## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	B	asin	Dakota	F0	rmation_	Dai	kota		_County_	San	Juan	
Initi	al	x	Annu	al		Spec	cial		_Date of	Test_	11/30	160
Compa	nny The	Ohio	011 Co	mpany	L	ease	Ohio Go	vernment	We	ll No.	2-1	5
								chaser				
								erf. 60			6135	
								erf. opel				
			-									
Date	of Comp	letion	11-	18-60	Packer		Sin	Type Wengle-Brade Reserve	enhead-G. oir Temp.	G. or	G.O.	Dual
							VED DATA	<del></del>				
Teste	ed Throu	gh ( <b>1</b>	MAN (	Choke)	(NACES )				Type Ta	ps		
~			Flow D					g Data	Casing	Data	<b>T</b> -	Duration
No.	(Line	) (43	ALLES)		Diff.		j	Temp.	Press.		1	Duration of Flow
SI	Size		Size	psig	h <sub>W</sub>	°F.	psig 2048	°F.	psig			Hr.
1.		3	/4×	417		820	403		2132 1262	<del> </del>		hour
2 <b>.</b> 3•											士	
4. 5.				<b> </b>		· · · · · · · · · · · · · · · · · · ·	<del> </del>			-	<del>.  </del>	
No.	Coefficient $(24-\text{Hour})  \sqrt{h_{W}p_{f}}$			essure	LOW CALCULATION Flow Temp. Factor		Gravity Factor Fg	Factor F <sub>pv</sub>		Rate of Flow Q-MCFPD @ 15.025 psia		
1.	12.3650					.9795		.9463	1.042		4980	
1. 2. 3. 4.												
<u>4.</u>												
PRESSURE CALCULATIONS  Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas  Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid  Fc												
No.	P <sub>w</sub>	2)	Pt I	r <sub>c</sub> Q	$(F_cQ)^2$	(	F <sub>c</sub> Q) <sup>2</sup> 1-e <sup>-s</sup> )	P <sub>w</sub> 2	P <sub>c</sub> -P <sub>w</sub>		Cal.	Pw Pc
1.	Pt (psi	۵)				+		1623	2974	<del></del>	W	0.5941
2.   3.					<del></del>						<u></u>	
4.						1						
Absolute Potential: 6904 MCFPD; n 0.75  COMPANY The Unio Uil Company  ADDRESS Durango, Colorado  AGENT and TITLE AMM warning W. C. Wunnicke, Consulting Engineer												
WITN COMPA	ESSED		W. a.	For			. A. Pe	Company				
COPIL							MARKS		OFF.	Wi		
									\ Uror	# 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 (P<sub>W</sub>).
  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.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- $F_{\text{DV}}$  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  $P_{t}$ .