

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4/6/81	
Company Supron Energy Corporation				Connection	
Pool Otero				Formation Chacra	
Completion Date 4/17/81		Total Depth 8500		Plug back TD 7495	
				Elevation 6765 GL	
Casing Size 5.500		ID 17.00		Set At 4.778	
Perforations: From 3632 To 3648		Well No. 6E			
Tubing Size 1.660		ID 2.40		Set At 1.380	
Perforations: From To		Unit I-34-25N-5W		Sec. Twp. Rge.	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple G - G Multiple				Packer Set At 7048	
Producing Thru Tibing				State New Mexico	
Reservoir Temp. °F #		Mean Annual Temp. °F		Enro. Press. - P _g	
L		H		C _g est. .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	Casing 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	
1.			.750	15		51	757	51	755		19 days
2.							15		121		3 Hrs.
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		27	1.0088	.9608	1.0000	324.
2.							
3.							
4.							
5.							

NO.	P _r	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 _r	P _w	P _w ²	P _r ² - P _w ²
1.	133	17689	573672	
2.				
3.				
4.				
5.				

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.0308$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.0230$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 331$

RECEIVED

JUN 7 1981

OIL CON. COMM.

DIST. 3

Absolute Open Flow	331	Mcf @ 15.025	Angle of Slope °	Slope, n	.75
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Remarks: Made some water after 7 minutes and a trace of condensate.

Approved by Division	Conducted By:	Calculated By:	Checked By:
	CRW	AR Kendrick	