

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 11-06-78				
Company Southland Royalty Company				Connection El Paso Natural Gas Company					
Pool Blanco				Formation Mesaverde				Unit	
Completion Date 10-31-78		Total Depth 4693'		Plug Back TD 4642'		Elevation 6028' GR		Farm or Lease Name Jernigan	
Csg. Size 7.000 4.500		Wt. 20# 10.5#		d 6.456 4.052		Set At 2256' 2089-4683'		Perforations: From 4298' To 4580'	
Tbg. Size 2.375		Wt. 4.7#		d 1.995		Set At 4511'		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At ----		County San Juan		
Producing Thru Tbg.		Reservoir Temp. °F θ		Mean Annual Temp. °F		Baro. Press. - P _a 12.2		State New Mexico	
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							892		968		
1.	2"	X	3/4"				144		390		1 hr
2.							93		309		2 hrs
3.							30		316		3 hrs
4.											
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		42.2	1.0000	.9258	1.0000	483
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	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 980.2		P _c ² 960,792		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1263$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0933$	
NO	P _t ²	P _w	P _w ²	P _c ² - P _w ²			
1		328.2	107,715	853,077			
2							
3							
4							
5							

Absolute Open Flow 528 _____ Mcfd @ 15.025				Angle of Slope θ _____		Slope, n .75	
Remarks: _____							

Approved by Commission:	Conducted By: Kelly Maxwell	Calculated By: James Smith	Checked By:
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