## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised	12-1-55

Poc	1 BA	LLARD		F	ormation	PICT	URED CI	LIFFS	County	RIO A	RRIBA
Ini	tial	x	Annu	ual		Spec	ial		Date of	Test	1-5-60
Con	pany A	rizona	Explor	ration	s, Inc	Lease	Jicari	lla	We]	ll No	<b>c-</b> 9
Uni	t <u>A</u>	Sec.	3 Tw	<sub>гр. 23</sub>	N Re	ge5W	Purc	haser_S	outhern	Union	Gas Company
									288		
Tub	$ing 1\frac{1}{4}$	Wt	2.4# I	.D	Se	t at 2	312 Pe	rf. 2	302	То	2312
Gas	Pay: F	rom_22	88_To_2	311	L;	2300 x	G <u>0.690</u>		1587	Bar.Pre	ess. <u>12.0</u>
Pro	ducing T	nru:	Casing	x	Tu	bing		Type We	ell <u>Sir</u> enhead-G.	gle G	8.5
Dat	e <b>of</b> Com	oletion	:12-1	1-59	Packe	r	Sin	gle-Brade Reservo	enhead-G. oir Temp	G. or (	G.O. Dual
							ED DATA				
Tes	ted Thro	igh <u>(P</u>	DESER	Choke)	(Motex)	DK.			Туре Тар	s	······································
~			Flow Da	ata			Tubing	Data	Casing D	ata	T
No.			Choke) rifice)		Diff.	Temp.		Temp.	Press.		
140.	Size			psig	h <sub>w</sub>	$\circ_{\mathrm{F}}$ .	psig	o <sub>F</sub> ,	psig	o <sub>F</sub> .	of Flow Hr.
SI							686		686	<del> </del>	
1. 2. 3.			3/4"	149		_ 59	160		149	59	3 hours
<u>3.</u>			~	<u> </u>						<u> </u>	
4. 5.	<del></del>										
				<del> </del>	<u> </u>				<u> </u>		
	FLOW CALCULATIONS  Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow										
No.						Fact	tor	Factor	Facto	r	Q-MCFPD
<del>-</del>		Hour)	√ h <sub>w</sub> r	o <sub>f</sub>	psia	F <sub>t</sub>		Fg	Fpv		@ 15.025 psia
1. 2. 3.	14.16	<u>U5</u>			161	1.00	<u> </u>	0.9325	1.0	20	2170
3. 1.											
4. 5.									<del>                                     </del>	+	
					PRI	ESSURE CA	LCU ATIC	ns		-	
as I	iquid Hy	drocarb	on Ratio	)		cf/bbl.		Speci	fic Gravit	tv Sepa	rator Gas
	ty of Li	quid Hy	drocarbo	ons L-e <sup>-s</sup> )		deg.		Speci	fic Gravit	ty Flow	ing Fluid
c	· · · · · · · · · · · · · · · · · · ·		(1	<u></u>	<del></del>			Fc	<u>698</u> 2	Pc	487,204
<del>- T</del>	$P_{\mathbf{w}}$	<del></del>	<del></del>				F = (2)	170)(65)	32 -161 <sup>2</sup>	10.02	<b>2273</b>
No.	Pt (psi	a)	$P_{t}^{2} \mid F_{c}$	,Q	$(F_cQ)^2$	(F <sub>0</sub>	Q) <sup>2</sup> e-s)	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Ca P	P <sub>W</sub>
$\frac{1}{2}$										ļ	w
3.											
1. 2. 3. 4. 5.										†	
	lute Por		<del></del>	<del></del>	·	MCFPD;	<u> </u>	)r-	···	<u> </u>	
COMP	ANY	rizon	a Explo		ns Inc		n0.8	25			
ADDR	ESS 1 T and TI	17 Me	adows E	Buildi	ng. Da	llas 6.	Texas				
WIIN	ESSED		e Credi	<u>u. st</u> cott	Carda.	Enginee	<u>r'</u>	<del></del>		<del></del>	
COMP	ANY		na Expl		ons. I						
						REMA	KKS	OF	PEIVE		

## 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.
- $P_c$  72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- Pw 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.
- $h_{\mathbf{w}}$  Differential meter pressure, inches water.
- $F_g$ : Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv 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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