

OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6-8-82	
Company Southland Royalty Company				Connection Gas Company of New Mexico	
Pool Basin				Formation Dakota	
Completion Date 11-04-81		Total Depth 8325'		Plug Back TD 8278'	
Elevation 7161' GL		Farm or Lease Name Jicarilla 101		Well No. 7-M	
Csg. Size 7.625	Wt. 26.4#	d 6.969	Set At 4200	Perforations: From To	
5.500	15.5#	4.950	4061-8323		
Log Size 1.900	2.9#	1.610	8183	Perforations: From 8059' To 8238'	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Multiple				Packer Set At 6279'	
Producing Thru Tubing		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							1685				
1.	2"	X	3/4"				49				1 hr
2.							55				2 hrs
3.							10				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		22.2	1.0000	.9258	1.0000	254
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/lbl.
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

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1		22.2	492.8	2879995.0	1.002	1.0001
2						
3						
4						
5						

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 254$			
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Absolute Open Flow _____ 254 _____ Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .75
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Remarks: _____			
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Approved By Division	Conducted By: Dwayne Horton	Calculated By: James Smith	Checked By: C. C. Parsons
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