

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 11-29-82	
Company Southland Royalty Company		Connection Northwest Pipeline Corporation	
Pool Gavilan		Formation Pictured Cliffs	
Completion Date 11-09-82		Total Depth 3715'	Plug Back TD 3691'
		Elevation 7489' GL	Form or Lease Name Capulin Mesa
Csq. Size 2.875	Wt. 6.5#	d 2.441	Set At 3700.31'
Perforations: From 3576' To 3636'		Well No. 1	
Tbg. Size -----	Wt. ---	d -----	Set At -----
Perforations: From ----- To ---		Unit E	Sec. Twp. Rge. 31 25N 1W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single			Packer Set At -----
Producing Thru Casing			County Rio Arriba
Reservoir Temp. °F #		Mean Annual Temp. °F	Baro. Press. - P _a 12.2
State New Mexico			
L	H	Gg .700	% 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									650		
1.	2"	X	3/4"						100		1 hr
2.									89		2 hrs
3.									76		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	12.365		88.2	1.0000	.9258	1.0000	1010
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 662.2	P _c ² 438508.8	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0181$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0153$
NO.	P _i ²	P _w	P _w ²
1		88.2	7779.2
2			
3			
4			
5			

Absolute Open Flow 1025 Mcfd @ 15.025		Angle of Slope @ _____	Slope, n .85
Remarks: Light mist			
Approved By Division	Conducted By: Dewayne Horton	Calculated By: James Smith	Checked By: R. E. Fielder