## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	ool Basin			Fo	rmation_	<del></del>	Dakota			San Juan			
Init	ialX		Annu	al		Spec:	ial		_Date of	Test	9-28	-64	
Comp	any TRXA	CO Ir	ne.	·	I	ease <b>sta</b>	te of N	.M. Uni	t "M"We]	ll No	1		
Unit A Sec. 36 Twp. 31-N Rge. 12-W Purchaser - 6920 6913													
Casi	ng 51 V	/t	<b>17</b> I	.D. 4.1	<b>39</b> Set	at <b>698</b>	<b>5</b> Per	692 689	0	То	6913 6888		
Tubing 2-1/16/t. 3.25 I.D. 1.75 Set at 6928 Perf. open end To													
Gas 1	Gas Pay: From 6888 To 6920 L 6928 xG 700 GL 4850 Bar.Press.												
Producing Thru: Casing Tubing Y Type Well G.G. duel Single-Bradenhead-G. G. or G.O. Dual													
Date	of Complet	ion:_	9 <b>-28</b> -	-64	Packer	Single-Brad acker 4710 Reserv			enhead-G. oir Temp.	G. or	G.O.	Dual 	
OBSERVED DATA													
Tested Through (Choke) (Choke) (Type Taps													
Flow Data							Tubing	Data	Casing Data				
No.	(Prover) (Line) Size	(Ch	oke)	Press.	Diff.	Temp.	Press.	Temp.	Press.	Temp.		Duration of Flow	
NO.	Size	S	ize	psig	h <sub>w</sub>	°F•	psig	°F.	psig	<sup>⊃</sup> F•		Hr.	
SI							1500	200				days	
1.		<del> </del>		<del> </del>			181	68 <sup>0</sup>		<del> </del>	<del>  3</del> _	hours	
3.	<del></del>	<del>                                     </del>			<b></b>								
4.										-			
5. !		<u> </u>							<u> </u>				
					F	LOW CAL	CULATIONS	5					
	Coefficient				Pressure Flo		Temp. Gravity		Compre	ess. Rate of Flow			
No.	$(24-Hour)$ $\sqrt{h_w p_f}$			_	ngia	Fact				or	q_MCFPD @ 15.025		
<del></del>			V 11W		193	.992		F <sub>g</sub>			<b></b>	2.225	
1. 2.	12.365		<del> </del>	<del></del>	193	335		13630	1.0	13	2,223		
3。													
4.											-		
<u> </u>			1			<del></del>			<del></del>		L	<del> </del>	
					PRI	ESSURE CA	ALCUIATIO	ONS					
an I	ionid Hydro	vas apo	n Pati	0		cf/bbl.		Speci	fic Grav	itv Ser	arato	r Gas	
Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid													
Fc			(	l-e <sup>-s</sup> ∑				P <sub>c</sub> _1	512	Pc	2,28	36	
	$P_{\mathbf{W}}$		$\frac{1}{2}$				2	<del></del>	2 2	7			
No.		P		cQ	$(F_cQ)^2$	. <b>297</b> (1	$c_{0}^{Q}$	$P_w^2$	$P_c^2 - P_w^2$		Cal.	$\frac{P_{\mathbf{w}}}{P_{\mathbf{c}}}$	
<del>-  </del> -	Pt (psia)	37.2		3.24	867.3	257	-6 -)	294.8	1991		P <sub>w</sub>	- C	
1. 2.		-31-0											
3.									<del> </del>	<del></del>			
4. 5.													
Absolute Potential: 2.468 MCFPD; n .75 COMPANY													
ADDRESS													
AGENT and TITLE													
WITNESSED COMPANY													
				<del></del>		REM	ARKS	<del></del>	10		LD	$\overline{}$	
									/ 1	POP'	. AB #	1	

## 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 (Pw). MCF/da. @ 15.025 psia and 600 F.
- $P_c$  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.
- $h_{\mathbf{w}}$ Differential meter pressure, inches water.
- $F_g$ : Gravity correction factor.
- $F_t$  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  $P_{t}$ .