

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-25-81			
Company Southland Royalty Company				Connection Northwest Pipeline Corporation			
Pool Undesignated				Formation Pictured Cliffs		Unit	
Completion Date 3-19-81		Total Depth 4160'		Plug Back TD 4110'		Elevation 7100' GR	
Farm or Lease Name Reese Mesa							
Csg. Size 4.500	Wt. 10.5#	d 4.050	Set At 4149'	Perforations: From 3888' To 4096'		Well No. 7	
Trg. Size 1.900	Wt. 2.90#	d 1,610	Set At 4086'	Perforations: From To		Unit Sec. Twp. Rye. L 11 32N 8W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - G				Packer Set At ----		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F θ		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.	
SI							1524		1525	
1.	2"		3/4"				429		1375	1 hr
2.							422		1327	2 hrs
3.							419		1299	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		431.2	1.0000	.9258	1.0000	4936
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 <td>____ Deg.</td>	____ Deg.
2.					Specific Gravity Separator Gas <td>XXXXXX</td>	XXXXXX
3.					Specific Gravity Flowing Fluid <td>XXXXX</td>	XXXXX
4.					Critical Pressure <td>P.S.I.A.</td>	P.S.I.A.
5.					Critical Temperature <td>R</td>	R

MAY 1 1981

OIL CON. COM. DIST. 3

NO.	P _i ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1		1311.2	1719245.4	643738.4	3.6707	3.0202
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 14907$

Absolute Open Flow	14907	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .85
--------------------	-------	----------------	------------------	--------------

Remarks:

Approved By Division	Conducted By: Donnie Thompson	Calculated By: James Smith	Checked By: L. O. Van Ryan
----------------------	----------------------------------	-------------------------------	-------------------------------