

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-122
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 12-04-84				
Company Southland Royalty Company				Connection Gas Company of New Mexico					
Pool Tapacito				Formation Pictured Cliffs				Unit	
Completion Date 11-16-84		Total Depth 4065'		Plug Back TD 4037'		Elevation 7113' GL		Farm or Lease Name Jicarilla 101	
Csg. Size 2.875	Wt. 6.5#	d 2.441	Set At 4046'	Perforations: From 3828' To 3881'		Well No. 8J			
Tbg. Size ---	Wt. ---	d ---	Set At ---	Perforations: From ----- To -----		Unit Sec. Twp. Rye. K 12 26N 4W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At -----		County Rio Arriba		
Producing Thru Casing		Reservoir Temp. °F #		Mean Annual Temp. °F		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									1017		
1.	2" X 3/4"								140		1 Hr
2.									119		2 Hrs
3.									105		3 Hrs
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		117.2	1.0000	.9258	1.0000	1342
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
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A.
5.					Critical Temperature _____ °R

P _c 1029.2	P _c ² 1059252.6	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.0131$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.0111$
NO. 1	P _r ² 117.2	P _w ² 13735.8	P _r ² - P _w ² 1045516.8
2			
3			
4			
5			

Absolute Open Flow 1357		Mcf @ 15.025	Angle of Slope @	Slope, n .85
Remarks: Light mist and small amount of sand				

Approved By Division	Conducted By: Dewayne Horton	Calculated By: James W. Smith	Checked By: C. Terry Hobbs
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