

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 4-24-80	
Company Southland Royalty Co.				Connection Southern Union Gathering			
Pool Blanco				Formation Mesa Verde		Unit	
Completion Date 4-10-80		Total Depth 6703'		Plug Back TD 6621'		Elevation 5746' GR	
Farm or Lease Name Hare							
Csg. Size 5.500		Wt. 15.5#		d 4.892		Set At 6703'	
Thq. Size 1.500		Wt. 2.76#		d 1.610		Set At 4512'	
Perforations: From To				Well No. #19E			
Perforations: From 4394' To 4517'				Unit Sec. Twp. Rge. C 23 29N 10W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple						Packer Set At ---	
Producing Thru Tubing				Reservoir Temp. °F 8		Mean Annual Temp. °F 12.2	
Baro. Press. - P _a 12.2				State New Mexico			
L H		G _q .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							1047		1047	
1.	2" X 3/4"						123		428	1 Hour
2.							101		356	2 Hours
3.							91		327	3 Hours
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		103.2	1.0000	.9258	1.0000	1181
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

$P_c = 1059.2$ $P_c^2 = 1121904.6$				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1143$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0845$	
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²		
1		339.2	115056.6	1006848		
2						
3						
4						
5						

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1281$

Absolute Open Flow _____ Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .75
Remarks: _____		
Approved By Commission: _____	Conducted By: Dean Lingo	Calculated By: James Smith
Checked By: _____		