MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised	12-1-55

Pod	ol	Wilde	at	· — a. — — — — —	F	ormation	Dakots	1	·	County_	San Ju	en	
In	itial_	X	,	Annual			Spec	ial		Date of	Test_1	2/7/59	
Company SOUTHWEST PRODUCTION COMPANY Lease Callow Federal Well No. 1 Unit I Sec. 33 Twp. 29N Rge. 13W Purchaser -													
	Casing 7 Wt. 26 I.D. Set at 6069 Perf. 5810 To 5943												
	Tubing 2-3/8#t. 4.7# I.D. 1995 Set at 6022-5768 Perf. 5768 To												
	Gas Pay: From 5810 To 5943 L 5768 xG .67 _GL 3864.5 Bar.Press. 12.0												
Dat	Producing Thru: Casing Tubing X Type Well Gas Oil Dual Oil over Gas Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 11/13/59 Packer 5754 Reservoir Temp.												
		-					Model						
Tes	sted Th	rough	10000	(Cho	ke)	[Beserve				Type Tap	s		
	7=-			low Data				Tubing		Casing D		<u> </u>	
No.	(I	ine)	(Orif	ke) Pi			•			Press.		Duration of Flow	
SI		Size Size		ze r	sig	h _w	°F.	psig 2082	°F.	psig	[⊃] F•	Hr.	
			3/	4	88		820	388	820		 	7 days 3 hrs	
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<u></u>			'								 		
4. 5.													
~	Co	effici	ent		Pr			CULATIONS	Gravity	Compre	ee	Rate of Flow	
No.								- 1	Factor	Facto		Q-MCFPD	
	(24-Hou		$\sqrt{h_{\mathbf{W}}p_{\mathbf{f}}}$	h _w p _f		F_{t}	;	${ t F}_{oldsymbol{g}}$	F _{pv}		@ 15.025 psia	
1. 2.	12,4650		50				400 .9795		.9463	1.040		4.760	
3.					-								
4.											+		
5.													
lae 1	[iauid	Hudno	oo mhon	Ratio				LCULATIO		a: a			
				carbons			cf/bbl. deg.		Speci	fic Gravit fic Gravit	y Sepa: v Flow	rator Gas ing Fluid	
					-e ^{-s}) 0.245				P _c 2094 P _c 4384.8				
				•					Pw 792	;	Pv ² (2	7.2	
No.	P _W	osia)	Pt2	F _c Q		$(F_cQ)^2$	(Fc	Q) ² e-s)	P _w 2	$P_c^2 - P_w^2$	Ca	l. P	
1.		400	160	44.7	5	1902	461	. 1	627	3757.6	P. 792		
1. 2.										212100		+ • • • • • • • • • • • • • • • • • • •	
3. 4. 5.				+							 	_	
5.							- 				 		
Absc COMF	olute 1		ial:_		ON G	OMDARY.	MCFPD;	n_0.75					
ADDRESS 3106 Southland Conter Dallas, 1, Texas													
AGENT and TITLE WITNESSED Test taken by Geo. Hoffman													
	PANY			- W W	V. II	ATTME					- A	Chara	
							REMA	RKS			Toff	Iller -	
											\ Urr	roch l	

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.
- PcI 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
- P_{f} Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{pv} Supercompressability factor.
- n _ 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 $P_{\mathbf{t}}$.

