MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

				MULI	TI-POINT E	BACK PRES	SSURE TE	ST FOR GA	s walls		Form C-12 Revised 12-1-5	
Poc	ol Basin-	Dakot	<u> </u>		Formation	1	Pako	te,	County	Sen J	van	
Ini	tial		Annu	ual		Spec	ial	en e n en e n en	Jan of	Test	8-7-61	
Con	ipany FUBCO	PETRO	Leum C	OKPOR	AFTON	Lease	Tedere	1 29-11	e general de la companya de la compa	l No _	1-0	
Uni	.t 0	Sec	1 Tw	φ 2	9 N Rg	e. 11 W	Pur	chaser	El Paso	Natura	l Gas Company	
Cas	ing 5	Wt. <u>15</u>	<u>}</u> I	.D	Se	t at <u>67</u> .	10 Pe	659 erf. 65	8 0	To	6648 6 5 54	
	ing 2 3/8											
Gas	Pay: From	6540	то	6 648	L 65 9	9 4 x	G 0.65	o GL		Bar.Pre	ss. 12.025	
Pro	ducing Thru	: Ca	sing_		Tu	bing	X	Type W	all	Sing	le	
Dat	e of Complet	tion:	7-2	4-61	Packe	r Na	Sir	gle-Brade Reserve	enhead-3.	G. or 0	.0. Dual	
		_		1 44				1.0001	- TOMP	<u> </u>	Y 	
						OBSERV	ED DATA					
Tes	ted Through	DO	72C) (Choke) (Herea)				Type lap	s	Lange	
			Flow D				Tubing	Data	Casing D	ata		
No.			oke) fice)	Pres	s. Diff.	Temp.		Temp.	Press.		Duration of Flow	
	Size			psi	g h _w	°F.	psig	o _F .	psig	°F.	Ma.	
SI l.	2"		0.750	-			20/3		2073			
2.		 		 			415 328	 	1090 875		2	
3.		†					307		786		<u>a</u>	
4. 5.		 		 				 				
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	Coeffici	ent	1		Pressure	FLOW CAL		S Gravity	Compre	RQ.	Rate of Flow	
No.	000111010110				1003410	Fac		Factor	Factor		Q-MCFPD	
	(24-Hou	ır)	$\sqrt{h_{\mathbf{w}}}$	pf	psia	F.	t	$^{ extsf{F}}_{ extsf{g}}$	F _{pv}	1	0 15.025 psia	
1. 2. 3.	12.365				319	0.981	3	9.9608	1.025		3,812	
2•			<u> </u>									
4.												
5.												
					PRI	ESSURE CA	alcut at i	ONS				
as I	iquid Hydro	carbo	n Ratio	0		cf/bbl.		Speci	fic Gravit	.v Sepa	rator Gas 0.65	
ravi	ity of Liqui	d Hyd:	rocarbo	ons		deg.		Speci	fic Gravit	y Flow	ing Fluid	
2			(l-e ^{-s})) 			Pc	2085	^P ć . ا	J47, 205	
	$P_{\mathbf{w}}$		2 _	^	(= 0)2				_2 _ ɔ			
lo •	Pt (psia)	P	f F	c u	$(F_cQ)^2$	(F	,ℂ)^^ -e ^{-s})	P_{w}^{2}	$P_0^2 = F_w^2$	Ca		
	798							536.804	3.710.421	P.	W - C	
2. 3.												
) • • •						- 				-		
5.												
	lute Potent			92			n_0.75			<u>-</u> -		
	PANY RESS				CORPORATI Aztec N						RI	
	<u></u> -		التاريا حجو	والكالجاب		EL BELLO	<u> </u>				1 4 3 2 4 4 4	

<u>: </u>										
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				ET OU CA	LCULATIO	N C				
Т	Coefficient		Pressu		Temp.	Gravity	Compres	Ra. Ra	te of Flow	
١.	000222020			l l	ctor	Factor	Factor	i i	Q-MCFPD	
١	(24-Hour)	$\sqrt{h_{v}}$	√p _f psia		Ft	Fg	F _{pv}		15.025 psi	
	12.365	1	319	0.98	12	9.9608	1.025		3,812	
1					4.3	- AvA	1.002		- 3,012	
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+										
				<u></u>						
				PRESSURE	CALCULAT	IONS				
	Liquid Hydrocarl		lo	cf/bbl			fic Gravit			
	ity of Liquid Hy		ons	deg	•		fic Gravit			
		((1-e ^{-s})		_	Pc	2085	. ^{Pc} 4,3 47	, 205	
Т	$P_{\mathbf{w}}$	_						1	 	
		P_{t}^{2} F	F _C Q (F _C	$(Q)^2$	F,0) ² 1-e ^{-s})	$P_w 2$	$P_0^2 - P_w^2$	Cal.	P _w P _c	
1		- 1		1 /	·					
	Pt (psia)					,,		P_w	Pc	
1	Pt (psia) 7 98					636,80 <u>4</u>	3,710,421	Pw	Pe	
						636,804	3,710,421	Pw	Pc	
 - -						636,804	3,710,421	Pw	P _c	
						636,804	3,710,421	Pw	P _c	
	798	, la	202				3,710,421	Pw	P _c	
so	798 plute Potential:		292 OLEIM CORPO	MCFPD			3,770,421	Pw	P _C	
SOME	Dlute Potential: PANY RESS 108	CO PETER	OLEUM CORPO	MCFPD RATION	; n_0.75			P _w	Pc	
SOMPOR	olute Potential: PANY RESS T and TITLE R.	CO PETE West C	OLEM CORPO husks, Azto haff, Jr. D	MCFPD RATION	; n_0.75			/R	Transport	
SOME	PANY PURESS 108 NT and TITLE B	CO PETE West C H. Waye Jamier	OLEUM CORPOR huska, Azta haff, Jr. D son	MCFPD RATION C. New Mexistrict Engineer	; n_0.75			/R	Pc	
so MF DR EN	PANY PURESS 108 NT and TITLE B	CO PETE West C H. Waye Jamier	OLEM CORPO husks, Azto haff, Jr. D	MCFPD RATION C. New Mexistrict Engineering	; n_0.75			/R		
so MP DR EN	PANY PURESS 108 NT and TITLE B	CO PETE West C H. Waye Jamier	OLEUM CORPOR huska, Azte haff, Jr. D son	MCFPD RATION C. New Mexistrict Engineering	; n_0.75			/R		
SOME	PANY PURESS 108 NT and TITLE B	CO PETE West C H. Waye Jamier	OLEUM CORPOR huska, Azte haff, Jr. D son	MCFPD RATION C. New Mexistrict Engineering	; n_0.75			/R		
SOME	PANY PURESS 108 NT and TITLE B	CO PETE West C H. Waye Jamier	OLEUM CORPOR huska, Azte haff, Jr. D son	MCFPD RATION C. New Mexistrict Engineering	; n_0.75			/R		
	PANY PURESS 108 NT and TITLE B	CO PETE West C H. Waye Jamier	OLEUM CORPOR huska, Azte haff, Jr. D son	MCFPD RATION C. New Mexistrict Engineering	; n_0.75			/R		

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 (Pw). MCF/da. @ 15.025 psia and 600 F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- PwI 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.
- $h_{\ensuremath{\text{W}}}^{-}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- $\mathbf{F}_{\mathbf{DV}}$ 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 $P_{\mathbf{t}}$.