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 (9-2021)

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_2S 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_2 emissions may be calculated with the following equation:		TOTAL

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

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 58503-1324
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