

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

☒ Initial ☐ Annual ☐ Special		Test Date 6/18/81	
Company Sagron Energy Corporation		Connection	
Field Basin		Formation Dakota	
Completion Date 6/3/81		Total Depth 7000	
Flow back TD		Elevation 6229 G	
Field or Lease Name Bickson		Well No. 11E	
Core Size 4.500	WL 10.50	# 4.052	Set At 7010
Perforations 1.900	WL 2.90	# 1.610	Set At 6534
From 6556 To 6756		From To	
Type Well - Sample - Environment - G.C. or G.O. Multiple G - G Multiple		Packer Set At 6390	
Producing thru Tubing		County San Juan	
Perforation Temp. °F A		State New Mexico	
L	H	G _{est.} .650	% CO ₂
% H ₂	% H ₂ S	Pressure	Meter from 1 rpm

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
Flow Rate	X	Pressure	Temp.	Flow Rate	Temp.	Pressure	Temp.	Pressure	Temp.	
51						1778 (D)		822 (P)		15 days
1.	.750	74		78		74 (e)	78	825 (P)		3 Hrs.
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{k_p P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _G	Super Compress. Factor F _{sp}	Rate of Flow Q, Mscf
1	12.365		86	.9831	.9608	1.0000	1004
2.							
3.							
4.							
5.							

NO.	P _i	Temp. °F	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbon	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.									
2.									
3.									
4.									
5.									

NO.	P _i	P _w	P _i ²	P _w ²	P _i ² - P _w ²
1	7396	283	80622	80062	560
2.					
3.					
4.					
5.					

$(1) \frac{P_i^2}{P_i^2 - P_w^2} = 1.0256$	$(2) \left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1.0192$
$AQF = Q \left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1023$	

Absolute Open Flow 1023 Mscf @ 15.075	Angle of Slope 4	Slope = .75
Remarks: Trace of condensate after 15 minutes.		

Approved By Division	Conducted By: GEM	Calculated By: R. Kendrick	Checked By:
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