MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Basin Dak	ota	Fo:	rmation_	Dako	ta		_County	San Ju	an	
Initi	ial X	Annua	al		Speci	lal		_Date of	Test <u> </u>	-29-64	
Compa	any Aztec	011 & Gas C	ompany	I	ease <u>N</u>	YE		Wel	l No	1	
Unit	M _S	ec. 1 Tw	30N	Rge	עבו .	Purch	naser <u>So</u>	uthern Un	ion Gas	3	
										37	
Gas I	Pay: From_	6941 To	7087	L 694	1 x	<u>.700</u>		360	Bar.Pre	SS•	
Produ	ucing Thru:	Casing		Tub	oing X	Cin	Type We	11 Single	Gas	.O. Dual	
Date	of Complet	ion: 6-19-64		Packer	None	DTH	Reservo	ir Temp.	<u> </u>	Dual .	
	-				OBSERVI						
Test	ed Through	(COCOCOC) (Choke)	(ORACO ACC)X				Type Tap	ε		
		Flow D	ata			Tubing	Data	Casing D	ata	I	
No.	(1.ine)	(Choke)	Press.	Diff.				i	1	Duration of Flo	
		(Orifice) Size	psig	h _w	°F.		°F.		F.	Hr.	
SI 1.	7 days 2 days	3/4				1996 275		1993 647		3 hours	
1. 2. 3.									<u> </u>		
3. 4.		1									
4. 5.							<u> </u>		1		
				·	FLOW CAL	CULATION	S			D. 4 6 . 171	
N	1			1	n	1	Gravity Compress. Factor Factor		· 77	I ()_M(.9'P1)	
No.	(24-Hour) $\sqrt{h_{W}p_{f}}$		pf	psia	Ft		Fg	Fpv		@ 15.025 psia	
1.	12.365	3		287	1.000		9258	1.035		3400	
1. 2. 3. 4. 5.											
4.											
5.							21.04				
				PR	ESSURE C	ALCULATI	ONS				
Gas I	iquid Hydro	ocarbon Rati	.0		cf/bbl.					arator Gas	
	-	id Hydrocarb	ons (1-e ^{-s})		deg.		Spec:	ific Grav	P2 4.	wing Fluid 020.025	
. C			<u></u>			-	- 0				
	P	 						7 -			
No.	$P_{\mathbf{W}}$	$P_{\mathbf{t}}^2$	r _c Q	$(F_cQ)^2$	(F	$\left(\frac{1}{16} \left(\frac{1}{16}\right)^2\right)^2$	P_w^2	$P_c^2 - P_w^2$	C	al. $\frac{P_{\mathbf{W}}}{P_{\mathbf{C}}}$	
	Pt (psia)				(1	€ 5)	434.261	 		$P_{\mathbf{w}} = P_{\mathbf{c}}^{\mathbf{n}}$	
1. 2. 3. 4.	659										
3. 1											
5.											
Abso		tial:392			MCFPD	n7	<u> </u>				
		ec 011 & Ga wer #570. Fi			Mexico						
AGE	NT and TITL	E		721666	-/ € Ci	erl E. Je	meson, D	istrict E	ngineer		
	NESSED PANY		<u> </u>								
0 0111					REI	MARKS					

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 ($P_{\rm W}$). MCF/da. @ 15.025 psia and 600 F.
- $P_{\rm C}$ 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
- P_{f} Meter pressure, psia.
- $h_{\mbox{W}}\mbox{\fontsize{$\mbox{$\mathbb{Z}$}$}}$ 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 $P_{\mathbf{t}}$.