2-OCC 2-EPNG (El Paso, Farm.) 1-B. Parrish NEW MEXICO OIL CONSERVATION COMMISSION

1-H.L.Kendrick 1-TCA, 1-Snoddy 1-F

"RE-TEST"

Form C-122 Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	BASIN DAKOTA]	Formation_						luan_		
Initial Annual													
Company Beta Development Co.			I		Frame		Wel	Well No					
Unit Sec. 21 Twp. 30 N Rge. 11 W Purchaser F1 Page Natural Gas Co.													
Casing 4 1/2" Wt. 10.5# I.D. 4.040 Set at 6765. Perf. 6575. To 6726.													
Tubi	ng 2 3/8"	Wt. 4.	70# I.	D. <u>1.</u>	995 Set	t at 6706 Perf.		rf. Op	en .	To	ind		
Gas Pay: From 6575' To 6726' L 6706' xG .67 _GL 4493.0 Bar.Press. 12.0													
Prod	Producing Thru: Casing Tubing X Type Well Single - Gas Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion: 1/24/64 Packer Reservoir Temp.													
OBSERVED DATA													
Tested Through (Choke) (Motor) Type Taps													
			rlow Da						Data Casing Data				
		(Cho	(Choke)		s. Diff.	Temp.		Temp.	Press.	E .	Duration of Flow		
No.	(Line) Size				g h _w	°F.	psig		psig	°F.		Hr.	
SI							2037		2050		7 Day		
1.		3/	4 <u>"</u>	244	<u> </u>	80	244	80	677		3 	20.	
2 . 3.		+		 									
4.							 	 		+	+		
5.				ļ		<u> </u>		<u></u>	<u> </u>	<u></u>			
						FLOW CAI	CULATION	S	Compre	99.	Rate	of Flow	
No.					Pressure	riow Fac	Temp. Gravity ctor Factor		Factor		Q-MCFPD		
NO.	$(24-Hour)$ $\sqrt{h_{u}}$		psia		Ft		Fg	Fpv		● 15.025 psia			
1.	12.3650				256	.9813		.9463	1-023		3,007		
2. 3.			+										
4.													
5.	 		<u> </u>										
					PR	ESSURE (CALCUIATI	ONS					
Caa I	_iquid Hyd:	roca rho	n Rati	0		cf/bbl	•	Spec	ific Grav	ity Sep	arato	or Gas	
Gravi	ity of Liqu	uid Hyd	rocart	ons		deg	•		ific Grav	ity Flo			
F _C (1-e ⁻⁸)													
								Pw	689	R.2	474.	7	
,,]	$P_{\mathbf{w}}$		2 t	2.0	$(F_cQ)^2$	$\frac{1}{2}$	F.Q)2	P _w 2	$P_c^2 - P_w^2$	C	al.	$P_{\mathbf{w}}$	
No.	Pt (psia)	t f	r _c Q	(rca)	(F _c Q) ² 1-e ^{-s})	- w	- 0 ₩		P _w	P _w P _c	
1.								474+7	3777.1			.334	
1. 2. 3.													
14.1									 				
5.									<u> </u>				
	olute Pote					MCFPD	; n75						
	PANY PANY PANY PANY PANY PANY PANY PANY					oton N	ow Marie				and the same of		
ADDRESS 234 Petr. Club Plaza, Farmington, New Mexico AGENT and TITLE George L. Hoffman, Production Engineer									COENTEX.				
WITNESSED Horman McAna					ally					(OLL'LIATE)			
COMPANY El Paso Natural Gas Co. REMARKS											4		
										MARS	MAR 5 1964		
OIL CON. COM													
									•	וס	ے ·· ح	/	

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 (Pw). MCF/da. @ 15.025 psia and 600 F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- 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.
- $h_{\mbox{\scriptsize W}}\mbox{\footnotesize }$ Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{DV} 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 $P_{\mathbf{t}}$.