MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Blanco	Mesave	rde	Fc	rmation	Me	averde		_County	Rio A	rriba
Initi	al <u>X</u>		_Annua	1		Spe	cial		_Date of	Test_S	eptember 9, 1959
Compa	ny South	ern Uni	on Gas	Compa	ny	Lease_S	an Juan	Unit 29-6	Wel	l No	63-30
Unit	A	Sec30	QwT_C		N Rg	e. 6V	V Pur	chaser_El	Paso Nati	ıral Ga	s Company
Casin	لنا /"ع <u>51</u>	ner Wt. <u>15.</u>	5#_I.	D. 4.	Top @ 950 Se	3198' t at <u>56</u>	597P	erf <u>li9l</u>	16	To	s Company 5628
								erf. 498			
				•	_						ss. <u>12,</u> 0
Date	of Comple	tion: A	nonet 2	6 19	50 Packe	r None	Si	Type We	nhead-G.	G. or G	.O. Dual
Date	or compre	CIOII: A	ugust z	U ₂ 17	<u> </u>			neser vo	TI Temp.		
OBSERVED DATA											
Tested Through (Provide (Choke) (MECH) Type Taps											
	(Prover)		low Dat		Diff.	Temp.		g Data Temp.	Casing D	Temp.	Duration
No.	(Line) Size	(Orif	ice) ze	psig	h _w	o _F .	psig	Temp.	psig	⊃ _F .	of Flow Hr.
SI		 			W		1068		53 8 370		llı days
1.		3/1	144	364		71			370		3 hours
3.											
4. 5.				. 			 		•		
					<u> </u>	ET OW CA	LCULATIO	NS			
	Coeffic	ient		Pr	essure	Flow	Temp.	Gravity	Compre	ss.	Rate of Flow
No.	(24-Ho	ur)	7 h.p.	_	psia	Fac	ctor F+	Factor F _g	Facto F _{pv}	r	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.3650		VWP]		376	•9896		•9463	1.040		4.528
2.											
1. 2. 3. 4.											
5.											
					PR	ESSURE (CALCUTAT:	IONS			
	quid Hydr					cf/bbl					rator Gas
c	y of Liqu	id Hydr		ns		deg	•	P _c	iic Gravi LO80		ring Fluid
<u> </u>							_	Pw	382	Pw2	145
	Pw	T ₋₂		$\overline{}$	(n.o.)2		B 0\2	D 2	$P_c^2 - P_w^2$	Co	1. Pw
No.	Pt (psia)	Pt ²	Fc		$(F_cQ)^2$		$F_cQ)^2$ $1-e^{-s}$	P _w 2	rc-rw	1	$\frac{P_{W}}{P_{C}}$
1. 2.								1145	1021		
3.		<u> </u>									
4. 5.										† 	
	ute Poten	tial:	5,003	- -		MCFPD	: n	Q.75		_!	
COMPA	NYS	DUTHERN	UNION								
ADDRESS P. O. Box 815 Farmington, New Mexico AGENT and TITLE Thomas E. Fenno Engineer											
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								/	KLULIY	11	•
								•	SFP151	959	

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 \equiv 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.
- Ft Flowing temperature correction factor.
- Fpv 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_{+} .

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