

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 9-7-78	
Company Caulkins Oil Company				Connection	
Pool Otero Chacra				Formation Chacra	
Completion Date 8-30-78		Total Depth 4016		Plug Back TD 4016	
				Elevation 6655 Gr.	
Farm or Lease Name Reuter		Well No. 343			
Csg. Size 4 1/2"	Wt. 10.5	d 4.000	Set At 4016	Perforations: From 3874 To 3980	
Thq. Size 1 1/4"	Wt. 2.3	d 1.350	Set At 3910	Perforations: From 3910 To	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Commingle Single Gas				Packer Set At	
Producing Thru Tubing				Baro. Press. - P _a	
Reservoir Temp. °F 8				Mean Annual Temp. °F	
County Rio Arriba					
State New Mexico					
L	H	G _a	% 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.	
SI	7 Day						582		447	
1.							22		298	3 hrs.
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 Fpv	Rate of Flow Q, Mcfd
1	14.1605		34	1.000	1.000	1.000	487
2.							
3.							
4.							
5.							

NO.	P _t	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 _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ F

P _c 594 P _c ² 352,836				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1				
2				
3				
4				
5				

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

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.37$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{0.75} =$ _____

Absolute Open Flow	610	Chacra-30% of 610 = 183 MCFPD	Mcf/d @ 15.025	Angle of Slope θ	.75	Slope, n	1.2693
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Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
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