

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2008
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test										Test Date																																																											
☒ Initial										☐ Annual										☐ Special										7-14-83																																							
Company															Connection																																																						
Caulkins Oil Company																																																																					
Pool															Formation															Unit																																							
Basin Dakota															Dakota																																																						
Completion Date										Total Depth										Plug Back TD										Elevation										Farm or Lease Name																													
7-7-83										7612'										7612'										6592 GR										State "A"																													
Csg. Size					Wt. 17#					d 4.950					Set At					Perforations:										Well No.																																							
5 1/2"					15.5 #					4.892					7612					From 7590 To 7372										62-M																																							
Tbg. Size					Wt.					d					Set At					Perforations:										Unit										Sec.										Twp.										Rise									
1 1/2"					2.90#					1.900					7555					From 7555 To										D										2										26 N										6 W									
Type Well - Single - Bradenhead - G.G. or G.O. Multiple																				Packer Set At										County																																							
Gas - Gas Multiple																				5654'										Rio Arriba																																							
Producing Thru										Reservoir Temp. °F										Mean Annual Temp. °F										Baro. Press. - P _a										State																													
Tubing																																								New Mexico																													
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							1600		PKR		7 Days
1.							110		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 O. Mcfd
1	14.1605		122	1.000	1.000	1.000	1,727
2.							
3.							
4.							
5.							

NO.	P _t	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	

NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_w^2 - P_w^2} = 1.0116$	(2) $\left[\frac{P_c^2}{P_w^2 - P_w^2} \right]^n = 1.009$
1	14,844	172	29,728	2,568,816		
2						
3						
4						
5						

Absolute Open Flow				1,742				Mcf @ 15.025				Angle of Slope @				75				Slope, n			
Remarks:																							
Approved By Division					Conducted By:					Calculated By:					Checked By:								