Form C-122 Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Formation Yates AM 8:48 County

Po	pol Jalma	t		F	ormatio	n	Yates	AM 8 1 48	3 County	Le	a.	
											-31-56= 1-4-57	
											2	
Unit <u>K</u> Sec. 7 Twp. 245 Rge. 37E Purchaser FFNG Casing 5 Wt. I.D. Set at 3423 Perf. 2910 To 3030												
Tubing 2 Wt. I.D. Set at Perf. To												
Gas Pay: From 2910 To 3030 L 2910 xG .655 -GL 1906 Bar.Press. 13.2												
Producing Thru: Casing Tubing Type Well G.O. Dual												
Date of Completion: 7-25-47, Packer No Reservoir Temp.												
	•				racke			neserv	oir Temp.			
Ψe	sted Through	, / D	\ (a)		/s		ED DATA	•				
Tested Through (Prover) (Choke) (Meter) Type Taps												
	/n	F1	ow Data				Tubin	g Data	Casing I	ata		
No.	(Prover)	(Chok	e) Pr	ess.	Diff.	Temp.		. Temp.	Press.	Temp.	Duration	
NO	Size	(Orifi	.ce) e p	si a	h	o _F .		0-		1	of Flow	
SI	<u> </u>	512	p p	PTR	^{I1} W	-F'•	ps1g	°F.	psig	[⊃] F•	Hr.	
$\frac{31}{1.}$	4	2 00	0	27 K	,,,,				892		72	
2.									855		24	
<u>~•</u>		2.00			9.61	85			839		24	
		2,00		774		80			794		24	
<u>4.</u> 5.	4	2,00	<u> </u>	90	69.72	76			721*		24	
Not enough draw down - choke restriction FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow												
Νο.		Coefficient $\sqrt{h_w}$,		Flow Temp. Factor		Gravity Factor	Compre Facto	ss.	s. Rate of Flow Q-MCFPD	
	Fig. (24-Hot	$\frac{ur}{\sqrt{2}}$	/ hwpf		osia	Ft	:	$^{ extsf{F}}\!\mathbf{g}$	Fpv		@ 15.025 psia	
1. 2. 3.	25.58		61.55				32	.957Î	1.0	· · · · · · · · · · · · · · · · · · ·	1,579	
2.	25.58		89 .79		.976				1.0			
<u>3</u> و	25.58		147.28	1		.98		.9371	1.0		2,313	
4.	25.58		221.39			.98		.9571	1.0		3,793	
4. 5.		~								//	5,713	
PRESSURE CALCULATIONS as Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas ravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid c												
10.	P w-	₅ 2	- 0				. 2		2 0	1		
	Pt (psia)	$P_{\mathbf{t}}^{2}$	F _C Q		$(F_cQ)^2$	(F _c	Q) ² e ^{-s})	P _w 2	$P_c^2 - P_w^2$	Ca]		
	868.2	753.8		\bot	7.29		.9	754.7	64.7	868.	7 - .96	
	852.2 807.2	726.2	3.96		15.68		.9	728.1	91.3	853.	3 .94	
•	734.2	651.6			42.12		.2	656.8	162.6	E10.2	4 .90	
	17402	539.0	€.78	4_	95.65	11	8.	550.8	268.6	742.		
bso OMP	lute Potent:	ial: l	4,800 ural Ca	B Co		MCFPD;	n_ •	839				
	ESS Box	1492, F										
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	ANY	El Fasc	Matura	30	s Compe	nv						

REMARKS

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
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fnv Supercompressability factor.
- n _ 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 $P_{\rm t}$.