

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-121
 Revised 9-1-65

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 04-06-76	
Company Chace Oil Company			Connection None		
Pool Under Chace Rusty Veneff			Formation La Ventana Chacra		Unit 790' NL 800' EL
Completion Date 02-25-76		Total Depth 1915'	Plug Back TD 1850'		Elevation 6850' GR
Casing Size 4.50		Set At 1878'	Perforations: From 1670' To 1763'		Well No. 1-X
Tubing Size 1.50		Set At 1750'	Perforations: From To		Unit Sec. Twp. Rge. A 23 22 07
Type well - Surface - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None	
Producing Zone Tubing		Reservoir Temp. °F 6	Mean Annual Temp. °F 12		County Sandoval
L H G		% CO ₂	% N ₂	% H ₂ S	Prover 2"
		.633			Meter Run 2"

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							361		395		SLP
1.	200		125	351		55	351		387		111
2.	200		250	333		57	353		364		111
3	200		375	268		60	288		318		111
4.	200		500	221		61	204		264		111
5.	200		500	117		59	117		193		511

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super. Compress. Factor F _{pv}	Rate of Flow Q, Mcf/d
1	1.2648		363	1.005	1.257	1.055	135.9
2	1.087		365	1.005	1.257	1.055	117.7
3	1.378		300	1.000	1.257	1.027	921.0
4	1.279		216	.9990	1.257	1.019	1184.7
5	1.279		129	1.001	1.257	1.011	722.2

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1										
2										
3										
4										
5										

NO.	P _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²
1		395	156.0	156.0	0.0
2		376	141.3	141.3	14.7
3		330	108.9	108.9	47.1
4		264	70.1	70.1	88.8
5		193	42.0	42.0	123.6

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = \frac{165.6}{123.6}$

ACF = 2 $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 900.4$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.2825$

Absolute Free Flow	500	Mcf @ 15.025	Angle of Slope	.85
Remarks				
Approved by Commission: _____ Conducted By: _____ Calculated By: _____ Checked By: _____				