

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 1-9-80	
Company Southland Royalty Company				Connection Southern Union Gathering		
Pool Basin				Formation Dakota		Unit
Completion Date 1-2-80		Total Depth 7418'		Plug Back TD 7398'		Elevation 6230'
Farm or Lease Name Richardson		Well No. #7E				
Flow Size 7.000 4.500	Wt. 23# 10.5 & 11.6	d 6.456 4.052	Set At 4943' 4785'-7418'	Perforations: From 7203' To 7382'		Unit Sec. Twp. Rge. H 15 - 31N - R12W
Flow Size 2.375	Wt. 4.7#	d 1.995	Set At 7379'	Perforations: From To		Unit Sec. Twp. Rge. H 15 - 31N - R12W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At	
Producing Thru Tubing		Reservoir Temp. °F 8		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							1253		1219	
1.	2" X 3/4"						94		603	1 Hour
2.							59		490	2 Hours
3.							47		411	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 Fg	Super-Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		59.2	1.0000	.9258	1.0000	678
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 _____
3.					Specific Gravity Flowing Fluid _____
4.					Critical Pressure _____ P.S.I.A.
5.					Critical Temperature _____ °R

NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1260$ (2) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0931$ AOI = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 741$
1		423.2	179098.2	1421632.8	
2					
3					
5					

Absolute Open Flow <u>741</u> Mcfd @ 15.025		Angle of Slope θ _____	Slope, n <u>.75</u>
Remarks: <u>light mist H₂O</u>			
Approved By Commission:	Conducted By: Mick Ferrari	Calculated By: James Smith	Checked By: