Form C-122

## RE-WORKED

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Cliffs Pool Fulcher Kuts Pictured Formation Pictured Cliffs County San Juan												
					_	<del></del>					7-28-63	
Company Southern Union Prod. Co. Lease Congress Well No. 3  Unit M Sec. 35 Twp. 29-M Rge. 11-W Purchaser Southern Union Gas Co.												
Casing 3-1/2 Wt. 9.30 I.D. 2.992 Set at 1936 Perf. 1848 To 1879												
Tubing 1-1/2 Wt. 2.99 I.D. 1.610 Set at 1816 Perf. 1806 To 1816												
Gas Pay: From 1848 To 1879 L 1806 xG .670 -GL 1218 Bar. Press. 12.0												
Producing Thru: Casing Tubing Type Well Single Geo Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion: 6-11-63 Packer Reservoir Temp.												
OBSERVED DATA												
Tested Through (Choke) (Choke) (Choke) (Choke) (Type Taps												
			Flow D				Tubing Data		Casing D		Domatica	
No.		Comi	fical			1		ł	i	l .	Duration of Flow	
110	Size	S	ize	psi	g h <sub>w</sub>	°F.	psig	o <sub>F</sub> ,	psig	or.	Hr.	
SI							237		237		7 days	
1.	2	3	<u> </u>	35		760	39	71	196		3 lare,	
2.		<b>-</b>		<b>├</b>				ļ		ļ		
3. 4.	<del></del>	<del></del>		<del> </del>		<del> </del>	<del> </del>	<del> </del>		<del> </del>		
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FLOW CALCULATIONS												
	Coeffic	ient			Pressure	Flow	Temp.	Gravity	Compre	58.	Rate of Flow	
No.	4		<i> </i>							r	Q-MCFPD	
	(24-Hour) 7		√ h <sub>w</sub> i	h <sub>w</sub> p <sub>f</sub> psia		Ft		Fg	Fpv		● 15.025 psia	
1.	12,3650				됬	, 7668		,)46)			939	
2.					····							
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4.			<u> </u>	+	<del></del>							
5.			<u> </u>			<u> </u>						
					PT	RESSURE C	TPATUS.1A	ONS				
					4.4		212001212	.0				
Gas :	Liquid Hydro	ocarbo	n Rati	ο		cf/bbl.					arator Gas	
	ity of Liqu	id Hyd:	rocarb	ons		deg.		Speci	fic Gravi	ty_Flow	wing Fluid	
<sup>F</sup> с			(	1-е <sup>-8</sup>	3		-	Р <sub>с</sub>	2k9	_P <sup>2</sup>	62,0	
	$P_{\mathbf{w}}$	1			<del></del>		I					
No.	'W	P	2   F	<sub>c</sub> Q	$(F_cQ)^2$	2   (F	(cQ) <sup>2</sup>	P. 2	$P_c^2 - P_w^2$	Ca	al. P.	
	Pt (psia)		י ו	C -	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(1	-e-s)	W		1	Pw Pc	
1.								13.3	18,7		.835	
2.								·	ļ			
3.									<del> </del>	+		
4. 5.		<del> </del>			+					<del> </del>		
		<del></del>							<del></del>	<del> </del>	<del>+</del>	
	olute Poten	tial:_		<u> </u>		MCFPD;	n	.85				
	PANY Sector P. 0					ou Newlet						
	NT and TITL				M. Jr.	belseer	<u>'</u>					
WITNESSED Val Ripper - Production Superintendent												
COMPANY Southern Union Production Company												
REMARKS OILIVED												
ee: 3 - New Mexico Oil Conservation Considerion												
	1 - Mr. Par			•			14	all Ro-Wes		JUL 3 1	1963	
· COM.												
OIL CON. COM. DIST. 3												
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## 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  $(P_w)$ . 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.
- $h_{\mbox{\scriptsize W}}\mbox{\footnotesize I}$  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  $P_{\mathbf{W}}$  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  $P_{\mathbf{t}}$ .