

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 10-5-81				
Company Caulkins Oil Company				Connection					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date 9-28-81		Total Depth 7601		Plug Back TD 7601		Elevation 6678' Gr.		Farm or Lease Name Breech C	
Coq. Size 5 1/2"	Wt. 17# 15.5#	d 4.950 4.892	Set At 7601	Perforations: From 7576 To 7330				Well No. 323E	
Thq. Size 2 1/16"	Wt. 3.25#	d 1.751	Set At 7512	Perforations: From 7512 To				Unit Sec. Twp. Rge. P 14 26N 6W	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Gas - Gas Multiple					Packer Set At 5601'		County Rio Arriba		
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State	
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							1703		PKR		7 Days SI
1.							101		PKR		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	14.1605		113	1.000	1.000	1.000	1,600
2.							
3.							
4.							
5.							

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

P _c 1715	P _c ² 2,941,225		
NO.	P _t ²	P _w	P _w ²
1	12,769	497	247,609
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_w^2 - P_c^2} = 1.0919$$

$$AOF = Q \left[\frac{P_c^2}{P_w^2 - P_c^2} \right]^n = 1,709$$

$$(2) \left[\frac{P_c^2}{P_w^2 - P_c^2} \right] = 1.0919$$

Absolute Open Flow	1,709	Mcf @ 15.025	Angle of Slope	75	Slope, ft
Remarks:					
Approved By Division					
Conducted By:		Calculated By:		Checked By:	

