1-H. L. Kendrick
1-Bill Parrish
2-EPNG, El Paso, Farm.
1-International

Form C-122

1-TCA, 1-Snoddy 1-F					MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS								ed 12-1-77	
		Basin Dakota			Formation Dakota									
					nalSpecial									
Comp	any Be	ta I	evelor	ment	Co.	Lease Federal "D"				Well No. 1				
Unit F Sec. 34 Twp. 30 N Rge. 11 W Purchaser F1 Page Natural Gas Company														
	Casing 4 1/2"Wt. 10.5 I.D. 4.052 Set at 6768 Perf. 6565 To 6676 Tubing 2.375 Wt. 4.70 I.D. 1.995 Set at 6690 Perf. Open To End													
Tubi	ng 2.37	5_W	t. <u>4.</u>	70_ I	.D1.	995 Set	t at <u>669</u>	Pe Pe	erf(pen_T	°	End		
Gas	Gas Pay: From 6565 To 6676 L 6690 xG 670 GL 4482 Bar. Press. 12.0													
Prod	ucing Th	ru:	Cas	ing_		Tul	bing	X Sir	Type Weingle-Brade	ll <u>si</u> nhe sd- G. G	or G	.0. I	Dual	
Date	Date of Completion: 5/21/64 Packer Reservoir Temp.													
	OBSERVED DATA													
Tested Through (Propert) (Choke) (Mether)														
			F	low D	ata			Tubin	Data	Casing De	ta Temp. D		Durstion	
No.			(Choke) (Orifice) Size				Temp.	Press	o _F ,	Press.	00 10mb		of Flow Hr.	
Var					psig	h _w		psig 2040		2043	F.	7 days		
SI 1.			3/4"		35	3	85			892		3 hrs.		
2.					ļ					·	- W	-		
3. 4.			<u> </u>	 	 									
5.											Ĺ	<u></u>		
							FLOW CAI	CULATIO	NS					
	Coefficient				P	ressure	FLOW CALCULATION Flow Temp. Factor		Gravity Factor	Compre	press. Ri		Cate of Flow CamcrpD	
No.	(2).	(24-Hour)		√ h _w p _f		psia	1 20	t	Fg	Fpv		● 15.025 psia		
	12.3650		<u> </u>		ALI	362	.9768		.9463	1.033	3		4,274	
1. 2.	14.5050												<u> </u>	
3.							 		<u></u>					
3. 4. 5.	: 													
						PI	RESSURE (Calcui a t	ions					
Cae	Liquid H	wd re	oca rbo:	n Rat:	io		_cf/bbl	•	Spec	ific Gravi	ty Sepa	arato	r Gas	
Grav	ity of L	iqu	id Hyd:	rocari	bons		deg	•	Spec	ific Gravi	ty Flor	owing Fluid		
/1 ^=8)														
									Pw_	'Y.	P _w 817.2			
No.	$P_{\mathbf{w}}$		P	2	F _c Q	(F _c Q)	2 (F _c Q) ² 1-e ^{-s})	P _w 2	$P_c^2 - P_w^2$		al.	P _w P _c	
	Pt (ps	ia)	ļ					1-e ⁻⁸)		BYTYTY		Pw	1 C	
1.			_						817.2	3,405.8			.439	
3.			Ţ									-		
<u>4.</u> 5.			ļ			 								
, —	olute Po	T A I	tial•		5,022		MCFPD); n	75					
	PANY			Ret	Deve	opment (٠							
	ORESS	r T m T	<u>r</u>	234	Petr.	Club Pla	th Plaza, Farmington, New Mexico Ifman, Production Engineer							
	INESSED_			D	Bak				- CELLEN					
	IPANY			EL	Paso N	tural G		/Qtl.EIVED \						
	-						A WALES AS THE VAN THE				JUN 1 0 1964			
										1	NUL		COM/	
										,	/ OIL	COM. DIST	.з /	
											No.	٠ - ١٠		

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_W) . MCF/da. @ 15.025 psia and 60° 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
- Pf Meter pressure, psia.
- $h_{\mbox{\scriptsize W}}\mbox{\footnotesize I}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{nv} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If $P_{\rm W}$ cannot be taken because of manner of completion or condition of well, then $P_{\rm W}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\rm t}$.