NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

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

	Jalmat			Formation			· <u></u>	comicy		
niti	al	A	.nnuel	, ·	Spec	ial	:	Date of	Test_2-1	5-57
ompa	ny R.	Olsen Oil	Company	7	Lease	S. R. Coo	per	Wel	1 No	1
	<u> </u>									
	g 7" N									
	g_2" W									
	ay: From_									
odu	cing Thru:	Casin	g	Tu	bing	Sin	Type We	ell Single	G. or G.C). Dual
ite d	of Complet	ion: 11-	-1-52	Packe	r		Reservo	oir Temp		
					OBSERV	ED DATA				
ste	d Through	ÉROME	PETERFE	(Meter)				Type Tap	s	
	/P\		w Data	- D: 00		Tubing		Casing D		
, .	(Prover)	(Orifice		s. Diff.	Temp.	Press.	-	Press.	Temp.	Duratio of Flo
	Size	Size	psi	g h _w	°F.	psig	°F.	psig	°F∙	Hr.
1	2	.125	565		74	714 570				72
	2	.187	356		69	359			 	3
	2	.218	281		57	282				3
+	2 2	.250	230 222		51 56	231 224				<u>3</u> 24
T	Coeffici	ent .]	Pressure	Flow '	-	Gravity	, -		te of Flow
	(24-Hou	r) /	hwpf	psia	raci F	tor	Factor Fa	Factor	r Q @	-MCFPD 15.025 psi
	.3418			578.2	.9868		.9463	1.060		196
	.7851 1.0834			369.2	.9915		.9463 .9463	1.03		282
\vdash	1.4030			294.2 243.2	1.0029	8	.9463	1.03		312 335
	1.4030			235.2	1.003		.9463	1.02		321
_	1.4030									
	quid Hydro y of Liquid 9.936	d Hydroca			cf/bbl.		Speci Speci	fic Gravit fic Gravit 27.2	ty Flowin	g Fluid
vity F	quid Hydro y of Liquid 9.936	d Hydroca	arbons(1-e ⁻⁵)	.130	cf/bbldeg.	Q) ²	Speci Speci Pc_7	fic Gravit	ty Flowin	g Fluid
vity F	quid Hydro y of Liquid 9.936 W	d Hydroca	F _c Q) .130 (F _c Q) ²	cf/bbl.deg.	cQ) ² -e-s)	Speci Speci Pc_7	fic Gravit 27.2 $P_c^2 - P_w^2$	ty Flowin	g Fluid
vity F	quid Hydro y of Liquid 9.936 w Pt (psia) 583.2	P ² 130.1	F _c Q	(F _c Q) ² 3.6 7.8	cf/bbldeg.	cQ) ² -e-s)	Speci Speci Pc_7	P _c -P _w	ty Flowin	g Fluid
vity F	quid Hydro y of Liquid 9.936 W Pt (psia) 383.2 372.2	P _t ² 340.1 138.5	F _c Q 1.9 2.8 3.1	(F _c Q) ² 3.6 7.8 9.6	(F. (1-1.0)	cQ) ² -e-s)	Speci Speci Pc_7 Pw2 341.0 139.5	P _c -P _w 187.8 389.3	ty Flowin	g Fluid
vity F	quid Hydro y of Liquid 9.936 W Pt (psia) 383.2 372.2 295.2	P _t ² 340.1 138.5 87.1 59.6	F _c Q 1.9 2.8 3.1	(F _c Q) ² 3.6 7.8 9.6 10.8	(F ₀ (1.0 1.2 1.4	cQ) ² -e-s)	Speci Speci Pc_7 Pw2 341.0 139.5 88.3 61.0	P _c -P _w 187.8 389.3 440.5 467.8	ty Flowin	g Fluid
vity F	quid Hydro y of Liquid 9.936 W Pt (psia) 383.2 372.2 295.2 244.6 237.2	P _t ² 340.1 138.5 87.1 59.6 56.2	F _c Q 1.9 2.8 3.1 3.3	(F _c Q) ² 3.6 7.8 9.6	cf/bbl.deg. (F (1.0) 1.0 1.2	cQ) ² -e-s)	Speci Speci Pc_7 Pw2 341.0 139.5 88.3 61.0 57.4	P _c -P _w 187.8 389.3	ty Flowin	g Fluid
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vity F • F	quid Hydro y of Liquid 9.936 Pt (psia) 383.2 372.2 295.2 244.6 237.2	P _t ² 340.1 138.5 87.1 59.6 56.2 ial:	F _c Q 1.9 2.8 3.1 3.3 3.1	(F _c Q) ² 3.6 7.8 9.6 10.8 9.6	(F, (1-1.0 1.2 1.4 1.2 MCFPD;	cQ) ² -e-s)	Speci Speci P _C 7 P _w 2 341.0 139.5 88.3 61.0 57.4	P _c -P _w 187.8 389.3 440.5 467.8	ty Flowin	g Fluid
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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_w) . MCF/da. @ 15.025 psia and 60° F.
- P_c 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.
- hw- Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{nv} 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 $P_{\rm t}$.