## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised	12-1-55

Pool	Tapacito			Fc	rmation	Pictur	red Cliff		_County_	Rio A	rribe
Init	tialX	<del></del>	Annu	al		Spec	cial		_Date of	Test_Jr	me 1, 1959
Comp	pany <b>Sout</b>	hern U	nion G	as Comp	any	Lease	feCroden		Wel	1 No	2-B
Jnit	<u> </u>	Sec	4 Tw	p. 25N	Rge	. <u>3</u> W	Purc	haserS	outhern U	nion G	s Company
Casi	ing 53*	Wt. <u>15</u>	.5#_I	.D. 4.9	<b>95</b> Set	t at	<b>28</b> Pe:	rf. 3826	<u> </u>	То	3876
'ubi	ing 2"	Wt. <u>4</u>	•7# I	.D. <u>1.9</u>	<b>95</b> Set	t at	BhO Per	rf. 3820	)	То	<b>2</b> 840
as	Pay: From	3826	To	3876	L	χχ	cG			Bar.Pre	ss. 12.0
rod	lucing Thru	: Ca	sing_		Tul	oing	X Since	Type We	ell <b>Sin</b>	gle - C	ias
ate	of Comple	tioni	Nay 2	1, 1959	Packer	-		_Reservo	oir Temp.		
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est	ed Through				DIXERX				Type Tap	s	
	(Prover)	Ch (Ch	Flow D	Proce	Diff	Temp	Tubing	Data	Casing D	ata Term	Duration
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I							932		931	1	7 Days
		3	<u>//in</u>	406		_60	406	60	825		3 hours
•											
٥.	Coefficient (24-Hour) $\sqrt{h_W p_f}$		Pr	FLOW CALCULATI Pressure Flow Temp. Factor		Temp.	Gravity Compr Factor Fact		or (Q-MCFP)		
_			√ <sup>n</sup> wl		18	1.000		•9463	F <sub>pv</sub>		@ 15.025 psia <b>5.121</b>
c											
s L	iquid Hydro	ocarbo	n Ratio	0		cf/bbl.	ALCU ATIO	Speci			rator Gas
	ty of Liqui	_	rocarbo (]	ons l-e <sup>-s</sup> )		deg.			fic Gravi <b>9hh</b>	- 0	ing Fluid
								Pw	837	Prok ]	01
0.	P <sub>w</sub> Pt (psia)	Ρ	E F	gQ.	$(F_cQ)^2$	(F (1	c <sup>Q)²</sup> -e⁻s)	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Ca P	l. Pw Pc
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so	lute Potent				COMPANY		n0.	35			
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OMP	ANY	-				REM	ARKS		705	IVEN	

JUN5 1959 OIL CON. COM. DIST. 3

## 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<sub>c</sub>= 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
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- $F_g = Gravity$  correction factor.
- $F_t$  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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