

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12-11-79			
Company Bruce Anderson				Connection					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date 12-03-79		Total Depth 6490'		Plug Back TD 6446'		Elevation 5713'		Farm or Lease Name Federal	
Csg. Size 4-1/2"		Wt. 10.5#		Set At 6484'		Perforations From 6252 To 6416		Well No. #3	
Tbg. Size 1-1/2"		Wt. 2.9#		Set At 6346'		Perforations From Open To End		Unit Sec. Twp. Rge. N 30 31 13	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single - Gas						Packer Set At		County San Juan	
Producing Thru tbg		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L		H		G _g .65		% 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							1190		1375		7 days
1.											
2.											
3.	3/4" Pos Choke						48	560	550		3 hrs
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 _{pv}	Rate of Flow Q, Mcfd
1							
2.							
3.	12.365		60	1.004	.9608	1.007	721
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 _____ 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

NO.	P _t ²	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 1.1964$	(2) $\frac{P_t^2}{P_t^2 - P_w^2} = 1440$
1						
2						
3		562	315844	1607925		
4						
5						

Absolute Open Flow 824 Mcfd @ 15.025 Angle of Slope 824 Slope, n .75

Remarks: _____

Approved By Division	Conducted By	Calculated By	Checked By
			Jacobs