SWP-123

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1-D 1-F

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122 Revised 12-1-55

Pool Basin Dekota				F	ormation_		Dakota	County Sen Juan					
Initi	al	x	_Annua	al		Speci	al		_Date of	Test	1/2/63		
Compa	ny South	est P	roduct	ion Co	mpany I	ease	Hanson	Federal	Wel	1 No	1		
Unit	Se	ec	11 Tw	p	N Rge	. 11 #	Purc	haserl	El Paso N	sturel	Gas Comp	any	
	g 44 Wt												
Tubing Wt. 2.75# I.D.													
	ay: From_												
rrouu	cing Thru: of Completi	:	12/20	/62	Packer	,	Sin	gle-Brade Reservo	nhead-G. ir Temp.	G. or C	.O. Dual		
Date	of Complet:	ion:	14 20/	02	racker						_	~	
						OBSERVI	ATAC CE						
Tested Through (Provide (Chole					e) (Metat)					nps			
		F	low D	ata			Tubing		Casing I	ata Torm	j D.,,	eation	
No.	(Prover) (Line)		oke)		Diff	Temp.		1		Į.	l of	Flow	
NO.	Size	Si	ze		h _w	°F•	psig	o _F ,		³ F∙			
SI			#				1927		1945	 	7 day		
1. 2.		3/	An .		149	79	149	79	645	<u> </u>	3 hr		
2• 3•											ļ		
4. 5.		•			-			-		+	 		
<u> </u>								.h					
	Coeffici	ent.		P	ressure	FLOW CAL	Temp.	Gravity	Compre	ess.	Rate of	Flow	
No.						Factor		Factor	Facto	Compress. Factor Fpv		Q-MCFPD	
	(24-Hour)		√ h _w p _f						F _{pv}		1.878		
1. 2. 3. 4. 5.	12.3650				161	.9822		.9463	1,0	13	1,070		
3.													
4.													
<u> </u>			L										
					PR	ESSURE C	ALCU AT	IONS					
Gas Liquid Hydrocarbon Ratiocf/bbl								Specific Gravity Separator Gas Specific Gravity Flowing Fluid			as		
Gravity of Liquid Hydrocarbons				ons_					1937 PC 3829.8				
c			 '	(1 -e 2	<u> </u>			Pw	657	P ²	431.6		
													
No.	$P_{\mathbf{W}}$	P:	2 t. I	_c Q	$(F_cQ)^2$? (F	(cQ) ² (-e ^{-s})	$P_{\mathbf{w}}^2$	$P_c^2 - P_w^2$. с	al.	Pw Pc	
	Pt (psia)					(1	-e ^{-s})		7500 7			335	
1. 2.					<u> </u>		+	431.6	3378,2			****	
3.													
4.									 	- 			
5.		L		0.00		MORDE		.75					
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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 600 F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- 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.
- 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 $P_{\mathbf{W}}$ 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 $P_{\mathbf{t}}$.