

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

☒ Initial ☐ Annual ☐ Special				Test Date 6/8/81	
Company Supron Energy Corporation				Connection	
Field Basin				Formation Dakota	
Completion Date 5/27/81		Total Depth		Elevation	
Form or Lease Name Jicarilla A				Well No. 10E	
Eq. Size 5.50	Wt. 20.00	d 4.778	Set At	Perforations: From 7998 To 8190	
Eq. Size 1.900	Wt. 2.90	d 1.610	Set At 7942	Perforations: From To	
Type Well - Single - Branchhead - G.G. or G.O. Multiple G - G Multiple				Packer Set At 7899	
Producing Thru Tubing		Reservoir Temp. °F B		State New Mexico	
L	H	Gg 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	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							1332 (D)		1134 (M)		12 days
1.			.750	43		64	43	64	1134 (M)		3 Hrs.
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}	Rate of Flow Q, Mscf
1	12.365		55	.9962	.9608	1.0000	651
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 Hydrocarbon	Deg.
2.					Specific Gravity Separator Gas	X X X X X X X X
3.					Specific Gravity Flowing Fluid	
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

NO.	P _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²
1	3025	197	38964	1767372	
2.					
3.					
4.					
5.					

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.0220$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 662$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.0165$

Absolute Open Flow	662	Mscf @ 15.025	Angle of Slope θ	Slope, n	.75
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Remarks: Flowed surges of condensate after 15 minutes - no estimate of volume.

Approved By Division	Conducted By: CRW	Calculated By: R.R. Kaulinski	Checked By:
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