

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Form C-127
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 8/17/79	
Company Supron Energy Corporation		Connection Gas Company of New Mexico	
Pool Basin Wild Horse		Formation Dakota Gallup	
Completion Date 7/3/79		Total Depth 7965	Plug Back TD 7928
		Elevation 6873 R.K.B.	Form or Lease Name Jicarilla "A"
Coq. Size 5.500	Wt. 15.50	d 4.950	Set At 7965
		Perforations: From 7214 To 7872	Well No. 8
Fig. Size 1.900	Wt. 2.90	d 1.610	Set At 7560
		Perforations: From 7552 To 7560	Unit Sec. Twp. Rye. E 23 26N 4W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual - Gas - Gas		Packer Set At 7091	County Rio Arriba
Producing Thru Tubing	Reservoir Temp. °F #	Mean Annual Temp. °F	State New Mexico
L 7550	H	Gg 0.700	% 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	2"		3/4"				437				14 Days
1.							20	61°			3 Hours
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, Mcfd
1	12.3650		32	0.9990	0.9258	1.000	366
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 Hydrocarbons _____ Deg.
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. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²
1	449	201,601	12,601	189,000
2.				
3.				
4.				
5.				

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.0667$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 384$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.0496$

Absolute Open Flow	384	Mcf @ 15.025	Angle of Slope @	Slope, n	0.75
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Remarks:	Approved by Division	Conducted By	Calculated By Kenneth E. Roddy	Checked By
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