MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool	l <u>In</u>	pat	F	Formation Queen			County Lee				
Init	tial		Annual		Spec	cial	×	Date of	Test_4	-12 to 19, 1961	
	pany Sh										
	<u> </u>										
	ing										
	ing 2 1/2"										
										ss. 13.2	
Date	lucing Thru	tion:	6-29-50	Packe	r 35	73 Sin	gle-Brade	enhead-G.	G. or G	.O. Dual	
						ED DATA		TI ICMP.			
Test	ed Through	(December	a) (61-1)	(Moton)		ED DAIR			-	l	
Tested Through (Prover) (Choke) (Meter) Flow Data Tubing								Type Taps			
,,,	(Prover)	(Choke	Press	· Diff.	Temp.	Press.	Data Temp.	Casing D		Duration	
No.	(Line) Size	(Orific	e)	1	o _F .	1	°F.		o _F .	of Flow Hr.	
SI 1.		1 400	710			Packer		766		72	
1 :	4	1,500	200	5.29 10.24	66 63			61.3		24	
3.	4	1.300		16.00	60			580 547		24 24	
4.	4	1,500		23.04	60			519	 	24	
5 . [<u> </u>									
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<u>-</u>	Coeffic	ent				CULATION					
No.		İ		Pressure psia		temp.	Gravity	Factor		Rate of Flow	
	(24-Ho	ır) ¬/	h _w p _f			tor	ractor F			Q-MCPD 15.025 psia	
1.	13.99		34.89 230.2		.9943		F'g .9414	F _{pv}			
2.	13.99		6.72 213.2		.9971		.9414			466.9	
3. 4.	13.99		57,30 205.2		1,000		.9414	1.022		627.0 770.4	
+•	13.99		59,59 210,2		1.000		.9414	1.02		935.7	
5.							62744	I to	-	933.7	
ravit	iquid Hydro Ly of Liqui	d Hydroca	arbons 🔭	7		ALCU'ATIO	Speci Speci	fic Gravitic Gravit	ty_Flowi	rator Gas .677 ing Fluid Home 607.1	
10.	P _w Pt (psia)	P _t ²	F _c Q	(F _c Q) ²	(F ₀	Q) ² e-s)	P _w 2	P _c -P _w ²	Cal P	P _C	
 2.	593.2	351.9	.5423	,2941	.03		392.1 351.9	215.0 255.2	593	. 90.4	
3. [560.2	313.8	.6664	.4441	.05		313.8	293.3	560.		
	532.2	283.2	.8094	.6551	.00%	45	283.3	323.8	532.3		
OMPA		She	11 Oll Con	pany .	i _MCFPD;						
DDRE			0. Box 185			Herico					
	Cand TITLE SSED		L. Bllord,	Gas T s	ter						
OMPA			A. Mikel	<u> </u>							
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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 = Actual rate of flow at end of flow period at W. H. working pressure (P_W) . MCF/da. @ 15.025 psia and 60° F.
- Pc= 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.
- Ft Flowing temperature correction factor.
- Fpv 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 $P_{\mathbf{t}}$.

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