MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Poo	l Wilder	at		Forma	tion_	Dako	ta		C	ounty	San J	luan	······································		
Ini	tial X		_Annual_		-	Spec	ial		D	ate of	Test	Jan.	28, 1960		
Company Southern Union G				as Company Lease Federal					Well No1-18						
Uni	t <u>M</u>	Sec. 18	Twp	30N	Rge	12W	Pu	rchaser	Sout	hern Ur	nion Ga	us Co	mpany		
	ing 42"														
	ing 2-3/8 "														
	Pay: From												12.0		
	ducing Thru														
Date	e of Comple	tion: Ja	n. 19, 1	.960 _F	 acker		S	ingle-Bra Reser	denhe	ead-G. (G. or	G.O.	Dual		
	•					OBSERV				• -					
Test	ted Through	(YUX	Chol	ke) (Me	ffth				Ty	ype Tap	s				
	<u></u>		low Data							Casing Data					
No.	(Prover) (Line)	(Orifi	ice)		iff.	Temp.	Pres	1 .			Temp.		Duration of Flow		
SI	Size	Size Size		sig	h _w	° _F .	psi,			osig 150	³r∙		Hr. 7 days		
1.		3/4	n 12	5		87				622			3 hours		
2. 3.												┼			
4. 5.															
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	Coeffic	ient		FLOW CALCULATIONS Pressure Flow Temp. Gra						avity Compress. Rate of Flow					
No.			$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$	psi		Factor F _t		Factor Fg		Factor F _{pv}		Q-MCFPD @ 15.025 psia			
1.	12,3650		V -WFI	137		0.9750		0.9463		1.012		1,582			
2.															
3 c 4 •															
5.				<u> </u>							L				
					PRE	SSURE C	ALCUTA!	rions							
as Liquid Hydrocarbon Ratiocf,											c Gravity Separator Gas c Gravity Flowing Fluid				
c(1-e ^{-s})				-s)	Pc				2217 P ² 4915						
										4	PWZ	402			
No.	$P_{\mathbf{w}}$ $P_{\mathbf{t}}$ (psia)	Pt2	F_cQ	$Q (F_cQ)^2$		$(F_cQ)^2$ $(1-e^{-s})$		P _w 2		$P_c^2 - P_w^2$		al.	Pw Pc		
1.												—			
1. 2. 3. 4.												_			
4. 5.											Ĺ				
Abso	lute Potent ANY SOUT	tial:	1686	· · · · · · · · · · · · · · · · · · ·		MCFPD;	n	0.75							
ADDR	ESS BOX	015, Fa	radington	, New !	exic)									
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						REM	ARKS					_			
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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 I 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
- Pw- Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- P_t Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pr Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n _ 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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