

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1-23-86		JAN 27 1986 OIL CON. DIV. DIST. 3	
Company El Paso Natural Gas				Connection			
Pool Basin				Formation Dakota			
Completion Date 1-23-86		Total Depth 7689		Plug Back TD 7681		Elevation 6570 GR	
Farm or Lease Name S.J. 27-5 Unit				Unit S.J. 27-5 Unit			
Csg. Size 9.625	Wt. 40	d 8.835	Set At 3550'	Perforations: From 7458* To 7666		Well No. #97M	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 7647	Perforations: From To		Unit Sec. Twp. Rge. D 31 27 05	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Dual				Packer Set At 5874'		County Rio Arriba	
Producing Thru Tbg		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12	
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.	Temp. °F	
SI							2020				7 Days
1.		.750		158		57	158				3 Hrs.
2.											
3.											
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		170	1.0039	.9258	1.024	2001
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 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	

P _c 2032	P _c ² 4129024	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{4129024}{3986140} =$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0268$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2055$			
NO.	P _t ²		P _w	P _w ²	P _c ² - P _w ²
1			378	142884	3986140
2					
3					
4					
5					

Absolute Open Flow 2055 Mcfd @ 15.025		Angle of Slope @	Slope, n .75
Remarks: Gas Vented during test = 313 MCF.			
7" Liner set 3395' - 6066'.			
4½" Liner set - 5920' - 7689'			
Approved By Commission:	Conducted By: E. Minert	Calculated By: Scott H. Lindsay	Checked By: kld