

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 5/23/81	
Company Supron Energy Corporation		Connection	
Foot Ballard Pictured Cliffs		Formation Pictured Cliffs	
Completion Date 5/16/81		Total Depth	Plug Back TD 3197
		Elevation 6838 G	Farm or Lease Name Newsom A
Csg. Size 2.875	WL. 6.40	d 2.441	Set At 3223
Perforations: From 2822 To 2848		Well No. 12	
Trg. Size None	WL.	d	Set At
Perforations: From To		Unit Sec. Twp. Rge. P-3-26N-8W	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single		Packer Set At	
Producing Thru Casing		County San Juan	
Reservoir Temp. °F #		State New Mexico	
Mean Annual Temp. °F		Baro. Press. - P _a	
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									706		7 days
1.			.750	21		52			21	52	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 _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		33	1.0078	.9608	1.0000	395
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	Critical Temperature	Mcf/bbl.	Deg.
1.												
2.												
3.												
4.												
5.												

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²
1	718	41	1690	513834
2				
3				
4				
5				

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.0033$ (2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.0028$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 396$

Absolute Open Flow 396 Mcfd @ 15.025 Angle of Slope θ Slope, n .85

Remarks: Light fog of water and condensate throughout test.

Conducted By: Calculated By: Checked By: