

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-122
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-21-81	
Company SUPRON ENERGY CORPORATION				Connection Southern Union Gathering Company	
Pool Basin				Formation Dakota	
Completion Date 3-7-81		Total Depth 8145		Plug Back TD 8109	
				Elevation 6559	
Csg. Size 7.625 5.500		WT. 26.40 15.50		Perforations: From 7977 To 8077	
Tub. Size 2.0625		WT. 3.25		Perforations: No Perforations	
		d 1.750		Set At 7931	
Type Well - Single - Brdenhead - C.G. or C.O. Multiple Dual - Gas - Gas				Packer Set At 7924	
Producing Thru Tubing		Reservoir Temp. °F P		Baro. Press. - P ₀ 12	
L 7921		H 0.700		County San Juan	
				State New Mexico	
				Unit Sec. Twp. Rge. P 8 31N 8W	
				Prover Meter Run Tops	

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"				2205				8 days
1.							152	59 ⁰			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 F _t	Gravity Factor F _g	Super Compress Factor, F _{sp}	Flow Q, Mcfd
1	12.3650		164	1.0010	0.9258	1.020	917
2.							
3.							
4.							
5.							

NO.	P _t	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										

NO.	P _t	P _w	P _t ²	P _w ²	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n =$
1	2217	4,915,089	240,738	4,674,351	1.0515	1.0383	
2							
3							
4							
5							

Absolute Open Flow 1990 Mcfd @ 15.025				Angle of Slope 0.75	
Remarks:					
Approved by Division		Conducted By Bennie Brown		Calculated By Kenneth E. Roddy	
				Checked By	