

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

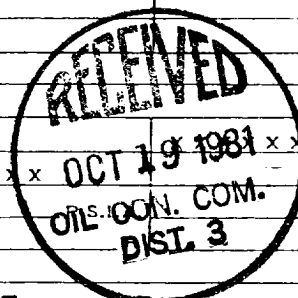
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 9-10-81	
Company SUPRON ENERGY CORPORATION				Connection Southern Union Gathering Company	
Pool Fulcher Kutz				Formation Pictured Cliffs	
Completion Date 8-25-81		Total Depth 3122		Plug back TD 3080	
Elevation 5763		Farm or Lease Name Angel Peak			
Csq. Size 4.500	Wt. 9.50	d 4.090	Set At 3122	Perforations: From 1884 To 1914	
Well No. 22					
Thg. Size NO TUBING	Wt.	d	Set At	Perforations: From To	
Unit M		Sec. 7		Twp. 28N	
Range 10W					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual - Gas - Gas				Packer Set At 2836	
Producing Thru Casing		Reservoir Temp. °F #		Mean Annual Temp. °F	
Baro. Press. - P _a 12		State New Mexico			
L 1874	H	G _g 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"						180		7 days
1.									43	62°	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		55	0.9981	0.9608	1.000	652
2.							
3.							
4.							
5.							

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



P _c 192	P _c ² 36,864					
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0998$	
1			3344	33,520	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0842$	
2						
3						
4						
5						

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 707$$

Absolute Open Flow 707 Mcfd @ 15.025 Angle of Slope @ Slope, n 0.85

Remarks:

Approved By Division	Conducted By: Clifton Gates	Calculated By: Kenneth E. Roddy	Checked By:
----------------------	--------------------------------	------------------------------------	-------------