## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

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Initial	An	nual		Spec	ial		Date of	Test_9	/29/5	7
Company Magnel	ia Petrole	num Co.	·	Lease <u><b>Cul</b></u>	ling-Fed	eral	We]	ll No	2	
Unit <u>E</u>	Seck	Twp. 2h	Rge	e. <u>3W</u>	Purc	haser	Pagifia N	ethans	<b>.</b>	
Casing 54 V										
Tubing 2 3/8" V		_								
Gas Pay: From								_		
Producing Thru:	: Casing	<del></del>	Tul	bing	X Sin	Type We gle-Brade	ell <b>Si</b> enhead-G.	G. or (	3.0. I	Dual
Date of Complet	cion: 9/1	.6/57	Packer	None None	·-·-	Reservo	oir Temp.			
				OBSERV	ED DATA					
Tested Through	(French)	(Choke)	(SERVICE)				Type Tap	s =		
		Data		<del></del> -1	Tubing	Data	Casing I		T	
and a constant	(Choke)	Press.	Diff.	Temp.		Temp.				Duration
No. (Line) Size	Size	psig	h <sub>w</sub>	$o_{\mathrm{F}_ullet}$	psig	°F.	psig	□ <sub>F</sub> .		of Flow Hr.
SI			<u> </u>		૦૧		931	<del>                                     </del>		
2. 2. 3	0.750	122	-	65	122	65	197	-	_3	hours
	†								<u> </u>	
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	<del>L</del>	<del>+</del>	<del></del>	T ON OAT	OUT AMTON	C	<del></del>		<del>!</del>	
Coeffici	.ent	Pr		Flow		Gravity	Compre			of Flow
(24-Hour) - / h n-		h no	Fac p <sub>f</sub> psia F		tor Factor		Factor F <sub>pv</sub>		Q-MCFPD @ 15.025 psia	
							1-01h		1.570	
12.3650										
•										
			PRE	ESSURE CA	ALCUTATIO	ONS				
s Liquid Hydro	carbon Rat	tio		cf/bbl.		Speci	fic Gravi	ty Sepa	rator	Gas
avity of Liqui	d Hydroca			deg.		Speci	fic Gravi	ty Flow	ving F	'luid
<del></del>	·	_(1-e-0 <u>/</u> _				Pc	9116	_ <sup>r</sup> c	894	•9
P <sub>w</sub>				<del></del>				<del></del>		
0.	P <sub>t</sub> <sup>2</sup>	F <sub>c</sub> Q	$(F_cQ)^2$	(F	$(c^{Q})^{2}$	$P_{w}^{2}$	$P_c^2 - P_w^2$	Ca	1.	$\frac{P_{\mathbf{W}}}{P_{\mathbf{C}}}$
(psia)				(1.	-e <sup>-s</sup> )	h3.7	851.2		W	P <sub>C</sub>
•						<del>-43•</del>	191.02	<del>                                     </del>		
					<del></del>			+	-	
bsolute Potent		1,638		_MCFPD;	n0_8	5	<del></del>			
OMPANY MAGNOL DDRESS P. O.				30						
GENT and TITLE	Mou	male,	Kuf					6	1/4	1/-
TITNESSEDOMPANY								WFPI	#¥L	<u> </u>
				REM	ARKS				4 1 1 1	
							1	OIL CO	N. CO	M. /

## 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
- Pf Meter pressure, psia.
- $h_{\mathbf{W}}^{\perp}$  Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- $F_{pv}$  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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