MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

Pool	Angel'	s Poak	F	Formation	Dal	kota		_County	San J	<u>uan</u>
	al <u> X</u>									
Compa	ny The Fro	ntier Re	finin	g Co.	LeaseE	vensen (Gov't.	We	ll No	2G-D
Unit	P Se	ec. <u>19</u> T	wp. <u>2</u> '	7N Rge	. 10W	Purch	aser1 63 31	None	63	36
	g 7-5/8 " W									
Tubin	g 2-3/8 W	t. 4.7	I.D. <u>1.</u>	995 Se	t at 616	2 Per	f. 615	4	_To6	160
Gas P	ay: From_	To_		L	x	G			_Bar.Pr	ess
Produ	cing Thru:	Casing_		Tul	bi.ng	X	Type Wei	11 G.O.	Dual G. or	G.O. Dual
	of Complet:					Mod "D				
					OBSERV	ED DATA		•		
Teste	d Through	(Prover)	Chake) (Mader)				Kapexka	pek	
		Flow				Tubing		Casing		I
	(Prover)	(Choke)	Press	s. Diff.	Temp.	Press.	Temp.	Press.	Temp.	Duration of Flow
No.	(Line) Size	(Orifice) Size) psi	g h _w	°F•	psig	°F.	psig	°F∙	
SI	2"	1"		<u> </u>	112	2058	112	1262	112	
1.	2"	i"	366			750	83	1262	112	1 hr 2 hrs
2.	2"	1"	348 340			630 550	82 32	1262 1262	112	
3.	2"									
<u>4.</u> <u>5.</u>					L					
					FLOW CAL	CULATION	S			
	Coeffici	ent		Pressure	Flow	Temp.	Gravity			Rate of Flow
No.	(24-Hou	7) -/1	n _w p _f	psia	Fac F	tor	Factor F _g	Fact F _{pv}		Q-MCFPD @ 15.025 psia
		1 / V	WPI	•		36	0.8452	1.0		7048,76
1.	22.06 22.06			360	0.979	35	0.8452 0.8452	1.0)21	6712.71
3.	22.06			352	0.979	95	0.8452	1.0	021	6563.54 *
2. 3. 4. 5.										
2:1	* staba	lized fl	OW				ova -			
				PF	ESSURE C	CALCUTATI	ONS			
las Li	iquid Hydro	carbon Ra	tio		cf/bbl.	•	Speci	ific Grav	rity Ser	parator Gas
Gravit	y of Liqui	d Hydroca	rbons	,	deg	•			rity Flo	owing Fluid
⁷ с			_(1-e ^{-s}			-	P _c		r c	
	$P_{\mathbf{w}}$			T ,		.2		2		
No.		$P_{\mathbf{t}}^2$	${ t F_c}{ t Q}$	(F _c Q) ²		F _c Q) ² 1-e ^{-s})	P_w^2	CENT		Cal. Pw Pc
-	Pt (psia)					L-e - /			LD-	-W
1. 2. 3. 4. 5.				1						
3.	· .							3	19	
4.								OIL CO T	(*)**	
	luta Parani		710		MCFPD	; n = 0	. 75	7	-	
COMP.	lute Potent ANY The	Frontier	Refi	ning Con	pany					
ADDR	ESS 4040	East Lo	misia	na Ave.	Denve	r 22. C	olorado	100100	hore to	nios
	T and TITL	Jack B.	Ball	ack, Eng k, Petro	oleum R	<u>micai &</u> ngineer	Kah	Ly Car	Jus	7
COMP		The Fro	ntier	Refini	ig Comp	any		10		
	T.	Pc ²] n		RE	MARKS				
	AOF = Q 1	Pc2 Pw	2)	1 +4 9 - 1	to the second					
•	AOF = Q	Pc2 Pw	2)	# = # . W - # .	t de la compa					

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 ($P_{\rm W}$). 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
- P_f Meter pressure, psia.
- h_{W} Differential meter pressure, inches water.
- $F_g = Gravity$ correction factor.
- F_t : Flowing temperature correction factor.
- F_{DV} 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 $P_{\mathbf{t}}$.

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