## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

				NE	w MEXICO	OIL CONS	ERVATION	COMMISSI	ON		
											Form C-122
				MULT	'I-POINT B	ACK PRES	SURE TES!	r FOR GAS	WELLS		Revised 12-1-55
Poo!	l Basi	n đa	kota		Formation		Dakota		_County	San	Juan
Ini	tial_XX		Annu	al		Spec	ial		_Date of	Test	12-19-62
Com	pany South	ern l	Union	Proc	iuction	Lease	Se	iz	Wel	1 No	1
Unit	t <u>K</u> S	ec	20_Tw	p	29-N Rg	e1	l_W_Purcl	naser <u>Son</u>	ithern U	nion (	las Company
											6208
								r			6098
	_		- •					•			ss. 12.0
	ducing Thru:						•	· · · · · · · · · · · · · · · · · · ·		•	
	e of Complet						Sin	zie-Brade	nhesd-G.	G. or (	G.O. Dual
						OBSERV	ED DATA				
Test	ted Through	(Roo	(ER) ((	Choke	) (Noter)	;			Туре Тар	S	- <del> </del>
	(Prover)		Flow Da		e Diff	Town	Tubing Press.		Casing D		Duration
No.		(Ori	fice)			•		•		ok.	of Flow
SI			. W. W				1925		1934		7day
1. 2.	2"		3/44	41	3	74	413	74	1290		3 hrs
<u>3.                                    </u>											
4. 5.			<del></del>							-	
<u> </u>				<del> </del>		FLOW CAT	CULATIONS	3			
No.	Coeffici (24-Hou	Coefficient		Pressure		Flow Temp. Factor Ft		Gravity Factor	Compress. Factor		Rate of Flow Q-MCYPD 15.025 psia
1.	12.365		√ h <sub>w</sub> I	of	425	.986		.9258	Fpv	148	5031
2.											
1. 2. 3. 4.											
2• 1			. <u> </u>		PR	essure c	ALCUIATIO	ws			
as T	Liquid Hydro	aa sha	n Poti	•					fic Gravi	tw Sens	arator Gas
ravi	ity of Liqui		rocarbo			deg.		Speci		ty Flor	ring Fluid
c			\	• •	<del></del>		•	- c		C	
No.	P <sub>w</sub>		Pt FcQ		$(F_cQ)^2$			P <sub>w</sub> 2	P <sub>c</sub> -P <sub>w</sub> <sup>2</sup>		al. P. Pc
<u>.</u>			#		<b>†</b>	<u>`</u>		1695.	2 2091	*	.669
1. 2. 3. 4.											
4.											
	olute Potent	ial:	705	 (2	+	MCFPD •	n .	.75			
COMI	PANY	Sc	nither	n Ur	ion Pro	duction	Compan	y	<del></del>		
DDF	RESS	179	A 70-	- 000			W				

