

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 7-21-77			
Company Chace Oil Company, Inc.				Connection					
Pool Rusty				Formation Chacra				Unit	
Completion Date SI on 7-20-77		Total Depth 2015		Plug Back TD 1985		Elevation 6838 G.L.		Farm or Lease Name Rusty Navajo	
Csg. Size 4.500	Wt. 9.5	d 4.090	Set At 2015	Perforations: From 1564 To 1812				Well No. 7	
Tbg. Size 1.900	Wt. 2.9	d 1.610	Set At 1710	Perforations: From Open To Ended				Unit Sec. Twp. Rge. M 22 22N 7W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None		County Sandoval	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12 psia (est.)		State New Mexico	
L	H	Gg 0.640 est.	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO.	Line Size X Outside Size Inside	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	20 days				425		445		
1.	2 " .750	80			80	60° est.	210	60° est.	1 hour
2.		60			60	"	190	"	2 hours
3.		45			45	"	160	"	3 hours
4.									
5.									

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.3650		92	1.0000	.9682	1.008	1110
2	12.3650		72	1.0000	.9682	1.006	867
3	12.3650		57	1.0000	.9682	1.005	686
4.							
5.							

NO.	P _t	Temp. °R	T _t	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 457	P _c ² 208,849	
NO	P _t ²	P _w
1		172
2		
3		
4		
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1650$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 769$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1214$

Absolute Open Flow 769 Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .75
Remarks: _____		
Approved By Commission:	Conducted By: Royce McCary	Calculated By: Joe F. Elledge
		Checked By: Mr. McCary

1.500
NOM.
In.