				(	1-e <sup>-s</sup> )				Pc	1963	Pc <b>3.</b>	853,369	
$\neg \tau$	P <sub>w</sub>					·					<del></del>		
No.	••		$P_{\mathbf{t}}^{2}$	F	cg	$(F_cQ)^2$	(F	c <sup>Q)<sup>2</sup> -e<sup>-s</sup>)</sup>	$P_{\mathbf{w}}^2$	$P_c^2 - P_w^2$	1	$\frac{P_{\mathbf{w}}}{P_{\mathbf{c}}}$	
1.	Pt (ps	ra)					(1		46,400	3,006,9		P <sub>w</sub> P <sub>c</sub>	
1. 2.													
3. 4. 5.											-+		
					// ^								
	olute Po	cent:			62	O COOK		n 0.75	5				
ADDR	ESS		1	OS Was	rt. Chair	elte.							
	IT and T. ESSED			- H- 1	hyribo: Lierso:	Me Tree	Hist.	er. Bl	terbychif	<b>h</b>	<del></del>		
	ANY					ern Corp		1572				CCCI AS	
								ARKS			/KI	LULIVEN	
	CI	kar :	<b>38</b> 36	(3,8	3,369	) <sup>75</sup> = 38;	36(1. <b>26</b> 1)	5) <sup>75</sup> - 38	36 <b>(1.20</b> 4	3) <b>± 462</b> 0	MA	Y24 1961	
				(3,00	<b>36,96</b> 7	)					1	-= 12PI	

## 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.
- $h_{\mathbf{W}}^{\perp}$  Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- $F_{nv}$  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  $P_{\mathbf{t}}$ .