## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

Pool	Bough S	m Andres	F	ormation	1 San	Andres		County_j	48		
Init	ial	Annı	ual	<u> </u>	Spec	cial		Date of	Test	12-8-64	
Comp	oany Per	eriem Pet	Corp		_Lease	[edera]	В	Wel	1 No	1	
Unit	. <u>B</u> 5	Sec. 21. Tv	vo. <b>9S</b>	Rø	ze. 35%	Purc	haser <b>S</b>	inglair O	ll & Ge	s Co.	
		Vt. <u>26.4</u>	· · · · · · · · · · · · · · · · · · ·				476	6	47	90	
Casi	.ng <u>7_5/</u>	/t <u>26.4</u> ]	L.D	<b>969</b> _Se	et at	1 <b>88</b> Pe	rf	<u> </u>	To	30	
Tubi	ing 2 3/8 V	it]	.D. <u>1.</u> 9	<b>95</b> _Se	et at	<b>729</b> Pe	rfop		To		
Gas	Pay: From_	Less To 1	430	_L_47	729?	cG <b>830</b> _		3925	Bar.Pr	ess. <u>13.2</u>	
Prod	lucing Thru:	Casing_		Tu	ibing	<u> </u>	Type We	ellein	rle		
Date	of Complet	ion:	<b>r</b> 41	Packe		Sin	gle-Brade Reserve	enhead-G.	G. or (	G.O. Dual	
			<del>)-04</del>		•			211 10mb.	<del></del>	<del></del>	
					OBSERV	ED DATA					
Test	ed Through	(Personn)	Obside )	(Meter)	_			Type Tap	s	ange	
		Flow D		Tubing	Data	Casing Data					
		(Choke)	Press.	Diff.	Temp.			Press.		1	
No.	(Line) Size	(Orifice) Size	psig	h <sub>w</sub>	° <sub>F</sub> .	psig	o <sub>F</sub> .	psig	o <sub>F</sub> .	of Flow Hr.	
SI	#	.790	Pole	**W		1086		Pore	1	72 SI	
1.	<u> </u>	.750	435.7		58	459			<u> </u>	24	
2.		.500	462.9		48	1,22				24	
3. 4.		, <u> </u>	422.4		52 59	448	<del></del>		<del> </del>	24	
5.			420.0	2.0	77	407	<del></del>		<del> </del>	25	
					TT 011 011	CUT A STONY	_				
Coefficient Pressure Flow Temp. Gravity								Compre	ss.	Rate of Flow	
No.		.   ,		1		tor	Factor	Factor		Q-MCFPD	
	(24-Hou	r)  -/ h <sub>w</sub>					ft Fg			@ 15.025 psia	
1.	3.435			8.9	1.0019		8502	1.089 73		73.96	
1. 2. 3. 4.	1,525	30.86 24.70		6.1	1.0117		1,106		44.77 35.21		
4.	6	20.8	43	3.0	1.0010		-	1,087		29.36	
5.											
ravit		carbon Ratid Hydrocarb			cf/bbl.		Speci Speci P <sub>c</sub> ₄	fic Gravific Gravi	ty Flow		
No.	Pt (psia)	Pt F	<sub>c</sub> Q	$(F_cQ)^2$	(F (1	cQ) <sup>2</sup> -e <sup>-s</sup> )	P <sub>w</sub> 2	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	F	P <sub>W</sub> P <sub>C</sub>	
1. 7. 2.	472.2 435.2	102/31.1	GIBLE				23.0	956.0 989.6	472.2		
3. 1	161.2						12.7	966.3	161.2		
4.	L78.2					2	26.7	950.3	A78.2		
									<del> </del>		
	Lute Potent				MCFPD;	n_ 1.00	0				
ADDRE	ISS Box 30	dr eil & Ge	N. Mex	<del> </del>		M		1-985.2	+	·	
AGENT	and TITLE	R. Pareet	t, Inst	. Toch		11	110/1	1018.2			
	VITNESSED										
COMPA	NY	<del></del>			DIME	ADVC		179.5	<b> </b>		
	n 1.000 absolute	assigned d potenttial	ue to f	lat slo ated fr		ARKS I <b>rve</b> wing for	mula A.I	Q 🕰	-	P2- 202	

## 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 ( $P_{\rm W}$ ). 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
- $P_t$  Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- $h_{\mbox{\scriptsize W}}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- $F_{pv}$  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  $P_{+}$ .