NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Poo	l Jalua	t	·	Fo	rmation	Y.	ates		_County	Lea		
	tial										/4-12-1957	
Com	party R.	Olsen O	il Cou	pany		Lease	Meyer	В	Wel	l No	2	
Unit H Sec. 11 Twp. 24 Rge. 36 Purchaser El Paso Natural Gas Company												
Cas	ing 7" W	t. 30.	0 1.D	ه ا	Se	t at 29	50 _{Pe}	rf		To		
Tub:	ing 2 1/2 W	t. <u>6.</u>	5 I.D	•	Se	t at	55 Pe	rf		Го		
Gas	Pay: From_	3004	To31	72	_L31	55 x	G_0.650		2051	Bar.Pre	ss. 13.2	
Pro	ducing Thru:	Casi	ng		Tu	bing	X Sin	Type We	singl	e Gorf	.O. Dual	
Date	e of Complet	ion: 6-	8-1948	1	Packe	r2740		Reservo	oir Temp		•0• Dual	
						OBSERV	ED DATA					
Test	ted Through	(III)	<u>अप्रय</u> ्य	Me)	(Meter)				Type Tap	s		
Flow Data				a			Tubing Data		Casing Data			
No.	(Line)	(Orifi	ce)			i i		1	Press.		of Flow	
SI	Size	Siz	e	psig	h _w	°F.	ps1g 655	P.	psig	r •	Hr. 72	
$\frac{51}{1.}$	4	1.500		22	18.49	88	515	 	<u> </u>		24	
2.		1.500	1	44	26.01	94	458				24	
3.	كالمراب المراب المساول المساول المساول	1.500		228	42.25		368	ļ			24 24	
4.	4	1.500		215	51.84	85	321	 			24	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$									Rate of Flow			
	Pis (24-Hour) 7		$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$		psia	F	t					
1. [13.99		65.92		.9741		.9608		1.020		880	
2.	13.99		81.76		.9688			.9608 .9608	1.020		1,086	
3. 4.			100.91 108.72			.9768		.9608	1.019		1,455	
5.					PR	ESSURE C	A LCUTATI					
rav	Liquid Hydro ity of Liqui 5.866	d Hydro	carbon	S				Speci	fic Gravi	t.v Flow	rator Gas 0.650	
'с	5.866		(1-	e-s <u>)</u>	0.132			Pc	668.2	_ ^P c	P40.J	
No.	Pt (psia)	P _t ²	F _c Q	1	$(F_cQ)^2$	(+	c ^{Q)2} -e ^{-s})	P _w 2	$P_c^2-P_w^2$	XXX		
1. 2.	528.2 471.2	279.0 222.0			26.63 40.58	3.5		282.5 227.4	164.0 219.1	+		
2. 3.	381.2	145.3			61.62	8.1		153.4	293.1			
4.	334.2	111.7			72.93	9.6	53	121.3	325.2			
5.			J						1			
	olute Potent		1,	300	<u> </u>	MCFPD;	n 0.	715				
	PANY RESS		711	NE YE	n Oli Co	AND BUTTO	ine. Ok	ahoma CI	ty, Uklaho) ma		
AGE	RESS_ NT and TITLE		Ph	IIIp	Randolp	h, Vice I	residen	E	• • • • • • • • • • • • • • • • • • • •			
WIT	NESSED											
COM	PANY					DEN.	ADVC					
						KEM	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 T Actual rate of flow at end of flow period at W. H. working pressure (P_W). MCF/da. @ 15.025 psia and 600 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.
- Fil Flowing temperature correction factor.
- For 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 $P_{\rm t}$.