MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool	Jain	<u>at</u>		_Formatio	on_Yat	ies - 7	Rivers	County	Los		
Init	ial	A	nnual		Spe	cial	X	Date of	Test_	-21/4-28 1957	
Comp	any Pan A	merican Pe	troleum	corp.	Lease	Meyer B		We	ll No.	10	
		Sec									
Casir	ng 7	Wt. 27	I.D	S	Set at 3	485 p	erf.		То		
Tubir	ng 2 ½	Wt. 6.5	_I.D	S	Set at 3	261 F	erf.	**	-1°		
Gas F	Pay: From	2860 To	3250	L		xG .65	-GL		Bar.Pr	ess. 13.2	
Produ	cing Thru	: Casing	<u></u>	T	ubing	X	Type W	Well 31	ngle		
Date	of Comple	tion: 6	-16-48	Pack	er_ No	Si Me	ngle-Brad Reserv	lenhead-G.	G. or	G.O. Dual	
						ED DATA					
Teste	d Through	(Prover)	(Choke	e) (Meter				Type Tar	ns		
		Flow	Data	Tubia			Type Tapsng Data Casing Data Casi				
No.	(Prover)	(Choke)	Pres	s. Diff.	Temp.			Casing I	Temp.	Duration	
	(Line) Size	,) psi	g h _w	o _F .		°F.		o _F .	of Flow	
SI l.	4	1.500	813			907			 	72	
2.	- -	1,500	780	30,25	70	757				24	
2 . 3 .	4	1,500	726	50.41	69	733		 		24	
+• ŏ•	4	1,500	676	72.25	68	685			 	7.	
	Coeffici	ont			FLOW CAL	CULATION	IS			<u> </u>	
lo.	(Flange) (24-Hour)		`	rressure	Flow Tact	Temp.	Gravity Factor	1 -		Rate of Flow	
			1 ^q w ¹	psia	Ft		Fg	Factor F _{pv}		Q-MCFPD @ 15.025 psia	
-	13,99	123	.73	.9905		.9608		1.083		1,764	
•	13.99	154			.9905		.9608 .9608	1.07		2,225	
c	13.99	223	.12		.9924		.9608	1,077		2,770	
					•//		.7000	1,069	'	3,182	
				PRI	ESSURE CA	LCULATI	ONS				
s Liq	uid Hydro	carbon Rat	io		cf/bol.		Speci	fic Gravit	ty Sepa	rator Gas	
	vity of Liquid Hydrocarbons (1-e ^{-s})			0.120 deg.			Specific Gravity Flowing Fluid P. 920.2 P2				
			_				- c——		-' C——		
P,	w	Pt ²	F _c Q	$(F_cQ)^2$	(F	Q) ²	D 2	$P_c^2 - P_w^2$			
P ₁	t (psia)			•	(1-	e−s)	P _w 2	$P_{c}-P_{\widetilde{\mathbf{w}}}$	Ca.	. w	
	34.2	695.9	0.45	109.41	13. 20.	IJ	709.0	137.8		W C	
	00.2 46.2	640.3 556.8	3.05	170.30 264.06	11.	**	588,5	156,1			
.		487.5	8.67	348.57	ĮĮ.	83	527.3	258.3 317.5	 	_	
2011	- D-					E					
MPANY	e Potenti Pen Am	eriem Pel	No low	Corperat	MCFPD;	n	71.			•	
DDRESS	5 P. O.	Box 68 -	Hobi	DE, New H	exice						
GENT a ITNESS	ind TITLE	han C	me!	Phaie	Piele	Ingine	4 *				
OMPANY			······································								
					REMAI	RKS					



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
- 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.
- Fpv Supercompressability factor.
- n _ 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 $P_{\rm t}$.