

OIL CONSERVATION DIVISION

P. O. BOX 2088

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 11-30-81	
Company SUPRON ENERGY CORPORATION				Connection Southern Union Gathering Company		
Pool Basin				Formation Dakota		Unit
Completion Date 11-9-81		Total Depth 6890		Plug Back TD 6840		Elevation 5998
Farm or Lease Name Reid "A"						
Csq. Size 4.500	Wt. 10.50	d 4.052	Set At 6884	Perforations: From 6674 To 6764		Well No. 2-E
Thq. Size 2.375	Wt. 4.70	d 1.995	Set At 6671	Perforations: NO PERFORATIONS From To		Unit Sec. Twp. Rge. D 1 30N 13W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual - Gas - Gas				Packer Set At 6633		County San Juan
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		State New Mexico
L 6661	H	Gg 0.700	% 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	2"		3/4"				1444				14 days
1.							49	64°			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, Fpv	Rate of Flow Q, Mcfd
1	12.3650		61	0.9962	0.9258	1.000	696
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas	XXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure	P.S.I.A. 3 P.S.I.A.
5.					Critical Temperature	R R

P _c 1456 P _c ² 2,119,936			
NO.	P _t ²	P _w	P _w ²
1			16,053
2.			
3.			
4.			
5.			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0076$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0056$	
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 700$			

Absolute Open Flow	700	Mcf/d @ 15.025	Angle of Slope @	Slope, n 0.75
--------------------	-----	----------------	------------------	---------------

Remarks:			
----------	--	--	--

Approved By Division	Conducted By: Mike Smith	Calculated By: Kenneth E. Roddy	Checked By:
----------------------	-----------------------------	------------------------------------	-------------