Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	L	Be	sin D	akota		Formation Dakota				County San Juan			
Init	ial_		XXAnn			ualSpec			ial		Test	1-3-63	
Company Southern Union Production Co. Lease Mc Cord Well No. 5													
Unit N Sec. 27 Twp. 30-N Rge. 13-N Purchaser Southern Union Gas Company													
Casi	.ng	1/2	_Wt	10.50	[.D. <u>4</u>	. 052 _S	et at 6	23 Pe	erf	61.78	To	6358	
						*	and the state of the		erf				
Gas Pay: From 6178 To 6358 L 6196 xG 700 -GL 4337 Bar. Press. 12.0													
Date	of.	Compl	u. etion	. 12	27.62	Pack	er	Sir	Type Wengle-Brade	nhead-G.	G. or (.O. Dual	
Date	Date of Completion: 12-27-62 Packer Reservoir Temp. OBSERVED DATA												
Tested Through (Choke) (Meter) Flow Data Tubing Data Casing Data													
	(P	rover	717			ss. Diff	. Temp.			Press.		Duration	
No.	(Line)		rifice)							o _F .	of Flow	
		Size		Size	psi	ig h _w	°F.	psig	F.	psig 1986	F.	Hr.	
SI 1.		2*		3/4"	117		730	2037	730	1099		7 day 3 hrs	
2.		_ =											
3.					 			ļ			-		
4. 5.			-										
							RTOW CAT	.СІП. А.Т ТОІ	ıs				
Coefficient Pressure Flow Temp. Gravity								Compre		Rate of Flow			
No.		(OL 11)					Fac	tor	Factor	Facto	r	Q-MCFPD @ 15.025 psia	
	(24-Hour)		√ h₁	v ^p f	psia		t		Pv 1	00/			
1. 2. 3. 4. 5.	12.3650				329	.98		.9258 1.0		0.50	36 3851.		
3 _e													
4.							 						
2.1													
						P	RESSURE 0	ALCU AT	IONS				
Gas I	.iqui	d Hyd	rocar	bon Rat	io		_ cf/bbl.					arator Gas	
Gravity of Liqui			uid H	lydrocar	oons (1-e ^{-E}	deg.			Specific Gravity Flowing FluidP _C P _C P _C				
'c					(1-e -	7		-	- c	2019	_' C	1170-4	
							· · · · · · · · · · · · · · · · · · ·			γ			
No.	$P_{\mathbf{W}}$			$P_{\mathbf{t}}^2$	e _c Q	(F _c Q)	2 (F	$\left(\frac{cQ}{c-e-s}\right)^2$	P _w 2	$P_c^2 - P_w^2$	Ca	Pw Pc	
	Pt	(psia)		· · · ·		(1	-e ^{-s})					
1. 2.									1234.3	2964.	-	.512	
3.													
<u>4.</u>													
							MORRD	L		 			
COMF		Pote	ntial		500lı en Uni	ion Procu	MCFPD;		• •				
ADDF	ŒSS_			Post O	fice	Box 808	Parming to	n. New 1	iexioo		ZRF/	7/1	
AGEN	MC an JESSF	d TIT D	TE	Verme	Ringe	old, Junio	r in ine	<u> </u>					
	PANY_					ion Produ	ction Com	DANY			VAN7	61963	
	. (3) N.K	0.0	ď			REN	MARKS			CON	1963	
cci	(ī) Mr.	P. J	. Clote						\	DIST.	6 1963 COM.	
	(1) Mr.	L. S	. Muenn							Marine .		
				l. Rippe: Croliss	F					•			
) Mr.	Rody	Motte									
	(1) HI											

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 T Actual 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
- 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.
- $h_{\mbox{\scriptsize W}}$ Differential meter pressure, inches water.
- FgI Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{DV} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If P_W cannot be taken because of manner of completion or condition of well, then P_W must be calculated by adding the pressure drop due to friction within the flow string to P_t .