

OIL CONSERVATION DIVISION

Form C-122
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 8-23-81				
Company SUPRON ENERGY CORPORATION				Connection Southern Union Gathering Company					
Pool Basin				Formation Dakota				Unit	
Completion Date 7-29-81		Total Depth 6300		Plug Back TD 6259		Elevation 5568		Farm or Lease Name Eaton Federal	
Csq. Size 4.500	Wt. 10.50	d 4.052	Set At 6300	Perforations: From 6013 To 6152		Well No. 1-E			
Tsq. Size 2.375	Wt. 4.70	d 1.995	Set At 6150	Perforations: NO PERFORATIONS		Unit Sec. Twp. Rye. D 15 28N 11W			
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single					Packer Set At ---		County San Juan		
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L 6140	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"				933		979		7 days
1.							71	66°	419		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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.3650		71	0.9943	0.9258	1.000	808
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 <td>Deq.</td>	Deq.
2.					Specific Gravity Separator Gas <td>XXXXXXX</td>	XXXXXXX
3.					Specific Gravity Flowing Fluid <td>XXXXXXX</td>	XXXXXXX
4.					Critical Pressure <td>P.S.I.A.</td>	P.S.I.A.
5.					Critical Temperature <td>R</td>	R

P _c 991	P _c ² 982,081	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2333$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1702$	
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		431	185,761	796,320
2				
3				
4				
5				

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 946$

Absolute Open Flow	946	Mcf/d @ 15.025	Angle of Slope @	Slope, n 0.75
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Remarks:

Approved By Division	Conducted By: Clifton Gates	Calculated By: Kenneth E. Roddy	Checked By:
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