## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT	BACK	PRESSURE	TEST	FOR	GAS	WELLS
MODIT T-LOTHER	DVCV	LIGOROTE	TINCI	1 (/11	CEL	

Revised 12-1-55

	1 Basin I	Dakota		Formation	Dakot	a		_County_	San Ju	an
Ini	tialX	A	nnual		Spec	ial		_Date of	Test_1	2-22-64
	pany_Tex-Sta									
Uni	t <u> </u>	ec26	_Twp30	N Rge	. 14W	Purch	aser_El	Paso Na	tural Ga	s Co.
	ing 4½ W									
Tub	ing 1-1/4 W	t. 2. 4	I.D1	380 Set	t at5	986 Per	f. Open	ended	_To	
	Pay: From_									
Pro	ducing Thru:	Casin	g	Tul	oing	X Sing	_Type We le-Brade	11 Sin nhe <b>sd-G</b> .	gle-gas G. or G	.O. Dual
Dat	e of Complet	ion:12	-10-64	Packe	r		_Reservo	ir Temp.		
					OBSERV	ED DATA				
Tes	ted Through	<u>(rygygy</u>	(Choke	) (MARAY)				Туре Та	ps	:
	7=		w Data			Tubing		Casing	Data	Duration
No.	(Prover) (Line) Size	(Choke ( <b>OPOPO</b> Size	<b>e</b> ()	s. Diff.	Temp.	Press.	•	Press.		of Flow
SI	5126			-8W		1880		1880	+	10 days
<u>1.</u>		3/4	18	0	64	180	64 v	974		3 hr
2.										·
3.										
<u>4.</u> 5.										<u> </u>
	1				FLOW CALCULATION Flow Temp. Factor Ft			Factor F <sub>pv</sub>		Rate of Flow Q-MCFPD @ 15.025 psia
No.		r) 🗸	h <sub>w</sub> p <sub>f</sub>	psia	F	t	F <sub>g_</sub>	Fpv		
		r) √	hwpf	p <b>sia</b> 192	.9962	t	.9463			2,283
1. 2.	(24-Hou	r) √	h <sub>w</sub> p <sub>f</sub>		F	t	F <sub>g</sub> .9463	Fpv		
1. 2.	(24-Hou	r) √	hwpf		F	t	.9463	Fpv		
1. 2.	(24-Hou	r) √	h <sub>w</sub> p <sub>f</sub>		F	t	.9463	Fpv		
1. 2. 3. 4. 5.	(24-Hou 12.3650 Liquid Hydro ity of Liqui	carbon R	atio_arbons_	192	.9962	t 2 2 ALCUIATIO	.9463 OMS Speci Speci	fic Grav	rity Separity Flow	2,283  arator Gas ving Fluid 579.6
2. 3. 4. 5.  Gas Grav Fc	(24-Hou 12.3650 Liquid Hydro ity of Liqui	carbon R	atio_arbons_	192	ESSURE Control deg.	t 2 2 ALCUIATIO	Speci Speci Pcw	fic Grave fic Grave 1892 996	rity Separity Flor	2,283  arator Gas ving Fluid 1579.6 992.0
1. 2. 3. 4. 5. Grav	(24-Hou 12.3650 Liquid Hydro ity of Liqui	carbon R	ratio	192 PR	ESSURE Control deg.	ALCUIATIO	Speci Speci Pc P	fic Grav fic Grav 1892 996	rity Separity Flor	2,283  arator Gas_ ving Fluid_ 579.6 992.0
1. 2. 3. 4. 5. Grav	(24-Hou 12.3650 Liquid Hydro ity of Liqui	carbon R	ratio	192 PR	ESSURE Control deg.	ALCUIATIO	Speci Speci Pcw	fic Grave fic Grave 1892 996	rity Separity Flor	2,283  arator Gas ving Fluid 1579.6 992.0
1. 2. 3. 4. 5. Sas Grav C No.	(24-Hou 12.3650 Liquid Hydro ity of Liqui	carbon R	ratio	192 PR	ESSURE Control deg.	ALCUIATIO	Speci Speci Pcw	fic Grave fic Grave 1892 996	rity Separity Flor	2,283  arator Gas ving Fluid 1579.6 992.0
1. 2. 3. 4. 5. Sas Grav Fc	(24-Hou 12.3650 Liquid Hydro ity of Liqui	carbon R	ratio	192 PR	ESSURE Control deg.	ALCUIATIO	Speci Speci Pcw	fic Grave fic Grave 1892 996	rity Separity Flor	2,283  arator Gas ving Fluid 1579.6 992.0
1. 2. 3. 4. 5. No. 1. 2. 3. 4. 5. Abs COM ADD	(24-Hou 12.3650  Liquid Hydro ity of Liquid  Pw Pt (psia)  olute Potent PANY Tex- RESS 2520	carbon R d Hydroc Pt  ial: Star Oil	atio_sarbons_(1-e <sup>-2</sup> FcQ  2,922 & Gas (2,922)	PRI  (F <sub>c</sub> Q) <sup>2</sup> Corp. Tower, Da	ESSURE Cocf/bbl.deg.  MCFPD;	ALCUIATIO  -cQ) <sup>2</sup> -e-s)  n75	Speci Speci Pc- Pw- w	fic Grave fic Grave 1892 996	rity Separity Flor	2,283  arator Gas ving Fluid 1579.6 992.0
1. 2. 3. 4. 5. No. 1. 2. 3. 4. 5. Abs COM ADD AGE	(24-Hou 12.3650  Liquid Hydro ity of Liquid  Pw Pt (psia)  olute Potent PANY Tex- RESS 2520 NT and TITLE	carbon R d Hydroc  Pt  ial: Star Oil Fidelit G. L.	atio_arbons_(1-e <sup>-1</sup> F <sub>c</sub> Q  2,922 8 Gas (cy Union Hoffman	PRI  (F <sub>c</sub> Q) <sup>2</sup> Corp. Tower, Da	ESSURE Cocf/bbl.deg.  MCFPD;	ALCUIATIO  -cQ) <sup>2</sup> -e-s)  n75	Speci Speci Pc- Pw- w	fic Grave fic Grave 1892 996	rity Separity Flor	arator Gas ring Fluid 1579.6 992.0  al. Pw Pc .526
1. 2. 3. 4. 5.  No. 1. 2. 3. 4. 5. Abs COM ADD AGE WIT	(24-Hou 12.3650  Liquid Hydro ity of Liquid  Pw Pt (psia)  olute Potent PANY Tex- RESS 2520	carbon Rd Hydroc  Pt  ial: Star Oil Fidelit G. L. V. L.	atio_arbons_(1-e <sup>-1</sup> F <sub>c</sub> Q  2,922 8 Gas (cy Union Hoffman	PRI  (F <sub>c</sub> Q) <sup>2</sup> Corp. Tower, Da	ESSURE Cocf/bbl.deg.  MCFPD;	ALCUIATIO  -cQ) <sup>2</sup> -e-s)  n75	Speci Speci Pc- Pw- w	fic Grave fic Grave 1892 996	rity Separity Flor	2,283  arator Gas ving Fluid 1579.6 992.0

## 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
- PwI 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.
- $h_{\mathbf{w}}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- Fpv 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  $P_{\mathbf{t}}$ .