

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12-30-81			
Company SUPRON ENERGY CORPORATION				Connection Southern Union Gathering Company			
Pool Basin				Formation Dakota		Unit	
Completion Date 12-14-81		Total Depth 6544		Plug Back TD 6498		Elevation 5756	
Farm or Lease Name Federal "A"							
Csq. Size 4.500	Wt. 10.50	d 4.052	Set At 6544	Perforations: From 6324 To 6441		Well No. 2-E	
Thq. Size 2.375	Wt. 4.70	d 1.995	Set At 6391	Perforations: NO PERFORATIONS		Unit Sec. Twp. Rge. E 25 30N 13W	
Type Well - Single - Bradenhead - G.G. or C.O. Multiple Single				Packer Set At ---		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F ●		Mean Annual Temp. °F		Baro. Press. - P _a 12	
State New Mexico							
L 6381	H	G _g 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"				1638		1636		7 days
1.							208	78°	818		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		220	0.9831	0.9258	1.022	2530
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbon <td>_____ Deg.</td>	_____ Deg.
2.					Specific Gravity Separator Gas <td>XXXXXXX</td>	XXXXXXX
3.					Specific Gravity Flowing Fluid <td>_____</td>	_____
4.					Critical Pressure _____ P.S.I.A.	_____ P.S.I.A.
5.					Critical Temperature _____ R	_____ R

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OIL CON. COM.

DIST. 3

P _c 1650	P _c ² 2,722,500		
NO.	P _t ²	P _w	P _w ²
1		820	672,400
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3280$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2371$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3130$

Absolute Open Flow 3130 Mcfd @ 15.025	Angle of Slope ϕ	Slope, n 0.75
Remarks:		

Approved By Division	Conducted By: Floyd Woodward	Calculated By: Kenneth E. Roddy	Checked By:
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