NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

FOO.	- Inde	eignated_		Formation	Ploture	d offile		county	SAN JUA		
Initial x Annual				Special			Date of Test_4/23/59				
Com	pany Astoc	0 1) & 3	ra Čostost	y	Lease	Grenier		Well	No)	
Uni	t	Sec. 20	Mwn 31	Mar Roy	e. 11 u	Purc	haser Se	ustram iini	an an	Catherine	
							2 67	78 1	Ö	2688	
Cas	ing J	Wt9.5	I.D.	Se	t at 27 0	60 Pe	rf. <u>2</u> 5	7 T	.o	2716	
Tub	ing 1	Wt	I.D.,	Set	t at	22 Pe	rf. 269	7 <u>8</u>	'o	2708	
Gas	Pay: From	2678	0 2716	L 27	12 x(G_0.670		1 317 B	ar.Pres	s	
Proc	lucing Thru:	: Casir	rg	Tul	bing	·	Type We	ell Sing	le G		
	of Complet					Sin	gie-Brade	ennead-G. G	i. or G.	O. Dual	
	_			***************************************				•			
					OBSERVE	SD DATA					
Test	ed Through	Prover	(Choke	(Meter)				Type Taps			
			w Data				Data	Casing Da			
No.				s. Diff.	Temp.	Press.	Temp.	Press.	Temp.	Duration	
NO.	(Line) Size	(Orific		g h _w	o _F	psig	°F.	psig	o _F .	of Flow Hr.	
SI		+		- w		686	60	687	60		
1.		0.750				285	60	287	60	3 hours	
2.		1 00170									
3. 4.		'									
5. 1		 								· · · · · · · · · · · · · · · · · · ·	
											
	Coeffici	ent		Procesure	Flow CALC	CULATION	S	Compaga	<u>a la</u>	ata of Flour	
No.				riessure	Fact	cor	Gravity Factor	Factor		Rate of Flow Q-MCFPD	
	(24-Hou	ır) 🗸	h _w p _f	psia	Ft	;	$\mathbf{F}_{\mathbf{g}}$	Fpv		15.025 psia	
1.	12.365			237	1.00		0.963	1.025		31.1.2	
2.											
1. 2. 3. 4.											
5.							···				
	iquid Hydro ty of Liqui				ESSURE CA	ALCU(ATI)	Speci	fic Gravit			
c(1-e ⁻⁵))	p			ecific Gravity Flowing Fluid			
No.	P _w	Pt2	F _c Q	$(F_cQ)^2$	(Fo	Q) ² -e-s)	P _w 2	$P_c^2 - P_w^2$	Cal		
1.	Pt (psia)	89.369	1.40	21,930	3.0		85.458	386.511	P _w	1 C	
2.					_		+ + "+#" "				
3. 4. 5.											
5.											
Abso COMF	lute Potent	ial:	4,070	}	MCFPD;	n	85		. ander -		
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AGEN	T and TITLE	ORIG	HAL SIGN	ED BY L. M. S	TEVENS	int and	200		TUL	$D \setminus$	
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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 I 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
- 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
- Pf 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 $P_{\mathbf{W}}$ 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 $P_{\mathbf{L}}$.

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