

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test					Test Date				
<input checked="" type="checkbox"/> Initial					<input type="checkbox"/> Annual				
<input type="checkbox"/> Special					12-11-78				
Company				Connection					
Southland Royalty Company				Gas Company of New Mexico					
Pool				Formation				Unit	
Blanco				Mesaverde					
Completion Date			Total Depth		Plug Back TD		Elevation		Farm or Lease Name
12-4-78			5995'		5984'		7094' GR		Arizona Jicarilla "A"
Csg. Size	Wt.	d	Set At	Perforations:		Well No.			
7.000	20#	6.456	3943'	From		5711' To		5791'	
4.500	10.5#	4.052	3772-5985'						
Tbg. Size	Wt.	d	Set At	Perforations:		Unit		Sec. Twp. Rye.	
2.375	4.7#	1.995	5796'	From		To		D Sec. 13-25N-4W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple					Packer Set At			County	
G.G. Multiple					3793'			Rio Arriba	
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State	
Tbg.		θ				12.2		New Mexico	
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	
		.700							

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							1411				
1.	2"	X	3/4"				210				1 hr
2.							164				2 hrs
3.							145				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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		157.2	1.0000	.9258	1.0000	1,800
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 _____ OIL CON. COM. X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X DIST. 3
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 1423.2 P _c ² 2,025,498				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0124$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0093$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²			
1		157.2	24,712	2,000,786			
2							
3							
4							
5							

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,817$

Absolute Open Flow	1,817	Mcf/d @ 15.025	Angle of Slope θ	Slope, n	.75
--------------------	-------	----------------	------------------	----------	-----

Remarks: _____

Approved By Commission:	Conducted By: Don Thompson	Calculated By: James Smith	Checked By:
-------------------------	-------------------------------	-------------------------------	-----------------