## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Astes		Form	ation	Lotur	olien	<b>,</b>	_County	San Ju	MD.
Initial *	Annual		Special				_Date of Test		
Company Marie G	1 and Gas	Con NI	Le	ease	o lamb	<b>W1</b>	_Wel	1 No	IJ
Unit A Se	c 24 Two	2周	Røe.	DH	Purch	aser			·
Casing Wt	<b>9</b> 3	~ k.090		209	0	2022		TO 200	2
Tubing 1 Wt		•D•	Set	at	Fer	· · · · · · · · · · · · · · · · · · ·		m-	2 0 0 1
	_	<u>.</u>							
Gas Pay: From_									
Producing Thru:	Casing_		Tub:	ing	Sinc	Type We	11	G. or G	•O• Dual
Date of Completi	on: 11/7/5	9	Packer			Reservo	ir Temp.		
				OBSERVI	ED DATA				
Tested Through	( <b>***</b> *********************************	Choke) (¶	ieter)				Туре Тар	s	
	Flow D				Tubing	Data	Casing D		
	(Choke)		Diff.	Temp.		Temp.	Press.	Temp.	Duration
No. (Line) Size	(Orifice) Size	psig	h <sub>w</sub>	o <sub>F</sub> .	psig	o <sub>F</sub> .	psig	□ <sub>F</sub> .	of Flow Hr.
SI					618	do	309	<u> </u>	7 56/8
1. 2. 3.	.750	309			24.9	00	1203		
3.									
<u>4.</u> <u>5.</u>								1	
			F	LOW CAL	CULATION	5			
Coefficie No.	fficient Pr		essure Flow Temp. Factor		Temp.	Gravity Factor	Compre	ess.	Rate of Flow Q-MCFPD
(24-Hour	$-\sqrt{h_{\mathbf{W}}}$			F	t _	${\tt F_g}$	Fpv		@ 15.025 psia
1. 12.35		32	1	1,430	9	, April	1,0)		<b>797</b> 1
1. <b>12.35</b> 2. 3. 4. 5.									
5.									
			PRE	SSURE C	ALCUTATI	ons			
Gas Liquid Hydrod	arbon Rati	.0		cf/bbl.					rator Gas
Gravity of Liquid	l Hydrocarb	ons 1-e <sup>-s</sup> )		deg.		Speci	fic Gravi	ity Flov	ying Fluid
c	(	1-6 -7			•	* C		· C	
P <sub>w</sub>							2 2		
No. Pt (psia)	$P_{t}^{2} \mid F$	,cg	$(F_cQ)^2$	(F	$\left(\frac{cQ}{c^{-S}}\right)^2$	$P_{w}^{2}$	$P_c^2 - P_w^2$		Pw Pc
1. M						79.8gT	180,61	9	
3.									
1. 1. 2. 3. 4. 5.									
Absolute Potent:	ial:	5,277		_MCFPD;	n	.85			
COMPANY Aster	7%, Fern	as Compat	ou lax	100					
AGENT and TITLE	ORIGINA	L SIGNED I	BY D. K. I	BRYANT			t, Froduc	tion ac	gineer
WITNESSED	·								

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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 60° 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
- $P_{f}$  Meter pressure, psia.
- $h_{\mbox{\scriptsize W}}\mbox{\footnotesize I}$  Differential meter pressure, inches water.
- $F_g$ I 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  $P_{\rm t}$ .

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