## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Devi.	le For	<u>k</u>	F	ormation	n	1) up		County_	Rio Ar	ribe	
Initi	al		Annua	al	······································	Spec	ial		Date of	Test_	5-15-60	
Compa	ny <b>Reife</b>	m & H	ord, In	••		_Lease	Largo :	par .	We	ll No	2	
Unit	1	Sec	19 Tw	24	R	ge. 71	Pur	chaser	louthern S	nion		
								erf			·	
								erf. 549				
											ess	
Producing Thru: Casing					Single-F				ervoir Temp.			
	•	-					ED DATA		- 10mp • 1		·	
Testec	i Through	(Pro	ver) (C	hoke)	(Meter)		LD DAIN		Time Tar			
			Flow Da		<u> </u>	<del></del>	m	- Data	<del>,</del>		<b>-</b>	
No.	(Prover)	(Ch	oke)	Press	· Diff.		Press	Data Temp.	1	Temp.	Duratio	
	(Line) Size				h <sub>w</sub>	°F.	ps <b>i</b> g	°F.	psig	□ <sub>F</sub> .	of Flo	
SI 1.	<u>Ya</u>	7.		6.7			1463		1472			
2.	N .	1 20		6.92		91	1398		1459	<del> </del>	3 hrs 3 hrs	
3.	<b>U</b>			6.73		77	1319		1412		3 hrs	
4. 5.	-	+		7.4	6.7	81	710		1322		M days	
	<del></del>					L	<del></del>	<u> </u>		<u></u>	1	
	Coeffic:	ient	1.16	<b>9</b> P	ressure	FLOW CAL	CULATION Temp.	<u>VS</u> Gravit.v	Compre	255.	Rate of Flow	
No.	/01 **	,	/-	_   1	listes	Fac	tor	Factor	Facto	or	Q-MCFPD	
	(24-Ho	ur)	√ h <sub>w</sub> p	f	psia	F	t	Fg	Fpv		Q-MCFPD @ 15.025 psi	
1. 2.	42.13		45.9		449	.9715		.9325 .9325	1,043		1094	
3.			76.5		494	.9732		.7325	1.04		3077	
4. 5.			156.8		548	.9804		.9325	1.09		6389	
<u> </u>	·		1 2,000		<del></del> -	<del></del>		<del></del>	1,0%		<b>4)4</b>	
					PR	ESSURE C	alcu at	ONS				
	uid Hydro					cf/bbl.					arator Gas	
	of Liqu					deg.		Speci P	fic Gravi	ty Flo	wing Fluid	
			·	_		<del></del>		- c		c	<del></del>	
	W		<u>. T</u>				2		2 -	7		
No.	t (psia)	P	t Fc	5	$(F_cQ)^2$	(F	$\begin{pmatrix} c^{Q} \end{pmatrix}^2 \\ -\epsilon^{-s} \end{pmatrix}$	$P_w^2$	$P_c^2 - P_w^2$		$\begin{array}{c c} \mathbf{al.} & \mathbf{P_{W}} \\ \mathbf{P_{c}} & \mathbf{P_{c}} \end{array}$	
	1471	<b>-</b>			<del></del>		-6 -)	2164	- 30	<del></del>	P <sub>w</sub> P <sub>c</sub>	
2.	1433							2111	93			
4.	ЦЦ	<del> </del>					+	2026	174			
5.	1334							1760	422	1		
kbsolu	te Potent	tial;				MCFPD;	n					
ADDRES	SS		4/4/s ==		No terms						· · · · · · · · · · · · · · · · · · ·	
AGENT	and TITLE	7	my i.	) again	, Commai	ting be	Lour					
WITNES COMPAN										411		
OUTAN	1			<del></del>	<del></del> . <u> </u>	REM	ARKS		/	KLU	<del> </del>	
							<del>-</del>		- 1	JUN1	1960	
									\		N. COM.	
									/		ST. 3	

## 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 = 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- 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  $P_{\rm W}$  cannot be taken because of manner of completion or condition of well, then  $P_{\rm W}$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_{\rm t}$ .

## Back Pressure Potential Test

REDFERN & HERD INC.

Largo Spur #2
1850' FSL 790' FEL
Sec. 13 T 24N R 7 W
Rio Arriba Co., New Mexico
Devils Fork Gallup Gas Pool

