## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

LOOT	SUM	30L		F(	ormation		(ates		County		4	
Init	ial		Annua	1		Spec	ial	*	Date of	Test 4-	26 to 5-3-63	
Compa	any <b>Sh</b> e	ell 011	Compa	ny		Lease	Davonia	State	Wel	1 No	1	
Unit	G	Sec. <b>20</b>	Two	218	Rg	e <b>. 36</b> E	Purc	haser <b>E</b> l	. Paso Nati	ural Ga	a Company	
	ng <b>7"</b>											
Tubing 2 1/2"Wt. 6.54 I.D. 2.441 Set at 3904 Perf. To  Gas Pay: From 3060 To 3620 L 3060 xG .674 -GL 2062 Bar. Press. 13.2												
Gas 1	Pay: From	3060	_To_3	620	L3(	)60x	G <u>.674</u>	<u>=</u> GL	2062	Bar.Pre	13.2	
Produ	Producing Thru: Casing Tubing Type Well G.O. Dual  Single-Bradenhead-G. G. or G.O. Dual											
Date	of Comple	tion:	9-2-	53	Packe	r 371	onic 10	gre-Brade Reservo	oir Temp.	G. or G		
						OBSERV		*011 BO	as tempor	wily d	bandoned.	
						OBSERV	ED DATA					
Tested Through (Meter) (Meter) Type Taps Tige.												
		F	low Da	ta		<del></del> 1	Tubing	Data	Casing D	ata		
	(Description)	X Chr.	traces)		Diff.	Temp.		Temp.	Press.		Duration	
No.	(Line) Size	(Orif		noia	h	°F.	nata	o <sub>F</sub> ,	nois	o <sub>F</sub> .	of Flow	
07	PIZE	1 21	ze	psig	h <sub>w</sub>	r•			psig	-F•	Hr.	
SI 1.	4	1.7	50	560	3.76	75	Packer		808		72	
2.	4	1.7			6.76	77			747 739		<u> 24</u> 24	
3.		1.7			17.64	75			694		24	
4.	4	1.79			21.16	69			673		24	
5.				,								
_								_	,			
<del></del>	Coeffici						CULATIONS			<del></del>	D-4 - 6 D1	
No.		renr	$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$		essure				Compress. Factor			
	(24-Hour				psia	F <sub>4</sub>	.	F_			@ 15.025 psia	
<del>,  </del> -					73.2		<del></del>				<del></del>	
1. 2. 3.	19.27 19.27				43.2	.9859 .9840	<del></del>	.9435 .9435	1.057		1.088	
3.	19.27				95.2	.9859		.9435	1.061		1.948	
4.	19.27		113.4		06.2	.9915		.9435	1.066		2 179	
4. 5.											<del></del>	
	iquid Hydro y of Liqui <b>.865</b>	id Hydro	ocarbo	ns <b>Ho</b> n	<b>y</b>	_	ALCUI ATIC	Speci Speci	fic Gravi fic Gravi <b>821.2</b>	ty Flow	rator Gas_676 ing Fluid Mone 674.4	
No.	Pt (psia)	Pt <sup>2</sup>			(F <sub>c</sub> Q) <sup>2</sup>	(1-	Q) <sup>2</sup> -e <sup>-s</sup> )	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Ca:	w Pc	
1. 2. 3.	760.2 752.2	577.9	-94		.8857	.116		578.0	96.4	<del>  760.3</del>	92.6	
3. 1	707.2	565.8 500.1	1.68		2.841	155		565.9	108.5 173.9	752.3		
4.	686.2	470.9	1.88	_	3.553	469		471.4	203.0	+ 686 6		
4. 5.												
COMPA	***************************************	Shell		opany.		MCFPD;		3				
ADDRE ACENT		P. O.	Box 18	58 , Ro	erell,	New Maxi	00/	elera			·	
agent Witne	and TITLE	A. L.	Ellerd	in Cas	Tester		A. V.	exera	<del> </del>			
COMPA		J. B.	mercy			<del></del>		<del></del>				
		-E1 #88		TAL III	us Compa	REMA	RKS					

## 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 Tactual rate of flow at end of flow period at W. H. working pressure (Pw). MCF/da. @ 15.025 psia and 60° F.
- Pc 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.
- Fg Gravity correction factor.
- $F_{t}$  Flowing temperature correction factor.
- F<sub>bv</sub> Supercompressability factor.
- n I 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  $P_{+}$ .