

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 8-10-82	
Company Caulkins Oil Company				Connection		
Pool Blanco Mesa Verde				Formation Mesa Verde		Unit P
Completion Date 8-3-82		Total Depth 7500		Plug Back TD 7500		Elevation 6529 GR
Ceq. Size 5 1/2"		Wt. 17# 15.5#		Set At 4.950 4.892		Perforations: From 5090 To 5430
Trq. Size 1 1/4"		Wt. 2.3		Set At 1.380		Perforations: From 5477 To
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Gas-Gas Multiple				Packer Set At 5504		Form or Lease Name Breach D
Producing Thru Tubing		Reservoir Temp. °F P		Mean Annual Temp. °F		Well No. 685E
L		H		Gg		Unit Sec. Twp. Rye. P 11 26N 6W
				% CO ₂		County Rio Arriba
				% N ₂		State New Mexico
				% 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							1022		1166		7 days SI
1.							73		568		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 Ft.	Gravity Factor Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	14.1605		85	1.000	1.000	1.000	1,204
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.
1					Specific Gravity Separator Gas _____ XXXXXXXXXX
2.					Specific Gravity Flowing Fluid _____ XXXXX
3.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
4.					Critical Temperature _____ R _____ R
5.					

$P_c = 1178$ $P_c^2 = 1,387,684$				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		580	336,400	1,051,284
2				
3				
4				
5				

$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.320$

$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.231$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,482$

Absolute Open Flow	1,482	Mcf/d @ 15.025	Angle of Slope @	75	Slope, n
Remarks:					
Approved By Division					
Conducted By:		Calculated By:		Checked By:	