

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2-23-78	
Company Chace Oil Company				Connection Waiting on pipeline	
Pool Rusty Chacra				Formation Chacra	
Completion Date 1-20-78		Total Depth 1920		Plug Back TD 1685	
Elevation 6731 GR		Farm or Lease Name Rusty Navajo			
Csg. Size 4.500	Wt. 9.50	d 4.090	Set At 1883	Perforations: From 1400 To 1660	
Thq. Size 1.900	Wt. 2.90	d 1.610	Set At 1665	Perforations: From Open To Ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F 75 @ 1920		Mean Annual Temp. °F -	
Baro. Press. - P _a 12.0		County Sandoval			
State New Mexico					
L 1665	H 1665	G _g 0.6	% CO ₂ -	% N ₂ -	% H ₂ S -
Prover -	Meter Run -	Taps -			

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line 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	
1.	3/4" THC						320		470		14 da
2.							10	60	180		3 hr.
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	12.3650		22	1.0000	1.0000	1.0000	272
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 482	P _c ² 232 324					
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1886$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1581$
1.		192	36.864	195.460		
2.						
3.						
4.						
5.						

AOFF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 315$

Absolute Open Flow 315	Mcfd @ 15.025	Angle of Slope @	Slope, n 0.85
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Remarks:

Approved By Commission:	Conducted By: Andy Birdsell	Calculated By:	Checked By:
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