

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9-02-80	
Company Caulkins Oil Company				Connection		
Pool Otero Chacra Blanco Mesa Verde				Formation Chacra-Mesa Verde		Unit
Completion Date 8-25-80		Total Depth 7620		Plug Back TD 7620		Elevation 6689
Coq. Size 5.500	Wt. 15.5	d 4.892	Set At 7620	Perforations: From 3946 To 4035		Well No. 346
Thq. Size 1 1/4"	Wt. 2.3	d 1.660	Set At 5453	Perforations: From 5453 To		Unit Sec. Twp. Range A 22 26N 6W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas-Gas Multiple					Packer Set At 5487	
Producing Thru Tubing		Reservoir Temp. °F θ		Mean Annual Temp. °F		County Rio Arriba
L		H	Gg	% CO ₂	% N ₂	State New Mexico
						Meter Run
						Tap

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							801		827		7 Day SI
1.							103		719		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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	14.1605		115	1.000	1.000	1.000	1628
2.							
3.							
4.							
5.							

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

P _c 837	P _c ² 703,921	(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 4.1466$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 2.9058$
NO.	P _t ²	P _w	P _w ²
1		731	534,361
2			
3			
4			
5			

Absolute Open Flow 4,731		Mcf/d @ 15.025	Angle of Slope θ 75	Slope, n
Remarks: 42% to Chacra Zone 58% to Mesa Verde Zone				

Approved By Division	Conducted By:	Calculated By:	Checked By:
----------------------	---------------	----------------	-------------