MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Regin Daketa Formation Daketa						County San Juan				
Init	ial	Ann	ual		Spec	ial		_Date of S	Test <u></u>	13-61	
Comp	any Pan Amer	ican Petro	Alexan Con	р.	Lease Gal	leges C	unyon Unit	Well	l No. <u>95</u>		
Unit	. <u> </u>	ec. 31 T	wp. 28-N.	Rg	e. 11-W.	Purc	haser_ So t	thern Uni	on Gas	Company	
Casi	ng 4.5 W	t. 9.5	I.D. 4.0	O _Se	t at 65 9	7 Pe	erf. 6333	· ·	To 6423		
Tubi	ng 2- 3/8 W	t. 4.7	I.D. <u>1.9</u>	5 Se ⁻	t at 631	. 3 Pe	erf. open	inded	Го		
	Pay: From_										
Prod	lucing Thru:	Casing_		Tu	bing <u>X</u>	<u> </u>	Type We	11 Single	Gas		
Date	of Complet	ion: 61.	-61	Packe:	r none	Sir	ngle-Brade Reservo	ir Temp	i. or G	.0. Dual	
		•			OBSERV	ED DATA					
Test	ed Through	(Recover)	(Choke)	manax)				Type Taps	s		
	Flow Data					Tubing Data		Casing Da	ata		
No.	(Line)	(Choke)	Press.	Diff.			1 1			Duration of Flow	
	Size	(Sociation) Size	psig	h _w	°F.			psig	^o F∙	Hr.	
Τ,	I 13 days	3/4"		173		2068 225	60°(est)	2103	66°(ee) 3 hr.	
2 . 3 .	· · · · · · · · · · · · · · · · · · ·										
4.											
<u></u>				<u></u>		OUT A MITON	 		L		
	Coeffici	Pr	FLOW CALCULAT Pressure Flow Temp. Factor psia Ft		Temp.	Gravity	Compres	ess. Rate of Flow			
No.	(24-Hou	$r) = \sqrt{h}$	wPr	psia	Fact F	tor t	Factor F _p	Factor F _{DV}		Q-MCFPD @ 15.025 psia	
1. 2.	12,365			185	1.000		9258	1.022		2164	
2.] 3.]											
3 c 4 . 5 .											
				PRI	ESSURE CA	ALCULATI	ONS				
se T	iquid Hydro	earbon Rat	io		cf/bbl.			fic Gravit	tv Senar	rator Gas	
ravi	ty of Liquid	d Hydrocar			deg.		Speci	fic Gravit	ty Flow	ing Fluid	
c			(1-e ° <u>/</u> _				г _{с. 44}	15		7,447	
No.	$P_{\mathbf{w}}$	P ₊ .	FO	$(F_cQ)^2$	(F	0)2	P _w 2	$P_c^2 - P_w^2$	Ca	l. P	
	Pt (psia)	- t	F _c Q	(1.CA)	(1)	c ^{Q)²} -e ^{-s})	···		Р,	Pw Pc	
1. [2. [5	70,025	3,903,200			
3. 4.									-		
4. 5.									1		
Abso	lute Potent					n75					
ADDR	ANY Pan A	O, Farmin	gton, Na	erperal							
AGEN WITN	ESS Box M T and TITLE ESSED	R. K. Box	er, dr.,	Senier	Petrole	m Engin	es Khi	1/Sauca	/-		
COMF					Parties.	ADVC					
					KEM	ARKS					



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 \equiv Actual rate of flow at end of flow period at W. H. working pressure (P_W). MCF/da. @ 15.025 psia and 60° 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.
- $h_{\mbox{\scriptsize W}}\mbox{\scriptsize I}$ Differential meter pressure, inches water.
- $F_g = Gravity$ correction factor.
- F_t 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 $P_{\mathbf{t}}$.