## NEW MEXICO OIL CONSERVATION COMMISSIONESS OFFICE CCC

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

PM 2 Revised 12-1-55

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Init	ial	Ar	nual		Spec	cial	I	Date of	Test	1-28	to 2-1 57
	any <u>Sout</u>										
Unit		Sec. <u>1</u>	Twp	25 8 R	ge. <u>37</u>	Purc	haser	l Paso Fe	tural	One C	
	ng <b>5-3/16</b>							•			
	ng <b>Here</b>										
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Date	of Comple	tion:	-12-46	Packe	r <b>To</b>	Sin	gle-Brade Reserve	enhead-G. oir Temp.	G. or (	G.O. I	ual
						ED DATA	<del></del>	• -	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
Test	ed Through			(Meter)				Туре Тар	.c \$2*	1 am an	
Flow Data							g Data   Casing Data				
$\top$	THE P	(EKZEZ)	Press	. Diff.	Temp.		Temp.			1	Duration
No.	(Line) Si≱e	(Orifice	)   psig	h <sub>w</sub>	° <sub>F</sub> .	psig	o <sub>F</sub> .	psig	o <sub>F</sub> .		of Flow Hr.
SI								646		<del>                                     </del>	72
1. 2.	- 4	1.250		16				446			24
3.	<del></del>	1,250		23.04 38.4				392	ļ	<del> </del>	24
	<u> </u>	1.250		59.3	62 67			322 249	<del> </del>		24
4. 5.									<del> </del>	1	
FLOW CALCULATIONS  Coefficient Pressure Flow Temp. Gravity Compress.											
No.	Flange	Lenc	P1	ressure	r_tow Tac	remp.	Gravity			Rate of Flow Q-MCFPD @ 15.025 psia	
	(24-Hou	ur)	hupe	psia	F.		Fg				
1.	9.643		,60			90		1.947		830	
2.	9.643		.48		3.00					933	
3。	9.643	113	.31		.99			1.0		1084	
3 · 4 · 5 ·	9.643	124	.39		.99		9608	1.0			1172
<u>5. l</u>											
ravit	.quid Hydro y of Liqui	d Hydroca:	tio rbons (1-e <sup>-s</sup> )_		cf/bbl.	ALCU ATI	Speci Speci	fic Gravi fic Gravi	ty Flow		luid
							U		_		
	$P_{\mathbf{w}}$	-2	- 0	4 2		.2		2 2			
No.	🌉 (psia)	Pt	F <sub>c</sub> Q	$(F_cQ)^2$	(F,	<sub>e</sub> Q) <sup>2</sup> -e <sup>-s</sup> )	P <sub>w</sub> 2	$P_c^2 - P_w^2$	1	ll.	Pw Pc
1. 2. 3.	459.2	210.9	-195	.632		078	210.9	223.6		<u> </u>	
$\frac{2}{3}$	405.2	164.2	.894	.799		099	164.3	270.2	ļ		
4.	335.2 261.2		1.12	1.25		133 155	68.4	322.0	<del> </del>	<del>-  </del>	
4. 5.			-			423	90 48	366.1	1		
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COMPA	ute Potent		1.340			n1	74				
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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<sub>W</sub>). MCF/da. @ 15.025 psia and 60° F.
- $P_c$  72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwI 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 méter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- F<sub>DV</sub> Supercompressability factor.
- n \_ 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  $P_{\rm t}$ .

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