MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poc	l Undesign	Fc	rmation	n Dako	ta		County		an Juan			
Ini	itial X		Annu	al	Special				Date of Test4		4-18-60	
Соп	Company PUBCO PETROLEUM CORPO		ORPORAT	ORATION Lease		Federal		Well No		9-N		
Uni	t <u>N</u>	Sec9	Tw	p. 29	N Rg	ge 12W	Pur	chaser Kl	Paso Natur	al Gas	Company	
											362	
Tubing 2 3/8 Wt. 4.7 I.D. Set at 6365 Perf. To Gas Pay: From 6305 To 6362 L xG 0.65 -GL Bar.Press. 12.025												
Producing Thru: CasingTubing Type Well single												
Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion: 4-2-60 Packer No Reservoir Temp. 138												
OBSERVED DATA												
Tested Through (Choke) (Choke) (Choke) (Type Taps												
Flow Data						Tubing Data		Casing Data				
No.	(Line)	(Orifi	ce)					. Temp.		• 1	Duration of Flow	
SI					h _w			°F.		³F.	Hr.	
		 	0.75				2045 273		2095 708		3 hr.	
1. 2.									100			
3 .		1						 	ļ — · · · · · · · · · ·			
4. 5.		 	-				4					
						TI OU CAT	21F 1 F 1 O	7.0		-		
	Coeffici	ent		Pr		FLOW CAL			Compres	5.	Rate of Flow	
No.	0. (24-Hour) $\sqrt{}$					Factor		Factor	Factor			
			$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$		psia	\mathbf{F}_{1}	t	$^{F}_{g}$				
1.	12,365		285		35	0.9723		0.9608	1.025		3373	
2.												
3° 4° 5°												
5.												
					PRI	ESSURE CA	ALCUI ATI	IONS				
	Liquid Hydro					cf/bbl.		Speci	fic Gravit	y Sepai	rator Gas 0.65	
	ity of Liqui	d Hydro	carbo	ons L-e ^{-s})		deg.		Speci	fic Gravit	y Flow:	ing Fluid	
`c			⁽¹	L-e - <u>/</u> _				Pc_ 2	057	Pc4.	231,249	
— т	$P_{\mathbf{w}}$		т		·				γ			
No.		$P_{\mathbf{t}}^{2}$	F	Q	$(F_cQ)^2$	(F.	$\begin{pmatrix} cQ \end{pmatrix}^2 \\ -e^{-s} \end{pmatrix}$	$P_{w}2$	$P_c^2 - P_w^2$	Ca]	Pw Pc	
\downarrow	Pt (psia) 720		 		-	(1-		C19 1.00	0 77 0 01.4	P	v Pc	
1. 2. 3.	120							518,400	3,712,849			
3.			<u> </u>									
4. 5.			+									
	olute Potent	ial: 37	'21			MCFPD:	n	0.75				
COMI	PANY	PUBC	O PE	TROLEUM								
	RESS_ NT and TITLE	108	West	Chueles vehoff	Aztec	New Me	Xico Fraise	er B of	1 /1)=	00.	7/ \	
MI:IM	VESSED	Jack	Dun	ning		AAN WEARE	DUKLL		····	gens	701	
COM	PANY	Pube	o Per	troleum	Corp.	DEM	ARKS				2.2.2.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	
						nr.M.	CAN			100	() 4 th () () () () () () () () () (

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 ($P_{\rm W}$). MCF/da. @ 15.025 psia and 60° F.
- P_c 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwI 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.
- $h_{\mathbf{W}}^{\perp}$ Differential meter pressure, inches water.
- FgI Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{pv} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If P_W cannot be taken because of manner of completion or condition of well, then P_W must be calculated by adding the pressure drop due to friction within the flow string to P_+ .