MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	ol Jalmat		Formation			Yates	Yates		Lea				
Initial X Annual Special Date of Test 7-20,21-61												,21-61	
Company TEXACO Inc.					Lease E. D. Fanning				Well No7				
Unit	_g s	ec. <u>5</u>	Twp. 2	4-8	Rge	37-1	Pur	haser	None				
Casin	Casing 4-1/2 Wt. 9.50 I.D. Set at 3687 Perf. 3064 To 3100												
	Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 3007 Perf. To												
Gas F	Pav: From	osh T		L	- 2061	3 C	07	o -gl -	1954 1998	Bar.Pre	85.	13.2	
Data	cing Thru:	ion. #	o	Pa		Mana	Sir	ngle-Brade	nhead-G.	G. or G	.O. D	ual	
Date	or combrec	1011; <u>7</u>	51-01	r a				Reber ve				· · · · · · · · · · · · · · · · · · ·	
OBSERVED DATA Tested Through (Pyddel) (Meter) Type Taps Flange													
Tested Through (Problet) (Charles)													
	(Rt6161)	Flo	w Data Y Pre	ss. Di	ff. T	'emp.	Tubin	y Data Temp.	Casing D	Temp.	Ì	Duration	
No.	(Line) Size	(Orific Size	e)	Į.	,	o _F .		o _F .				of Flow Hr.	
SI	DIZE	DIZE	ps	TR II	W	T •	732		P0-26			72	
1. 2.	3	1.0		13 3F	; <u> </u>	82 79	668 626	76		ļ		3	
2. 3.	3 3	1.5	00	33 70		77	570	77				3	
4. 5.	3	1.7		34 70 51 37		77	451 555				ļ	<u>3</u> 20	
<u></u>	3	L	201	/									
				FLOW CALCUI			Gravity			Rate of Flow			
No.	(24-Hou	r) /	$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$		psia		tor	Factor Fg_	Factor F _{pv}		@ 15.025 psia		
1.	6,182		4.35	56.	56.2		795	.9608			258.0		
2. 3.	14.36 14.36		8.54		67.2 96.2		8 22 8 4 0	- H	_		793.2 1114		
4.	20.15		2.49	97.	97.2		840	11			1571		
5.	20.15 52.39		74.	2	9877						1002		
					PRESS	SURE C	CALCUTAT	IONS					
Gas Li	iquid Hydro	carbon R	atio	Dry Ga	cf	/bbl.						r Gas <u>.650</u>	
Gravity of Liquid Hydrocarbons (1-e ^{-s})				·s) 0	108	_deg. リンロ		Speci P.	fic Gravi	P2 P2	wing B 555		
· C	<u> 9,930</u>			2			-	C——		<u> </u>			
	$P_{\mathbf{W}}$	2		,	2		2		$P_c^2 - P_w^2$			7	
No.	Pt (psia)	$P_{\mathbf{t}}^2$	F _c Q	(F _c	Q) ²	(1)	F _c Q) ² l-e ^{-s})	P _w 2	Pc-Pw]	al. Pw	P _w P _c	
1.	681.2	464.0	2.56		6.569		8408	464.8 416.5	90.5	681 645	<u>.8</u>	.9149 °	
3.	639.2 583.2				62.11		9 50	355.8	199.5	596		8004	
4.	464,2	215.5	15.61	24	3.67		.19	246.7 335.5	308.6	196 579		.6665 .7772	
5.	568.2	322.8			9.12	1	n :81	C .		717	4.60		
COMP		O Inc.	2200		-(1)		8217	464.8	105		}		
ADDRI	ESS o T and TITLE	Box 1	270,	idland	Ter	6	826	416,4 n 5.97	- ma	poe	13	169	
WITN	ESSED	_£H.	_=OOF	, MIBE	2)	1.5	.44	322.2	199.8	596		5007	
COMP	ANY			(5)	RE	, 70 MARKS	316.2	220.0	496		77.0		
7	ANY					12	,49	, .		•			
16	•					100	1					- , [/	

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 600 F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- 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
- Pf Meter pressure, psia.
- hw- Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{pv} 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 $P_{\rm t}$.