NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Errit		Fo	rmation		Yaken		CountyL		<u> </u>		
Init	ial	A	nnual _.			Spec	ial		_Date of	Test	4-12	to 19, 1963
Comp	any 5	noll Oil	Congre	ту	·	Lease	Po	ste	Wel	l No	2	
Unit	<u> </u>	ec. <u>34</u>	_Twp.	190	Rg	e. <u>368</u>	Purc	haser 81	Paso Bat	ural Go	is Co	(2) 307
Casi	ng 5 1/2" W	t. 14.0	J.D	. <u>5, (</u>) <u>] </u>	t at 370) ?Pe:	rf	3634	To	1690	·.
Tubi	ng 2 1/2" W	t. <u>6.5</u>	I.D	2.	<u>⊿.i</u> Se	t at	36 Pe:	rf		То		
Gas 1	Pay: From_	36.24 T	'o3	690	_L_358	<u>3</u> x	G <u>.691</u>		2479	Bar.Pr	ess	13.2
Prod	ucing Thru:	Casin	ıg		Tu	bing	# Sin	Type We	ell Si	gle G. or	G.O.	Dual
Date	of Complet	ion: 5	-21-97	<u> </u>	Packe	r354	35	Reservo	oir Temp.			
						OBSERV	ED DATA					
Test	ed Through	Preser	<u>) (9)</u>	oke)	(Meter)				Туре Тар	sF	ee.	
	- 	Flo	w Dat	2			Tuhing	Data	Casing D	ata	T	
T	(Prover)	(Ohoke	P:	ress.	Diff.	Temp.	Press.	Temp.	Press.	Temp.	1	Duration of Flow
NO.	(Line) Size	Size	e)	psig	${ m h}_{f W}$	o _F .	psig	°F.	psig	°F∙		Hr.
SI							660		Pecker			72
1.		1,500			6.25		636				∔ -	24
2.		1.500		572 576	7.84 9.61		623 613				+	24 24
3. 4.	4	1,500	ســـــــــــــــــــــــــــــــــــــ	578	12,25		600	<u> </u>		 	1	24
5.												
							CIT MTON					
	Coefficient						CULATION		Compre	ss. Rate of Flow		of Flow
No.	1			1		Factor		Factor	Factor		Q-MCFPD	
			h _w p _f ps		psia	F		${ t F_{ t g}}$	Fpv		@ 15.025 psia	
	13.99				6.2 .962		7	.9318	1.051		791.5	
1. 2. 3. 4.	13.99 6		67.73	57.73 585		5,2 .9649		.9318		5 3	396.7	
3.			75,25		99.2 .969				1.0		1005 1003.5	
4.	13.99		85,1C	- 5	91.2	.970	<u> </u>	.9318	1.0	93		1135
as L	iquid Hydro ty of Liqui 5.866	d Hydroc	arbon	s	Dry Hone	essure control		Spec:		ty Flo	wing	or Gas . 691 Fluid Hone .2
No.	P _w Pt (psia)	Pt ²	F _c Q		(F _c Q) ²	(1	'cQ) ² -e ^{-s})	P _w 2	P _c -P _w ²		al. P _w	P _w P _c
<u>j.</u>	649.2	421.5	4.6 5.3		21,557		364	424.9 409.0	28,3 44,2	651		96,8 95,0
3.	636.2 625.2	404.7 390.9	5.8	89	34.663	3.	445	376.3	55.9	629	.5 i	93.5
2. 3. 4. 5.	613.2	376.0	6.6	58	44,329		960	383.0	70.2	518		91.9
5.												
	lute Potent	ial:	2.	950		MCFPD;	n	.5.70				
COMP	ANY	Sh	ell O	il Co	apany							
ADDR							w Honico					
	T and TITLE		A. M		- Ges	TUB COL						
COMB	ESSED				rai Can	Cospany						
UUIII		- Al					MARKS					

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
- 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.
- $h_{\mathbf{W}}^{\perp}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{nv} 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 $P_{\mathbf{t}}$.