## NEW MEXICO OIL CONSERVATION COMMISSION

						HOBBS OFFICE OCC						
				MULTI-	POINT BA	ACK PRES	SSURE TES	ST FOR GAS	WELLS		evised 12-1-5	
~1	Jalmat			Fo	mation	Iates	1953 AF <b>Seven</b>	R 14 M	<u>දු</u> දී () පී County	Lea		
											2 to 2_21_68	
											12 to 3-21-58	
											2	
it _	<u>N</u> _Se	ec. <u>4</u>	Twp	248	Rge	. <u> </u>	E Pure	chaser Pe	rmian			
sing	5-1/2" Wt	. 17.0	<b>∭</b> _I.	D. 4.8	<b>192</b> _Set	: at	<b>3195</b> Pe	erf. 2720	*	To	381	
oing	2-7/8" Wt	. 6.	5#_I.	D. 2.1	<b>41."</b> _Set	: at	<b>2690</b> Pe	erf		_To		
											s. <u>13.2</u>	
auc	ing Thru:	Casi	.ng		I ut		Si	Type We ngle-Brade	nhead-G.	G. or G.	0. Dual	
e o	f Completi	lon:	11-	7-54	Packer	r		Reservo	ir Temp.			
						OBSER	VED DATA					
sted	Through	(Prove	<u>er) (G</u>	<u>hoke)</u>	(Meter)				Туре Тар	os <b>pipe</b>		
		[ <del>.</del>	low Da	ita			Tubin	g Data	Casing I	Data		
Т	(Prover)	(0)		Dese	Diff.	Temp.	Press	. Temp.	Press.	Temp.	Duration of Flow	
•	(Prover) (Line) Size	(Orif) Siz	LCE) Se	psig	hw	• <sub>F</sub> .	psig	°F.	psig	<sup>&gt;</sup> F.	Hr.	
		•			•		673.4		667.5	l l	72 hrs. SIP	
	<u>_</u>	1.75			3.7	<u>59</u> 63	641.5		640.1 599.8	++	23-1/4 hrs.	
	<u></u>	1.75			29.5	70	496.6		506.1		21-3/4	
		1.75		115.2		71	417.0		441.1		22	
					L				I			
							LCULATIO				Rate of Flow	
•	Coefficie	ent		PI	ressure		Temp. ctor	Gravity Factor	Compr Fact	or	Q-MCFPD	
1	(24-Hour) -		h <sub>w</sub> p <sub>f</sub>		psia		Ft	Fg Fp		(	9 15.025 psia	
	21.69	21.69			146.1	1,00		0.9645	1.0		<u>493</u>	
	21.69		38.09		140.9	0.99		0.9645	1.0		1308	
	21.69		62.50 70.13		132.4 128.4	0.9905		0.9645	1.01		1466	
vit	quid Hydro y of Liqui <b>5.666</b>	d Hydr	ocarb	o ons 1-e <sup>-S</sup>		cf/bbl		Spect Spect	ific Grav ific Grav <b>686.6</b>	ity Flow	rator Gas ing Fluid	
<b>-</b>	Pw								2 0			
•		$P_t^2$	F	c <sup>Q</sup>	$(F_cQ)^2$		$(F_cQ)^2$ (1-e^-s)	P <sub>w</sub> 2	$P_c^2 - P_w^2$	, Ca P	l. Pw Pc	
	Pt (psia)	428.	5 2	872	8. 364	0.	94.51	427.5	41.9	655.		
$\pm$	612.9	373.		716	22.24	2.		375.7	95.7	612.9		
	<u>916.3</u> 439.9	259.		673	73.96		37	193.5	277.9	4.99.		
1	7/7 • 7											
	ute Porent	ial:	2000				); n0	.56				
MPA	NY Pan	Azerie	n Pel	rolea	Cerper	ation						
	and TITLE				Mexico	eld Ins	inem					
	SSED	the second se	L W. 1	igned By MEEK	<b>F.A</b>							
MPA	NY			<u></u>			EMARKS					

Gasing pressure apparently lagging, therefore, friction was calculated. Point alignment not exact but due to this being a retest, an average slope was drawn through the data points to be submitted to the Commission.

## 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 60° F.
- P<sub>c</sub>= 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- Pw<sup>-</sup> 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.

 $h_w$  Differential méter pressure, inches water.

Fg= Gravity correction factor.

 $F_t$  Flowing temperature correction factor.

F<sub>pv</sub>- Supercompressability factor.

n \_ Slope of back pressure curve.

Note: If  $P_w$  cannot be taken because of manner of completion or condition of well, then  $P_w$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_t$ .

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