

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

Form C-22
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10-1-77	
Company Chase Oil Co., Inc.				Connection		
Pool Rusty				Formation Menefee <i>Chacara</i>		Unit
Completion Date 9-21-77		Total Depth -----		Plug Back TD -----		Elevation 6990 G.L.
Farm or Lease Name Rusty Federal						Well No. 1
Csg. Size 4.500	Wt. 9.500	d 4.090	Set At @ 3331	Perforations: From 1901 To 1962		Unit Sec. Twp. Rge. P-11-22N-7W
Tbg. Size 1.900	Wt. 2.9	d 1.610	Set At 1954	Perforations: From open To ended		County Sandoval
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		State New Mexico
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F 12 psi a (est.)		Meter Run Taps
L	H	Gg 0.640(est)	% CO ₂	% N ₂	% H ₂ S	Prover

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	
SI	10 days						210		450		
1.	2"	.750					170	60°est	350	60°est	1 hr.
2.							120	"	310	"	2 hr.
3.							75	"	290	"	3 hr.
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		182	1.0000	.9682	1.018	2218
2	12.3650		132	1.0000	.9682	1.013	1601
3	12.3650		87	1.0000	.9682	1.009	1051
4.							
5.							

NO.	P _r	Temp. °R	T _r	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 462	P _c ² 213,444	P _w ² 302	P _w ² 91,204	P _c ² - P _w ² 122,240	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.7461$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.5190$
NO.	P _i ²	P _w ²	P _w ²	P _c ² - P _w ²		
1		302	91,204	122,240		
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,596$

Absolute Open Flow 1,596 @ end of 3rd hr. Mcfd @ 15.025 Angle of Slope @ .75

Remarks: _____

Approved By Commission:	Conducted By: Royce McCary	Calculated By: Joe F. Elledge	Checked By: Mr. McCary
-------------------------	-------------------------------	----------------------------------	---------------------------

