MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

NEW MEXICO OIL CONSERVATION COMMISSION												
											Form C-122	
								LITT I C	F	Revise	ed 12-1-55	
MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS												
Pool	Pool Undesignated Dakota Formation Dakota County San Juan											
Initi	ial 😸 🗷	Ar	nual		Spec	SpecialDate			f Test9 <u>-15-60</u>			
Compa	any Three St	a te s Nat	ural Co	as Co.	Lease	Maddo	ox	Wel	1 No	_1_		
	H Se											
	ing 42 We. 11.6 I.D. 4.000 Set at											
	ng 2" Wi											
	Pay: From_										12.0	
Prod	ucing Thru:	Casin	3	n	mornig"	Si	ngle-Brade	nhead-G.	G. or C	.0. I)ual	
Date	of Complet	ion: 9=	5-60	Packe	er Nor	16	Reservo	ir Temp	1380	<u></u>		
					OBSERV	ÆD DATA						
Test	ed Through	(Prover) (Chok	e) (Meter)			Туре Тар	s			
			-	?		Tubin	g Data	Casing I	ata	Τ		
~~ <u>_</u>	(Prover)	(Choke	w Data) Pre	ss. Diff	. Temp.		· Temp.	Press.	7 =		Duration of Flow	
No.	(Line)	(Orific	e)			1	o _F .	psig	°F∙		Hr.	
-	Size	Size	ps	ig h _w	1	2125		2125				
SI l.		3/4	30	4	68	EILJ	68	700		_	_3	
2.							_		 			
3.		 			 	+						
3. 4. 5.												
<u> </u>		L			ET OW CA	LCITATI	ONS					
	Coefficient Pressure					FLOW CALCULATION Flow Temp.			P1000		Rate of Flow Q-MCFPD	
No.	(24-Hour) $$					ctor	Factor	Factor		@ 15.025 psia		
			$h_{\mathbf{w}}p_{\mathbf{f}}$	psia	a F _t		F _g	Fpv				
1.	12,3650	316		.9924		9359	1.040	1.00		3,774		
1. 2. 3. 4.				 	+							
2 4.												
5.										L		
				I	PRESSURE	CALCUTA'	TIONS					
Con Liquid Hydrogarbon Ratio cf/bbl. Specific Gravity Separator Gas												
as Liquid Hydrocarbon hatto Specific Gravity Flowing Fluid												
rav: ז	ravity of Liquid Hydrocarbons deg. 7c (1-e-s) Pc 2137 Pc 4,567											
C												
	$P_{\mathbf{w}}$		T		,2	(= c)2	D 2	$P_c^2 - P_v^2$	2 ,	Cal.	P	
No.		P _t ²	F _c Q	(F _c Q)~	$(F_cQ)^2$ $(1-e^{-s})$	P _w 2	rc-rv	7	P _w	$\frac{P_{\mathbf{W}}}{P_{\mathbf{C}}}$	
	Pt (psia)	ļ	 			(1-6)	506.9	4060_1			-333	
$\frac{1}{2}$.			<u> </u>							 ¦		

	(Prover)	(Cho	ke)	Press.	Diff.	Temp.	Press	Temp.	Press.	Temp.	ļ	of Flow
No.	(Line)	(Orif	ice)			0-		o _F .	psig	o _F .		Hr.
	Size	Si	.ze	psig	h _w	°F.	psig	F .				
SI							2125		2125	 	├	
1. 1		3/4		304		68_		68	700		┼-	_3
2.					<u> </u>		 -			 	 	
3.]				<u> </u>	<u> </u>	ļ	 	 		 	1	
4.							 	+	 			
1. 2. 3. 4.				<u> </u>	L	L			L			
						FT.OW CA	LCULATIO	NS				
	Cooffici	ent	·	Pi	ressure		Temp.	Gravity	Compre			of Flow
No.	Coellici	Coefficient				Factor		Factor	Factor		Q-MCFPD	
NO.	(24-Hour)		hw	Pf	psia	$\mathtt{F_t}$		$^{ extsf{F}_{ extsf{g}}}$	F _{pv}		@ 15.025 psia	
 _}		/ W. I		9924		.9359	1.00		3,774			
1. 2. 3. 4. 5.	12.3650				110	***		*****				
~ •											<u> </u>	
7.												
5.								<u> </u>	L		L	
Grav	Liquid Hydro ity of Liqu	id Hyd	rocart	oons (1-e ^{-s})		deg	-		ific Grav	Pc	,567	r Tutu
No.		P	2 1	F _c Q	(F _c Q)	2	$(\mathbf{F_{c}^{Q}})^{2}$ $(1-\epsilon^{-s})$	P _w 2	P _c -P _w ²	(Cal. P _w	Pw Pc
	Pt (psia)							506.9	4060.1			-333
1. 2. 3. 4. 5.		 										
3	ļ	 										
110	 	1										<u></u>
5.									\			
مند ا	solute Poten	+ial·	411	7		MCFP	D; n <u>.75</u>					
CON	APANY T	mae S			7 Ges Co							
				neton_		·						
AGI	ENT and TITI		3/	_	TAN.	Job	n Ceroth	ors, Ass	<u>istemt Di</u>	7	THE	
WIT	I'NESSED	1	1.3		 _					OIT.	TY	74.
REMARKS SEP 20 15 OR. CON.												
			• -			11				CEP	201	300
		** 12								1	~M	COM.
		• •	3						`	Our ?	nst.	3

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 ($P_{\rm W}$). MCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- 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.
- 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 $P_{\mathbf{t}}$.



STATE OF HE.	Frico
LONS RVATION	COLUMN TOWN
	A PER
The Con ES Street	A 7
SANTA FE	KGN
FILE	
U.S.G.S.	Z
LAND OFFICE	
TRANSPORTER OIL	
PROPATION OFFICE	
SMEATOR	