MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poo	l Basin-	-Dakota	 -		_Fo	rmation	D.	akota		_County_	San	Juan		
Ini	tialx		Annu	al_			Spec	ial		_Date of	Test_	12/	13/60	
Com	pany Sou t	hwest	Product	ion	Con	pany	Lease	Edga	r Federal	Wel	l No.	#5		
Unit	t <u>G</u>	_Sec	11 Tw	p	271	Rge	e. <u>12</u> M	Pui	rchaser	l Paso Na	tural	Gas C	ompany	
Cas	ing 51"	Wt. 15	.5 <u>I</u>	.D	4.99	00Set	t at6	309 I	Perf62	20	To_6	266		
Tub:	ing 2 3/8	_Wt 4	.70I	.D	1.99	5Set	t at 6 :	242 I	Perf		To	242		
Prod	ducing Thr	u: Ca	.sing_			Tul	bing	x	Type We	ell Sing	10- Ga	18		
Date	e of Compl	etion:	11/26	3/60		Packer	r	Si	ingle-Brade Reserve	enhead-G. oir Temp.	G. or	G.O.	Dual	
	•	-		4				ED DATA		• -				
m4	had Marana	h (D	\ ()	7 h - 1 -	- \	(Wat and		DD DRIF	•		_			
Test	ted Throug				e) .	T S S S S				Type Tap				
	(Prover		Flow Date (Choke)		88.	Diff	Temp		ng Data	Casing D		_	Duration	
No.	(Line)	(Ori	fice)		1	l	_						of Flow	
	Size	S	ize	ps	ig	h _w	° _F .	ps i g		psig	 		Hr.	
SI 1.		1 2/	3/4"			244	74	1991 244		2003 568			7-Days	
2.					二									
3. 4.		- 									 	+-		
5.									1					
						ī	FLOW CAL	СПАТТ	ONS					
Т	Coefficient				Pressure Flow Tem			Temp.	Gravity			Rate of Flow		
No.	(24-Hour) 7		- / h y	h _w p _f		neia	Factor F _t		Factor	Factor F _{pv}		Q-MCFPD @ 15.025 psia		
1.	12.365		✓ V 11WI		256		.9868		Fg			3,033		
2.	12,303	<i></i>					17000		7709	1.04			11033	
3 e			 -		ļ							 		
4. 5.														
						PRI	ESSURE C	ALCU AT	CIONS					
20 T	Liquid Hyd:	no on nho	n Dati	_			cf/bbl.		Speci	fic Gravi	t 17 Ser	namato	or Cae	
	ity of Liqu		rocarbo	ons			deg.			fic Gravi	ty Flo			
c(1-e				s)				Рс	_Pc	4060				
									Pw	600	P _{w2}	360		
No.	$P_{\mathbf{w}}$	Б	2 t. F.	Q		$(F_cQ)^2$	(5	0)2	P _w 2	$P_c^2 - P_w^2$	(Cal.	P	
NO.	Pt (psia)	t r	C ^w		(r _c Q)	(1	cQ) ² -e ^{-s})	r _w z	LC_LM	,	P _w	Pw Pc	
<u>;</u>		1			丰				360	3700			+298	
1. 2. 3. 4.					_						 			
4.					1						 			
							<u></u>			<u> </u>				
Abso	PANY	ntial:_	3,2	45			MCFPD;	n	75					
ADDF	RESS	62 Petr	Cent	er B	lda	Farm	naton.	New Mer	deo					
AGEN	NT and TIT. NESSED	LE_G	orge L	. Ho	ffm	en, Proc	nuction_	Foreman	<u> </u>					
	PANY													
			····				REM	ARKS		10	FIH	100	\	
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										5	3. Arter	ing the second	y. T	

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 T Actual rate of flow at end of flow period at W. H. working pressure (Pw). 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
- Pt 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.
- Ft Flowing temperature correction factor.
- Fnv Supercompressability factor.
- n I Slope of back pressure curve.

Note: If P_W cannot be taken because of manner of completion or condition of well, then P_W must be calculated by adding the pressure drop due to friction within the flow string to P_+ .