

**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 4-30-80				
Company Southland Royalty Company				Connection El Paso Natural Gas Company					
Pool Basin				Formation Dakota				Unit	
Completion Date 4-23-80		Total Depth 4880'		Plug Back TD 4834'		Elevation 6186'		Farm or Lease Name State Line	
Gas. 6.000 4.500	Wt. 23# 10.5#	d 6.366 4.052	Set At 2899' 2760'-4880'	Perforations: From To			Well No. #2		
Tbg. Size 2.375	Wt. 1.995	d 4.7#	Set At 4781'	Perforations: From 4667' To 4775'			Unit Sec. Twp. Rge. G 14, T32N, R13W		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At -----		County San Juan		
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12.2		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.
SI							902		914	
1.	2" X 3/4"						34		194	
2.							23		144	
3.							21		123	
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		33.2	1.0000	.9258	1.0000	380
2.							
3.							
4.							
5.							

NO.	P _t	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 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 _t 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		135.2	18279	839567.4	1.0218	1.0163
2						
3						
4						
5						

$P_c = 926.2$ $P_c^2 = 857846.4$
 AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 386$

Absolute Open Flow <u>386</u> Mcfd @ 15.025	Angle of Slope θ _____	Slope, n <u>.75</u>
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Remarks: _____

Approved By Commission:	Conducted By: Tom Short	Calculated By: James Smith	Checked By:
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