## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Init	Angels Per			<del></del> - ~	Illia CTOII	V6.500 5	<u>*                                    </u>		_country	SOLIT A COM	<u>a</u>
	ial		Annua	al		Speci	ial	<del></del>	Date of	Test_No	wumber 7, 19
omp	any Pan Am	ricen	Petrol	en Co	rporati!	ase i	8, H, Pl	okin	Wel	1 No	6
nit	<u> </u>	Sec <b>3</b>	Twp	) <b>36</b>	Rge	e. 11N	Purc	naser_ <b>So</b>	thern Uni	on Gas	Company
asi	ng <b>5_1/2</b> V	/t <u>1</u>	<u>5.5</u> I.	D. <b>4.95</b>	<b>D</b> Set	t at 62	<b>74.</b> Pe:	rf. 6159-	-6166 and	<u> 61</u> 87-61	.90
ubi	ng <b>2-3/6</b> V	/t	<b>5.7</b> I.	D. <b>1.99</b>	<b>5</b> Set	t at <b>61</b>	<b>5</b> Pe:	<b>op</b>	en ended -	no per	forations
	Pay: From_										
rod	ucing Thru:	: Cas	sing		Tut	oing1	£	Type We	ell <b>\$1</b>	ngle ga	**
ate	of Complet	ion: ]	10/28/6	io	Packer	r None	Sing	zle-Brade Reservo	enhead-G. oir Temp.	G. or G	.O. Dual
	_				_	OBSERVE		_			
est	ed Through	( Ross	<b>-</b> ) (C	hoke):					Type Tap	s	
			Flow Da				Tubing	Data	Casing D		
o .	(Line)	(Cho			Diff.	Temp.	Press.	Temp.		Temp.	Duration of Flo
	Size	Si	ze	psig	h <sub>w</sub>	°F.	psig	°F.	psig	°F∙	Hr.
[ ]	Shat in	10 day		454		60 (est)	2057 508		2060 1050		3 hr.
				7/7							
		<u> </u>									
	- <del> </del>							<del></del>	<u> </u>	<u> </u>	
	Coeffici	ent.	<del></del>	-TPr	Fessure F	LOW CALC		Gravity	Compre	98.	Rate of Flow
lo.					Fact	or	Factor	tor   Factor		C Q-MCFPD	
_	•		√ h <sub>w</sub> p	f F	osia	F <sub>t</sub>	·	F <sub>g</sub>	Fpv		@ 15.025 psi
	12.365										
1											
+											
—											
					PRE	SSURE CA	.LCU ATIO	)NS			
: L:	iquid Hydro					cf/bbl.	LCU ATIC	Speci			rator Gas
L:	ty of Liqui	d Hydr	rocarbo	ns			LCU ATIC	Speci Speci	fic Gravi	ty Flow	ing Fluid
s L:		d Hydr	rocarbo			cf/bbl.	LCUTATIC	Speci Speci		ty Flow	ing Fluid
L:	ty of Liqui	d Hydr	rocarbo (1	ns _e <sup>-s</sup> )		cf/bbl. deg.		Speci Speci P <sub>C</sub> _ <b>X</b>	fic Gravi	ty Flow Pc 4.2	ing Fluid
: L:	ty of Liqui	d Hydr	rocarbo	ns _e <sup>-s</sup> )		cf/bbl. deg.	Q) <sup>2</sup> -e-s)	Speci Speci P <sub>C</sub>	fic Gravi	ty Flow Pc 4.2	ing Fluid
Livit	ty of Liqui	d Hydr	rocarbo (1	ns _e <sup>-s</sup> )		cf/bbl. deg.	Q) <sup>2</sup> -e-s)	Speci Speci P <sub>C</sub> _ <b>X</b>	fic Gravi	ty Flow Pc 4.2	ing Fluid
L: .vit	ty of Liqui	d Hydr	rocarbo (1	ns _e <sup>-s</sup> )		cf/bbl. deg.	Q) <sup>2</sup> -e-s)	Speci Speci P <sub>C</sub>	fic Gravi	ty Flow Pc 4.2	ing Fluid
Livit	ty of Liqui	d Hydr	rocarbo (1	ns _e <sup>-s</sup> )		cf/bbl. deg.	Q) <sup>2</sup> -e-s)	Speci Speci P <sub>C</sub>	fic Gravi	ty Flow Pc 4.2	ing Fluid
S L:	ty of Liqui P <sub>w</sub> Pt (psia)	d Hydr	rocarbo (1	ns _e = 5)		cf/bbl. deg. (Fc	Q) <sup>2</sup> (e-s)	Speci Speci P <sub>C</sub>	fic Gravi	ty Flow Pc 4.2	ing Fluid
Dosol	Pw Pt (psia)  lute Potent	d Hydr	rocarbo (1	nse=s)	(F <sub>c</sub> Q) <sup>2</sup>	cf/bbl.deg.  (Fc (1-	Q) <sup>2</sup> -e-s)	Speci Speci P <sub>C</sub>	fic Gravi	ty Flow Pc 4.2	ing Fluid
Donosol	Pw Pt (psia)  lute Potent ANY Page ESS Box	d Hydr	F <sub>c</sub>	ns -e <sup>-s</sup> )	(F <sub>c</sub> Q) <sup>2</sup>	cf/bbl.deg.  (Fc) (1-	Q) <sup>2</sup> e-s) n_0.7	Speci Speci Pc	fic Gravi	ty Flow Pc 4.2	ing Fluid
DOSODORI	Pw Pt (psia)  lute Potent	d Hydr	F <sub>c</sub>	ns -e <sup>-s</sup> )	(F <sub>c</sub> Q) <sup>2</sup>	cf/bbl.deg.  (Fc) (1-	Q) <sup>2</sup> e-s) n_0.7	Speci Speci P <sub>C</sub>	fic Gravi	ty Flow Pc 4.2	ing Fluid
osol	Pw Pt (psia)  lute Potent ANY Pan ESS Box	d Hydr	F <sub>c</sub>	ns -e <sup>-s</sup> )	(F <sub>c</sub> Q) <sup>2</sup>	cf/bbl.deg.  (Fc) (1-	n_0.7	Speci Speci Pc	fic Gravi	ty Flow Pc 4.2	ing Fluid

## 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.
- $P_c$  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
- Pf Meter pressure, psia.
- hw 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  $P_{W}$  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  $P_{+}$ .

