

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 7-24-81				
Company Caulkins Oil Company				Connection					
Pool Otero Chacra - Blanco Mesa Verde				Formation Chacra - Mesa Verde				Unit	
Completion Date 7-17-81		Total Depth 7500'		Plug Back TD 7500'		Elevation 6676'		Farm or Lease Name Sanchez	
Csg. Size 5 1/2"		Wt. 17# & 15.5#		d 4.950 4.892		Set At 7500		Perforations: From 3940 To 5466	
Tbg. Size 1 1/4"		Wt. 2.30#		d 1.380		Set At 5427		Perforations: From 5427 To	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Gas - Gas Multiple					Packer Set At 5615			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
SI							698		1033		7 Days
1.	3/4" choke						78		630		3 Hours
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 _{pv}	Rate of Flow Q, Mcfd
1	14.1605		90	1.000	1.000	1.000	1274
2.							
3.							
4.							
5.							

NO.	P _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	XXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.606$	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4268$
1		642	412,164	679,861		
2						
3						
4						
5						

Absolute Open Flow 1,818 Mcfd @ 13.025				Angle of Slope @ 75		Slope, n	
Remarks:							
Approved By Division							
Conducted By:		Calculated By:		Checked By:			