MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poo	1 Besin I	ekota		Fo	rmation	Dako	ta		County_	San Ju	e n	
Ini	tialX		Ann	ual		Spec	ial	· · · · · · · · · · · · · · · · · · ·	Date of	Test	June :	27, 1964
Com	pany Aztec	011 &	Gas Co	mpeny		Lease DA	VIB		Wei	ll No	11-D	
Uni	t 0	Sec	3 _{Tv}	vp. 31N	Rge	e. 124	Purc	haser So	ithern Uni	lon Gas		
	ing 4-1/2											
	ing 2-3/8											
	Pay: From											
										_		
Proc	ducing Thru e of Comple	ı: Ca	sing_	٠	Tul	oi.ng	Sin	Type We gle-Brade	ell sing. enhead-G.	G. or	G.O. I	Dual
Date	e of Comple	tion:_	0=50=0		Packer		<u>-</u>	Reservo	oir Temp.		-	
						OBSERV	ED DATA					
Test	ed Through	XECO	oot (Choke) *	Meter)				Type Tar	ε		
<u> </u>			Flow D				Tubing	Data	Casing I		J -	
No.	(Line)	(Ch (Ori	oke) fice)	Press.	Diff.			Temp.	Press.	1	1	Duration of Flow
	Size			psig	h _w	°F•		°F.	psig	°F∙		Hr.
$\frac{SI}{1}$	7 days 2 days	3/4	ļ. 10				1965 415	50°est	1965 943	50°est		3 hrs
1. 2. 3.										<u> </u>		
4. 5.	- 	<u> </u>		+						 	+	
5.												
					F	LOW CAL	CULATION	S				
No.	Coefficient			- 1	ssure	Flow	Temp.	Gravity Comp Factor Fac				
	(24-Ho	ur)	$\sqrt{h_W}$	p _f psia		Ft		Fg	Fpv		@ 15.025 psia	
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3.			 									
4.												
5. 1			<u> </u>					·				
					PRE	SSURE CA	ALCUT ATI	ONS				
	iquid Hydro					cf/bbl.		Speci	fic Gravi	ty Sepa	arator	Gas
ravity of Liquid Hydrocarbons (1-e-s)						deg. Speci			fic Gravi	ty Flow	ving F	
C				1-e - <u>/</u>				P _c _1	711	_Pc 39	w)zy	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
<u>-</u>	Pw	 							· · · · · · · · · · · · · · · · · · ·			
No.		P	F	cg	$(F_cQ)^2$	(F	Q^{2}	P _w 2	$P_c^2 - P_w^2$	Ca	1.	Pw Pc
-	Pt (psia)					(1-	-6 2)	89,249		F	W	Pc
2.								-);)				
3.												
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bso	lvte Pocent	ial:_	6253			_MCFPD;	n75			t		
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COMP	ANI					REMA	RKS	· · · · · · · · · · · · · · · · · · ·	-/0	·CIII	No. of Street, or other Persons and the Street, or other Persons a	
						Territ			/RI		DI	

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 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
- P_f Meter pressure, psia.
- hw- Differential meter pressure, inches water.
- $F_g = Gravity$ correction factor.
- F_t 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 $P_{\rm t}$.