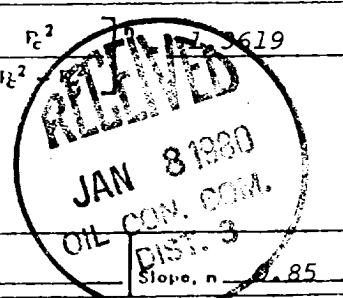


OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2008
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	
Company SUPRON ENERGY CORPORATION				Connection Gas Company of New Mexico			
Pool Tapacito				Formation Pictured Cliffs			
Completion Date 12-12-79		Total Length 6339		Plug Back TD 6282		Elevation 7281 R.K.B.	
Well No. 23		Form or Lease Name Jicarilla "A"					
Core Size 7.000	Wt. 23.00	d 6.366	Perforations 4223	From 5579 To 6201		Well No.	
Core Size 4.500	Wt. 10.50	d 4.052	Perforations 4048-6315	From 5579 To 6201		Well No.	
Core Size 2.0625	Wt. 3.25	d 1.750	Perforations 3935	From 3927 To 3935		Well No.	
Type Well - Single - Drivenhead - G.G. or G.O. Multiple Dual - Gas - Gas				Packer Set At 5529		County Rio Arriba	
Producing thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F 12		State New Mexico	
L 3915	H	G _g 0.620	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _v	Temp. °F	Duration of Flow
SI	2"		3/4"				15 days
1.							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 Ft.	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		84	0.9981	0.9837	1.000	1020
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 _____		
3.					Specific Gravity Flowing Fluid _____		
4.					Critical Pressure _____ P.S.I.A.		
5.					Critical Temperature _____ R		
$P_c^2 = 442$ $P_w^2 = 195,364$ $P_c^2 - P_w^2 = 135,828$					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.4383$		
$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1389$					$Q = 1389$		
NO.	P _r	P _w	P _c	P _c ² - P _w ²			
1		244	59,536	135,828			
2							
3							
4							
5							
Absolute Open Flow 1389 Mcfd @ 15.025					Angle of Slope @ _____		
Remarks:							
Approved by Division		Conducted By		Calculated By		Checked By	



OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Form C-177
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 12/27/79	
Company Supron Energy Corporation		Connection Gas Company of New Mexico	
Pool Blanco		Formation Mesaverde	
Completion Date 12/12/79		Total Depth 6339	Plug Back TD 6282
		Elevation 7281 R.K.B.	
Farm or Lease Name JICARILLA "A"		Well No. 23	
Core Size 4.500	Wt. 23.00 10.50	d 6.366 4.052	Set At 4223 4048-6315
Perforations: From 5579 To 6201		Well No. 23	
Thq. Size 2.0625	Wt. 3.25	d 1.750	Set At 5988
Perforations: From NO PERFORATIONS		Unit P	
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Dual - Gas - Gas		Packer Set At 5529	County Rio Arriba
Producing thru Tubing	Reservoir Temp. °F #	Mean Annual Temp. °F	Baro. Press. - P _a 12
State New Mexico		Unit Sec. Twp. Rge. P 24 26N 4W	
L 5976	H	G _g 0.620	% 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"				1070				8 Days
1.							290	58°			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 Ft	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	12.3650		302	1.0019	0.9837	1.027	3780
2.							
3.							
4.							
5.							

NO.	P _i	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/ubl.
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 _i	P _w	P _i ²	P _w ²	P _i ² - P _w ²
1	1082	1,170,724	682,229	488,495	
2.					
3.					
4.					
5.					

(1) $\frac{P_i^2}{P_i^2 - P_w^2} = 2.3966$

AOF = Q $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 7281$

(2) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1.9261$

Absolute Open Flow	7281	Mcfd @ 15.025	Angle of Slope @	0.75
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OIL CONSERVATION DIVISION
SANTA FE, NEW MEXICO

Approved by Division	Conducted by: Donal Barrett	Calculated by: Kenneth E. Roddy	Checked by:
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OIL CONSERVATION DIVISION
Deviation Tabulation Report

SUPRON ENERGY CORPORATION	Jicarilla "A"	23	24	26-N	4-W
OPERATOR	LEASE	WELL NO.	SEC.	TWP.	RGE.
	DEPTH	DEVIATION			
	250	1- $\frac{1}{4}$ °			
	1258	$\frac{1}{4}$ °			
	3191	1°			
	3661	1°			
	4220	1°			
	4752	1 $\frac{1}{4}$ °			
	5280	1 $\frac{1}{4}$ °			
	5606	$\frac{1}{2}$ °			
	6180	$\frac{1}{2}$ °			
	6339	1°			

Kenneth E. Roddy
Production Superintendent

STATE OF NEW MEXICO }
 } ss
COUNTY OF SAN JUAN }

On this 4th day of January, 19 80, before as personally appeared

Kenneth E. Roddy, to me known to be the person described in
and who executed the foregoing instrument and acknowledged that he executed the same as his
free act and deed.

IN WITNESS WHEREOF, I have set my hand and seal of office on this 4th day
of January, 19 80.

Betty Jo Stuart
Notary Public in and for
San Juan County, New Mexico

My Commission Expires:

August 25, 1980

