

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 5-8-79	
Company Southland Royalty Company				Connection Gas Company of New Mexico		
Pool South Blanco				Formation Pictured Cliffs		Unit
Completion Date 5-1-79		Total Depth 3838'		Plug Back TD 3793'		Elevation 7316' GR
Farm or Lease Name Arizona Jicarilla		Well No. #9				
Csg. Size 2.875'	Wt. 24#	d 2.441	Set At 3838'	Perforations: From 3644' To 3701'		Unit N
Tbg. Size --	Wt.	d	Set At	Perforations: From To		Sec. Twp. Rge. Sec. 25-T25N-R4W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At --		County Rio Arriba
Producing Thru Csg.		Reservoir Temp. °F #		Mean Annual Temp. °F		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.		Temp. °F
SI									988		
1.	2"	X	3/4"						201		1 hr
2.									160		2 hrs
3.									134		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		146.2	1.0000	.9258	1.0000	1,674
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	XXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure _____ P.S.I.A.	_____ P.S.I.A.
5.					Critical Temperature _____ R	_____ R

$P_c = 1000.2$ $P_c^2 = 1,000,400$					$(1) \frac{P_c^2}{P_e^2 - P_w^2} = 1.0218$	$(2) \left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 1.0185$
NO.	P _i ²	P _w	P _w ²	P _e ² - P _w ²		
1		146.2	21,374	979,026		
2						
3						
4						
5						

$AOF = Q \left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1,705$

Absolute Open Flow	1,705	Mcf @ 15.025	Angle of Slope θ	Slope, α	85
Remarks:					

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