MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

FOO	± <u>Basin</u>	Dakota		r (ormation		<u>akota</u>	-		$\underline{\hspace{0.1cm}}$ County $\underline{\hspace{0.1cm}}$	Rio	Arriba	
Initial # Annual_					Special				ate of	Test_	9-23-64		
Company Caulkins Oil Company Lease Breech "B" Wall No. PD-123													
Unit R Sec. 7 Two 26 M Rose 6 W Dunchagen Coult of Co. C.													
Unit B Sec. 7 Twp. 26 N Rge. 6 W Purchaser Southern Union Gas Company 7" 23 & 26 6.276 6845 Casing 43" Wt. 11.6 I.D. 4.000 Set at 6409-7570 Perf. 7284 To 7504													
Cas	ing /li	Wt. 11.	6_I	.D. 4.0	00 Se	t at 64.00	7570	Perf.	7	284	To	7504	
Tubing 2-3/8Wt. 1.7 I.D. 1.995 Set at 7280 Perf. 7280 To													
Gas	Gas Pay: From 8284 To 7504 L 7280 xG .700 GI 5096 Bar. Press. 12												
Pro	Producing Thru: Casing no Tubing yes Type Well Gas/Cas Dual Single-Bradenhead-G. G. or G.O. Dual												
Dot	Date of Completion: Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion: 91564. Packer 6385 Reservoir Temp. 180													
						OBSERV	ED DAT	Á					
Tes	ted Through	Trees	(C	Choke)	(Meter)					Type Tap	s		
Flow Data						Tubi			a	Casing Data		<u> </u>	
	(Prover)	(Chok	(Choke)		Diff.	Temp.	Pres	ss. Temp.		Press.	Temp.	Duration	
No.	(Line) Size	(Orifi	ice)	neig	h	o _F .		i		psig	1	Of Flow	
SI		+		berg	W.	F •				 	Γ.		
1.					 		21,9			Pkr		Shut in 184 hi	
2.	3/4*						50		<u> </u>	Per	 	3 hours	
3.											 		
4.									Continue System				
<u>5. l</u>													
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	Cooffic					LOW CAL							
No.	COETITC.	Coefficient P			ressure Flo		remp.	-ra	Vity	Compre		Rate of Flow	
10.	(24-Hour) 7/hw			psia		ract	Factor F _t		ctor	Factor		Q-MCFPD	
ᢋ᠊ᡶ	(~4-110	V ''W	'f	psia	r 		r _g		Fpv		@ 15.025 psia		
1. 2.	14.1605				516	97		9:	252	1.058		6908	
2•													
3.						·							
4. 5.			,		+								
-2:-1													
					ממס	ESSURE CA	L CTTT A	TONG					
					FRE	to anucca	TY OF W	TIUNS					
Gas I	Liquid Hydro	oca rbon	Ratio	,		cf/bbl.			Speci	fic Gravi	tu Sana	matam Can	
Gravi	ty of Liqui	id Hydro	carbo	ns		deg.							
/3 = 3										6.260.004			
			`		- V - J - V -			-	. С		- - C	O E E E E E E E E E E E E E E E E E E E	
	$P_{\mathbf{W}}$				-								
No.		$P_{\mathbf{t}}^2$	Fc	Q	$(F_cQ)^2$	(F.	ຸດງ ² -e−s)	P,	_# 2.	$P_c^2 - P_w^2$	Ca	1. P.	
_	Pt (psia)				•	(1-	-e-s)	,	14		P		
1. 2.	-516	266,256	65	-80	1329.64	7 21.2	100	1,608	LLL	1 657 56	2758	506	
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	lute Potent	tial:_	_ 976	J.		MCFPD;	n /1	35 h	7 00	3 1.	oth 44	1.00- I	
COMF			-		Company		-\±0 ;	,,,,,,,		~~~ \ C	C.N	1.048 /_	
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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 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
- 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
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- F_{g} : Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{DV} 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 $P_{\rm t}$.