MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

	_		_	_		
				_	,,	_
Revi	sed	1	12	1	5	ン

Poo	L Fulcher	Kutz			Formation	Picture	d Cliff		_County	Sai	n Juan	
Pool Fulcher Kutz Formation Pictured Cliff County San Juan Initial Annual Special XX Date of Test 8-21-64												
Company Southern Union Production Co. LeaseSouthern Union Production Well No. 5												
Unit B Sec. 14 Twp.28-N Rge. 11-W Purchaser Southern Union Gas Company												
Casing 5-1/2 Wt.15.5 I.D. 4.950 Set at 1906 Perf. 1792 To 1857												
Tubing 1-1/2 Wt.2.90 I.D. 1.610 Set at 1825 Perf. 1815 To 1825												
Gas Pay: From 1792 To 1857 L 1792 xG .684 -GL Bar.Press. 12.0												
Producing Thru: Casing XX Tubing Type Well Single Gas Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion: 8/14/64 Packer Reservoir Temp.										i.O. Dual		
	•						ED DATA					
Фе.	ted Through	CADARAKA	3536.) ((Choke) (XXXXXXXX)				Туре Тар	s		
163	ced Infough				7 (2002)				4		Ţ	
	(Prover)		low Dake		ta Press. Diff. Temm		Tubing Data Press. Temp.		Casing Data Press. Temp.		Duration	
No.		(Orif	cice)				l		psig	ŀ	of Flow	
	Size	Si	ize	psi	g h _w	° _F .	237	F.	237	F •	Hr. 7 days	
SI	2	3/4		95		65	214	65	95	·	3 hrs.	
1. 2.		3/4		33		- 00		1				
<u>3.</u>				 		· · · · · · · · · · · · · · · · · · ·						
4.												
5.												
					,	FT.OM CAT	CULATION	is				
$\vdash \lnot$	Coeffici	ent			Pressure				Compre	ss.	Rate of Flow	
No.					1	Fac	tor	Factor	Facto		Q-MCFPD	
	(24-Hour) $\sqrt{h_{w}p_{f}}$			p _f	psia		Ft Fg_		Fpv		@ 15.025 psia	
	12.3650				107 •9952						1233	
5	12,5000											
3.												
4.												
1. 2. 3. 4. 5.			<u> </u>		l							
PRESSURE CALCULATIONS												
Gas Liquid Hydrocarbon Ratiocf/bbl. Specific Gravity Separator Gas Gravity of Liquid Hydrocarbonsdeg. Specific Gravity Flowing Fluid												
	-		()	l-e ^{-€}	3)			P _c		P2	62001	
- с							•	C		_		
	$P_{\mathbf{w}}$,		()	,	2 2	5.0	P _c -P _w ²		-1 P	
No.		P	F	^c g	$(F_cQ)^2$	(1)	$(c^{Q})^{2}$ $-e^{-s}$	P_{w}^{2}	Pc-Pw	1	al. Pw P Pc	
_	Pt (psia)					- ''	· ~ /	51076	10925		•908	
1							 +	010,0	10,20	+		
3.												
1. 2. 3. 4.												
5.												
	aluta Parat	407.	539	3		- מפשיא	n_•85					
	olute Potent PANY	outhe:			roduction	Company	, n					
ADDRESS P. U. BOX 808. Farmington, New Mexico												
AGENT and TITLE Verne Rockhold, Jr. Engineer												
WITNESSED Gary Gregory												
COMPANY Southern Union Production Company												
						REA	MARKS	+_r · · · · · · ·		۷۱ ال ع	5 1964	
(3) N.M.O.C.C. AUG 25 1964												
(1) Paul Clote Test after Re-work OIL CON. CCM.												
	(1) Val		er						•	V DI	ST. 3 /	
	(1) Fil	.0								No. of the last of		

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
- 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.
- F_t Flowing temperature correction factor.
- F_{DV} 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_{t} .