

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-177
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 10-22-79	
Company Caulkins Oil Company			Connection		
Pool South Blanco-Pictured Cliffs			Formation Pictured Cliffs, <i>Chacra, Mesa Verde</i>		Unit
Completion Date 10-15-79		Total Depth 7323	Plug Back TD 7323	Elevation 6537 Gr.	Form or Lease Name Breach B
Coq. Size 7"	Wt. 23 & 26#	d 6.366	Set At 7323	Perforations: From 2720 To 2804	Well No. 220-R
Tub. Size 2 3/8"	Wt. 4.7#	d 1.991	Set At 5190	Perforations: From 5190 To	Unit Sec. Twp. Rye. B 14 26N 7W
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Dual GG Commingle and Dakota				Packer Set At 5283	County Rio Arriba
Producing Thru Tubing		Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. - P _a	State New Mexico
L	H	G _g	% CO ₂	% N ₂	% H ₂ S
		Prover	Meter Run	Taps	

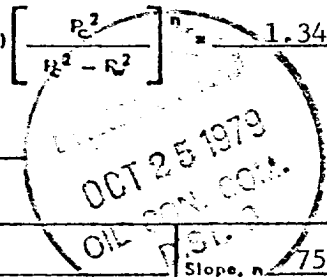
FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
51							579		519		7 Days
1.			3/4				59		327		3 hrs
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	14.1605		71	1.000	1.000	1.000	1,005
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
1.					Specific Gravity Separator Gas _____	XXXXXX
2.					Specific Gravity Flowing Fluid _____	XXXXX
3.					Critical Pressure _____ P.S.I.A.	_____ P.S.I.A.
4.					Critical Temperature _____ R	_____ H
5.						

NO.	P ₁ ²	P _w	P ₂ ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.49$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.349$
1		339	114,921	234,360		
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,356$



Absolute Open Flow 1356 Mcfd @ 15.025 Angle of Slope @ 75 Slope, n 75

Remarks: As recommended in letter dated 10-23-79. 21% Pictured Cliffs 285 MCFPD
 32% Chacra 434 MCFPD
 47% Mesa Verde 637 MCFPD

Approved By Division _____ Conducted By: _____ Calculated By: _____ Checked By: _____