

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 3-12-81	
Company SUPRON ENERGY CORPORATION				Connection Southern Union Gathering Company	
Pool Wildcat Under				Formation Chacra	
Completion Date 2-28-81		Total Depth 6560		Plug Back TD 6520	
Elevation 5675		Farm or Lease Name Zachry			
Csg. Size 4.500	Wt. 10.50	d 4.052	Set At 6560	Perforations From 2890 To 3002	
Well No. 19-E		Unit Sec. Twp. Rge. 0 12 28N 10W			
Type Well - Single - Rodenthead - G.G. or G.O. Multiple Dual - Gas - Gas		Packer Set At 6229		County San Juan	
Producing Thru Casing		Reservoir Temp. °F 8		Baro. Press. - P _a 12	
State New Mexico		Prover Meter Run Taps			
L 2880	H	G _g 0.650	% N ₂	% H ₂ S	

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"						856		7 days
1.									272	67°	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 _{pv}	Initial Flow Q, Mcfd
1	12.3650		284	0.9933	0.9608	1.027	3442
2.							
3.							
4.							
5.							

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

P _r 868	P _r ² 753,424					
NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.1585$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.1166$
1			103,086	650,338		
2						
3						
4						
5						

$$AOF = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 3843$$

Absolute Open Flow 3843 Mcfd @ 15.025 Angle of Slope 0.75

Remarks:

Approved by Division	Conducted by David Roark	Calculated by Kenneth E. Roddy	Checked by
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