## Revised 12-1-55

MULTI-POINT	BACK	PRESSURE	TEST	FOR	GAS	WELLS

Poo	1 Wilde	at	I	Formation	Dako	ta		_County	San Ju	an
Ini	tialX	A	nnual		Spec	ial		_Date of	Test	Nov. 3, 1959
Com	pany Southe	rn Union	Gas Comp	any	Lease Mc	Cord - F	ederal .	Wel	1 No	2
Uni	t <b>L</b>	Sec. 34	_Twp30	N Rg	e. 13W	Pur	chaser_Se	outhern Ur	nion Ga	s Company
Cas	ing 41m	vt. 9.50	# I.D. 4	.090" Se	t at 63	47 Pe	erf. 6306		To_611	6 by intervals
Tub	ing 2-3/8" V	vt. 4.7#	I.D. 1	-9 <b>95"</b> Se	t at 610	0 <b>7</b> Pe	erf. 6107		To 607	7
Gas	Pay: From	To	0	L	x	.G			Bar.Pre	ess. 12.0
Pro	ducing Thru	: Casin	g	Tu	bing	X	Type We	11 Singl	le - Ga	8
Dat	e of Complet	ion: Sept	. 3, 195	Packe	rl	Sir No	ngle-Brade Reservo	nhead-G. ir <b>Tem</b> p	G. or	.0. Dual
					OBSERV	ED DATA				
Tes <sup>.</sup>	ted Through	<b>ATTITUTE</b>	(Choke)	(HOWEL)				Туре Тар	s_ <b>Fla</b> i	nge
			w Data			Tubing	z Data	Casing D	ata	Γ
No	(Prover) (Line)	(Choke	Press	Diff.	Temp.		Temp.			Duration of Flow
	Size	Size	psig	h <sub>w</sub>			°F.	psig	°F∙	Hr.
SI	M. MAN	77 TAL 101		30		2105		2105		60 days
1. 2.	(4.026]4" х	2.125 PI	ate 55/	29	91.5	667	92	997		4 hours
3.	, , , , , , , , , , , , , , , , , , , ,	†		<b>-</b>					1	
4.										
5.		ļ	<u> </u>		L	<u> </u>	1		<u> </u>	<u> </u>
					FLOW CAL	CULATIO	<b>IS</b>			
No.	No. (24-Hour)			Pressure Fl		Temp. Gravity ctor Factor		Factor		Rate of Flow Q-MCFPD 15.025 psia
1.	22599.71		28.4	569	0.9723		1.1952	1.052		3.550
1. 2. 3. 4.										
<u>3</u> .										
<del>4•</del> 5•	<del></del>									
as ] rav:	Liquid Hydro ity of Liqui	ocarbon Ra Ld Hydroca	atio <b>51</b> 0 arbons _(1-e <sup>-5</sup> )	000	cf/bbldeg.		Speci Speci P. 2	fic Gravi <b>2117</b>		
No.	P <sub>w</sub> Pt (psia)	Pt <sup>2</sup>	F <sub>c</sub> Q	$(F_cQ)^2$	(F	(cQ) <sup>2</sup> (-e <sup>-s</sup> )	P <sub>w</sub> 2	P <sub>c</sub> -P <sub>w</sub> <sup>2</sup>	l l	P <sub>W</sub> P <sub>C</sub>
1.	- 0 (2020)						1018100	3463600		W
1. 2. 3. 4.										
30 j						<del></del>			+	
<del>7.</del> 1					<del></del>					
Abso COMI ADDI AGEI WITI	olute Potent PANY SOU RESS P. O NT and TITLE NESSED PANY	THERN UNI	5. Farmi	ngton, Ne	w Mexico luction S	Superint				
					REM	ARKS		arri		



## 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
- PwT 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.
- $F_{pv}$  Supercompressability factor.
- n I Slope of back pressure curve.

Note: If  $P_{\mathbf{w}}$  cannot be taken because of manner of completion or condition of well, then  $P_{\mathbf{w}}$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_{\mathbf{t}}$ .

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