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

Pool	undesign	nated		_Formation	Dako	ta		_County	San Ju	<u>uan</u>	
Init	ial X	A:	nnual		Spe c	ial		_Date of	Te s t	6-23-59	
Comp	any Sunray	r Mid-Con	tinent (dl Co.	Lease_	. M. Fed	oral "K"	Wel	1 No	1	**************************************
Unit		Sec6_	_Twp	2 911 Rg	e. 11W	Purc	haserN	one			
Casi	ing 5	vt. 14 1b	.I.D	Se	t at <u>56</u>	80 Pe:	rf. 541	2	То	5522	
Tubing 2 3/8 Wt. 4.6 1be I.D. Set at 5493 Perf. To											
Gas Pay: From 5412 To 5522 L 5500 xG 0.73 -GL 4015 Bar. Press. 12.0											
	lucing Thru:										
Date	e of Complet	cion:	6-17-59	_Packe	r	Sin	gle-Brade Reservo	nhead-G. ir Temp	G. or (3.0. Dual	
	-					ED DATA	. 				
Test	ed Through	(Kenera) (Choke	e) (Marai e)	k			Type Tap	s		
			w Data		•	Tubing	Data	Casing D			
		(Choke	Pres	ss. Diff.	Temp.		Temp.	Press.		Durati of Fl	
No.	(Line) Size	(Orific		ig h _w	o _F .	psig	°F.	psig	°F∙	Hr.	LOW
SI						1070		1490			
1. 2.		3/4	b	5	82	1.8	82	2h0		3 how	
2. 3.									<u> </u>	<u> </u>	-
4.											
5.		<u> </u>			L		<u> </u>	L	<u> </u>	<u> </u>	
						CULATION					
	Coeffici	Lent		Pressure				Compre	ss.	Rate of Flo	WC
No.	(21,=H01	ır) /	h-na	psia		tor t	Factor F_	Fpv		Q-MCFPD @ 15.025 ps	sia
		<u>_</u>	"Mb.I.	60	0.97		0.9066	1.0		658.83	
1. 2.	12.3650			<u> </u>	<u> </u>	75	<u>U.7U30</u>			0.58403	
3.											
4. 5.											
Gravi	iquid Hydro ty of Liqui	id Hydroca	arbons_		cf/bbl.	ALCU ATI	Speci Speci		ty Flow	erator Gas_(ving Fluid_ 2256	D.73
No.	P _w Pt (psia)	Pt ²	F _c Q	$(F_cQ)^2$	(F	(cQ) ² -e ^{-s})	P _w 2	P _c -P _w ²	Ca 1	Pw Pc	
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3. 4.											
4. 5.	*								$\dot{+}$		
Abso COMF ADDF AGEN WITN	PANY Summa RESS Pm. 1 IT and TITLE RESSEL	r Mid-Con	tinent (017 Compan		n 0.		co	/rc	EILE	
COMP	PANY				REM	ARKS			/att	[\[
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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
- 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.
- $h_{\mbox{\scriptsize W}}\mbox{\footnotesize I}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_{t} Flowing temperature correction factor.
- F_{DV} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If $P_{\rm W}$ cannot be taken because of manner of completion or condition of well, then $P_{\rm W}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\rm t}$.

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