NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT	BACK	PRESSURE	TEST	FOR	GAS	WELLS
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No.

			MU	LTI-POIN	IT BAC	CK PRES	SSURE TE	ST FOR GAS	S WELLS		Revised 12-1	
Pool	Blanco !	'esaverd		Format	ion_	Messy	erde		County_	San Ju	n	
Initi	ial X _		_Annual_			Spec	ial		Date of	Test_1	-15-58	
Compa	any Black	avood &	<u> Hichols</u>	Company	Le	ease n	. B. Bla	neo Unit	We:	ll No	43-11	
											Gas Company	
	ıg_ 5_1/2 *										_	
	ng 2-3/8"							•		-		
											ess. 11.5	
Date	of Comple	tion:	1-7-58	Pa	- cker	<u> </u>	Sir	gle-Brade Reserve	enhead-G.	G. or (.O. Dual	
	•				-		ED DATA		, 10mp			
roat o	d Thansalah	Arrestan	## /aii	. \ Awarws		VALCEO	ED DATA		_			
. = 3 0 =	d Through								Type Tar			
. T	(Prover)	(Chok	ow Data e) Pre		ff.	Temp.	Tubing Press.	Data Temp.	Casing I		Duratio	
No.	(Line) Size	(Orifi Siz		sig h	w	o _F .	psig	o _F .	psig	⊃ _F .	of Flo	
SI L.		3/4					1.094		1094			
2.		 					220		558		3 hre.	
3.										 		
5.		<u> </u>						L				
	Coeffic	ient		Pressu	FL re	OW CAL	CULATION	S Gravity	Compre		Rate of Flow	
io.	(24-Hoi		h _w p _f	Fa		Fac:	tor Factor		Compress. Factor		Q-MCFPD	
	12.3650		wpi.	231.5		F.	t	F _g	Fpv		@ 15.025 psi	
c												
					-							
					PRES	SURF C	ALCU ATI	ONS				
s Lia	quid Hydro	oe rhon l	Ratio			f/bbl.	ALOU-MIL		<i>e:</i> - C	.		
	y of Liqui			sv		deg.		Speci	fic Gravi	ty Flow	rator Gas ing Fluid	
			(T=6					P _c	1205.5	_Pc	1222	
	P _w	2			. 2	T	- 1		2 2			
0. I	Pt (psia)	Pt ²	F _c Q	(F _c C	() ²	(F ₀	$(Q)^2$	P _w 2	$P_c^2 - P_w^2$	Ca P	Pw Pc	
						 		324	898		0.466	
•												
:										<u> </u>		
bsolı OMPAN	ite Potent	ial:	3604	Camen	<u> </u>	MCFPD;	n0.7	25				
DDRES	and TITLE	0. Box 1	237. Au	rango, C	olare		nian B					
lTNES	SSED	<u> </u>	Fu	رسطا	7.	a. 13	neces, re	troloum I	marinesi.	/ro		
OMPAN	NY				. .	DEW	DVC			'RIL		

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					220			3 hre.
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<u>-</u>								
		 -						
				I	FLOW CALCULATIO	NS		
	Coefficient		Pressure	Flow Temp.	Gravity	Rate of Flow		
(0)				Factor	Factor	Factor	Q-MCFPD	
-	(24-Hour) 7/	$^{/}$ ${ ext{h}_{ ext{W}}}{ ext{p}_{ extbf{f}}}$	psia	Ft	$\mathbf{F}_{\mathbf{g}}$	F _{pv}	@ 15.025 ps
	12.3650			231.5			F	3842
							 	
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Т.				 				
				मन	SSURE CALCULAT	TONS		
				1111		10110		
Li	iquid Hydroc	arbon F	Ratio		cf/bbl.	Specif	ic Gravity S	Separator Gas
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			(1-e	-s)		P. 1	105.5 P2	1222
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1								
	$P_{\mathbf{w}}$	_P 2	FO	(F 0)2	(F 0)2	D 2	p ² p ²	Cal
•		$P_{\mathbf{t}}^{2}$	F _c Q	$(F_cQ)^2$	$(F_cQ)^2$	P _w 2	$P_c^2 - P_w^2$	
•	Pt (psia)	Pt	F _c Q	$(F_cQ)^2$	(F _c Q) ² (1-e ^{-s})			P _w P _c
		Pt Pt	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})			P _w P _c
		Pt Pt	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})			P _w P _c
· •		Pt	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e-s)			P _w P _c
•		Pt ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})			P _w P _c
	Pt (psia)			(F _c Q) ²		324		P _w P _c
esol	Pt (psia)	al:	3604			324		P _w P _c
sol	Pt (psia) ute Potentia	al:	3604 Nichol	8 Company	MCFPD; n_ 0.	324		P _w P _c
sol MPA	Pt (psia) ute Potentia NY #120	al:	3604 Nichol 237. Au	s Company range, Colo	MCFPD; n 0.	324	898	P _w P _c
osol MPA DRE	Pt (psia) ute Potentia NY #120	al: Swood &	3604 Nichol 237. Pu	s Company range, Colo	MCFPD; n 0.	324	898	P _w P _c
osol MPA DDRE ENT	Pt (psia) ute Potentia NY #12al CSS F. 0	al: Swood &	3604 Nichol 237. Pu	s Company range, Colo	MCFPD; n 0.	324	898	P _w
osol MPA DDRE	Pt (psia) ute Potentia NY #12al CSS F. 0	al: Swood &	3604 Nichol 237. Pu	s Company range, Colo	MCFPD; n 0.	324	898	P _w
osol MPA DDRE ENT	Pt (psia) ute Potentia NY #12al CSS F. 0	al: Swood &	3604 Nichol 237. Pu	s Company range, Colo	MCFPD; n 0.	324	898	P _w
sol MPA DRE ENT	Pt (psia) ute Potentia NY #12al CSS F. 0	al: Swood &	3604 Nichol 237. Pu	s Company range, Colo	MCFPD; n 0.	324	898	P _w
osol MPA DDRE ENT	Pt (psia) ute Potentia NY #12al CSS F. 0	al: Swood &	3604 Nichol 237. Pu	s Company range, Colo	MCFPD; n 0.	324	898	P _w
sol MPA DRE ENT	Pt (psia) ute Potentia NY #12al CSS F. 0	al: Swood &	3604 Nichol 237. Pu	s Company range, Colo	MCFPD; n 0.	324	898	P _w
sol MPA DRE ENT	Pt (psia) ute Potentia NY #12al CSS F. 0	al: Swood &	3604 Nichol 237. Pu	s Company range, Colo	MCFPD; n 0.	324	898	P _w P _c

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
- P_t Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- P_{f} Meter pressure, psia.
- $h_{\mathbf{W}}^{-}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t 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 $P_{\mathbf{t}}$.

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