NEW MEXICO OIL CONSERVATION COMMISSION

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122 Revised 12-1-55

Poo	1_	Astec			F	ormation	Pie	stared Cl	iffe	County		Juan	
Ini	Initial X Annual			1	Special				Date of	Test	July 16, 1958		
Com	par	y Ast	ec 011	& Gas	Comp	шу	Lease	Bye		Wel	1 No	5	
Uni	t _	_ c s	Sec1	2 Twp	301	Rg	e. <u>11W</u>	Purc	haser_	iouthern U	nion G	as Company	
Cas	ing	5 1/2 W	/t	<u>*</u> _I.	D. 5.0 1	Se Se	t at 257	9 Pe	rf.	4	То	25A0	
Tub	ing	W	t. 1.7	<u> </u>	D. 1	.049 Se	t at	527 Pe	erf	2505	To	2515	
Gas	Pa	y: From_	2474	_To	8540	L 🍂	<u> </u>	kG 0.650		658	Bar.Pr	ess. 12	
Pro	duc	ing Thru:	Cas	ing	X	Tu	bing		Type We	ell	ingle		
								Sin	ole-Brade	enhead-G. oir Temp.	G. or (G.O. Dual	
			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					VED DATA			v. 113 - 121 - 121		
Tes	ted	Through	*	<u>•) (c</u>	hoke)	<u>(1808)</u>				Туре Тар	s		
		(Proven)	F Cho	low Da	ta	Dice	Town	Tubing	Data	Casing D	ata	Duration	
No.		(Line) Size	(Orif	ice)		Dill	0-	rress.	1emp.	rress.	į.	of Flow	
SI		DIZE	51	ze	psig	n _w	-r.	psig	60	psig	60	Hr.	
1. 2. 3.			0.7	50	175		60	195	60	175	60	3 hours	
<u>3.</u>	_												
4. 5.													
]	LOW CAL	CULATION	S				
No.		Coeffici	cient		Pressure		Flow Temp. Factor		Gravity Factor	Compress. Factor			
, 	(24-Hou		$r)$ $\sqrt{h_{W}}$				Ft		Fg	Fpv		@ 15.025 psia	
2.		12.365				87	7-0000		0.9608	1.09	3	2266	
1. 2. 3.													
5.	_	•											
						PRI	ESSURE C	CALCULATI	ons				
		uid Hydro of Liquid					cf/bbl.					arator Gas	
-av.		or ridure	и пушт	(1	ns -e ^{-s})		deg.	• -		677	P _C 45	ving Fluid 8.329	
 • o/	P,	W	Pt2	F _C	5	$(F_cQ)^2$	(F	F _c Q) ² -e ^{-s})	P _w 2	$P_c^2 - P_w^2$	Ca	al. Pw	
	P.	t (psia)					(1				I	Pw Pc	
₹.	#								34.969 	423.360			
3. 4.	_										1/0		
5.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	te Potent:	ial.				MCIRDO -				1	LULIVES	
COMI	PAN	Y	DC_OIL	AGAS			morpu;	n			l l	IUG 1 1958	
	T	and TITLE	Dos. 76.	S, Par RIGINAL	elegic Sign	BY L. M. S.	exico	District	Engineer		701	DIST, 3	
VITI		SED Y			TO IAE	BY L. M. S.	TEVENS						
		,		······································			REM	MARKS					

Friction Loss Regligible

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
- 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.
- F_g I Gravity correction factor.
- F_t Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n I Slope of back pressure curve.

Note: If Pw cannot be taken because of manner of completion or condition of well, then Pw must be calculated by adding the pressure drop due to friction within the flow string to Pt.

OIL CONSERVATION COMMISSION

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