NEW MEXICO OIL CONSERVATION COMMISSION HOSSES OFFICE NOS

Form C-122

MULTI-POINT BACK PRESSURE TEST /FOR GAS WELLS

Revised 12-1-55

Pool	Jalmat		F	ormation	Yates	1		_County_	Lea		
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	any Phill										
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	ng 2 W										
	Pay: From_										
)n+o	ucing Thru: of Complet	ion. 2-14	-55	Packe	. 2871	Sing	le-Brade	nhead-G.	G. or G	.O. Dual	
aue	OI COMPIEC	1011;		racke			116561 40	II IOMP.			
					OBSERV	ED DATA					
'est	ed Through	(Prover)	(Choke)	(Meter)				Type Tap	S		
		Flow	Data			Tubing	Data	Casing D	ata	Dunation	
vo.	(P rever) (Line)	(Crifice)	Press	Diff.							
	Size	Size	psig	h _w	°F.	p sig	o _F .	psig	[⊃] F•	Hr.	
SI						560				72	
$\overline{}$	4"	0.750* 0.750*	525	9.0	74	545				24	
2. 3.	4"	0.750	540	12.25	72	5 <u>41</u> 538			 	24	
		in line pr		16.0			hia to a	btein (th	noint.	24	
10.	Coeffici (24-Hou	69.6	w ^p f	ressure psia	Flow Temp. Factor Ft		Gravity Factor Fg	Compre Facto Fpv	r	Rate of Flow Q-MCFPD @ 15.025 psia	
<u> </u>	*	82,3	1		.9887		.9535	1.054		281	
} <u></u>		92.5	2.52		.9677		.9535	1.054		315	
2. 3.											
ravi	iquid Hydro ty of Liqui 9.936	d Hydrocar			cf/bbl.deg.		Speci Speci		tyFlow	arator Gas wing Fluid 328.6	
ravi	P _w Pt (psia)	d Hydrocar	bons		cf/bbl. deg.		Speci Speci P _c P _w 2	fic Gravi 573.2 P _c -P _w ²	ty Flow	wing Fluid	
No.	P _w P _t (psia)	Pt 311.6 2	F _c Q	(F _c Q) ² 5.52	cf/bbl.deg.	(cQ) ² -e-s)	Speci Speci Pc—— Pw2	fic Gravi 573.2 P _c -P _w	ty Flov P2 PC	wing Fluid	
No.	P _w Pt (psia) 558.2	Pt 311.6 2	F _c Q	(F _c Q) ² 5.52 7.78	cf/bbl.deg.	(cQ) ² -e ^{-s})	Speci Speci Pc- Pw2 312.3 306.1	fic Gravi 573.2 P _c -P _w	ty Flov P2 PC	al. Pw Pc	
No.	P _w P _t (psia)	Pt 311.6 2	F _c Q	(F _c Q) ² 5.52	cf/bbl.deg.	(cQ) ² -e ^{-s})	Speci Speci Pc—— Pw2	fic Gravi 573.2 P _c -P _w ²	ty Flow	wing Fluid	
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lo.	P _w Pt (psia) 558.2 551.2 plute Potent	Pt 311.6 2 307.1 2 303.8 3 2 2 2 2 2 3 2 2 2 3 3 3 3 3 3 3 3 3	F _c Q 35 79 13 65 65 65 65 65 65 65 65 65 6	(F _c Q) ² 5.52 7.78 9.80	cf/bbl.deg126 (F (1 .7	cQ) ² -e ^{-s})	Speci Speci Pc- Pw2 312.3 306.1 305.0	fic Gravi 573.2 P _c -P _w	Ca PC Ca S58 551	al. Pw Pc	

REMARKS

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 (Pw). MCF/da. @ 15.025 psia and 600 F.
- PcI 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwT 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.
- Fpv 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 $P_{\rm t}$.