Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	ool <u>Jusia wrote</u>				ormation	osta:	€County35 (23% 23%)				
Initial Special Date of Test											
Company Lease Well No.											
Unit Sec. Twp. Rge. Purchaser Sec. 12 12 13 15 15 15											
Casing 7 Wt. 17 I.D. Set at Perf. 7 To 763											
Tubing Wt. I.D. 1.55 Set at 750 Perf. 750 To 750											
Gas Pay: From To L xG • GL Bar.Press.											
Producing Thru: Casing Tubing Fine Type Well Single-Bradenhead-G. G. or G.O. Dual											
Date of Completion: Packer Reservoir Temp.											
OBSERVED DATA											
Tested Through (Prover) (Choke) (Meter) Type Taps											
~			Flow Dat				Tubing		Casing D	ata	
No.	(Prover) (Line)				Diff.	Temp.	Press.	Temp.	Press.	Temp.	Duration of Flow
	Size	S	ize	psig	h _w	°F.	ps i g	°F.	psig	[⊃] F•	Hr.
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4. 5.											
5.		<u> </u>		 	<u> </u>			<u> </u>		<u> </u>	
FLOW CALCULATIONS											
	Coeffici	ent		P	ressure	Flow	Temp.	Gravity	Compre	ss.	Rate of Flow
No.			1	1		A	Footon	Footo		Q-MCFPD	
	(24-Hour) √ h _v		$\sqrt{h_{w}}$	p _f psia		Ft		Fg Fp		@ 15.025 psia	
1.	140:505	40.505		7				, 4 %	1,000		6 4.7 ⁶
2.					 				-		
1. 2. 3. 4.											
5.											
PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratiocf/bbl. Specific Gravity Separator Gas											
Travi	ity of Liqui	id Hvd	rocarb	ons		deg.					
₹c	Version Diqui		(l-e ^{-s})	* * *		-	Pc	47	_Pc	wing Fluid
		 			 				Y		
No.	$P_{\mathbf{w}}$	P.	2 F	ૢૣ૱	$(F_cQ)^2$	(F	Q) ² -e ^{-s})	$P_{\mathbf{w}}^2$	$P_c^2 - P_w^2$	C	Pw Pc
_ i	Pt (psia)	1		· ·				~			<u> </u>
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5.										<u> </u>	
Abso	olute Potent	tial:_	144		<u></u>	MCFPD;	n '*	. 371			
	RESS STATE				1.						
	VT and TITL			4)/	mais	L.C.					
WITNESSED											
COM	PANY				<u>"</u>	D.m.	MDVC			4+14	<u>) </u>
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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 = Actual rate of flow at end of flow period at W. H. working pressure ($P_{\rm W}$). 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.
- hw Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{pv} 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 $P_{\mathbf{t}}$.