MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

Pool	l Basin Dakota Formation Dakot						County Sam Juan				
											/30/63
Comp	any Southe	ra Un	lon Pr	odust	don	Lease	Newsom		Wel	l No	7-8
Unit	. <u>B</u> S	ec	Twp	. <u>26-</u>	Rge	. <u>8-W</u>	Purc	haser <u>B</u> 1	Paso Nat	oral G	ка Сопрасту
Casi	ng <u>k-1/2</u> W	t. <u>10</u>	<u>.50</u> 1.	D. 4.	0 52 Set	t at 670	00 Pe	rf. 6406		ro_667	b
Tubi	ing 1-1/2 W	t. <u>2.5</u> 5	<u> </u>	D1	. £10 Se	t at 66	02 Pe	rf. 6592		ro <u>660</u>	<u> </u>
Gas	Pay: From 6	5406	То	6674	L 65	92_x	G .735		1845	Bar.Pre	ss. <u>12.0</u>
n_+_	ducing Thru:	ione	11.02.	63	Packe	,	Sin	gle-Brade	nhe sd- G.	G. or G	.O. Dual
Date	e or combrec	10n;	11-6)-	<u>U)</u>	racke.						
						OBSERV	ED DATA		_		
Test	ted Through	(P86)	Er) (C	Choke	<u>(2560-57)</u>				Туре Тар	S	
F			low Data				Tubing Data		Casing Data		Donation
,,,	(Prover)	(Cho	ke)	Pres	s. Diff.		1	1 .		i	Duration of Flow
No.	(Line) Size	Si	ze	psi	g h _w	°F.	psig	o _F ,	psig	°F.	Hr.
SI							2132		2110		7 days
1. 2.	2H	3/		232		730	232		881		3 hrs.
2. 3.		ļ		 						 	
4.		İ									
5.						L	<u> </u>	<u> </u>	L	<u> </u>	
						FLOW CAI	CULATION	is			
	Coefficient				Pressure	Flow	Flow Temp. Grav		Compress. Rate of Flow Factor Q-MCFPD Fnw @ 15.025 psia		
No.	(24-Hour) -					Factor Ft		F. Fnu		15.025 psia	
╗	12.3650		Zhh			.9877		.9035	1.029		2770
1. 2. 3.	16.3070										
3.											
4. 5.				+							
Grav	Liquid Hydro ity of Liqui		rocarb			cf/bbl deg		Speci Speci	ific Gravi Ific Gravi	ty Flo	arator Gas wing Fluid 1596.7
No.	$P_{\mathbf{W}}$	P	2 F	cQ	(F _c Q) ²	2 (F _c Q) ² 1-e ^{-s})	P w 2	$P_c^2 - P_w^2$	C	al. P
,,,,,	Pt (psia)	1		c -	\- G~/	<u> </u>	1-e-s)				al. Pw Pw Pc
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2 . 3.											
4.											
5.	L	<u> </u>								الماريخ الماري	The state of the s
	olute Potent PANY Se				duction 0		; n	75		OIL	TUTO
ADD	RESS	P. O.	Box	808 -	Farming	on New				1870	0.4063
AGENT and TITLE Varne Rockhold - Jr. Engineer											
	'NESSED I				s Company	<u> </u>				1 2011	CON. CUM/
JOP	(3) N.M. (1) Mr. (1) El F	O.C.C Paul Paso N H. L.	Clote atural	. යිකුල	Co. Prore	RE ation De	MARKS pt., P. (0. Box 1h; ton, New 1	92 - El Pa Mexico		

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 600 F.
- P_c 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- P_{w} 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 $P_{\mathbf{t}}$.