1-WD

1-D 1-F

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool	Besin B	Basin Baketa Formation Daketa							County San Juan			
Init	ialX	Ann	ual		Sp <b>ec</b>	ial		_Date of	Test	5/18/61		
Comp	any South	est Produc	tion Com	pany	Lease	Mudge Fe	deral	We]	Ll No	3		
										Gas Company		
Casi	ng42 W	t. <u>10.50</u>	I.D.4.04	0Se	t at 6440	Per	rf	3355	To	6377		
ľubi	ng 11 W	t. 2.9	I.D. 1.61	0Se	t at 6370	Per	rf		To	6370		
as	Pay: From_	<b>6355</b> To	6377	_L 63	70 x	G67			Bar.Pre	ess. 12.0		
rod	ucing Thru:	Casing_		Tu	bing	X	Type We	11 Sin	gle Gas			
ate	of Complet	ion:		Packe	r	Sing	gle-Brade Reservo	enhead-G. oir Temp.	G. or (	G.O. Dual		
est!	ed Through	(Christer)	(Choke) 1	(Marker)		ED DATA		Type Tar	os			
		Flow	Data			Tubing	Data	Casing I	ata	T		
10.	(Prover) (Line)	(Choke)		Diff.	Temp.	Press.	Temp.	Press.	Temp.	Duration of Flow		
	Size	Size	psig	${\tt h}_{f w}$	°F.	psig	°F.	psig	<sup>⊃</sup> F•	Hr.		
I		2/40				2000		2000		7 day		
•		3/4"	519		68	519		1759	<del>                                     </del>	3-hr.		
$\cdot \mathbb{I}$									ļ			
•												
lo.	Coefficient (24-Hour) $\sqrt{h_{W}}$ 12.3650		w <sup>p</sup> f I	Pressure psia		CULATIONS Temp. tor	Gravity	Factor Fpv		Rate of Flow Q-MCFPD @ 15.025 psia 6,659		
c .												
c .												
s Li	iquid Hydro	d Hydrocar	bons	•	ESSURE CA	ALCU ATIO	Speci Speci	fic Gravi	ty Flow	rator Gas		
			(1-e <sup>-5</sup> )_					012 177	P <sub>C</sub> <sup>2</sup> 4 P <sub>W</sub> <sup>2</sup> 3	157		
۰ <b>.</b>	P <sub>w</sub> Pt (psia)	Pt <sup>2</sup>	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>	(F.	Q) <sup>2</sup> -e <sup>-s</sup> )	P <sub>w</sub> 2	$P_c^2 - P_w^2$		Pw Pc		
<u>:</u>							3157	891				
: : :												
1												
OMP.	lute Potent ANY <b>Sou</b> ESS <b>162</b> T and TITLE	thwest Pro	dustion ter Blde	Fars	ington,	n .75	CO CO					
I.I.NI	ESSED			,	,				- FIL			
OMPA	ANY				REM	ARKS		Ģ	MAY 22	1961 20M.		

## 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
- Pw<sup>-</sup> 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
- Pr Meter pressure, psia.
- $h_{\mathbf{w}}$  Differential meter pressure, inches water.
- FgI Gravity correction factor.
- Ft Flowing temperature correction factor.
- F<sub>DV</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  $P_{+}$ .