

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 11-4-81				
Company SUPRON ENERGY CORPORATION				Connection Southern Union Gathering Company					
Pool Blanco				Formation Mesaverde				Unit	
Completion Date 10-10-81		Total Depth 5020 ft.		Plug back TD 4985 ft.		Elevation 5914 ft.		Farm or Lease Name Rawson	
Csq. Size 4.500	Wt. 10.50	d 4.052	Set At 5020	Perforations: From 4426 To 4884		Well No. 2			
Tbg. Size 2.375	Wt. 4.70	d 1.995	Set At 4730	Perforations: NO PERFORATIONS From To		Unit Sec. Twp. Rge. B 35 31N 12W			
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		State New Mexico	
L 4720	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"				1079				14 days
1.							346	76°			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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		358	0.9850	0.9608	1.033	4328
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon	Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	Deq.
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.
5					Critical Temperature	R

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1			459,329	730,952
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.6284$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6238$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4414$$

Absolute Open Flow	6238	Mcf/d @ 15.025	Angle of Slope θ	Slope, n 0.75
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Remarks:			
Approved By Division	Conducted By: Mike Smith	Calculated By: Kenneth E. Roddy	Checked By: