

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 5-28-79	
Company Southland Royalty Company		Connection Southern Union Gathering	
Pool Aztec		Formation Pictured Cliffs	
Completer. Date 5-14-79		Total Depth 4772'	Plug Back TD 4772'
		Elevation 5747' GR	Farm or Lease Name Reid "A"
Core. Size 7.000 4.500	Wt. 20# 10.5#	d 6.456 4.052	Set At 2457' 2287'-4770'
Perforations: From 2155' To 2220'		Well No. 2R	
Thq. Size 1.250	Wt. 2.33#	d 1.380	Set At 2102'
Perforations: From To		Unit Sec. Twp. Rge. D 13 29N 10W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Multiple		Packer Set At 2303' PBR	
Producing Thru Casings		Reservoir Temp. °F @	Mean Annual Temp. °F 12.2
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							452		452		
1.	2" X 3/4"						97		396		1 Hr.
2.							95		381		2 Hrs.
3.							93		369		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		105.2	1.0000	.9258	1.0000	1204
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 464.2	P _c ² 215,482	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.0709$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.5952$
NO.	P _t ²	P _w ²	P _w ² - P _c ²
1		381.2	145,313
2			
3			
4			
5			

Absolute Open Flow 3125		Mcf/d @ 15.025	Angle of Slope @	Slope, p. .85
Remarks:				
Approved By Commission:	Conducted By: Dean Lingo	Calculated By: James Smith	Checked By:	