

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 10-1-79	
Company Caulkins Oil Company				Connection	
Pool Otero Chacra				Formation Chacra	
Completion Date 6-27-79		Total Depth 7500		Plug Back TD 7500	
Elevation 6665 ft.		Farm or Lease Name Breech			
Gas. Size 7"	Wt. 23# & 26#	d 6.366	Set At 7500	Perforations: From 3814 To 3912	
Well No. 812					
Thg. Size 1 1/4"	Wt. 2.4	d 1.380	Set At 5301	Perforations: From 5301 To	
Unit N	Sec. 18	Twp. 26N	Rge. 6W		
Type Well - Single - Broadhead - G.G. or G.O. Multiple Dual G-G-Commingle and Dakota				Packer Set At 5416	
Producing thru Tubing		Reservoir Temp. °F 9		Mean Annual Temp. °F 54.16	
County Rio Arriba		State New Mexico			
L	H	Gg	% 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
S1			3/4				1000		975		7 Days
1.							104		655		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 F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	14.1605		116	1.000	1.000	1.000	1,642
2.							
3.							
4.							
5.							

NO.	T _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 1012	P _c ² 1,024,144		
NO.	P _w	P _w ²	P _c ² - P _w ²
1	667	444,889	579,255
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.77$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2,517$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.53$

Absolute Open Flow	1,308	Mcf @ 15.025	Angle of Slope θ
Remarks: As determined by individual tests 52% Chacra and 48% Mesa Verde.			

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