

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

OIL CONSERVATION DIVISION
2040 Pacheco St.
Santa Fe, NM 87505

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Arlen Dickson						Lease or Unit Name Martin					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4-10-96		Well No. 1			
Completion Date 2-6-96		Total Depth 11,726'		Plug Back TD 10,470'		Elevation 3136.5 GR		Unit Ltr. - Sec. - TWP - Rgc. F 20 22S 27E			
Csg. Size 5-1/2"		Wt. 17 #		Set At 8707 - 11,725'		Perforations: From: 10,354' To: 10,374'		County Eddy			
Tbg. Size 2-7/8"		Wt. 6.5 #		Set At 10,278'		Perforations: From: 10,354 To: 10,374		Pool South Carlsbad			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 10,207.69'		Formation Strawn			
Producing Thru Tubing		Reservoir Temp. °F 65		Mean Annual Temp. °F 65		Baro. Press - P _a		Connection El Paso Field Services			
L	H	G _g	% 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				1550		68		68	0		
1.	2.067		0.625		7.8	68	400	68	0		20
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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	2470.89	48.615	303	0.9924	0.9682	1.028	118.5
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	2.63	619	1.687	0.81	118000	
2.				0.80	52	
3.					0.64	
4.					XXXXXX	0.6637
5.					XXXXXX	

NO.	P _i	P _w	P _u	P _i ² - P _w ²
1.	400	513.4	2635.80	3676.65
2.				
3.				
4.				
5.				

1) $\frac{P_i^2}{P_i^2 - P_w^2} = \frac{3940.225}{3676.65}$

2) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1.072$

AOF = Q $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 127$

3) $\frac{P_i^2}{P_i^2 - P_w^2} = \frac{3940.225}{3676.65}$

4) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 127$

Absolute Open Flow 127	Mcf/d @ 15.025	Angle of Slope θ 45	Slope, n 1
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Remarks:

Approved By Division	Conducted By:	Calculated By:	Checked By:
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