

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-772
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 8/16/79	
Company Supron Energy Corporation				Connection Gas Company of New Mexico			
Pool Basin Wildhorse				Formation Dakota Gallup		Unit	
Completion Date 6/26/79		Total Depth 7905		Plug Back TD 7885		Elevation 6803 R.K.B.	
Perforations: From 7168 To 7834		Perforations: From 7493 To 7501		Well No. 8		Farm or Lease Name Jicarilla "E"	
Perforations: From 7168 To 7834		Perforations: From 7493 To 7501		Unit C		Sec. Twp. Rge. 15 25N 4W	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Dual - Gas - Gas				Packer Set At 7100		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		State New Mexico	
L 7491		H 0.700		% CO ₂		% H ₂ S	
Gg		% CO 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"					447	60°			14 Days
2							14				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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		26	1.0000	0.9258	1.000	298
2							
3							
4							
5							

NO.	P _t	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										

NO.	P _t	P _w	P _t ²	P _w ²	P _t ² - P _w ²
1	459	210,681			
2			8303	202,378	
3					
4					
5					

(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.0410$		(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.0305$	
AOF = Q $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 307$			

Absolute Open Flow	307	Mcf/d @ 15.025	Angle of Slope	0.75
Remarks				
Approved By Division				
Conducted By		Calculated By		Checked By