## NEW MEXICO OIL CONSERVATION COMMISSION

HOBBS OFFICE OCC Form C-122 MULTI-POINT BACK PRESSURE TEST FOR GES WELLS AM 10: 11 Revised 12-1-55

Pool	ieles	<u> </u>	···	F-	ormatio	n <b>Sev</b>	en River	<b>8</b>	County_	Lea		
Init	ial		Annua			Spe	cial	x	Date of	Test_1-	7 to 1-11-57	
											1	
								chaser <b>El</b>				
											- Compacty	
								erf				
											ss. <u>13.2</u>	
							Si	Type Wengle-Brade	enhead-G.	G. or G	.O. Dual	
Date	of Comple	etion:_	10-20-L	3	Pack	er <u>Non</u>	<b>.</b>	Reservo	oir Temp.	<del> </del>		
						OBSER	VED DATA					
Test	ed Through	h (Pro	<u>vor) (2</u>	oko)	(Meter	)			Type Tap	s Fla	nge	
	Flow Data			.a	Tubi			ng Data   Casing Data				
	Prever				Diff	. Temp.		Temp.	Press.	Term	Duration	
No.	(Line) Size	(Ori	fical			o <sub>F</sub> .			psig	1	of Flow	
SI	0120	+	126	parg	11W	Γ•	psig	r.	psig	·F.	Hr.	
1. 2.	),#	2.0	00	46.3	2.72	60	263			<del>                                     </del>	24	
2.	1,0	2.0	00		3.32	60	21.2			1	2)	
3.	1,00	2.0	00	38.4	1.52	60	206				24	
4. 5.	<u> </u>	2.0	00	19.1	5.6×	60	11/9				21.	
No.	Coefficient		$\sqrt{h_{W}p_{\mathbf{f}}}$ ps		essure psia	FLOW CALCUL re Flow Tem Factor Ft		Gravity Factor F <sub>p</sub>	Compress. Ra Factor G		Rate of Flow Q-MCFPD 15.025 psia	
1. 2.	25.58		20,825			1,000		0.9359	P*		-109 108.6	
2.	25.58		26.598			1.000		0.9359				
<u>3.   </u>	25.58		32.324			1,000		0.9359		,	-774 773.8	
3。 4。 5。	25.58		hl. 201	hit. 201		1.000		0.9359			59-1058.2	
as Li	quid Hydr y of Liqu <b>5.866</b>	id Hydr	rocarbon	s_ e=s}	PR	cf/bbl.		Speci Speci	fic Gravit	ty_Flowi	ng Fluid	
No.	P <sub>w</sub> Pt (psia)				(F <sub>c</sub> Q) <sup>2</sup>		(cQ) <sup>2</sup> (-e <sup>-s</sup> )	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Cal P <sub>w</sub>	P <sub>c</sub>	
±•+	276.2	76.3 65.1	2.9	2	8.53		28	77.4	22.6	275.2	88.0	
3.	219.2	18.0	3.7		20.61		20	67.2	32.8	259.1	82.0	
1. 2. 3. 4.	162.2	26.3	6.2		38.56		78	51.1 32.1	67.9	226.0		
5.							<del></del>		DIAY	179.2	56.7	
COMPA ADDRE AGENT	SSand TITL	he Atla	ntic Re	Denn	TOP CIA			656				
WITNE COMPA	つつずり						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.
- $P_c$ = 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.
- hw 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  $P_{\rm W}$  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  $P_{\rm t}$ .