MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	ool Basin Dakota			Formation Dakota				County San Juan				
Initial XX Ann				nualSpecial			ial	Date of Test 11-10-64				
Compa	my Southe	rn Uni	on Pro	oductio	n Co.	Lease	Richar	rdson	Wel	1 No	3	
Unit		Sec2	Tw	p. <u>27-</u>	Rg_Rg	e. <u>13-</u> W	Purc	haser_ E l	Paso Nati	ural Ga	s Company	
Casir	ng 4-1/2 i	#t <u>10</u>	.5 _I	.D. 4.	052 Se	t at <u>62</u>	2 85 Pe	rf. <u>60</u>	47	To	6198	
Tubir	ng 1-1/2 i	Nt. 2.	90 _1	.D. <u>1.</u>	610 Se	t at 61	<u>156</u> Pe	rf. 61	46	To	6156	
Gas F	ay: From	6047	_To	6198	L(6 146 x	G <u>.655</u>			Bar.Pre	255. 12.0	
Producing Thru: Casing Tubing XX Type Well Single Gas Single-Bradenhead-G. G. or G.O. Dual												
Date	of Complet	tion:_	11-3	-64	Packe	r		Reserve	oir Temp			
						OBSERV	ED DATA					
Tested Through (Booker) (Choke) (Madasa) Type Taps												
			low D					Data	Casing D	ata	I	
	(Prover) (Line)	(Cho	••		1	Temp.	Press.	Temp.	Press.	Temp.	Duration of Flow	
No.	(Line) Size		ize	psig	h _w	°F.	psig	o _F .	psig	or.	Hr.	
SI		 		+	 		1844		1841		7 days	
1.	2*	3	1	321			321	68	1317		3 hrs.	
2.				 				 				
3. 4.				 	 							
5.												
						FLOW CAL	CULATION	S				
	Coeffic	ierıt		Pi	ressure	Flow	Temp.	Gravity			Rate of Flow	
No.	(2)		 	/		Factor		Factor	Facto		Q-MCFPD 15.025 psia	
	(24-Ho			w ^p f psia				Fg	F _{pv}			
1.	12.3650		ļ	333		.9924		.9571	.9571 1.03		2 J ₁ Ω36	
2 . 3.												
4.												
5.												
Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid Fc (1-e ⁻⁸) Pc 1856 Pc 3hhh736												
No.	P _w P _t		E F	'cQ	(F _c Q) ²	(F	(cQ) ² (-e ^{-s})	P _w 2	P _c -P _w ²		P _w	
1. 2.								1766241	1678495		.716	
3.		 										
4.												
5.		L							<u> </u>			
	Lute Poten			920		MCFPD;	n	.75				
COMPANY Southern Union Production Company ADDRESS P. O. Box 808 - Farmington, New Mexico Original Signed By											2 451	
AGENT and TITLE Verne Rockhold - Jr. Engineer VERNE ROCKHOLD											0 -4	
WITNESSED Herman McAnally												
COMP	_				ral Cos	Company	ADVC			```	``z	
	7 - 7	Maxico Paul J				KE	IARKS			No harman		
ec i	(1) El F	aso Na H. L.	tural Kindr	Gas Pr icks, B	ox 990 ·	- Farming	gton, New		Paso, Te	Xas	The second of th	
ec i	(1) File		err LA	AT OTEM	r cothe t	JUL 4003	r.er.mmR	was well				

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.
- hw Differential meter pressure, inches water.
- Fg 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 $P_{\mathbf{t}}$.