1 - Houston

1 - Midland

1 - Pile 1 - Durango

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122

Revised 12-1-55

Pool Undesignated				Formation Dakota					County San Juan			
Initial Initial Annual												
Company Tidewater OilCo.					Lease W.			i. Hanley We		ll No 1		39 - <u> </u>
Unit	p S	Sec. 18	Twp.	291	Rge	. 10w	Pur	chaser				
	ng 4-1/3 W											
	ng 2-3/8 W											
	Pay: From_											
Date	ucing Thru: of Complet	ion•	12-1-66)	Packer	,	Si	ngle-Brad	enhead-G.	G. or	G.O. D	ual
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leste	ed Through			<u>e) (</u>	Meter)				Type Ta			
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	Size	Size	ps	ig	h _w	-F.				°F•	L	Hr.
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3.												
4.												
5.							L			J		
					F	LOW CAL	CULATIO	NS				
	Coeffici	Coefficient			Pressure		Temp.	Gravity	Factor		Rate of Flow Q-MCFPD @ 15.025 psia	
No.	(24-Hour) $\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$			psia		Fac	tor	Factor				
		V Nwpf		357		.9831	t	F _g	F _{pv}		4257	
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3ء												
4.												
5.1			. 	L								
ravit	quid Hydro			s)		cf/bbldeg.		Spec Spec	ific Grav			
No.	$P_{\mathbf{W}}$	P _t .	F _c Q	1	$(F_cQ)^2$	(F	cQ) ² -e-s)	P_w^2	$P_c^2 - P_w^2$	C	al.	P _w
	Pt (psia)					(1	_e-s)				P. w	P _w P _c
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4.												
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COMPA												
						REM	ARKS		CEI	ICA		

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 I 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
- PwI 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.
- F_{DV} 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_t .