## NEW MEXICO OIL CONSERVATION COMMISSION

								137 24		Form C-122
D.	. Janua	-	MUL	ri-Point E	BACK PRE	SSURE TE	ST FOR GA	S WELLS	111 2	Revised 12-1-55
	JALMA									
Ini	tialX		Annual		Spe	cial		Date of	Test	1/2/58
Соп	pany Sunra	Y MID-	CONTINE	TOIL C	<b>Le</b> ase	H. D.	GREER	We]	ll No	2
Uni	t <u>D</u>	Sec. 21	Twp2	2 8 Rg	ge. <u>36</u> (	EPur	chaser	EL PASO	NATURA	L GAS Co.
Cas	ing 5½ 1	Wt. 13	I.D	5.00 Se	et at <u>3680</u> Perf		erf	3065	то 3470	
Tub	ing <b>2-3/8</b>	wt. <u>4.7</u>	I.D	2.00 Se	t at _35	552 Pe	erf. No	NE	То	
Gas	Pay: From	3065	то 3470	L	3552	xG_•765		2717	Bar.Pre	ss. <u>13.2</u>
	ducing Thru					x	Type We	ell Sino	SLE	
						Sar	igie-Krade	onhead 4.	(i or (i	.O. Dual
						VED DATA				
Tes	ted Through	(Prove	r) (Otoka	X X MIN NOW.				Type Tap	<b>)</b> S	
		Fl	ow Data			Tubing	Data	Casing D		
.,	(Prover)	(Chok	e) Pres	s. Diff.	Temp.			Press.		Duration
No.	(Line) Size	(Orifi Siz	ce)   e   psi	g h.	o <sub>F</sub> .	psig	°F.	psig	∍ <sub>F</sub> .	of Flow Hr.
SI				S W		656	<del> </del>	667		72 HR8.
1. 2.	•500	19/6			47	605	62	615	53	2 3/4
2.	•500 500	22/6/			50	565	64	585	55	2
3.	•500 •500	26/6/ 33/6/			60 60	485 423	64 64	544 508	62 62	
<u>4.</u> 5.	•500	33/64			68	420	63	502	70	24
					FLOW CAI	CULATION	ıs	<u> </u>	<del>1 - 1 - 1</del>	
	Coefficient (24-Hour)		Pressure		Flow Temp.			Compre	ss. F	ate of Flow
No.			/h =	h n nsia		tor	Factor			Q-MCFPD
<del></del>		1 V	/ h <sub>w</sub> p <sub>f</sub>	psia		t	F <sub>g</sub>	Fpv		15.025 psia
1. 2. 3.	5.5233		163.2 243.2		1.0127		<b>.</b> 88565	1.023		827 1 <b>.24</b> 9
$\frac{\tilde{3}}{3}$	**			323.2		000	11	1.04		1.658
4.	11			383.2		000	71	1.05		1.986
5.	77			383.2	0.9		11	05		1.967
Gas I Gravi	Liquid Hydro ity of Liqui <b>Pw</b>	carbon H		RY GAS	cf/bbl.deg.		Speci	fic Gravi fic Gravi	ty <b>XXXXX</b> ty Flowi Pc 462	Gas • 765 ng Fluid
	P <sub>w</sub>					.,2		2 2	<del></del>	
No.	Pt (psia)	P <b>t</b>	F <sub>c</sub> Q	$(F_cQ)^2$	(F	(cQ) <sup>2</sup> (-e <sup>-s</sup> )	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Cal P <sub>w</sub>	
1.	528.2						394.5	58.1		
2 <b>.</b> 3 <b>.</b> 1	598.2 557.2		<del> </del>				357.8	104.9		_
4.	521.2		<del> </del>	<del> </del>			310.5 271.6	152.2	+	
5.	515.2						265.4	197.3		
Abso	lute Potent	ial:	3800		MCFPD;					
COMF		SUNRA	Y MID-CO	NTINENT	OIL C	OMPANY	<del>'</del>			
ADDR		<u>Box I</u>	168 SNY	DER. TE	XAS					
	T and TITLE	D. G.	BOWER.	GAS TES	TER		····			
COMP	ESSED		<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>		
COM					REM	ARKS				

## 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 ( $P_{\rm W}$ ). MCF/da. @ 15.025 psia and 60° F.
- Pc= 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.
- $F_{pv}$  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  $P_{\mathbf{t}}$ .