

OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9-9-81	
Company SUPRON ENERGY CORPORATION				Connection Southern Union Gathering Company		
Pool Blanco				Formation Mesaverde		Unit
Completion Date 8-21-81		Total Depth 7100		Plug Back TD 7066		Elevation 6017
Farm or Lease Name Sanchez		Well No. 3-E				
Csg. Size 4.500	Wt. 10.50	d 4.052	Set At 7100	Perforations: From 4163 To 5045		Unit Sec. Twp. Rge. J 34 30N 10W
Thq. Size NO TUBING	Wt.	d	Set At	Perforations: From To		
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Dual - Gas - Gas				Packer Set At 6797		County San Juan
Producing Thru Casing		Reservoir Temp. °F 8		Mean Annual Temp. °F		State New Mexico
L 4153	H	Gg 0.650	% 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	2"		3/4"						1027		15 days
1.									431	81°	3 hours
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, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		443	0.9804	0.9608	1.040	5366
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	Critical Temperature
1										
2.										
3.										
4.										
5.										

P _c 1039 P _c ² 1,079,521					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3997$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2839$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²				
1			308,281	771,240				
2								
3								
4								
5								

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6889$$

Absolute Open Flow	6889	Mcfd @ 15.025	Angle of Slope θ	Slope, n	0.75
--------------------	------	---------------	------------------	----------	------

Remarks:

Approved By Division	Conducted By: John Cole	Calculated By: Kenneth E. Roddy	Checked By:
----------------------	----------------------------	------------------------------------	-------------