MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Basin Da	ekota		Fo	rmation		Dakota	<u> </u>	_County	Sar	1 Juan		
Init	ial XX		Annu	al		Spec	ial		Date of '	rest	1-11-63		
Compa	any Houthe r	en Un	ion P	reduct	ion Co	Lease		c Cord	Wel	l No	1-B		
Unit M Sec. 23 Twp. 30-N Rge. 13-W Purchaser Southen Union Gas Company													
Casi	ng 44 N	/t.10.	50_I	.D <u>l</u>	052 Se	t at_ 65	63 Pe	rf633) <u>. </u>	Го <u>бі</u>	502		
								f. 6333 To 6343					
Gas Pay: From 6334 To 6502 L 6333 xG 700 -GL 4433 Bar. Press. 12.0													
	Producing Thru: Casing Tubing Type Well Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 1 Packer Reservoir Temp.												
Date													
OBSERVED DATA													
Tested Through (Prever) (Choke) (Motor) Type Taps													
	Flow Data (Prover) (Choke) Prover)						Tubing						
No.	(Prover) (Line)	(Ori	fice)			_		Temp.	Press.	_	of Fl		
'SI	Size	S:	ize	psig	h _w	° _F .	psig	°F.	psig	F.	Hr.	 -	
1.	Ø 211	1 3/	1411		343	71	1969 343	71	1978		7 days		
2.	3"	3/	4."		-343	/1	343	7-7-	1201		3 hrs.		
3.		1											
4. 5.													
<u>5. l</u>				ļl				<u> </u>					
					,	TAN MOTO	CIT ATTON	c					
	Coeffici	ent	 	- Pro	FLOW CALCULATOR Flow Temp.			Gravity Compress. Rate of Flow					
No.	00611161	Coefficient							Factor				
110	(24-Hour) $\sqrt{h_{w}p_{f}}$			De 1	psia		+	F	Fnv		@ 15.025 psia		
1. 2. 3. 4.	12.3650		 	355		9896		-9258	1.040 4182				
3.									 				
4.	 												
5.													
					PR	essure c	ALCU ATI	ons					
lac I	iquid Hydro	vea rhoi	n Rati	0		cf/bbl.		Speci	ific Gravi	tv Sena	rator Gas_		
	ty of Liqui					deg.					ing Fluid		
c	- y		. (1-e ^{-s})	11.0				90	P _C 2	3960_1		
·				:			-	,			37		
	D						·		Υ				
No.	$P_{\mathbf{w}}$	P	2 F	e	$(F_cQ)^2$	(F	$(c_0)^2$	P_{w}^{2}	$P_c^2 - P_w^2$	Ca	ıl. P.		
	Pt (psia)	*1	t	c	(1 G4)	(i	_e-s)	- W-	- G - W	F	P _w P _c		
1.	U (I						——————————————————————————————————————	171.4	2488.7	,	6	10	
1. 2.													
3.		ļ											
4.					· · · · · · · · · · · · · · · · · · ·				 				
5.		<u> </u>							<u> </u>				
Absolute Potential: 5025 MCFPD; n 75													
COMP						tion Co				7	***		
ADDRI		Box 6	108, 1	arnin	ston,	New Mex	100		F 40				
MINITW	T and TITLE ESSED	Yorm.	Rock	mold,	Junio	r ingin	loor		T. SAM				
COMP		4 3.1	ippor	T-1 1		tion Co			ON .	S			
00111		opuli	OF EL	AL GR	requie	REN	ARKS		1 20	N 1			

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_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.
- F_g : Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{nv} 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 .