1-D 1-F

1-EPNG Bill Parrish

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122 Revised 12-1-55

Pool	Basin	Dakota	Fo	rmation		Dakota		_County	San Ju	an	
Initi	al <u> </u>	Annu	al		Spec	ial		_Date of	Test	1/16/61	
Compa	ny South	west Produc	tion Co	•]	Lease	Nell Ha	11	Wel	1 No	1	
Unit	<u>M</u> _S	ec. 7 Tw	p. 30N	Rge	. 11W	Purch	naser	El Paso N	at. Gas	Co.	
Casin	g 5½" W	t17#I	.D. 4.8	95 Set	t at_ 66	99KB Per	f. 651	8	то 60	566	
		t. 4.70# J									
										ss. 12.0	
	-										
1 1 0 a a	- & O1-t	Casing_	/61	ra.	·	Sing	le-Brade	nhead-G.	G. or C	.O. Dual	
Date	oi Compter	10n: 3/2/	/01	Packer			Reservo	Tr. lemb.			
					OBSERV	ED DATA					
Tested Through (RECENT) (Chol				(NEWXX)				Type Taps			
	(Prover)	Flow D	ata Press	Diff	Temp.	Tubing	Data Temp.	Casing D	ata Temo.	Duration	
No.	(Line)	(Choke) (Choke) Size		3	ì		°F.		•	I OI L'TOM	
SI	Size	Size	psig	n _w	Г•	2424	Γ 4	2424	r •	10-Day	
1.		3/4 ⁿ			83	489	83	1304		3-Hr.	
2 . 3.											
+• 5•											
<u>, </u>			4			OVER A SET ON			<u> </u>	<u> </u>	
	Coefficient CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow Temp. Factor Factor Q -MCFPD Q -MC									Rate of Flow	
No.	(24-Hour) 7/hups		n _e	nsia		Factor F		Factor F _{DV}		Q-MCFPD @ 15.025 psia	
	12.3650	- / V - w	-1	501	.9786		.9463	1.0	49	6,018	
2. 3.									<u> </u>		
+•											
5.					 -						
				PRI	ESSURE C	ALCU ATI	ONS				
		carbon Rati			cf/bbl.		4			arator Gas	
	y of Liqui	d Hydrocarb)	ons 1-e ^{-s})	deg.			Specific Gravity Flowing Fluid P_c 2436 P_c^2 5934				
									P _w 2	1731	
	$P_{\mathbf{w}}$	P_{t}^{2} F		/n 0\2	(P	0)2	ъ 2	$P_c^2 - P_w^2$	T	al. Pw	
No.	Pt (psia)	Pt F	co	$(F_cQ)^2$	(1	cQ) ² -e ^{-s})	P_w^2	rc-rw	1	Pw Pc	
<u>, </u>								4203		.540	
3.											
1. 2. 3.											
	ute Porent	ial: 7,763			MCFPD:	n •75		L. <u> </u>			
COMPA	NY Sou	thwest Proc	uetion	Company							
ADDRE	SS 162	Petr. Cent George	er Bldg	., Farm	ington, Produc	New Mexi	enan		. 		
WITNE	SSED					_					
COMPA	NY		· · · · · · · · · · · · · · · ·		MAR	ARKS				-	
					TUDIT		CPEN	VEN			
						/	RILL	אנה /			

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. psia
- P_{W} 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.
- hwI Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_{t} Flowing temperature correction factor.
- Fpv 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 $P_{\mathbf{t}}$.