NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

001	Jalma	t	F	ormation	Yate	B8	· <u>. </u>	_County	Les	·
							<u> </u>	_Date of	Test	7 to 5-31-57
	any R. 01									
nit	K s	Sec. 11 7	wp. 2	4 Rg	e 36	Purcl	naser	Paso Nati	ural Gas	Company
	ng 7" W									
	ng 2 1/2"W									
	Pay: From_									
	-									
.oa	ducing Thru:	Casing_	40	ru	Mar.	Sing	gle-Brade	nhead-G.	G. or G.	O. Dual
ite	e of Complet	ion:		Packe	r	180	Reservo	or Temp	<u></u>	
					OBSERV	ED DATA				
est	ed Through	(Prover)	(Unoke)	(Meter)				Type Tap	S	
		Flow				Tubing		Casing D		
T	(Frover)	(choke)	Press	. Diff.	Temp.	Press.	Temp.	Press.	Temp.	Duration of Flow
۰.	(Line) Size	(Orifice)	psig	h _w	\circ_{F}	psig	° _F .	psig	o _F .	Hr.
-			P	W		486		486	 	72
+	4	2.000	363	11.90	78	385		415	 	24
	4	2.000	292	21.16	75	330		384		24
1	4	2.000	250	29.16	72	302		361	ļ	24
	4	2.000	236	29.70	68	289		355	 	24
	Coeffici F18 (24-Hou	ır) √1	n _w p _f	ressure psia	Fac F .983	n	Factor F _g	Facto F _{pv}	er •	Q-MCFPD 15.025 psia
			. 33		. 9859		.9571	1.026		1,989
	25.5		.57		.988		.9571 .9571	1.024		2,171
. Г	25.5	86	.00	ŀ	. 442		. 47/1	1.023	<u> </u>	2,137
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s I	Liquid Hydro ity of Liqui Measured	ocarbon Rai	rbons (1-e ⁻⁵)		ESSURE C	ALCUATI	ONS Speci		tw Flow	rator Gas ing Fluid 2 49.2
s I	Liquid Hydro	ocarbon Ra id Hydroca	rbons		ESSURE C	ALCUATI	ONS Speci	fic Gravi	tw Flow	ing Fluid
s I	Liquid Hydro	id Hydroca:	rbons		ESSURE C cf/bbl. deg.	ALCUATI	Speci Speci Pc P _w 2	P _c -P _w	tw Flow	ing Fluid 249.2
ivi	Liquid Hydro ity of Liqui Measured W Pt (psia)	id Hydroca:	rbons_ _(1-e ^{-s}]		ESSURE C cf/bbl. deg.	ALCUIATI	ONS Speci Speci	ific Gravi	ty Flow	ing Fluid 249.2
ivi	Liquid Hydro ity of Liqui Messured	Pt	rbons_ _(1-e ^{-s}]		ESSURE C cf/bbl. deg.	ALCUIATI	Speci Speci Pc P _w 2 183.4 157.8	P _c -P _w 65.6 91.4	ty Flow	ing Fluid 249.2
ivi	Liquid Hydro ity of Liqui Heasured Pt (psia)	P _t ²	rbons_ _(1-e ^{-s}]		ESSURE C cf/bbl. deg.	ALCUIATI	Speci Speci Pc— P _w 2	P _c -P _w	ty Flow	ing Fluid 249.2
s I	Liquid Hydro ity of Liqui Heasured Pt (psia) 336.2 343.2	P _t ² 138.6 117.8	rbons_ _(1-e ^{-s}]		essure c cf/bbl. deg. (F	CQ) ²	Speci Speci Pc- Pw2 183.4 137.8 140.0	P _c -P _w 65.6 91.4	ty Flow	ing Fluid 249.2
5 I	Liquid Hydro ity of Liqui Measured Pt (psia) 300.2 315.2	P ² 138.6 117.8 99.4 91.3	F _c Q	(F _c Q) ²	cf/bbl.deg.	CQ) ²	Speci Speci Pc- Pw2 183.4 137.8 140.0	P _c -P _w 65.6 91.4	ty Flow	ing Fluid 249.2
s I	Liquid Hydro ity of Liqui Measured Pt (psia) 302.2 olute Potent	P _t ² 138.6 117.8 99.4 91.3	F _c Q	(F _c Q) ²	cf/bbl.deg. (F)	CQ) ² -e-s)	Special Specia	P _c -P _w 65.6 91.4 109.2	ty Flow	ing Fluid 249.2
bsc OMI	Liquid Hydro ity of Liqui Measured Pt (psia) 300.2 315.2	P _t ² 158.6 117.8 99.4 91.3 tial:	F _c Q ,450 olsen object tibe	(F _c Q) ²	cf/bbl.deg. (F) (I)	CQ) ² ce-s)	Special Specia	P _c -P _w 65.6 91.4	ty Flow	ing Fluid 249.2
bsc OMD	Pt (psia) 33.2 315.2 302.2 colute Potent PANY RESS NT and TITLI	Pt 138.6 117.8 99.4 91.3 tial: 3	F _c Q ,450 olsen object tibe	(F _c Q) ²	cf/bbl.deg. (F) (I)	CQ) ² ce-s)	Special Specia	P _c -P _w 65.6 91.4 109.2	ty Flow	ing Fluid 249.2
bsc OMI	Liquid Hydro ity of Liqui Measured Pt (psia) 336.2 343.2 315.2 olute Potent PANY RESS	Pt 138.6 117.8 99.4 91.3 tial: 3	F _c Q ,450 olsen object tibe	(F _c Q) ²	cf/bbl.deg. (F) (I)	CQ) ² ce-s)	Special Specia	P _c -P _w 65.6 91.4 109.2	ty Flow	ing Fluid 249.2

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 600 F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- 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.
- $h_{\mbox{\scriptsize W}}\mbox{\footnotesize I}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft 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 $P_{\rm t}$.