NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	BAS	IN D	AKOTA	L	Fc	rmation		AKOTA		_County		San Juan	
Initi	ial	X		_Annua	1		Spec	ial		_Date of	Test	8/19/64	
Compa	any	ta D	emle	pment	Co.	1	Lease	Sandia	Federal	Wel	l No	_1	
Unit	P	_Se	c	9 _Twr	·	Rge Rge	ə. <u>11</u>	Purch	naser	E) Pass	Metur	al Gas Co.	
Casir	18_4_1/2	<u>w</u> ₩t	· <u>10.</u>	<u> </u>	D	352 Set	t at	Per	rf669	0.	To	677A	
	•								•			<u></u>	
Gas F	Pay: Fr	om	6680	_To	6774	L 67	38X	G670		514	Bar.Pre	88. 12.0	
												Ges G.O. Dual	
Date	of Comp	leti	on:	-		Packe	r	Sin	gle-Brade Reservo	nhesd-G. ir Temp.	G. or (.O. Dual	
Dave	OI COMP		····					ED DATA					
Teste	ed Throu	gh .	(Roce	HUK) ((Choke)	(Managery)		DD DAIA		Type Tap	os		
	Flow D			ata			Tubing	Data	Casing I)ata			
T		र)	(Cho	ke)	Press.		Temp.	Press.	Temp.	Press.	Temp.	Duration of Flow	
No.	(Line Size	1	Si	ze	psig	h _w	o _F .	p sig	o _F ,	psig	°F.	Hr.	
SI								1928		20.49		7 Days	
1.		_	3	<u>/4:</u>	343	ļi	86_	343	- 86	1004	┪	3 Hrs.	
2 . 3.		-+				 	 			_	1		
4.													
5.						<u> </u>			<u> </u>		<u> </u>	<u> </u>	
							FI.OM CAT	CULATION	S				
No.	Coefficient				Pressure Fl		Temp.	Gravity Factor	Compress. Factor		Q-MCFPD		
	$(24-Hour)$ $\sqrt{h_{WP}}$			of psia		Ft		Fg	F _{pv}		● 15.025 psia		
1. 2.	12.3650				355		9759		.9463	1.032		4,183	
3.													
3. 4. 5.													
5.													
las L	iquid Hy	droc	arbor	n Rati	o		cf/bbl.	alcuiati	Speci			arator Gas	
Gravity of Liquid Hydrocarbons					ons 1-e ⁻⁸)	deg.			Specific Gravity 1 Pc 2061 Pc			4247.7	
'c				\	T-6 -7			-	- c	1016	c P_2		
No.	P _w		P t	2 F	cQ.	(F _c Q) ²	? (I	(cQ) ² L-e ^{-s})	P _w 2	P _c ² -P _w ²	c	al. Pw Pw Pc	
	Pt (psi	a)		-+-					1032.3	3215.	4	.493	
1. 2.		士											
3.		_								+			
4. 5.		+											
	lute Por	enti	ial:	5,1	.53		MCFPD	; n75)		-		
COMP	ANY		30	ta Dev	A J Chai	at Co.	Earne -	han Marr	Novi es				
ADDR	ESS_ T and T]	ጥ፤ ፑ		Coor	e L	Hoffman.	Preduc	ton, New tion Engi	noor	. 	18		
	ESSED				Grent						CILI	110	
	PANY					turel G	e Co.	V4 5775			14.14	1	
	-						KE	MARKS	e e		CEP 2	1964	

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 I 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.
- $h_{\mathbf{w}}$ Differential meter pressure, inches water.
- FgI Gravity correction factor.
- F_t 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 $P_{\mathbf{t}}$.