MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

Pod	ol Atoka			F	ormatio	n Pennsy	ivenia		County	Eddy	
Initial Annual				Spe	cial	10 11 C2P	Date of	Test	2-27-61		
	mpany Yat										
Unit 6 Sec. 21 Twp 188 Rge. 26E Purchaser Trans-Western Pipeline Company Casing 52 Wt. 17.00 I.D. 4.892 Set at 9178 Perf. 9052 To 9129											
Tubing 2 Wt. 4.70 I.D. 1.995 Set at 9045 Perf. T											
Gas Pay: From 9052 To 9129 L 9090 xG .653 -GL 5935.8											
Producing Thru: Casing Tubing X Type Well Single Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 3-15-61 Packer None Reservoir Temp.											
							ED DATA				
Tes	ted Through	(Pres	<u> </u>	Chale)	(Meter)	<u>)</u>			Type Tap	os F [ange
	/p	F	low Da			·		g Data	Casing I		<u> </u>
No.	(Prover) (Line)		cke) Cice)	Press.	Diff.	Temp.	Press	Temp.	Press.	Temp.	Duration of Flow
	Size		.ze	psig	h _w	°F.	psig	o _F .	psig	□ oF.	Hr.
	4.000	1.875		440			2723		2723	72	76
1. 2.	4.000	1,6/3		66 0	7	76	2634 2593	 	2649	68	
3.	**			675	40	74	2518		2561 2563	75	3
4. 5.	•	* *		770	59.5	86	2443		2494	78	24
No.	Coefficient (24-Hour)		$\sqrt{h_{\mathbf{W}}p_{\mathbf{f}}}$		FLOW CALC		Temp. tor	Gravity	Factor		Rate of Flow Q-MCFPD @ 15.025 psia
1. 2. 3.	22.28		The same of the sa		3.2	.9850		2759 974			1,556 1554,6
$\frac{2\cdot 1}{3\cdot 1}$	**				3.2			.97 59			2,440 243516
4.					8.2 3.2	.9868 .9759		9759 9759	1.059	1.06/	3,760 3 770,9
4. 5.			210.6	1	3.2	93103		3/39	1.064	1,063	4,036 4861,6
ıs I ravi	Liquid Hydrod Lty of Liquid Messure	d Hydro	ocarbo	ns_53 -e ^{-s})	45	cf/bbl. deg.	alcu ati	Speci Speci	fic Gravi fic Gravi 36.2	ty Sepa ty Flor Pc	arator Gas 632 wing Fluid 636
10.	P _w	Pt ²	Fc	2	$(F_cQ)^2$	(F ₁	cQ) ² -e ^{-s})	P _w 2	$P_c^2 - P_w^2$		Pw Pc
;• <u> </u>	26 62.2 26 24.2			===			7/	067.3	399.5		97.3
	25166.2					_		886,4	600,4	I	95.9
	25 107.2							505.3 286.1	901.5	+	93.8
<u>. </u>											
	lute Potenti					MCFPD;	n 1.000	0			
OMP. סמח	ANY Yates	etroi	eum Co	MARAY							
CEN	ESS Corpor T and TITLE	199	LE C	La	Mexic	11	Agent	-			
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REMARKS

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 = 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.
- 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.
- Fnv Supercompressability factor.
- n _ 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 $P_{\mathbf{t}}$.