MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Basin Dal	cota	·	Formation	Dako	ta		_County	San Jus	ın	
Init	ial 🗶		Annual		Spec:	ial		_Date of '	rest	11-25-60	
Company Sunray Mid-Continent Lease N. M. Federal "N" Well No.									<u>k</u>		
Unit	A S	Sec 7 _	wr	ON Rg	e. 12W	Purcl	naser	o. Union			
Casi	ng 🛂 V	/t 11.	6# I.D.	4,00 0 Se	t at 69	61 Pei	cf. 670)6	Γο <u>6</u> ξ	360	
Gas Pay: From 6706 To 6860 L 6695 xG 0.65 _GL Bar.Press. 13											
Producing Thru: Casing Tubing Type Well Single Single-Bradenhead-G. G. or G.O. Dual											
Date	of Complet	ion•	10-31-60	Packe	r no	Sing	gle-Brade	nhead-G. (3. or G	.0. Dual	
D 400	or compres		10-11-00	r dono		ED DATA			105	· · · · · · · · · · · · · · · · · · ·	
m +	ad Mhaanah	(D	(Ob alsa) (16 -1)		ED DATA			_		
	ed Through										
$\overline{}$	(Prover)	(Chok	ow Data e) Pres	s. Diff.		Tubing Press.	Data Temp.	Casing Da	Temp.	Duration	
No.		(Oxida	e psi	g h,				psig		l of Flow	
SI						2117		2120			
1. 2.		0.75	0 26	4	80 °F	325	80 0p	738		3 hrs.	
<u>3.]</u>		1									
4. 5.											
No.	Coefficient $(24-Hour) \sqrt{h_w}$			Pressure		tor	Gravity	Compress. Factor Fpv		Rate of Flow Q-MCFPD @ 15.025 psia	
1.	12.3650			277	0.9813		0.9608	1.029		3323	
1. 2. 3. 4.								_		· · · · · · · · · · · · · · · · · · ·	
4.											
5.											
ravi	iquid Hydro ty of Liqui	d Hydro			cf/bbldeg.	ALCU ATIO	Speci Speci			rator Gas ing Fluid 51.9.7	
No.	P _w	P _t ²	F _c Q	$(F_cQ)^2$	(F ₀	Q) ² e-s)	P _w 2	$P_c^2 - P_w^2$	Ca P	1. Pw Pc	
<u>].</u>				 			564	3985.7		0.346	
1. 2. 3. 4.				<u> </u>			· · · · · · · · · · · · · · · · · · ·				
4.				Ţ					1		
Absol COMP	lute Potent ANY Sunra ESS 166 P	y Mid-Co	3800 ontinent	Oil Compan	MCFPD;						
AGEN'	T and TITLE	Heller	ustress	salt	Engin		HAYTCO				
COWD!	ESSED ANY								A.		
					REMA	ARKS		RE	IM		

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_cI 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
- P_{f} Meter pressure, psia.
- hw= Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{DV} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If P_{W} cannot be taken because of manner of completion or condition of well, then P_{W} must be calculated by adding the pressure drop due to friction within the flow string to F_{+} .