

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-177
Revised 10-1

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5-06-81	
Company Supron Energy Corporation				Connection Southern Union Gathering Co.	
Pool Basin				Formation Dakota	
Completion Date 4-15-81		Total Depth 8082 ft.		Plug Back TD 8069 ft.	
Elevation 6541 ft.		Form or Lease Name Nordhaus		Well No. 5-A	
Log No. 7.625	Wt. 26.40	d 6.969	Set At 3710	Perforations From 7894 To 8016	
Log No. 5.500	Wt. 15.50	d 4.950	Set At 3535-8080	Perforations no perforations	
Log No. 2.0625	Wt. 3.25	d 1.750	Set At 7802	Perforations From To	
Type Well - Single - Blindhead - G.C. or G.O. Multiple Dual - Gas - Gas				Packer Set At 7789 ft.	
Producing thru Tubing		Reservoir Temp. °F B		Annual Temp. °F 12	
L 7792		H 0.650		State New Mexico	
Cg 0.650		N ₂		H ₂ S	
Prover		Meter Run		Tops	

FLCW 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	2"		3/4"				1117				14 day
1.							22	65°			3 hr
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 _{sp}	Flow Q, Mscf/d
1	12.3650		34	0.9952	0.9608	1.0000	402
2.							
3.							
4.							
5.							

NO.	P _i	Temp. °R	T _i	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl
1					A.P.I. Gravity of Liquid Hydrocarbons	Dec
2.					Specific Gravity Separator Gas	X X X X X X X X
3.					Specific Gravity Flowing Fluid	X X X X X
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	P.S.I.A.

P _i 1129	P _i ² 1,274,641					
NO.	P _i ²	P _w	P _w ²	P _i ² - P _w ²	(1) $\frac{P_c^2}{P_i^2 - P_w^2} = 1.0078$	(2) $\left[\frac{P_c^2}{P_i^2 - P_w^2} \right]^n = 1.0058$
1			9880	1,264,761		
2						
3						
4						
5						

Absolute Open Flow 404	Mcf/d @ 15.025	Angle of Slope °	Slope, n 0.75
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Approved by Division	Conducted By Steve Moore	Calculated By Ken Dodd	Checked By
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