

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			
Company Southland Royalty Company				Connection El Paso Natural Gas Company					
Pool Blanco				Formation Pictured Cliffs				Unit	
Completion Date 11-22-78		Total Depth 3269'		Plug Back TD 3238'		Elevation 6387' GR		Farm or Lease Name Maddox Waller	
Csg. Size 2.875	Wt. 6.5#	d 2.441	Set At 3269'	Perforations: From 3108' To 3155'		Well No. #3			
Tq. Size	Wt.	d	Set At	Perforations: From To		Unit Sec. Twp. Rge. G Sec. 15-T32N-R11W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At -----		County San Juan	
Producing Thru Csg.		Reservoir Temp. °F P		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	
1.	2"	X	3/4"						577		
2.									130		1 hr
3.									117		2 hrs
4.									111		3 hrs
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	12.365		123.2	1.0000	.9258	1.0000	1.410
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	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	

$P_c = 589.2$ $P_c^2 = 347,157$					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0457$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0387$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²				
1.		123.2	15,178	331,979				
2.								
3.								
4.								
5.								

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,465$

Absolute Open Flow <u>1,465</u> Mcfd @ 15.025		Angle of Slope θ _____		Slope, n <u>.85</u>	
Remarks: _____					
Approved By Commission:		Conducted By: Bob Shindledecker		Calculated By: James Smith	
				Checked By: 	