

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form O-11
Revised 1-1-78

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 10-25-78	
Company Southland Royalty Company		Connection Southern Union Gathering Company	
Pool Basin		Formation Dakota	
Completion Date 10-18-78	Total Depth 7120'	Plug Back TD 7109'	Elevation 6025' GR
Form or Lease Name Culpepper Martin			Well No. #17
Csg. Size 4.500	Wt. 23# 10.5#	d 6.456 4.052	Set At 4677' 4520-7111'
Perforations From 7010' To 7093'		Well No. #17	
Reg. Size 2.375	Wt. 4.7#	d 1.995	Set At 7085'
Perforations From To		Unit Sec. Twp. R. 0 - 33 - T32N - R12W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At ----	
Producing Thru Tbg.		Reservoir Temp. °F a	
Mean Annual Temp. °F 12.2		State New Mexico	
L	H	Gg .700	% CO ₂ % N ₂ % H ₂ S Prover
Meter Run		Tape	

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							1565		1583	
1.	2"	X	3/4"				161		686	1 hr
2.							103		534	2 hrs
3.							83		456	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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		95.2	1.0000	.9258	1.0000	1090
2.							
3							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure P.S.I.A.	Critical Temperature °R
1.										
2.										
3.										
4.										
5.										

P _c 1595.2	P _c ² 2,544,663	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0943$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0699$
NO.	P _t ²	P _w	P _w ²
1		468.2	219,211
2			
3			
4			
5			

Absolute Open Flow 1,166		Mold # 10,725	Angle of Slope @	Slope, n .75
Remarks:				

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