MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

				NEW .	WEXTCO (DIL CONSI	ERVATION	COMMISSIO	ON		
											Form C-122
				MULTI-	POINT BA	ACK PRES	SURE TES!	r FOR GAS	WELLS		Revised 12-1-55
Pool	BALLARD	PLOTUE									LJUAN
Init	ial XX		Annua	al		Spec:	ial		_Date of 1	est_2	1-9-64
Comp	any Hunon	DRILLI	NG COL	PANY.	ing.	Lease	D/	AVIS	Well	No	_1
Unit		ec	Twr	. <u>26</u> N	Rge	e 	Purcl	haser <u>So</u>	HTHERN UN	ON GAS	COMPANY
Casi	ng 410 W	t 9	.50 I	D. <u>4.0</u>	90 Set	t at	50Per	rf. 21	37	o	2168
Tubi	ng 1s W	t1	.70_I	D . 1.0	yg_Set	t at	57 Per	rf. 21	47	ro	2157
											ess. 12.0
Prod	lucing Thru:	Cas	sing_	α	Tul	bing		Type We	11 Sinc	LE GAS	.O. Dual
Date	e of Complet:	ion:	1-31-4	64	Packer	r	Sin	gle-Brade Reservo	nhe sd- G. (ir Tem p	i. or (
	_				-		ED DATA				
Test	ed Through	(Res	(MX) ((Choke)	(Musur)				Туре Тар	s	
			low Da				Tubing	Data	Casing D	ıta	
No.	(Prover) (Line)	(Cho		Press.	Diff.	Temp.	Press.	Temp.	Press.		Duration of Flow
_	Size		•	psig	h _w	°F.	psig	°F.		°F.	Hr.
SI l.		3/	/4.0	140			585		585		9 DAYS
					1 1	60	160		140	60	3 HRS.
	· · · · · · · · · · · · · · · · · · ·					60	160		140	60	3 HRS.
						60	160		140	_60	3 HRA.
									140	60	3 HRA.
3. 4. 5.	Coeffici	ent				FLOW CAL	CULATION Temp.	Gravity	Compre	55.	Rate of Flow
	Coeffici (24-Hou		$\sqrt{h_{Wl}}$	Pr		FLOW CAL Flow Fac	CULATION			55.	
3. 4. 5. No.				Pr	ressure	FLOW CAL Flow Fac	CULATION Temp. tor	Gravity Factor	Compre	35. r	Rate of Flow Q-MCFPD
1. 2. 3.	(24-Hou			Pr	ressure	FLOW CAL Flow Fac F	CULATION Temp. tor	Gravity Factor Fg	Compre Facto Fpv	35. r	Rate of Flow Q-MCFPD 15.025 psia
3. 4. 5. No.	(24-Hou			Pr	ressure	FLOW CAL Flow Fac F	CULATION Temp. tor	Gravity Factor Fg	Compre Facto Fpv	35. r	Rate of Flow Q-MCFPD 15.025 psia
3. 4. 5. No. 1. 2. 3.	(24-Hou			Pr	ressure psia 152	FLOW CAL Flow Fac F	CULATION Temp. tor	Gravity Factor Fg 0.9463	Compre Facto Fpv	35. r	Rate of Flow Q-MCFPD 15.025 psia
3. 4. 5. No. 1. 2. 3. 4. 5.	(24-Hou 12.3650 Liquid Hydro	r)	√ h _w i	Pr Pr	ressure psia 152	FLOW CAL Flow Fac F 1.0	CULATION Temp. tor t ALCUIATI	Gravity Factor Fg 0.9463 CONS Speci	Compre Facto Fpv 1.0	ss.	Rate of Flow Q-MCFPD 15.025 psia 1807
No. 1. 2. 3. 4. 5. Gas I	(24-Hou 12.3650 Liquid Hydro ity of Liqui	carbo	n Rati	Pr Pr	ressure psia 152	FLOW CAL Flow Fac F 1.0	CULATION Temp. tor t ALCUIATI	Gravity Factor Fg 0.9463 CONS Speci	Compre Facto Fpv 1.0	ty Sep	Rate of Flow Q-MCFPD 15.025 psia 1807 arator Gas wing Fluid 356
No. 1. 2. 3. 4. 5. Gas I	(24-Hou 12.3650 Liquid Hydro	carbo	n Rati	o_ons	ressure psia 152	FLOW CAL Flow Fac F 1.0	CULATION Temp. tor t ALCUIATI	Gravity Factor Fg 0.9463 CONS Speci	Compre Facto Fpv 1.0	ty Septy Flo	Rate of Flow Q-MCFPD 15.025 psia 1807 arator Gas wing Fluid
No. 1. 2. 3. 4. 5. Gas I	(24-Hou 12.3650 Liquid Hydro ity of Liqui	carbond Hyd	n Rati	o_ons_l-e^-s_	ressure psia 152	FLOW CAL Flow Fac F 1.0 ESSURE C	CULATION Temp. tor t OC	Gravity Factor Fg 0.9463 CONS Speci	Compre Facto Fpv 1.0	ty Septy Flored	Rate of Flow Q-MCFPD 15.025 psia 1807 arator Gas wing Fluid 356 29.6
3. 4. 5. No. 1. 2. 3. 4. 5. Grav:	(24-Hou 12.3650 Liquid Hydro ity of Liqui	carbo	n Rati	o_ons	ressure psia 152	FLOW CAL Flow Fac F 1.0 ESSURE C	CULATION Temp. tor t ALCUIATI	Gravity Factor Fg 0.9463 CONS Speci	fic Gravi	ty Septy Flo	Rate of Flow Q-MCFPD 15.025 psia 1807 arator Gas_ wing Fluid 356 29.6
No. 1. 2. 3. 4. 5. Gas Grav: Fc.	(24-Hou 12.3650 Liquid Hydro ity of Liqui	carbond Hyd	n Rati	o_ons_l-e^-s_	ressure psia 152	FLOW CAL Flow Fac F 1.0 ESSURE C	CULATION Temp. tor t OC	Gravity Factor Fg 0.9463 CONS Speci	fic Gravific Gravi	ty Septy Flo	Rate of Flow Q-MCFPD © 15.025 psia 1807 arator Gas_wing Fluid 356 29.6

