

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7/20/78	
Company Supron Energy Corporation		Connection Southern Union Gathering Company	
Pool Blanco		Formation Mesaverde	
Completion Date 7/20/78		Total Depth 5725	Plug Back TD 5682
Elevation 6413		Farm or Lease Name Payne	
Cas. Size 7.000	Wt. 23.00	d 3284	Set At 3438
Perforations: From 4986 To 5515		Well No. 1-A	
Cas. Size 2.0625	Wt. 3.25	d 4900	Set At 4900
Perforations: From 4980 To 5520		Unit P	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas		Packer Set At	County San Juan
Producing Thru Tubing		Reservoir Temp. °F 12	Baro. Press. - P _a 12
State New Mexico			
L 4890	H	Gg 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
1.	2"		3/4"				794		794		7 Days
2.							215	58°	630		3 Hours
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 Fg	Super Compress. Factor Fpv	Rate of Flow Q, Mcfd
1	12.3650		227	1.0019	0.9608	1.023	2764
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
1										
2.										
3.										
4.										
5.										

P _c 812 P _c ² 659,344			
NO.	P _r	P _w	P _w ² P _c ² - P _w ²
1		642	412,164 247,180
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.6675$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5769$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.0872$$

Absolute Open Flow 5769	Mcfd @ 15.025	Angle of Slope θ	Slope, n 0.75
Remarks:			

Approved by Commission:	Conducted by: John C. Rector	Calculated by: Kenneth E. Roddy	Checked by:
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