		( NO. O. L. P.	(Choke)	(Notes)				Type Tap	8	
_	<del></del>	Flo	w Data			Tubing	Data	Casing D	ata :	Ī
No.	(Prover) (Line)	(Choke		. Diff.	Temp.	Press.	Temp.	Press.	Тещо.	Duration of Flow
	Size	Size	psig	h <sub>w</sub>	°F.	psig	°F.	psig	°F.	Hr.
SI						1925		1934		7day
l. 2.	2"	3/4	+n 413		74	413	74	1290		3 hrs
; <del>.</del> †		· — —		+		A				· .
3.										
5. 1				<u> </u>				<u> </u>	<u></u>	<u> </u>
				,	FLOW CAL	CULATION	S			
T	Coeffici	ent	P	ressure	Flow	Temp.	Gravity	Compre		Rate of Flow
10.	(OL 110m)		/		Fac		<b>Factor</b>	Facto	r	Q-MCFPD 15.025 psia
_	(24-Hou		h <sub>w</sub> p <sub>f</sub>	psia	F		Fg	Fpv		
· ·	12.3650	<b>&gt;</b>  _		425	986	8	9258	1-1-0	148	5031
3.			<del></del>					_		
٠. [				<del>-</del>						
· .										
avi	iquid Hydro ty of Liqui		arbons_		cf/bbl.		Speci	fic Gravi	ty Flow	rator Gas ring Fluid
avi	ty of Liquio		atio earbons(1-e <sup>-8</sup> )		cf/bbl. deg.		Speci		ty Flow	
avi	ty of Liquid		arbons_		deg.		Speci	fic Gravi	ty Flor	ring Fluid3786.9
o.	ty of Liquio	d Hydroc	earbons(1-e <sup>-8</sup> )		deg.	c <sup>Q)<sup>2</sup></sup> -e <sup>-s</sup> )	Speci Pc	fic Gravi 1946 Pc-Pw	ty Flor	ring Fluid3786.9
o.	ty of Liquid	d Hydroc	earbons(1-e <sup>-8</sup> )		deg.		Speci P <sub>c</sub> P <sub>w</sub> 2	fic Gravi 1946 Pc-Pw	ty Flor	3786.9
o.	ty of Liquid	d Hydroc	earbons(1-e <sup>-8</sup> )		deg.		Speci P <sub>c</sub> P <sub>w</sub> 2	fic Gravi 1946 Pc-Pw	ty Flor	3786.9
o.	ty of Liquid	d Hydroc	earbons(1-e <sup>-8</sup> )		deg.		Speci P <sub>c</sub> P <sub>w</sub> 2	fic Gravi 1946 Pc-Pw	ty Flor	3786.9
lo.	P <sub>w</sub> Pt (psia)	Pt	F <sub>c</sub> Q		(F (1	cQ) <sup>2</sup> -e-s)	P <sub>c</sub>	fic Gravi 1946 Pc-Pw	ty Flor	3786.9
avi	Pw Pt (psia)  lute Potent	Pt pial:	F <sub>c</sub> Q 7852	(F <sub>c</sub> Q) <sup>2</sup>	(F (1 ) ) MCFPD;	cQ) <sup>2</sup> -e-s)  n Compar	P <sub>w</sub> 2  1695	fic Gravi 1946 Pc-Pw	ty Flor	3786.9
lo.	Pw Pt (psia)  lute Potent	P.O.	F <sub>c</sub> Q  7852  hern Un	(F <sub>c</sub> Q) <sup>2</sup>	(F (1 ) ) MCFPD; duction	cQ) <sup>2</sup> -e-s)  n Compar	P <sub>w</sub> 2  1695	fic Gravi 1946 Pc-Pw	ty Flor	3786.9
lo.	Pw Pt (psia)  lute Potent ANY ESS T and TITLE	Pt  ial:  Sout P.O. Vern	7852 Thern Un. Rox 808 The Rockh	(F <sub>c</sub> Q) <sup>2</sup>	(F (1 ) ) MCFPD; duction	cQ) <sup>2</sup> -e-s)  n Compar	P <sub>w</sub> 2  1695	fic Gravi 1946 Pc-Pw	ty Flor	3786.9
No.	Pw Pt (psia)  lute Potent	Pt  ial: Sout P.O. Verr	F <sub>c</sub> Q  7852  hern Un	(F <sub>c</sub> Q) <sup>2</sup> len Pro		cQ) <sup>2</sup> e-s)  n Compan	P <sub>c</sub>	P <sub>c</sub> -P <sub>w</sub> <sup>2</sup> 2 2091	Can I	al. Pw Pc .669
No.  No.  1.  2.  3.  4.  5.  Abso COMF ADDR AGEN WITN	Pw Pt (psia)  lute Potent ANY ESS T and TITLE	Pt  ial: Sout P.O. Verr	F <sub>c</sub> Q  7852  Chern Un  Rox 808  Ripper	(F <sub>c</sub> Q) <sup>2</sup> len Pro	MCFPD; inction agton. Lingin	cQ) <sup>2</sup> e-s)  n Compan	P <sub>c</sub>	fic Gravi 1946 Pc-Pw	Can I	al. Pw Pc .669

## 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<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.
- $F_g$ : Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n \_ Slope of back pressure curve.

Note: If  $P_{\rm W}$  cannot be taken because of manner of completion or condition of well, then  $P_{\rm W}$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_{\rm t}$ .