



**INCINERATOR AND FLARE STACK SULFUR DIOXIDE  
ANNUAL EMISSION INVENTORY REPORT - NATURAL GAS PROCESSING PLANTS**  
NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY  
DIVISION OF AIR QUALITY  
SFN 50596 (3-2019)

**GENERAL**

Name of Firm or Organization	Permit to Operate Number	Year of Emissions	
Mailing Address	City	State	ZIP Code
Facility Name	Facility Location	Actual Hours of Operation	

**OPERATIONAL DATA**

Component	Quantity
INLET (WET) GAS RECEIVED	Million Cu. Ft.
NATURAL GAS PRODUCED	Million Cu. Ft.
SULFUR RECOVERED	Long Tons

**INCINERATOR/FLARE DATA**

Gas Type	Quantity (Million Cu. Ft.)	Average H <sub>2</sub> S Mole %	Flare or Incineration Duration (Hours)
TAIL GAS INCINERATED			
ACID GAS FLARED			
INLET (WET) GAS FLARED			

**SULFUR DIOXIDE EMISSIONS**

Emission Point	Pounds Per Hour (Average)	Tons*
INCINERATOR STACK		
ACID GAS FLARE STACK		
INLET (WET) GAS FLARE STACK		
* SO <sub>2</sub> emissions may be calculated with the following equation:		TOTAL

$$Tons SO_2 = \frac{Ft^3 \text{ Gas Burned}}{Year} \times \frac{H_2S \text{ mole } \%}{100} \times \frac{1 \text{ lb mole } SO_2}{1 \text{ lb mole } H_2S} \times \frac{1 \text{ lb mole } H_2S}{385.3 \text{ ft}^3 **} \times \frac{64 \text{ lb } SO_2}{1 \text{ lb mole } SO_2} \times \frac{1 \text{ ton}}{2000 \text{ lb}}$$

Provide additional calculations on back or additional sheets as necessary.

\*\* 68°F at standard conditions.

I declare under the penalties of perjury that this report has been examined by me and to the best of my knowledge is a true, correct and complete report.

Print Name of Person Submitting Report	Title	Telephone Number
Signature	Email Address	Date

Return completed form to:  
North Dakota Department of Environmental Quality  
Division of Air Quality  
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Bismarck, ND 58501-1947  
(701)328-5188