HOBBS OFFICE OCC

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool		ment			Fo	rmation	1956 NOV	13 AM	9:27	_County_	Lea			
Initial X			Annual									9-30	-56	
Compa	any_1	he T	0220	Compo	2 7		Lease 84	<u> </u>	State "	Wel	1 No	1		
Unit	0	s	ec. 14	Twp	. 19	-S _Rg	e. <u>37-1</u>	Purch	naser Per	with Be	nin Pi	pe l	ine Ge.	
Casir	ng 👃	1/2 W	t	.60 I.	D. 4.	00 Se	t at 35 0	10 Per	rf. <u>347</u>	4	То	576		
Tubing 2 3/8 Wt. 4.70 I.D. 1.990 Set at 3455 Perf. Open cold To														
Gas I	Pay:	From_	2575	To_3	576	, L_]	55 _x	.G .670		336	Bar.Pre	ess	13.2	
Producing Thru: Casing Tubing Type Well Single														
Date of Completion: Packer Reservoir Temp.												Dual		
							OBSERV							
_						(Meter)				Type Tap	s_ P1	.po		
				' lo w Da	ıt.a			Tubing	Data	Casing I	ata	<u> </u>		
\top			(Gire	ke)	Press.	Diff.	Temp.	Press.				1	Duration	
No.		.ne) .ze		ice) ze	psig	h _w	o _{ff}	psig	o _F .	psig	⊃ _F .		of Flow Hr.	
SI			- 5.	20	poig	**W		10)5.8		1476.3	1	 	72 1/4	
1.	6					5.9	146	773.55	ii .	MU.A			23 3/4	
2.	-					13.3	50 51	827.0		946.2	 		24	
3. 4.					459.2 458.0		11	724.4		\$169.7 \$149.5		┼	24 23 3/4	
5.														
							FIOW CAT	.CIT.ATTONS	3					
	Coefficient			Pr	FLOW CALCULATIO			Gravity						
No.	(24-Hour)			$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$					Factor		cor (Q-MCFPD 15.025 psia	
- -	(V IIW			psia	Ft		F _g F _p		<u></u>		002) pola	
1. 2.	10.53					73.4 1.01 75.3 1.00				1.0		1.621		
3.	10.53			103.3		72.4	1.00		-0443	1.0	V.		1.149	
4. 5.		.53		123.	7 4	71.2	1.00	58	-944)_	1.0			5,001	
<u> 2• 1</u> .						PR	ESSURE C	ALCUIATIO	ONS					
		** 1	1	D-4 *			- 6 /2 1.7		Cunni	fic Gravi	tu Con		m Coo	
Gas Liquid Hydrocarbon RatioGravity of Liquid Hydrocarbons										fic Gravi				
'c(1-e				_e - ≅∑	-5)			Pc_1	049.5	P _c 1101.5				
	P _w							2		2 2				
No.			Ρŧ	F	,Q	$(\mathbb{F}_{c}Q)^2$	(F	$\left(\frac{cQ}{c^{-s}}\right)^2$	P_w^2	$P_c^2 - P_w^2$	1	al.	P w Pc	
- -	Pt (1						(1	. - e ⁻⁰)	1023 A	19 6		P _W	1 C	
2.									991.1	352.7			- 355	
3.	993	. 2							966.1	135.4				
<u>4.</u> 5.	797	•7					_		926.8	1.74.7			.92	
	lute		ial.	15.5			MCEDU.	n .61		<u> </u>				
COMPA		ovent	_		TT CO	PART	PIOP FD;	11						
ADDRI	ESS		10			DLAMD.								
		TITLE		Li	ME,	DIST	ist cas	HAN	7	1	ak	- \		
COMP	ESSED_ ANY		PE	THE R	BAST	PIPE	LYER C	OMPANY						
 •								ARKS						

This is a retest.

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 \square 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
- PwT 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.
- Rt Flowing temperature correction factor.
- F_{DV} 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 $P_{\rm t}$.