1-F 1-WD

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122 Revised 12-1-55

DIST

Poo!	Basi	n Dakot		Fo	rmation	D		County San Juan					
Initial X Annual_						Spec	·	Date of Test 6/27/61					
Company Southwest Production Co.					Lease Mudge Federal			Well No. 5					
Unit O Sec. 33 Twp. 27N Rge. 11W Purchaser El Paso Nat. Gas Co.													
Cast	ing 42"	Wt. 10	. 5 0 I	.D.4.040)Se	t at 64	24 Pe:	rf	6296	To63	34		
Tub	ing 130	Wt. 2	.9 I	.D.1.610) Se	t at 63	16 Pe:	rf.	6316	To_			
	Gas Pay: From 6296 To 6334 L 6316 xG .67 _GL 4231.7 Bar.Press. 12.0												
										_			
	Producing Thru: Casing Tubing X Type Well Single-Gas Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 6/16/61 Packer Reservoir Temp.												
540	9 01 00mp.			 ,,			ED DATA			 	~ *		
m4		_1_ /PVS	ever \ (Ol 1 \	APPENENTE SEA		ED DATA		W Wo	_			
Tested Through (Choke) (Choke)									Type Taps				
	(Prove		Flow D	Press.	Diff.	Temp.	Tubing Press.		Casing D	Temp.	Durat	ion	
No.) (Ori	ifice)	psig			psig		psig	∍ _F .	of F	low	
SI		 `	7126	hara	h _w	1.0	<u> </u>			1.	 -		
1.		3/4	(1)	210		74	1800 210	74	1800 1248	┼	7-Days		
2.		477		210			2.0	- '3-	14-70	<u> </u>	J-14-		
3.]													
4. 5.				 						 			
<u>5. l</u>				ļl			L		L	L	<u> </u>		
							CULATION		- Ta-		D-4 - 6 F11		
N _a				ssure Flow Temp.			Factor Factor						
No.			p _f psia							@ 15.025 p	sia		
-	12 2480		V 'W	220		J 4460		.9463					
2.	12.3650		+		220	1700		7-103	1.02		2,370		
3.			 										
4.													
5.										L		;	
					PR	essure c	ALCU ATI	ONS					
Gas Liquid Hydrocarbon Ratio									ecific Gravity Separator Gasecific Gravity Flowing Fluid				
ravity of Liquid Hydrocarbons							1812 P _C 3283.2						
c			\·				•				5 87.6		
	 -								ı 		 _		
No.	P _w	F	$\mathbf{r}_{\mathbf{t}}^{2} \mid \mathbf{r}_{\mathbf{t}}$	eg	$(F_cQ)^2$	(F	cQ) ² -e-s)	P_w^2	$P_c^2 - P_w^2$		P _W		
-	Pt (psia	<u>' </u>				(1	<u>-e -) </u>	1000 £	1405 7	r	77		
† :+								587.6	1695.7	 	-681		
3.													
1. 2. 3. 4. 5.													
									L				
	olute Pore PANY_ Seu					MCFPD;	n75						
ADDF	RESS 162	Petr.	Center	Bldg.,	Farming	rton. N.	M.						
AGEN	IT and TI	LE Ged	rge L.	Heffmar	ì, Jr.,	Product	ion Fores	en					
	IESSED												
COMI	PANY					ייים ס	ARKS			arn.			
						U.C.M	MIND		/~!	1141/	(1)		
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INSTRUCTIONS

This form s to be used for reporting multi-point back pressure tests on gas wells in the Si te, except those on which special orders are applicable. Three copies of this orm and the back pressure curve shall be filed with the Commission at Box 871, Sai a Fe.

The log lo paper used for plotting the back pressure curve shall be of at least three incocycles.

NOMENCLATURE

- Q I Actual rate of flow at end of flow period at W. H. working pressure ($P_{\rm W}$). MCF/da. @ I .025 psia and 60° F.
- P_c 72 hour we head shut-in casing (or tubing) pressure whichever is greater. psia
- Pw- Static well ead working pressure as determined at the end of flow period. (Casing if lowing thru tubing, tubing if flowing thru casing.) psia
- Pt Flowing well head pressure (tubing if flowing through tubing, casing if flowing the ugh casing.) psia
- P_{f} Meter press re, psia.
- hw Differentia meter pressure, inches water.
- Fg Gravity con ection factor.
- Ft Flowing tem erature correction factor.
- Fpv Supercompi ssability factor.
- n I Slope of t ck 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 frict on within the flow string to $P_{\mathbf{t}}$.