MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

County

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Revis	ed	12	-1-5	5

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Initi	al X		Annual_		Spe c	ial		_Date of	rest	9/15/6	5	
Company Sinclair Oil & Gas Company Lease W. T. Matkins WN Well No. 4												
Unit K Sec. 14 Twp. 23S Rge. 36E Purchaser Kl Paso Natural Gas Company												
Casing 5 1/2"Wt. 15.50# I.D. 4.950 Set at 3589 Perf. 2931 To 3189												
Tubing 2 3/8"Wt. 4.7# I.D. 1.990 Set at 3504 Perf. OE To												
Gas Pay: From 2931 To 3189 L 3060 xG .661 -GL -GL Bar. Press. 13.2												
Producing Thru: Casing X Tubing Type Well G. O. Dual Single-Bradenhead-G. G. or G.O. Dual												
Date	of Complet	ion:	8/25/65	5Pack	er <u>350</u>	2	_Reservo	ir Temp				
					OBSERV	ED DATA						
Teste	d Through	(Prove	r) (Chol	te) (Meter)			Туре Тар	s			
						M	Data	Coning D	a t a			
			ow Data		(7)		Data	Casing D	Tem	┨ ,	Duration	
				ess. Diff	. Temp.	rress.	Temp.	rress.	remb.	1 '	of Flow	
No.	(bine) Size		.ce) .e p:		o _F .	psig	o _F .	psig	1	4	Hr.	
SI			P.		 	1 -3		556		<u> </u>	72	
1.	2 N	1.0	ю :	18	98			552			1	
2.	2n	1.0	ŎŎ"	38	1 76	<u> </u>	 	546			1	
3.	2 H		100°		60	 		526			1	
4.	2"			20	58			494	,		1	
5.		 			 		1					
	0 - 86: -			Pressure		CULATION		Compre	88. I	Rate	of Flow	
No.	Coeffici	-			Fac	tor	Factor	Facto	r	Q-MC	FPD	
	(24-Ho)	ır) 🗔	hupe	psia	F	74.	F	Fpv		9 15.	025 psia	
┡╌╌╅╾			A -MLT							4	(2-11)	
1.	22,0662			31.2		53	.9527	1.050		1000		
2.	22.0662			51.2		50	<u>.9527</u>		8 / 1	32	3. 1010 .	
3.	22,0662			95.2	1.00		.9527		1/0/3		5. 1/2	
4. 5.	22.0662			133.2	1.00	117	.9527	2307	11010	- 2)	100	
Gravit	iquid Hydro y of Liqu 1.758	id Hydro	carbons	49-49-	cf/bbl.deg		Spec:	ific Gravi	ty Flo	wing F	luid661	
No.	P _w	Pt ²		(F _c Q))2 (1	$\left[\frac{F_cQ}{1-e^{-s}} \right]^2$	P _w 2	$P_c^2 - P_w^2$	J	al. P	P _w P _c	
1.	565.2	319.4		3 1.23		.161	319.6		565.	3_/_	.993	
2.	559.2	312.7	1.86	3 3.47		.451	313.1				983	
3.	539.2	290.7	3.51			.61	292.3				948	
4.	507.2	257.2	4.99	4 24.91		3.24	260.4 L	63.6	510.	3/	.897	
5.								<u> </u>				
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	ANY			o Natural	Gas Comp	INT.						
COMP	ил т ————		DI 16	MEDULET		MARKS						
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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 (Pw). MCF/da. @ 15.025 psia and 600 F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- $P_{\rm w}$ 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.
- F_g : Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{DV} 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 $P_{\mathbf{t}}$.