

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 12-13-83		MAY 25 1984	
Company Southland Royalty Company		Connection Northwest Pipeline Corporation		OIL CON. DIV	
Pool Gavilan		Formation Pictured Cliffs		Unit DIST. 3	
Completion Date 11-29-83		Total Depth 3728'		Plug Back TD 3720'	
Elevation 7318' GL		Farm or Lease Name Davis Federal		Well No. 1	
Csg. Size 2.875	Wt. 6.4#	d 2.441	Set At 3728'	Perforations: From 3552' To 3592'	Unit Sec. Twp. Rge. M 10 25N 2W
Thg. Size ---	Wt. ---	d ---	Set At ---	Perforations: From --- To ---	County Rio Arriba
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At -----	
Producing Thru Casing		Reservoir Temp. °F 8		Mean Annual Temp. °F 12.2	
Baro. Press. - P _g 12.2		State New Mexico		Prover Meter Run Taps	
L	H	C _q .700	% CO ₂	% N ₂	% H ₂ S

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									461		
1.	2"	X 3/4"							24		1 hr
2.									21		2 hrs
3.									18		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 Fg	Super. Comp. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		30.2	1.0000	.9258	1.0000	346
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 473.2	P _c ² 223918.2	(1) $\frac{P_c^2}{P_e^2 - R_w^2} = 1.0041$	(2) $\left[\frac{P_e^2}{P_c^2 - R_w^2} \right]^n = 1.0035$
NO.	P _i ²	P _w	P _w ²
1		30.2	912.0
2			
3			
4			
5			

Absolute Open Flow 347 Mcfd @ 15.025		Angle of Slope @ _____	Slope, n .85
Remarks: _____			
Approved by Division	Conducted By: Dwayne Horton	Calculated By: James Smith	Checked By: R. E. Fielder