

Note: This is a reference cited in AP 42, *Compilation of Air Pollutant Emission Factors, Volume I Stationary Point and Area Sources*. AP42 is located on the EPA web site at www.epa.gov/ttn/chief/ap42/

The file name refers to the reference number, the AP42 chapter and section. The file name "ref02_c01s02.pdf" would mean the reference is from AP42 chapter 1 section 2. The reference may be from a previous version of the section and no longer cited. The primary source should always be checked.

518

**SOURCE TEST REPORT
SULFUR RECOVERY UNIT EFFICIENCY
PHILLIPS PETROLEUM COMPANY
CHATOM, ALABAMA PLANT**

8
TESTS

Prepared for:

**PHILLIPS PETROLEUM COMPANY
Exploration and Production Group
P.O. Box 1967
Houston, Texas 77251**

Prepared by:

**ENVIRONMENTAL SCIENCE & ENGINEERING, INC. (ESE)
P.O. Box 1703
Gainesville, Florida 32602**

ESE No. 3911049-0100-3160

July 1991

108-0009



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P.O. Box 598
Addison, TX 75001
(214) 931-7127

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JAN 15 1990

REGION 7
TEXAS AIR CONTROL BOARD

SOURCE EMISSIONS SURVEY
OF
HILL PETROLEUM COMPANY
SULFUR RECOVERY UNIT STACK
TEXAS CITY, TEXAS

R-264

DECEMBER 1989

FILE NUMBER 89-172

232
Rec'd
7/14/89

RECEIVED
JUN 21 1989
Region 7
Texas Air Control Board

**SULFUR DIOXIDE
COMPLIANCE EMISSIONS TEST OF
THE SULFUR RECOVERY UNIT
AMOCO OIL COMPANY**

**AMOCO OIL COMPANY
TEXAS CITY, TEXAS**

May 4, 1989

**SwL Customer No. 2-0470-20
SwL Project No. 54-8905-253**

**This study was conducted by the
Environmental/Analytical Services Division
of Southwestern Laboratories, Inc.
Houston, Texas**

EMISSIONS COMPLIANCE TEST

for

UNION OIL OF CALIFORNIA
Beaumont Refinery

January 23, 1986

Prepared by:

Michael P. Charney
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*Revised 4/3/86
MK*

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MAR 29 1991

REGION 7
TEXAS AIR CONTROL BOARD

**SOURCE EMISSIONS SURVEY
OF
HILL PETROLEUM COMPANY
SULFUR RECOVERY UNIT STACK
HOUSTON, TEXAS
TACB PERMIT C-2507A**

JANUARY 1991

FILE NUMBER 91-18

RECEIVED

MAR 29 1991

**REGION 7
TEXAS AIR CONTROL BOARD**

**SOURCE EMISSIONS SURVEY
OF
HILL PETROLEUM COMPANY
SULFUR RECOVERY UNIT STACK
HOUSTON, TEXAS
TACB PERMIT C-2507A**

FEBRUARY 1991

FILE NUMBER 91-45A

SOURCE TEST REPORT
SULFUR RECOVERY UNIT EFFICIENCY
COLLETT VENTURES COMPANY
COPELAND PLANT

Prepared for:

COLLETT VENTURES COMPANY
P.O. Box 1267
Chatom, Alabama 36518

Prepared by:

Environmental Science & Engineering, Inc. (ESE)
P.O. Box 1703
Gainesville, Florida 32602

ESE No. 3911039-0100-3160

May 1991

STATE: TEST DATE: 4/11/89

PROCESS(ES) TESTED (SCC):

FACILITY: Exxon CO

ADDRESS:

OBJECTIVE CATEGORIES:

| | | | |
|----------------------------------------|--|-----------------------------------------|---|
| Inclusion of production/operation rate | | Documentation of stack/process tested | y |
| Documentation of Methods 1-4 | | Documentation of test/estimation method | |

RATED ITEMS: [1-3, 3 being highest]

| | | | |
|---------------------------------------------------|--|-----------------------------------------------------------|--|
| Process Description | | Equipment prep documentation | |
| Documentation of control equipment and efficiency | | Thorough field data on standard forms for at least 3 runs | |
| Documentation of Q/A | | Consistency of results | |

... Sulfur produced = (242,762 - 18,054) $\frac{\text{lbs}}{\text{day}}$ = 224,708 $\frac{\text{lbs}}{\text{day}}$

... SO₂ EF = $\frac{36,107 \text{ lbs/day}}{224,708 \text{ lbs/day} \times \frac{1 \text{ ton}}{2000 \text{ lbs}}}$ = 321.37 $\frac{\text{lbs}}{\text{ton}}$

... % S Recovery = 92.56 %

③ ... SO₂ in stack gas = 32,130 $\frac{\text{lbs}}{\text{day}}$

... Sulfur produced = (244,233 - 16,065) $\frac{\text{lbs}}{\text{day}}$ = 228,168 $\frac{\text{lbs}}{\text{day}}$

... SO₂ EF = $\frac{32,130 \text{ lbs/day}}{228,168 \frac{\text{lbs}}{\text{day}} \times \frac{1 \text{ ton}}{2000 \text{ lbs}}}$ = 281.63 $\frac{\text{lbs}}{\text{ton}}$

... % S recovery = 93.42 %

Average ... SO₂ EF = 330.47 $\frac{\text{lbs}}{\text{ton}}$

... % S recovery = 92.38 %

not actual field data
rating = "C"