Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Undesigna	ted	addition to the second of the	Ti es	1000	***	98		_County_	Lea	
Initi	al_X	-	£		- Sandyana Maring to Supergraphical	Spe	ial		Date of	Test	11-2-64
Compa	ny Phillip	s Peti	roleum	Compar	y .	LeaseP	. E. H	lale	Wel	1 No	11
Unit	K S	eം. <u>35</u>	M.	17 S		e. 34 E	Pu	rchaser Ph	illips Pet	roleum	Co. (Designated
Casin	ng 4.5" W	9.5 t. <u>10.</u> 5	5# 5#I.	4.09 1.09	9 0" 5 2" Se	t at. 622	251	Perf. 299	71	То	3100'
Tubin	ng 2•375" W	t. 4.7	7# I.	.D. 1.9	9 95" Se	t at. 297	771	Perf. Non	e	То	
Gas P	ay: From_	29971	_To	3100'	I. 29	1 7 71 x	G 0.77	76 <u>-</u> GL 4	018	Bar.Pre	ess. 13.2
Produ	cing Thru:	Cas	ing	- Parkey Column Personal La	Tul	bing	x	Type Weingle-Brade Reserve	ell Sing	gle G. or G	3.0. Dual
Date	of Complet	ion:	10-31-	64	Packe	r None		Reservo	oir Temp.	96°F	
						OBSERV	ED DAT	Å			
Teste	d Through	(Prov	<u>er) (</u>	XDOXOCK	(Meter)				Type Tap	s	
		<u>r.</u>	low Da	+ 0			Tubi	ng Data	Casing D	at.a	
$\overline{}$	(Prover)	(Otto	(COC)	Press.	Diff.	Temp.	COLUMN THE PARTY NAMED IN		Press.	Temp.	
No.	(Line) Size	į ·	ice) ze	psig	h# hw	\circ_{F} .	psi	g °F.	psig	°F∙	of Flow Hr.
SI	2" *	1"			3.5*	58	1531 1410		1531 1410	73 73	24 hr. S.I. 1.0
1. 2.	2" * 2" *	1"			7.7° 14 *	50	1168	$\frac{1}{72}$	1168	72	1.0
2 .	2" *	1"			28 *	52	638	72	785	72	1.0
4. 5.	Žn .	1.5"		20.4	19.8	54	295	72	509	72	1.0
No.		1			essure	Fac F	Temp. tor	Gravity Factor ^F g	Facto	r	Rate of Flow Q-MCFPD @ 15.025 psia
1. 2. 3. 4. 5.	169.4					1.00		0.8793			149.2
2.	ره) رو	· ;				1.00°	78 7 8	0.8793			317.3 477.1
3.	538.4 13.99	-	25.79	3	3.6	1.00		0.8793			319.1
as Li	iquid Hydro y of Liqui m easured	carbon d Hydr	Ratio	o D	PR ry Gas	ESSURE of cf/bbl.		Spec: Spec:	ific Gravi	ty Flow	arator Gas_ wing Fluid
c—Pw	measured		(l-e ^{-s} ∑				Pc	1544.2	_Pc2	2384.6
	P _w (psia)	Pt	F	cQ	(F _c Q) ²	(F	(cQ) ² (-e-s)	F _w 2	P _c ² -P _w ²		P _w P _c 92.2
1. 2.	1423.2							2025.5 1395.2	989.4		76.5
<u>د.</u>	1181.2 798.2							637.1	1747.5	-	51.7
3. 4.	522.2							272.7	2111.9		33.8
5.			1								
Absol COMPA	Lute Potent	cial: li ps P	600 etrol	eum Com	pany	MCFPD;	n_0	•73			
ADDRI	ESS Box	2130 -	Hobbs	s. N.M.							
AGENT	f and TITLE	JW. J	. Mue.	ller -	Reservo	ir Engin	eer				
		b. C.	M	welle							
COMPA	ANY	($_C$)			(A DIVO				
						REM	MARKS				

Flow tests No. 1, 2 & 3 taken through 2" orifice well tester. Test No. 4 taken through 4" in-line meter.

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. 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
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n I 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 $P_{\mathbf{t}}$.