

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 4-29-79	
Company Southland Royalty Company				Connection Southern Union Gathering		
Pool Blanco				Formation Pictured Cliffs		Unit
Completion Date 4-22-79		Total Depth 5223'		Plug Back TD 5200'		Elevation 6098' GR
Farm or Lease Name Decker		Well No. #4A				
Csg. Size 7.000 4.500	Wt. 20# 10.5#	d 6.456 4.052	Set At 2778 2636-5215	Perforations: From 2509' To 2588'		Unit Sec. Twp. Rge. 0 10-32N-12W
Tbg. Size 1.660	Wt. 2.33#	d 1.380	Set At 2598	Perforations: From To		County San Juan
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Multiple				Packer Set At ---		State New Mexico
Producing Thru Tbg.		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12.2
L	H	G _g .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							895		907		
1.	2"	X	3/4"				45		410		1 hr
2.							38		372		2 hrs
3.							30		350		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		42.2	1.0000	.9258	1.0000	483
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.			
					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
					Specific Gravity Separator Gas _____ X X X X X X X X			
					Specific Gravity Flowing Fluid _____ X X X X X			
					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.			
					Critical Temperature _____ R _____ R			

$P_c = 919.2$ $P_c^2 = 844,929$				$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.1838$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1542$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 557$		
1		362.2	131,189	713,740			
2							
3							
4							
5							

Absolute Open Flow 557		Mcf/d @ 15.025		Angle of Slope @ _____		Slope, n 85	
Remarks:							

Approved By Commission:	Conducted By: Charles Saiz	Calculated By: James Smith	Checked By:
-------------------------	-------------------------------	-------------------------------	-----------------