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Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

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Revise	ed	12	-1	- 55

Poo					ormation	1	E3	 	County	LEA			
Ini	tialX		Annual Special						Date of Test 1/2/58				
Com	pany Suna	AY MI	D-CON	ITINEN	Т	Lease	H. D. (GREER	Wel	1 No	2		
	t <u>D</u>												
												OMPANY	
Casing 5½ Wt. 13 I.D. 5.00 Set at 3580 Perf. 3065 To 3470													
Tubing 2-3/8 Wt. 4.7 I.D. 2.00 Set at 3552 Perf. None To													
Gas Pay: From 3065 To 3470 L 3552 xG .765 -GL 2717 Bar. Press. 13.2													
Producing Thru: Casing Tubing X Type Well SINGLE Single-Bradenhead-G. G. or G.O. Dual													
Date	Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 12/27/57 Packer None Reservoir Temp.												
	•	-											
OBSERVED DATA 2"													
Test	ted Through	(Pro	<u>ver) (</u>	Choke)	(Meter)				Type Tap	·s			
			Flow Da	n + n			Tubi -	Data	Caria	-1-			
	(Prover)					Т			Casing D		4 ~		
No.	(Line)	(0ri	fice)		1 1		Press.	Temp.	İ	1	1	uration of Flow	
707	Size	S	ize 	psig	h _w	°F.	psig	°F.		[⊃] F•	 	Hr.	
SI		 					656		667	ļ		HRS.	
1.	-500	19/	64	150	ļ	47	6 <u>9</u> 5	62 64	615_	53	2 3	4	
2.		22/		230	<u> </u>	50	565		585	55	2		
3.		26/		310		50	485	64	544	52	1		
4. 5.	•500	33/		370		60	423	54	508	52			
<u>5. l</u>	•500	33/	64	370		68	420	63	502	70	24		
							CULATION						
I	Coeffici	.ent		Pr	ressure	sure Flow Temp.		Gravity Compress.		ss.	Rate of Flow		
No.	No.		 			Factor		Factor	Facto	r	Q-MCFPD		
	(24-Hou	ır)	$ \gamma h_{wr}$	h _w p _f psia		F+		F _a	Fpv				
-	5-5233			163.2		1.0127		90-5	1.023		827		
1. 2.	F 5000			- 1	40.2			<u>-8855</u>					
20	5.5233		 	12	43.2 1.00		98 8855		1.040		1.249 1.658		
3.	5-5233		 		23.2	1.0000		<u>.8856</u>	1.049		1.650		
4. 5.	5-5233		-		33.2	1.000		8855	ما ل	<u> 59</u>	1,98		
201	5.5233		ļ <u>.</u>		33.2	0.99	24	8856	0	57 I	<u>. 1,9</u> 6'	7	
					PRI	ESSURE CA	ALCUIATIO	ONS					
.			D	0-4	^ ~					-			
	iquid Hydro				MS	cf/bbl.			fic Gravi				
	ty of Liqui					deg.		Speci	fic Gravit	ty Flow	ring Flu	iid	
"c	PW MEASI	JRED	(1	_e _s				Pc	<u>680.2</u>	Pc 46	55./		
-													
!	$P_{\mathbf{w}}$	-2		_	<i>()</i> 2		2		_2 _2	_	_	_	
No.		Pt	Fc	٧	$(F_cQ)^2$	(F	$(e^{Q})^2$	P_{w}^{2}	$P_c^2 - P_w^2$	Ca	1.	Pw Pc	
	Pt (psia)					(1-	-e ^{-s})			_ P	W	Pc	
1. 2. 3.	620.2							394.8	68.1				
٢٠	590.2							357. ○	104.9	1			
<u>ا • د</u>	557.2							310.5	152.2				
4. 5.	521.2							271.5	191.1				
5.	515.2							265.4	197.3				
Abso	lute Potent	ial•	3.8	300		MCFPD;	n	•77					
COMP		ំបា	NRAY	MID-CO	NTINEN	TOIL (COMPANY						
ADDRESS BOX 1168, SNYDER, TEXAS													
											- · - · -		
AGENT and TITLE D. G. BOWER, GAS TESTER WITNESSED													
WITNESSED													

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 60° F.
- Pc 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.
- 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} .