NEW MEXICO OIL CONSERVATION COMMISSION

or the control of the

Form C-122

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

Pool	l Ballard			ormation	Pietur	ed Cliff	<u> </u>	County	Rio A	rriba		
Init	tial	An	nuel		Special_			Date of Test <u>9-14-57</u>				
Company Wofford Cain Lease Hughes Well No. 5-30												
Unit	. <u>P</u> S	ec. <u>30</u>	Twp . 26-1	Rge	- 7-V	Purcl	haser <u>El</u>	Paso Nati	ural Ga	s Compe	T	
Casi	ing 54 W	t. <u>14#</u>	_I.D	Set	at_229	10 Per	rf. <u>216</u>	5	То	2192		
Tubi	ing 1" W	t. 1.7#	_I.D.	Set	t at 221	6 Per	rf. 219	<u> </u>	To	2204		
Gas	Pay: From_	2165 To	2192	L	x(3			Bar.Pre	ess		
Prod	ducing Thru:	Casing		Tul	oing		Type We	ell sing	<u> </u>	•	7	
	e of Complet					SINE	gre-prade	mieau-G.	G. Or C	r.V. Dua	· T	
					OBSERVI	ED DATA						
Test	ed Through	(Prover)	(Choke)	(Meter)				Type Tap	s			
						m) :	5.1.	10				
~т	(D		Data	Dice		Tubing	Temp.	Casing D		,, _{,,}	ration	
No.	(Prover) (Line)	(Orifice		Dill	Temp.	rress.	Temp.	riess.	1cmb.	1	f Flow	
100	Size	Size	psig	h _w	o _F .	psig	°F.	psig	⊃ _F .	1	Hr.	
SI			1	- W				 		7 3		
$\frac{51}{1.}$		3/4"		╁┄╌╼╅		761 124	60	761 77	60	7 day		
2.		3/4"		 					- 60	3 868	<u>*</u>	
<u>3.</u>				\vdash				 		 		
4.		<u> </u>								†		
5.												
						CULATIONS				- -	77	
.	Coefficient Pre			essure Flow Temp.						Rate of Flow		
No.	(2) 11011	h =	nois		1		Factor F _{pv}		@ 15.025 psia			
		r) V			Ft							
1. 2. 3.	12.3650			89 1			0.961	1.0	29	1067		
2.												
3.							 					
4. 5.					 -			· · · · · · · ·				
	- 								L			
				PRI	ESSURE CA	ALCUIATIO	ONS					
Gas I	iquid Hydro	carbon Ra	tio		cf/bbl.			fic Gravi				
Gravi	ty of Liquid	d Hydroca	rbons_		deg. Spe				cific Gravity Flowing Fluid 773P ² c597_529			
^г с			_(1-e ⁻⁵)				Р _с	773	_ ^P c 5	97.529		
	D							1				
No.	$P_{\mathbf{w}}$	Pt.	F _c Q	$(F_cQ)^2$	(F	0.1^2	P_{w}^{2}	$P_c^2 - P_w^2$	Ca	1.	P	
110.	Pt (psia)	't	1 C	(, C.	1 7	$\left(\frac{Q}{e^{-s}}\right)^2$	* W~	- C - W		w	Pw Pc	
	10 (1020)				-\-		7.921	589,608		<u> </u>		
1. 2.							• 7	7.7.000				
3.												
4. 5.									I			
5.								<u> </u>				
Lher	olute Potent	ial•	1079		MCFPD;	n0.8	} <					
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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
- 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
- P_{f} Meter pressure, psia.
- $h_{\mbox{W}}$ Differential meter pressure, inches water.
- Fg 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 $P_{\mathbf{t}}$.