NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT	BACK	PRESSURE	TEST	FOR	GAS	WELLS

Pool	Jalmat		Fc	rmation	Yates -	7 Hiver	8	_County	Lea		
Initi	ial	Ar	nnual		Spec	ial	X	_Date of ?	est <u>10-</u>	22 to 10-2	<u>6-56</u>
Compa	ny Tidew	ater 011	Company]	Lease A.	L.Christ	mas	Well	No	1	
Unit	# F s	ec. 26	Twp. 228	Rge	<u>36</u> €	Purcl	naser	EPNG			
	ng_ 7 W								ľo		
	ng 2-1/2 W										
	Pay: From										?
rroat	cing Thru:	casing	3	¹u'	orug	Sin	gle-Brade	nhead-G.	G. or G	O. Dual	
Date	of Complet	ion: <u>12</u>	-27-49	Packer			Reservo	ir lemp			
					OBSERV	ED DATA					
Teste	ed Through	(Prover	(Choke)	(Meter)				Type Tap	s F	lange	
	···	Flo	w Data			Tubing	Data	Casing Da	ata		
No.	(Prover) (Line)	(Choke) Press.	Diff.	Temp.	Press.			Temp.	Durat: of F	1
NO .	Size	Size	· 1	h _w	°F•	psig	o _F ,	psig	^o F∙	Hr.	
SI				ļ		852				72	
1.	4	1,500		7.29	72	822				2h	
2.		1,500		12.96	73	801				211	
3.		1,500		21.16	72 70	777 683*				24	
4.		11500	500_	85.56	10	563-					
No.	Coeffici	ent $$	h _w p _f	ressure psia	FLOW CAL Flow Fac F	CULATION Temp. ctor	Gravity Factor F _g	Facto F _{pv}	r	@ 15.025 p	
1.	13.99		77.97	834	0.988		.91.63	1.091		111h	
2.	13.99	10	02.65	813	0.987		.9463	1.088		1460 1833	
3 c 4 . 5 c	13.99		29.29	790	0.987		.9463	1.084		31.31.	
4.	13.99	2	13.51	693	0,990	/2	.7005	1.013			
as L ravi	iquid Hydro ty of Liqui 5.866	id Hydroc	atio_ arbons(1-e ^{-s})		cf/bbl.	CALCU ATI	Speci Speci	fic Gravi	ty Flow	rator Gas_ ing Fluid_ 748.6	
No.	P _t (psia)	Pt ²	$F_{\mathbf{c}}^{\mathbf{Q}}$	(F _c Q) ²		F _c Q) ² 1-e ^{-s})	P _w 2	$P_c^2-P_w^2$	P	P _W	,
1.	835.2	697.6	6.5	12.6		5	701.1	74.5	20.0		<u></u>
2.	814.2	662.9	8.56	73.27			674.1 642.1	106.5	45	0,029	
3.	790.2	624.4 484.7	10.75 20.1h	115.56			546.8	201.8	2.7	0.027	
<u>4.</u> 5.	696.2	HOULE	- SUAMI	علامات المناسب	- VE					\overline{X}	<u> </u>
Abso COMP ADDR			4900 Tidewater Box 547 H. P. Sha	Hobbs	Dany M	; n exico Supt.	0 .526				
	ESSED		Ed Mabe								
COMP	PANY		El Paso N	atural (Bas Co.						
					RE	MARKS					

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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 ($P_{\rm W}$). MCF/da. @ 15.025 psia and 600 F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- 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.
- $h_{\mathbf{W}}^{-}$ Differential meter pressure, inches water.
- F_{g} Gravity correction factor.
- F_{t} Flowing temperature correction factor.
- F_{DV} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If $P_{\rm W}$ cannot be taken because of manner of completion or condition of well, then $P_{\rm W}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\rm t}$.