

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-122
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 9-27-84	
Company Caulkins Oil Company		Connection	
Pool Basin Dakota		Formation Dakota	
Completion Date 9-20-84		Total Depth 7630'	Plug Back TD 7630'
Csg. Size 5 1/2"		Well No. 346-M	Elevation 6723 Gr
Thq. Size 1 1/2"		Well No. 346-M	Perforations: From 7274 To 7486
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Gas - Gas Multiple		Packer Set At 5490'	County Rio Arriba
Producing Thru Tubing		Reservoir Temp. °F	Mean Annual Temp. °F
L		H	Gg
% CO ₂		% N ₂	% H ₂ S
Prover		Meter Run	Taps
State New Mexico			

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							1730		PKR		7 Days
1.							136		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 Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	14.1605		148	1.000	1.000	1.000	2,096
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 _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 1742		P _c ² 3,034,564		(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.142$		(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.105$	
NO.	P _r ²	P _w ²	P _r ² - P _w ²	P _c ² - P _w ²			
1	21,904	614	376,645	2,657,919			
2							
3							
4							
5							

Absolute Open Flow		2,315	Mcf/d @ 15.025	Angle of Slope @	75	Slope, n	
Remarks							
Approved By Division							
Conducted By		Calculated By		Checked By			