## NEW MEXICO OIL CONSERVATION COMMISSION

HOBBS WEFFE DEC G-122:

		*	MUL	TI-POINT	BACK PRE	SSURE TE	ST FOR GA	s wellens	JUL 19	312 1312 13	,-5°
Pool Sumont							-				
InitialAnnua		Annual	Spec				Date of	Test <u>4-</u>	12 to 19, 19	3	
Соп	Company Shell Oil Company				Lease State "C"			Well No1			
Uni	.t	Sec. 24	Twp	<b>198</b> R	ge <b>36</b> /	<b>E</b> Purc	chaser	Paso Rat	mrel 6	As Company	
Casing 7" Wt. 24.00 I.D. 6											
	ing 2 1/2"										
										ess. <u>13.2</u>	
Pro	ducing Thru	· Casi	ng	т.	shina			.11	Darer	ess. <u>13,7</u>	<del></del>
Dat	ducing Thru	. Oası		1	mrug	Sir	Type we ngle-Brade	enhead-G.	G. or	G.O. Dual	
Dat	e of Comple	tion:	5-16-57	Packe	er <b>y</b>	465	Reservo	oir Temp		·	
					OBSERV	VED DATA	-				
Tes	ted Through			(Meter	(Meter)			Type Taps Place.			
Flow Data						Data					
No.	(Line)	(Orifi	E) Pres	s. Diff.	Temp.	Press.	Temp.	1		1 of 170	
707	Size	Size	e psi	g h <sub>w</sub>	°F.	psig		psig	°F∙	Hr.	
SI 1.	_4	1,00	9 577	9.61	103	847 843	<u> </u>	Packer		72	
2.	4	1.00	618	12.29	103	841				24	
3. 4.		1.00				235_	ļ			24	
5.		1.00	618	29.16	90	<u> 827</u>	<del> </del>		<del> </del>	24	
					FTOW CAT	CULATION	· S				
No.	Coeffic	ient		Pressure	Flow	Temp.	Gravity	Compress.		Rate of Flow	
NO.	(24-Hou	ur)	h <sub>w</sub> p <sub>f</sub>	p <b>sia</b>	Factor F <sub>t</sub>		Factor F <sub>g</sub>	Factor F <sub>pv</sub>		Q-MCFPD @ 15.025 psia	
1.	6.125		75.31	590.2	.9610		.9380	1.05	$\overline{}$	437.7	
2 <b>.</b> 3.	6.135 6.135		87.93	631.2	.9610		.9380	1.05	6	513,4	
4. 5.	6.135		35.67	630.2 631.2	966		9380	1.05	~	665.3	
5.						ALCU ATI		1.04		#05.3	
۱۵۵ T											
ras I Fravi	iquid Hydro ty of Liqui	id Hydroc	arbons 1	Jry Jone	cf/bbl. deg.		Speci	fic Gravit fic Gravit	ty Sepa	arator Gas ving Fluid	12_
c	5.866		(1-e <sup>-s</sup> ]	.150			P <sub>c</sub>	860.2	P <sub>C</sub>	739.9	
No.	$P_{\mathbf{W}}$	$P_{\mathbf{t}}^2$	E O	(F 0)2	(F	0)2	ъ о	$P_c^2 - P_w^2$			$\neg$
NO.	Pt (psia)	ft	F <sub>c</sub> Q	$(F_cQ)^2$	(1)	$\begin{pmatrix} c^{Q} \end{pmatrix}^2 = e^{-s}$	P <sub>w</sub> 2	$P_{\mathbf{c}}^{\mathbf{r}} - P_{\mathbf{w}}^{\mathbf{r}}$		ll. Pw	
1. 2.	46.2	733.1	2.567	6.58	.98		734.1	5.8	856.	8 99.6	$\Box$
<del>~•</del> 1	848.2	729.6 719.4	3.012 3.903	9.072	1.36 2.28		731.0 721.7	8.9	855.		4
4. 5.	840.2	705.9	4.724	22.316	3.34		709.2	18.2 30.7	849		コ
	lute Potent	ial•	4.800	<u> </u>	MCFPD;	<u> </u>			<u>L</u>		
COMP	ANY	Shall Oi	1 Company				<i>N</i>				
ADDR	ESS T and TITLE	P. O. Bo	x 1858, 1	loswell.	iow Mexic	CO					<u> </u>
MIIN	ESSED	R. A. M	ikel			J. Gle	na .	<del></del>			
COMP	ANY	El Paso	Matural	Gas Corsos	my DEMA	ARKS					
					LT.M.	CANH					

Slope less than .500, a slope of .500 drawn through lowest rate of flow.

## 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
- 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
- Pf Meter pressure, psia.
- h. Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n I 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  $P_{\rm t}$ .