

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

Form 1-1-1
 1-1-1-1-1

☒ Land		☐ Annual		☐ Special		Test Date 11-20-75	
Company Chace Oil Co.				Connection Waiting on Pipeline			
Undesignated				Location Chacra			
Test Date 10-26-75		Total Depth 1974		Plug Back TD 1943		Elevation 6904 GR	
Well No. 4		Set At 1972		Perforations: From 1758 To 1801		Farm or Lease Name Rusty Federal	
Well No. 4		Set At 1803		Perforations: From Open To Ended		Unit Sec. Twp. Rge. M 13 22N 7W	
Type of Well: ☐ Single ☐ Multiple				Packer Set At None		County Sandoval	
Tubing 1803		Inner Temp. °F 92		Mean Annual Temp. °F 1915		State New Mexico	
H 1803		Q _g 0.626		% CO ₂ --		% N ₂ --	
				% H ₂ S --		Meter Run --	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO	Flow Line Size	X	Orifice Size	Press. psid	Diff. hw	Temp. °F	Press. psid	Temp. °F	Press. psid		Temp. °F
1	3/4" GRC					60	480		490		10 da
2							106		230		3 hr
3											
4											
5											

RATE OF FLOW CALCULATIONS							
NO	Q (bbl/d)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. °F	Gravity Factor P _g	Super Comp. Factor F _{sp}	Rate of Flow Q, bbl/d
1	12.3650		118	1.0000	0.9759	1.0000	1.423
2							
3							
4							
5							

NO	P _c	Temp. °F	T _g	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure P _{sc} , psia	Critical Temperature T _{sc} , °F
1	502	252,004								
2										
3										
4										
5										

NO	P _c	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1		242	58,564	193,440	1.3028	1.2521
2						
3						
4						
5						

Angle of Slope $\theta =$ 1,782		Angle of Slope $\theta =$ 1,782	
Remarks:			
Approved By Commission:		Conducted By:	
		Ewell N. Walsh	
Calculated By:		Checked By:	

