## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	1 WASE Banks Cakota				Formation Dakota				County San June			
Init	ial II		Annu	al		Spec	ial		_Date of	Test_	2-6-65	
Comp	any <b>500</b>	them !	inten i	roduct	ion Co.	Lease	Alim	<b>dit</b>	We]	ll No	6	
Unit A Sec. 22 Twp. 25-2 Rge. 20-20 Purchaser 11 Page Setural Gas Company												
Casi	ng b-1/7º	Wt. 10	.50 I	.D	Se Se	t at 66	<b>20</b> Pe	rf. 496		To	is a	
Tubi	ng <b>2-3/8</b>	Wt.	.70 I	.D. 1.	995 Se	tat_6	AS Pe	erf. 646		To	<b>N</b> 6	
Gas Pay: From 6349 To 653 L 645 xG .700 -GL 642 Bar.Press. 22.6												
Producing Thru: Casing Tubing Type Well Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion: Packer Reservoir Temp.												
OBSERVED DATA												
Tested Through (Choke) (Miss)  Type Taps												
~			Flow Da				Tubing Data		Casing Data Press. Temp.		<del></del>	
No.	(Prover) (Line) Size	(Ch (Ori	oke) fice)	Press	Diff.	- 1	Ì	Temp.	1	I .	I OF KION	
	Size	` s	ize	psig	h <sub>w</sub>	°F.		o <sub>F</sub> ,	psig	°F.	Hr.	
SI			A	-		76	2066	76	8378		30 days	
1. 2.		- 3/	4	325	1	10	<b>J</b> J5	10	739		3 2000	
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<del>4.</del> 5.				<del> </del>	<b>_</b>			<b></b>			<u> </u>	
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	FLOW CALCULATIONS											
N.	Coeffic	Coefficient		<i></i>		essure Flow Temp. Factor psia Ft				press. Rate of Flow Q-MCFPD		
No.	(24-Hour)		7/h.									
<del>-  </del>	12.3460		- / Vw		107	.9050	-	305	F <sub>pv</sub>		344	
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					PRI	essure c	alcui <b>ati</b>	ONS				
'aa T	ionid Umdu	an mha	n Poti	_		cf/bbl.		Speci	fia Coori	tu San	ametam Can	
ravity of Liquid Hydrocarbons						deg.	Specific Gravity Flowing Fluid					
F <sub>C</sub> (1-e <sup>-8</sup> ) $P_{c}$ $P_{c}$ $P_{c}$									Poster			
T	Pw	1	<u>. T</u>			7	<u>, T</u>		2 0	1		
No.		P	f F	<sub>c</sub> Q	$(F_cQ)^2$	(F	$c^{Q}$	$P_{\mathbf{w}}^2$	$P_c^2 - P_w^2$	I I	al. Pw Pw Pc	
1.	Pt (psia)	<b>_</b>				(1	-e "/   _	073 <b>6</b> k	<b>7615580</b>		P <sub>w</sub> P <sub>c</sub>	
2.									<i></i>			
3.												
<u>4.</u> 5.		<del></del>				_				<del>- </del>		
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ADDRI		F. 0.	Sec 5	08 <del>- 1</del> 4		I HOW I	ALT DE	Original Signe	H By			
AGENT and TITLE												
WITNESSED COMPANY												
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	New Marsion No. Page 1								1		0 1965	
(1) Mr. Paul J. Clote (1) Mi Paul J. Clote (1) Mi Paul Gas Provetion Dept., P.O. Box 1592, Mi Paul, Taxon Taxon COM.												
OIL CON. COM												
(I) 1	71.10			- * -		• • • • • • • • • • • • • • • • • •				/ (	IST. 3	

## 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  $\equiv$  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.
- 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.
- $F_{pv}$  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  $P_{\mathbf{t}}$ .