

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

Form O-122
Revised 1-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 11-20-75				
Company Chace Oil Co.				Connection Waiting on Pipeline					
Field Undesignated				Formation Chacra				Unit	
Completion Date 9-29-75		Total Depth 3697		Plug Back TD 2091		Elevation 6924 GR		Farm or Lease Name Rusty Federal	
Flow Line Size 4.500	Wt. 10.50	Set At 4.052	Set At 2122	Perforations: From 1762 To 1804		Well No. 3			
Tap Size 1.900	Wt. 2.90	Set At 1.610	Set At 1829	Perforations: From Open To Ended		Unit P 14 22N 7W			
Type Well - Single - Production 1 - G.O. or G.O. Multiple Single				Packer Set At None		County Sandoval			
Producing thru Tubing		Reservoir Temp. °F 92 @ 1915		Mean Annual Temp. °F --		Baro. Press. - P _a 12.0		State New Mexico	
L 1829	H 1829	G _g 0.626	% 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					60	440	110	440	240	10 da. 3 hr.
2.											
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 Fg	Super Compress. Factor, F _{spv}	Rate of Flow Q, Mgd
1	12.3650		122	1.0000	0.9759	1.0000	1,472
2							
3							
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/lb.
1					A.P.L. Gravity of Liquid Hydrocarbons _____ Deg.
2					Specific Gravity Separator Gas _____ X 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 452	P _c ² 204,304	
NO.	P _r	P _w
1	252	63,504
2		
3		
4		
5		

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.4510$$

$$AGF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2,020$$

$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3722$$

At Rate of Flow 2,020	Mcf @ 15.025	Angle of Slope θ _____	Slope, n 0.85
Remarks:			

Approved By Commission:	Conducted By:	Calculated By: Ewell N. Walsh	Checked By:
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