MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised	12-1-55

	u Dakota	F	ormation_	Dako	<u>ta</u>	County San Juan				
Initial							Date of	Test		
Company TEXAC							~£) "		
Unit								_		
Casing 43"	vt. 9.5	тп О	00 so+		7056 D	700	4	70:	18	
						600	£ 6072	(0)		
Tubing 3/8" V										
Gas Pay: From										
Producing Thru					Si	ngle-Brade	enhead-G.	G or (i.O. Dual	
Date of Complet	ion: <u>7-</u>	13-65	Packer	·		Reserve	oir Temp.			
				OBSERV	ED DATA					
Tested Through	(Prover)	(Choke)	(Meter)				Type Tap	os		
(5	Flow					g Data	Casing I		1	
No. (Line)	(Choke)		1		Press	Temp.		1	Duration of Flow	
Size	x x33 x	psig	h _w	°F•	psig	°F.	psig	°F∙	Hr.	
SI		-			2100		2105		14 days	
2.	-750		 		217	86•	815	 	3 hours	
3.								<u> </u>		
0								-		
Coeffici	ent	Pi			CULATION		Compre	.68	Rate of Flow	
10. (24-Hou					Factor Factor F _g		Factor		O-MCFPD	
12.365			229	.975		9258	1.055		2.615	
12.365										
. •				_				+		
	·		PRE	SSURE CA	ALCU ATI	ONS				
		io		cf/bbl.		Cnooi	fic Chavi		rator Gas	
s Liquid Hydro avity of Liqui				ർമര				+ ** Plan	ring Pluid	
avity of Liqui	d Hydrocar			deg.		Speci	fic Gravi	ty Flow	ring Fluid 81.689	
	d Hydrocar	bons_		deg.		Speci	fic Gravi	ty Flow Pc4,4	ring Fluid 81,689	
avity of Liqui	d Hydrocar	bons_(1-e ^{-s})	(F ₋ Q) ²			Speci Pc	fic Gravi	Pc 4,4	81,689	
P _w P _t (psia)	d Hydrocar	bons_	(F _c Q) ²		Q) ² -e-s)	Speci	fic Gravi	Pc 4,4	ring Fluid	
P _w P _t (psia)	d Hydrocar	bons_(1-e ^{-s})	(F _c Q) ²		Q) ² -e ^{-s})	Speci Pc	fic Gravi	P2 4 , 4 Ca	81,689	
P _w P _t (psia)	d Hydrocar	bons_(1-e ^{-s})	(F _c Q) ²		Q) ² -e ^{-s})	Speci P _c P _w 2	fic Gravi 2117 P _c -P _w ²	P2 4 , 4 Ca	81,689	
P _w Pt (psia)	d Hydrocar	bons_(1-e ^{-s})	(F _c Q) ²		Q) ² -e ^{-s})	Speci P _c P _w 2	fic Gravi 2117 P _c -P _w ²	P2 4,4 Ca	1. Pw	
Pw Pt (psia)	d Hydrocar	bons (1-e ^{-s})	(F _c Q) ²	(F ₀	(Q) ² (-e-s)	Speci P _c P _w 2 83,929	fic Gravi 2117 P _c -P _w ²	P2 4 , 4 Ca	1. Pw 1. 15 1965 1. 15 1965	
Pw Pt (psia) Pt (psia) bsolute Potent OMPANY	d Hydrocar	bons (1-e ^{-s}) F _c Q		(F, (1-	n7	Speci P _c P _w 2 83,929	fic Gravi 2117 P _c -P _w ² 3,797,7	P2 4 , 4 Ca	1. Pw	
Pw Pt (psia) Pt (psia) bsolute Potent OMPANY	Pt ial: 20 EXACO INC. O. Box.	bons (1-e ⁻⁵) F _c Q		(F, (1-	n7	Speci P _c P _w 2 83,929 5 co 87401	fic Gravi 2117 P _c -P _w ² 3,797,7	Ca PRI OIL	1. P.	

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 \equiv 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
- P_{f}^{-} Meter pressure, psia.

- $h_{\mathbf{W}}$ Differential méter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{py}^{-} 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 $P_{\rm t}$.