MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Po	ool Jaj	Lmat		F	ormatio	n_Yate	18		County_	Lea		
In	itial		Ann	ual		Spe	cial	X	Date of	Test 4	29/5-3-1957	
Co	mpany Kl. P	so: Nat	arel G	as Comp	eny	_Lease	Carlso	n Federal	We	ll No.	2	
Company Kl Paso: Natural Gas Company Lease Carlson Federal Well No. 2 Unit No. 25 Rge. 37 Purchaser Kl Paso Natural Gas Company												
Casing 54 Wt. 15.5 I.D. 4976 Set at 3304 Perf. To												
Tubing 2 Wt. 4.7 I.D. 1.995 Set at 2639 Perf. To												
Gas	s Pay: Fr	om 2350	To 2	604	L 263	9 ;	xG 0.67	5 -cr 1	1781	Don Doe	13.2	
Pro	oducing The	ru: Ca	asing_		Tı	lbing	r	Type W	ell Si n	g le		
Dat	te of Compi	letion:	12-8-	1955	Packe	r No	one Si	ingle-Brade	enhead-G.	G. or C	.O. Dual	
		_					ZED DATA	*	our romp.			
Tes	sted Throug	zh (Pr) (Chales)	(Meter)		DD DAIR	•	M M	- Flan	~~	
Flow Data					(110001)		Tubin	g Data	-	Type Taps Flange Casing Data		
N/-	*Description	(Ch	oke)	Press.	Diff.	Temp.		Temp.			Duration	
No.	(Line) Size) (Ori	fice) ize		h _w	\circ_{F} .	psig	o _F ,	psig	°F.	of Flow Hr.	
SI							1027		1027		72	
1. 2.	4	9.	750 750	132	46,24	65	135		135		24	
2•	-			230	4.84	67	223	+	225		24	
4.							 					
5.	<u> </u>							<u> </u>				
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FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress.								88. 1	Rate of Flow			
No.	(PLA)		/ 					Factor			Q-MCFPD	
	(24 - H	our)	1 ''- 1		psia F		- I	F _g	F _{pv}		@ 15.025 psia	
1. 2.	34.35			81,89 34,29		•995		.9427	1.024		268	
2. 3. 3.	34.35	· 	3446	7		•993	3	.9427	1.025		_113	
4. 5.											_	
5.												
					PRI	ESSURE CA	A CCULAT	TONS				
se T	liquid Wada	ma aa mhaw	- Do∔d-		- 100		illoo-art.				·	
ravi	Liquid Hyd: ity of Liq:	rocarbor uid Hvdr	natic rocarbo	ns		cf/bbl.		Speci	fic Gravit	y Sepai	rator Gas 0.675	
c		-		-e ⁻⁵)				P. 1	fic Gravit 040.2	P2	J085*0	
								·				
7	P					7				 		
No.		P_{t}^{2}	Fc	Q	$(F_cQ)^2$	(F,	Q) ² -e-s)	P _w 2	$P_c^2 - P_w^2$	Cal	P	
	Pt (psia))				(1-	e-s)	W	- C - W	P	P _W P _C	
2.	148.2	22.0						22.0	1060.0		:13	
3.	236.2	55.8				Measu	reg.	56.7	1025.3	ļ	***	
+ 0										 	-	
5.												
bso	lute Poter	itial:	273			MCFPD:	n 0.771	Jalmat	Avg.			
COMP	ANY	Page II	atural	Gas Co	mpany	,						
/CEM	ESS P. O.	. Rox 13	84./Jg	New	Mexico	<i></i>						
VITN	ESSED			2.11)	7/	Earl C	. Smith			·		
COMP	ANY ELF	aso Nat	ural G	as Comp	any							
						REMA			**	\		
	Die to sec										ope of 0.771	

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 = 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
- P_{f} Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{pv} Supercompressability factor.
- n _ 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_{\pm} .