Form C-122

NEW MEXICO OIL CONSERVATION COMMISSION

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

	Jalkat		F	ormation	Later) 	,	_County	Les		
LIIT	ial X					•					
omp	any JOSEPI	I. O'NEI	LL, Jr.	I	Lease	Pederal	<u> </u>	Wel	1 No	1	
nit	. 0 .	Sec. <u>29</u>	Twp. 26	Rge	37E	Purc	haser	Cabot Car	bon Co.	•	
asi	ng 5-1/2" V	vt. 14#	I.D. 5.	01.2 Set	at 311	. Pe:	rf	4	То	3044	
ıbi	ng 2-3/8" v	vt. 4.7#	_I.D. <u>1.</u>	995 Set	at_ 2:95	75 Pe:	rf Open E	and .	То		
ıs	Pay: From	3034 To	3044	L 29)5x	.660		7	Bar.Pre	ess	13.2
rod	ucing Thru:	Casing		Tut	oing	X	Type We	11	Singl	Lo	
ıte	of Complet	cion: 6	/14/59	Packer	r	Sin	gle-Brade Reservo	nhead-G. ir Temp	G. or (3.0. Di	
						ED DATA					
est	ed Through	(2223233	*******	(Meter)				Туре Тар	s	Flan	
			Data			Tubing	Data				
Т	(Prover)	(Choke)	Press	. Diff.	Temp.	Press.	Temp.	Press.	Temp.	† 1	Ouration
	(Line) Size	(Orifice) psig	h _w	o _F	psig	o _F ,	psig.	o _F .	ļ	of Flow Hr.
\dagger			1 1028	W		496.0		507.0		69	
Т	3	1.25	23.8	36.60		367.2		368.0		2.	5
+		1.25	14.5	54.76		313.2 222:2		359.0		2.	
╁		1.25		70.56	60	204.2		312.0 291.0	 		.0 .0
\pm	3	1.25		54.76	60	276.2		378.2	<u> </u>	20	
				ī	TAD WOT	CULATION	S				
Т	Coefficient		Pressure		Flow	Flow Temp.		y Compress. r Factor		Rate of Flow	
٠	(24-Hou	, ,-			Fac	tor	Factor	Facto	r	Q-MC	
	(24-Hou	ir) \forall	h _w p _f								025 psia
╀	9.781		36.80	37.0	1.000	20	.9535	1.0000			3.0
Ļ	9,781		39.15	28.0	1.000		.9535	1.0000			55.0
	0:743		1.7 . 50	29.8			OFEC	7.6060		L	43_B
+	9.781		47.52 49.55	33.2	1,000	00	.9535	1.0000			3.0 2.0
+	9.781 9.781 9.781		47.52 49.55 34.55	32.0 33.2 21.6		00	.9535 .9535 .9535	1.0000 1.0000			3.0 2.0
Livi	9.781	ocarbon Ra	49.55 34.55 tio	33.2 21.8	1.000 1.000 1.000	CALCUIATIO	.9535 .9535 .9535 ONS Speci	fic Gravi	ty Sepa	3.	62.0 22.0 Gas
Lvi	9.781 9.781 siquid Hydroty of Liqui	ocarbon Ra	tio_rbons	33.2 21.8	1.000 1.000 1.000 2SSURE 0 cf/bbl. deg.	CALCUIATIO	Speci Speci Pc	fic Gravi fic Gravi	ty Sepa ty Flov PC	arator wing F1270.6	Gas_LuidPw_Pc
Lvi	9.781 9.781 iquid Hydroty of Liqui	ocarbon Ra dd Hydroca	tio_rbons_(1-e ^{-s})	33.2 21.8 PRE	1.000 1.000 1.000 2SSURE 0 cf/bbl. deg.	CALCUIATIO	Speci PcP _w 2	fic Gravi fic Gravi 20.2	ty Sepa ty Flov PC	3: arator wing F]	Gas_uidPw_Pc
L	9.781 9.781 iquid Hydroty of Liqui Heasured Pw 18t (psia) 161.2 372.2	ocarbon Ra dd Hydroca	tio_rbons_(1-e ^{-s})	33.2 21.8 PRE	1.000 1.000 1.000 2SSURE 0 cf/bbl. deg.	CALCUIATIO	9535 9535 ONS Speci Pc P _w 2	fic Gravi fic Gravi 20.2	ty Sepa ty Flov PC	arator wing F1270.6	Gas_uid
L	9.781 9.781 9.781 siquid Hydro ty of Liqui Heasured Pw 18t (psia) 161.2 372.2	ocarbon Ra dd Hydroca	tio_rbons_(1-e ^{-s})	33.2 21.8 PRE	1.000 1.000 1.000 2SSURE 0 cf/bbl. deg.	CALCUIATIO	Speci PcP _w 2	fic Gravi fic Gravi 20.2 P _c -P _w	ty Sepa ty Flov PC	arator wing F1270.6	Gas_uid
is L	9.781 9.781 iquid Hydroty of Liqui Heasured Pw 18t (psia) 161.2 372.2	ocarbon Ra dd Hydroca	tio_rbons_(1-e ^{-s})	33.2 21.8 PRE	1.000 1.000 1.000 2SSURE 0 cf/bbl. deg.	CALCUIATIO	P _w 2	fic Gravi fic Gravi 20.2 P _c -P _w	ty Sepa ty Flov PC	arator wing F1270.6	Gas
avi obso OMP	Pw (psia) 461.2 372.2 391.2 lute Potent	Pt Pt Calo	tio_rbons_(1-e-s)	93.2 21.8 PRE (F _c Q) ²	1.000 1.000 1.000 CSSURE CO cf/bbl. deg. (F (1) MCFPD;	CALCUIATION CALCUI	P _w 2 161.0 138.5 153.0	fic Gravi fic Gravi 20.2 P _c -P _w	ty Sepa ty Flov PC	arator wing F1270.6	Gas_uid
oso OMP ODR GEN	Pw (psia) 461.2 372.2 391.2 lute Potent	Pt Pt Calo	tio_rbons_(1-e-s) FcQ 638	93.2 21.8 PRE (F _c Q) ²	1.000 1.000 1.000 CSSURE CO cf/bbl. deg. (F (1) MCFPD;	CALCUIATIO	P _w 2 161.0 138.5 153.0	fic Gravi fic Gravi 20.2 P _c -P _w	ty Sepa ty Flov PC	arator wing F1270.6	Gas_uid

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.
- 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.
- Ft Flowing temperature correction factor.
- F_{DV} 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 $P_{\rm t}$.