MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised	12-1-55	

Poo	1 Ante	lope Ridg	<u> </u>	Formatio	on De	wonlan		County_	L4	a a
										9-14 to 15,19
Com	pany	Shell Ot	l Company	<u> </u>	_Lease_	Antelope	Ridge Un	it We	ell No.	34-1 3
Unit	<u> </u>	Sec 3	Twp	23- S R	ge3	4-8 Pur	chaser	outhern	Union G	as Company
LLI	er 4 1/2	2"Wt	13.5 I.D.	3.92 S	et at_1	4,93 5 P	erf. 14	,695	То	14.830
Tubi	ing 2 1/2	2" Wt	5.5 I.D.	2.441 S	et at 1	4,440 P	erf.		To	
										ess. 13.2
				T						
				Pack						
	<u>.</u>			, dok			neserv	oir Temp.		
Toe+	od There	ula (Barra) (a))	N (22)		VED DATA				
	ed Inroug			(Meter	<u>)</u>			Type Ta	ps	Fige.
Т	(Parties	F1	ow Data	ss. Diff	Temp	Tubing	Data	Casing I	Data	
10.	(Line)	(Orifi	ce)	ig h _w	Temp.	1			1	of Flo
I	Size	Siz	e ps	ig h _w	°F.	 	°F.	psig	□ oF•	Hr.
•	4	2.500	60	0 15.0	42	4470			- 	ļ
•	4	2.500	58	0 52.0		3569	 		 	4
•	4	2.500				3183				3
:	4	2.500	31	0 74.0	43	2935	 		 	3
•	(24-He	3		psia 613.2 593.2		tor 't	Factor F _g .9535	Factor F _{pv} 1.07	7	Rate of Flow Q-MCFPD @ 15.025 psia
c	42,1	3 : :	212,92	743.2	1,020		.9535	1.09		7.537 9.568
	42.1	3	345.30	823,2	1,016	8	.9535	1.10		11,081
avit	quid Hydr y of Liqu 5.866	uid Hydrod	Ratio earbons (1-e ^{-s}	73,380 63° API	cf/bbl. deg.		Speci: Speci:	fic Gravi fic Gravi 483.2	ty Flow	rator Gas ing Fluid7 20,099.1
•	P _t (psia)		F_c^Q	(F _c Q) ²	_ [(1.	cQ) ² -e-s)	P _w 2	$P_c^2 - P_w^2$	Ca P	1 77
	4115.2 3582.2	16934.9	24.778 44.212			05.1 71.5	17240.0	2859.1	4152	.1 92.6
	3196.2	10215.7	56,126	3150.1		65.6	13803.7 11781.3	6295.4 8317.8		
	2948.2	8691.9	65.001			99.9	10791.8	9307.3		
osolı	NY	tial:	Oll Comp	Roy Rossell	MCFPD;		00			
OMPAI ODRE: GENT		E A T.	R11ami -	Gas Taste	•					

This test is not absolutely representative because of poor separation on the last three rates.

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 (Pw). MCF/da. @ 15.025 psia and 600 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
- Pr Meter pressure, psia.
- hwI Differential meter pressure, inches water.
- Fg = Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{pv} 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 $P_{\rm t}$.

19. 19 E 433 11 12 6.00.00