NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

	olSawy	er		I	Cormation	San	Andres		_County_	Lea		
[nj	tial		_Annu	al	<u> </u>	Spec	cial		_Date of	Test	1-14-65	
on	ipany Sinc	lair O	<u> 11 & </u>	Gas Co)•	Lease	Federal	Kelly	Wel	l No	1	
ni	t P S	Sec.	19 Tw	m (S Re	e . 38	E Purcl	haser	S.O.& G.			
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uk	oing 2 3/8 W	/t. <u>4.</u>	7 _I	.D	L .995 Se	t at_49	916 Per	rf. <u>op</u>	en	To		
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at	e of Complet	ion:	2_4	-61	Packe	r <u>4839</u>	9	Reservo	oir Temp.			
						OBSERV	ED DATA					
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	(Prover)		low D		Diff	Temp.	Tubing Press.		Casing D		Duratio	
۰ د	(Line)	(Orif	ice)		1 1	-					of Flo	
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٥.	Coefficient			P			Temp. Gravity ctor Factor				Rate of Flow	
, .	(24-Hour) \		$\sqrt{h_{w}}$	h _w p _f psia		Ft		Fg	F_{DV}		@ 15.025 psia	
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	Liquid Hydro				1 g	cf/bbl.					arator Gas	
ιV	ity of Liqui			ons 1-e ^{-s})	240	deg.		Speci P	lic Gravi	P2	ving Fluid	
	3.330		\				•	· ·	1/6/2		3954	
	P											
	$P_{\mathbf{w}}$	$P_{\mathbf{t}}^2$	F	_c Q	$(F_cQ)^2$	(F	$(cQ)^2$	$P_{w}2$	$P_c^2 - P_w^2$	Ca	1. Pw	
		U				(_	-e J			I F	Pw Pc	
- 	Pt (psia)			1.4	19.36	40	64.6	356.6	961_	597	2 1/43	
) •	Pt (psia) 593.2	351.9	2-1-4	***					 			
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	593.2 olute Potent PANY Sine	ial:	11 & 0	607 Gas Co N. Me	Σ		n_1.	000				

Used Previous n slope A. P. calculated

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_w). MCF/da. @ 15.025 psia and 600 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
- P_{t-} Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- P_{f} Meter pressure, psia.
- $h_{\mbox{\scriptsize W}}\mbox{\footnotesize I}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_{t} 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 $P_{\mathbf{t}}$.