Prod	lucing Thru:	Cas	sing_	XX_	Tub	oing		_Type We	ll Sin	GLE GA	G.O. Dual	
Date	e of Complet:	ion:	1-31-	64	Packer	•	Sin	Reservo	nne zo- G. ir Tem p	G. OF		
							ED DATA					
ľe s t	ed Through	(Run	CRE) (Choke	(Musur)				Type Tar	s		
		F	low Da	ata		1	Tubing	Data	Casing I	ata		
No.	(Prover) (Chol (Line) (Orif: Size Si:		oke) Pres			Temp.	Press.	Temp.	Press.	Temp.	Duration of Flow Hr.	
	2126		126	psi	8 17W	····			585		9 DAYS	
SI l.		3	/48	14		60	585 160		140	60	3 HRs.	
2.												
3.										ļ		
4.						·			<u> </u>	 	<u> </u>	
5. [L						L		1	<u> </u>	
]	FLOW CAL	CULATION	S				
No.	Coeffici			Pressure		Flow Temp. Factor		Gravity Factor	Compre	or	Rate of Flow Q-MCFPD	
	(24-Hou	r)	√ h _w	p _f	psia	F	t	F _g _	Fpv		● 15.025 psia	
1.	12.3650				152	1.0	00	0.9463		16	1807	
2.												
3. 4.			 	+	——— —							
5.												
rav:	Liquid Hydro ity of Liqui	d Hyd:	rocarb	ons		cf/bbl.deg.		Speci P _c	fic Grave fic Grave 597 172	ity Flo	earator Gasowing Fluid 356	
								Pw-	· · · · · · · · · · · · · · · · · · ·			
No.	P _w	P	2 F	CQ.	(F _c Q) ²	(F	$(cQ)^2$	P_w^2	$P_c^2-P_w^2$	C	Cal. Pw Pc	
	Pt (psia)							29.6	326.	4	0.286	
1. 2.												
3. 4.					<u> </u>				 			
4.					 							
5.									<u> </u>			
	olute Potent	_		.944	0		n 0.	85				
COM	PANY		RON DY		IN COMPANY		THUEB 3	Cou co and				
	DECC		2 C ARE	بحري	IN ION DATE	- PHILL	IPA. DRIL	LING SUP	ERINTENDE	NT _	Service State Control of the Control	
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ADD AGE WlT	NT and TITLE NESSED_	G.	Phil D. M		JR.	ION COM	MARKS			AL	LIVED	
ADD AGE WIT	NT and TITLE NESSED_	G.	Phil D. M		JR.	ION COM				1	B 1 9 1964	
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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 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
- P_{W}^{-} 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.
- $h_{\mathbf{w}}$ Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n I Slope of back pressure curve.

Note: If $P_{\mathbf{w}}$ cannot be taken because of manner of completion or condition of well, then $P_{\mathbf{w}}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\mathbf{t}}$.