

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 8-1-84		AUG 09 1984 OIL CON. DIV. DIST. 8	
Company Caulkins Oil Company				Connection			
Pool Basin Dakota				Formation Dakota		Unit	
Completion Date 7-25-84		Total Depth 7575'		Plug Back TD 7575'		Elevation 6605	
Csg. Size 5 1/2"		Wt. 17#		Set At 7575'		Perforations: From 7296 To 7539	
Tbg. Size 1 1/2"		Wt. 29#		Set At 7366'		Perforations: From 7366 To	
Type Well - Single - Broadhead - G.C. or G.O. Multiple Gas-Gas Dual				Packer Set At 5530'		Well No. 244-E	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a	
L		H		G _g		County Rio Arriba	
% CO ₂		% N ₂		% H ₂ S		State New Mexico	
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							842		PKR		7 Days
1.							36		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 _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	14.1605		48	1.000	1.000	1.000	680
2.							
3.							
4.							
5.							

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

P _c 854	P _c ² 729,316	(1) $\frac{P_c^2}{R^2 - R_w^2} = 1.057$	(2) $\left[\frac{R^2}{R^2 - R_w^2} \right]^n = 1.043$
NO.	P _r ²	P _w	P _r ² - P _w ²
1	2304	199	39,642
2			
3			
4			
5			

Absolute Open Flow 709		Mcf/d @ 15.025	Angle of Slope °	Slope, n 75
Remarks:				
Approved By Division	Conducted By:	Calculated By:	Checked By:	