

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-127
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 12-17-80	
Company Flag-Redfern Oil Co.					Connection	
Pool Pimon					Formation Fruitland	
Completion Date 12-2-80		Total Depth 1740'		Plug Back TD 1713'		Elevation 5578'
Csg. Size 2-7/8"		Wt. 6.4#		Set At 1740'		Perforations: From 1350' To 1357'
Tub. Size 1 1/2"		Wt. 2.4#		Set At 1563'		Perforations: From annular space
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas Gas Dual					Packer Set At 1463'	
Producing Thru annulus		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a
L		H		G _g .62 est		% 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
SI						
1.						
2.						
3.	pos choke 3/4"			1.0		50
4.						
5.						
RATE OF FLOW CALCULATIONS						
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor F _{sc}
1	12.365		13	1.010	.9837	1.000
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 _____ X X X X X X X X	
3.					Specific Gravity Flowing Fluid _____ X X X X X	
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
5.					Critical Temperature _____ R _____ R	
$P_c = 535$ $P_c^2 = 286,225$						
NO.	P _r ²	P _w ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = \frac{286225}{286056}$	
1	169	---	169	286056	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = \frac{.85}{1.001}$	
2						
3						
4						
5						
Absolute Open Flow 160					Mcf @ 15.025	
Angle of Slope θ					Slope, n .85	
Remarks:						
Approved By Division		Conducted By		Calculated By		Checked By
		Donovan		Donovan		Griffith