MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

No.

			NEW	MEXICO O	IL CONS	ERVATION	I CCMMISS	ION			
										Form C-12	
			MULTI-	-POINT BA	CK PRES	SURE TES	ST FOR GAS	WELLS		Revised 12-1-5	
[oơ	Basis	n Dehote	F0	rmation_		hibeta		_County_	San Ju		
			· · · · · · · ·	_						7-14-64	
										147	
_	. 6 s			-							
	ing 4-1/2 W								To	1001-01	
	ing 3-3/8 W						i				
						•					
	_									85. 18	
rod	lucing Thru:	Casing_		Tub:	ing	Sir	Iype We wgle-Brade	enhead-G.	G. or G	.O. Dual	
ate	e of Complet	ion:	7-64	Packer			heserv	oir Temp.	·		
					OBSERV.	ED DATA					
est	ed Through	(170000)	(Choke)	(22222)				Type Tar	os	lengo	
		Flow					Data	Casing I			
	(Line)	<u> </u>	1	1 1				1	1	Duration of Flow	
	Size	Size	psig	h _w	°F.	psig	o _F .	psig	°F.	Hr.	
I	7 Beyo		454			2022	00° 00€.	2000	60° as		

-							 		 		
:							上二				
				F.	LOW CAL	CULATION	I S				
Т	Coeffici	ent	Pr	essure	Flow	Temp.	Gravity	Compre		Rate of Flow	
0	(2) Have	-\		psia	Factor F _t		factor	Facto		Q_MCFPD 15.025 psia	
_	(24-Hou	r) 7 1	w ^p f	psia	1.000	· 1 -	F _g	F _{pv}		3643	
•				-	******	+	*****	100			
•											
Ť											
.]											
				PRE	SSURE C	alcui at i	CONS				
		1 7-4	• .		- c /L L I		Smoot	ieia Coori	itu Sens	arator Gas	
		carbon kat	hons		deg.		Spec	ific Gravi	ity Flor	ring Fluid	
s I	Liquid Hydro	d Hydrocar					P _C	2034	_Pc	137,114	
avi	ity of Liqui	d Hydrocar	$(1-e^{-8})$								
avi	Liquid Hydro ity of Liqui	d Hydrocar	(1-e ⁻⁸)			•					
avi	ity of Liqui	d Hydrocar	(1-e ⁻⁸)			1		2 0	- 		
avi	ity of Liqui	d Hydrocar	(1-e ⁻⁸)	$(F_cQ)^2$	(F	(cQ) ²	P _w 2	P _c -P _w ²		al. Pw	
avi	ity of Liqui	d Hydrocar	(1-e ⁻⁸)		(F (1	cQ) ² -e ^{-s})	P _w 2			Pw Pc	
avi	ity of Liqui	d Hydrocar	(1-e ⁻⁸)		(F (1			P _c ² -P _w ²			
lo.	ity of Liqui	d Hydrocar	(1-e ⁻⁸)		(F (1		P _w 2				
avi	ity of Liqui	d Hydrocar	(1-e ⁻⁸)		(F (1		P _w 2				
avi	ity of Liqui	d Hydrocar	(1-e ⁻⁸)		(F (1		P _w 2				

				PRESS	URE CALCUIATI	ONS					
Gas Liquid Hydrocarbon Ratio					/bbl. _deg.	Speci Speci P _c	Specific Gravity Separator Gas Specific Gravity Flowing Fluid Pc Pc 4.137.134				
No.	P _w	$P_{\mathbf{t}}^2$	F _c Q	(F _c Q) ²		P _w 2	P _c ² -P _w ²	Cal.	P _w P _c		
1. 2. 3. 4.					91	a, ua	1,227,040				
₹-							 				
3.											
5.			 								
Abs COM	olute Potenti PANY PAN A RESS	al:	6799 Fertile	i constant) Sur Hegico	CFPD; n						
	NT and TITLE				Leong						
		by:	ORIGINA								
COM	PANY		ORIGINAL SI	ell .	REMARKS		aff FI	TR			
							JUL 271	964			

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 Tactual rate of flow at end of flow period at W. H. working pressure (Pw). 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.
- Ft Flowing temperature correction factor.
- F_{DW} 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 $P_{\mathbf{t}}$.