MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poo	l Ban	sont	F	Formation		Yetes		_County_			
Ini	tial	An	nual		Spec	cial	Z	Date of	Test_4-	12 to 19, 1963	
		11 011 Co	41 Company		Lease\$		nAn .	We]	1 No	1	
Unit P Sec. 35 Twp. 198 Rge. 36E Purchaser El Paso Hetural Gas Company											
Cas	ing	Wt. 24.00	I.D. 6	336 Set at 3800 Perf.			rf	3330 To 3495			
Tubing 2 1/2" Wt. 6.56 I.D. 2.441 Set at 3899 Perf. 3792 To 3926											
Gas Pay: From 3330 To 3495 L 3330 xG 675 -GL 2348 Bar.Press. 13.2									ss. <u>13.2</u>		
Producing Thru: Casing Tubing Type Well G.O Dual Single-Bradenhead-G. G. or G.O. Dual											
Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 12-21-52 Packer 3788 Reservoir Temp.											
	•					ZED DATA			·		
Топ	ted Through	(Proven)	(Chalea)	(Motom)		LLD DATA		- Т По-			
Tested Through (Prover) (Chok							Type Taps Figs.				
	Provide	FLow	Data	Diff	/// Oww.	Tubing		Casing I	ata	Duration	
No.	(Line)	(Orifice) rress	• DTIT.	Temb.	Fress.	Temp.	ļ		of Flow	
	Size			h _w	°F.	psig	°F.	psig	o _F .	Hr.	
SI		 		<u> </u>		Packer		745	1	72	
1.	4	1.750	206	7.84	88			651		24	
2.	4	1.750	203	12.96				607		24	
<u>3.</u>	4		191	19.36		<u> </u>		566		24	
<u>4.</u> 5.	&	1.750	195	28.09	77	<u> </u>		514		24	
No.	Coefficient $(24-Hour) \sqrt{h_{w}p_{f}}$			Pressure Flow Factors Figure Flow Factors Figure Flow Factors Flow Factors Flow Factors Flow Flow Flow Factors Flow Flow Flow Flow Flow Flow Flow Flow		Temp.	Gravity	y Compress. r Factor F _{pv}			
1.	19.27			19.2			.9427	1.019		747.3	
1. 2.	19.27			16.2			.9427	1.020		959.8	
3.	19.27			204.2	.9822		.9427			1142	
4. 5.	19.27		5.47 2	08.2	9840		.9427	1.01	9	1392	
Gravi	Liquid Hydro ity of Liqui	id Hydroca:			cf/bbl.		Speci Speci	fic Gravi fic Gravi 750.2	ty_Flowi	rator Gas675_ .ng Fluid 574.9	
No.	P _w Pt (psia)	Pt ²	F _c Q	$(F_cQ)^2$	(F (1	[cQ) ² e ^{-s})	P _w 2	$P_c^2 - P_w^2$	Cal P _w	P _W P _C	
1. 2.	664.2	441.2	6464	4178	.05		441.2	133.7	000.Z	37.6	
3.	620.2 579.2	384.6	9878	.6892 .9757	.09		384.7 33 5. 6	1 90.2 239.3	620.2 579.3		
4.	527.2	277.9	204	1.450	.20		276.1	296.8	527.4		
5.											
COMP ADDF AGEN	RESS NT and TITLE		1.120 Enel) Oil 2.0 Box 1. L. Ell	1858, 2	ocwoll,	n <u>.7</u>]					
MT.T.IJ	VESSED		L A. Mik	:el							

El Paso Natural Gas Company

COMPANY

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.
- Pc 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
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft 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 $P_{\mathbf{t}}$.

Ca Ca Maria Marena