

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 09-29-86	
Company SOUTHLAND ROYALTY COMPANY		Connection EL PASO NATURAL GAS COMPANY	
Pool CHOZA MESA		Formation PICTURED CLIFFS	
Completion Date 09-29-79		Total Depth 6510	Plug Back TD 4192
Elevation 7248 GL		Farm or Lease Name JICARILLA 449	
Gas Size 4.9000	Wt. 18.5	d 6.4550	Set At 4369
Perforations: From To		Well No. 1	
Trg. Size 2.8750	Wt. 6.5	d 2.4410	Set At 4147
Perforations: From 3952 To 4182		Unit Sec. Twp. Rgs. B 30 28N 03W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE		Packer Set At N/A	County RIO ARRIBA
Producing Thru TUBING	Reservoir Temp. °F p	Mean Annual Temp. °F	Baro. Press. - P _g 12
L	H	Cg .670	% 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	
51							1038		1027		7 DAYS
1.	.750			115		79	115		115		3 HOURS
2.											
3.											
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		127	0.9822	0.9463	1.016	1483
2.							
3.							
4.							
5.							

NO.	R ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	Specific Gravity Separator Gas _____	Specific Gravity Flowing Fluid _____	Critical Pressure _____ P.S.I.A.	Critical Temperature _____ R
1							XXXXXXXXXX			
2.							XXXXXX			
3.										
4.										
5.										

NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1079521}{1063392}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.01$
1		127	16129	1063392		
2.						
3.						
4.						
5.						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1502$

Absolute Open Flow	1502	Mcf/d @ 15.025	Angle of Slope	Slope, n .85
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Remarks: GAS VENTED DURING TEST = 328 MCF

Approved By Division	Conducted By: CLIFF BROCK	Calculated By: SCOTT H. LINDSAY	Checked By: BMF
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