

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 9-17-81	
Company Caulkins Oil Company		Connection	
Pool Blanco Mesa Verde		Formation Mesa Verde	
Completion Date 9-10-81		Total Depth 7730'	
Plug Back TD 7730		Elevation 6646' Gr.	
Farm or Lease Name State A		Well No. 113E	
Csq. Size 5 1/2"	Wt. 17#	d 4.950	Set At 7730
Perforations From 4920 To 5547			
Tiq. Size 1 1/4"	Wt. 2.30#	d 1.380	Set At 5743
Perforations From 5743 To			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Gas Multiple		Packer Set At 5774	
County Rio Arriba		State New Mexico	
Producing Thru Tubing	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. - P _a
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	
SI							1053		1087		7 Days
1.							41		603		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, F _{pv}	Rate of Flow Q, Mcfd
1	14.1605		53	1.000	1.000	1.000	751
2.							
3.							
4.							
5.							

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

P _c 1099	P _c ² 1,207,801		
NO.	P _t ²	P _w ²	P _c ² - P _w ²
1		615	378,225
2.			
3.			
4.			
5.			

(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.456$

AOI = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 995$

(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.3254$

Absolute Open Flow	995	Mcf @ 15.025	Angle of Slope	75	Slope, n
Remarks					
Approved By Division					
Conducted By:		Calculated By:		Checked By:	