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

Poo	1 Angel Per	k Dak	ota	F	ormation	Dakot	4		_County_	San Ju	17
Ini	tial X		Annu	al		Spec	cial		_Date of	Test De	28, 1960
Com	pany Souther	n Uni	on Gas	Compa	ny	Lease	ederal E	aton	Wel	1 No	1-15
Uni	t	Sec. <u>15</u>	Tw	p. 28	N Rg	e. <u>11W</u>	Purc	haser <u>3o</u> v	thern Uni	on Cas	Company
Cas	ing lie V	vt .9.5	<u> </u>	.D. <u>h</u>	.090 Se	t at <u>62</u> 5	1 Pe	rf. 6014		To_615	XI .
Tub:	ing 2015 V	√t <u>l.</u>	.7I	.D. <u>1.</u>	995 _Se	t at <u> 601</u>	9 Pe	rf 6013		To 60)19
Gas	Pay: From	6011:	To	6194	L		cG 0_70 _			Bar.Pre	ess. <u>12.0</u>
	ducing Thru:										
Date	e of Complet	cion:	Bec. 8	. 1960	Packe	r	Siņ	gle-Brade Reservo	nhead-G. ir Temp.	G. or C	G.O. Dual
	•	_					ED DATA		- -		
Toet	ted Through	LP mos	war) (Choke)	(Water)				Tune Tar	\ c	
			Flow Da		IRRERA/		(Tubing	Data	Casing D		T
	(Prover)	(Che	oke)	Press	. Diff.	Temp.	Press.	Temp.	Press.	Temp.	Duration
No.	(Line) Si∠e	(Ori	ice <i>)</i> ize	psig	h _w	°F.	psig	°F.	psig	[⊃] F.	Duration of Flow Hr.
SI							2105		2105		10 days
1. 2.		3/1	<u> </u>	31:0	<u>-</u>	770	340	770	840	ļ	3 brs.
3.	·	+		<u> </u>						 	
4. 5.											
<u>5. l</u>		<u> </u>				,	L	<u> </u>		1	<u> </u>
					,	FLOW CAI	CULATION	S			
	Coeffici	ent		P	ressure	Flow	Temp.	Gravity	Compre	ss.	Rate of Flow
No.	(0) 17	`	/			Fac	tor	Factor	Facto	r	(_M/~LPDI\
	(24-Hot	ir)	√ n _w]	P _f	psia		t	r _g	r pv		@ 15.025 psia
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3.											
4.											
5.			<u> </u>								
					PR.	essure o	CALCUTATI	ons			•
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	Liquid Hydro ity of Liqui					cf/bbl.					arator Gas ving Fluid
c			(1-e ^{-s})			_	Pc	117	P_0^2	ւհ82
								P	852	P _W	726
	$P_{\mathbf{w}}$		T						2 0		
No.		P	F	°G	$(F_cQ)^2$	(F	(cQ) ² (-e ^{-s})	P_w^2	$P_c^2 - P_w^2$	Ca	Pw Pc
<u>_</u>	Pt (psia)					(1		TAZ	3984	- I	77 1
±• 1 2. 1								726	3756		O-TOF
3.											
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AGEN	NT and TITLE		ilbert	D. No	land, Jr	Dri	lling Sup	erintende	mt		
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COM	JOHN L	<u> </u>	LUI VI			REM	IARKS	_ _	-/K	LULIV	/FX\
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1.	Well made	mist	of dis	tillat	e throug	hout te	st _e .		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	W5 1	961
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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 \equiv 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
- PwT Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- P_t 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.
- Ft Flowing temperature correction factor.
- F_{pv} 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} .

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AZTEC	D. JT. Ch. FICE
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