

Manual of Petroleum Measurement Standards

Chapter 11.1 — Volume Correction Factors

Volume I

**TABLE 5A — Generalized Crude Oils and JP-4
Correction of Observed API
Gravity to API Gravity at 60°F**

**TABLE 6A — Generalized Crude Oils and JP-4
Correction of Volume to 60°F
Against API Gravity at 60°F**

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Measurement Coordination/Industry Affairs

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Manual of Petroleum Measurement Standards

Chapter 11—Physical Properties Data **Section 1—Volume Correction Factors**

Volume I

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Note to User: Both TABLES 5A and 6A are internally numbered beginning with page 1. The actual table begins after the page noted in the contents.

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FOREWORD

The Objectives

The complete collection of the jointly issued API/ASTM-IP tables of which this volume is a part is the result of close cooperation between the American Petroleum Institute (API), the Institute of Petroleum (London) (IP), and the American Society for Testing and Materials (ASTM). The overall objective of this effort was to meet the worldwide need for a uniform and authoritative publication, based on the most accurate information available. This publication serves as a basis for standardized calculations of measured quantities of petroleum fluids regardless of point of origin, destination, or units of measure used by custom or statute. To meet the objective of worldwide standardized measurement practices, the American National Standards Institute (ANSI) and the British Standards Institute (BSI) have also been closely involved nationally, resulting in the acceptance of the revised tables as an American National Standard and as a British Standard. In addition, in their respective capacities as Secretariat of the International Organization for Standardization TC/28 and of TC/28 SC3, ANSI and BSI have been instrumental in progressing the revised tables towards their adoption as an international standard by the International Organization for Standardization.

Historical Notes

The present collection supersedes all previous editions of the petroleum measurement Tables ANSI/ASTM D1250, IP200, and API Standard 2540. Action is being taken in ISO/TC 28 for the corresponding tables listed in ISO R91 and the tables in the addendum to R91 to be superseded by the present revised collection.

In view of the progress of metrication in countries formerly using the British system of weights and measures, demand for the revision of the British edition does not justify the considerable work involved. The present edition will therefore be withdrawn on the same date as the corresponding metric and American editions are published and will not be replaced.

For the metric edition the new standard covers products with densities in the range 610.0 to 1076.0 kg/m³. The tables for densities below this range, covering liquefied petroleum gases, have not been revised.

The original tables, which were developed in the late 1940s, were based on the 1916 data of Bearce and Pepper (1916) and represent thirty years of evolution. The history of this evolution is summarized by Hall et al. (1975).

Present Development

Downer and Inkley (1972) demonstrated that the original tables were not satisfactory representations of many petroleum fluids of current importance. In 1974 the American Petroleum Institute (API) and the United States National Bureau of Standards (NBS) initiated a research program funded by the API which intended to provide the solid scientific base for the development of more accurate, consequently more equitable, measurement tables. The result of this program was precise density data on 349 different fluids representing a wide variety of refined products and 66.8 percent of the world crude production in 1974. The completion of this five-year, \$500,000 project in March 1979 opened the way for modernizing the tables. Using the NBS density data and taking advantage of publications of outstanding technical authorities, a Joint API-ASTM Physical Properties Working

Group produced this present collection of the Petroleum Measurement Tables. The development and results of the work are described by Hankinson et al. (1979).

Conceptual Departure

A major conceptual departure from previous versions is inherent in the recognition of the present and future position of computers in the petroleum industry. The actual Standard represented by this volume and the companion volumes is neither the hardcopy printed tables nor the set of equations used to represent the density data but is an explicit implementation procedure used to develop computer subroutines. The standardization of an implementation procedure implies the standardization of the set of mathematical expressions, including calculational sequence and round-off procedures, used within the computer code. Absolute adherence to the outlined procedures will ensure that all computers and computer codes of the future, meeting the stated specifications and restrictions, will be able to produce identical results. Hence, the published implementation procedures are the primary Standard, the distributed subroutines are the secondary standard, and the published tables are produced for convenience.

Acknowledgments

The task of completing this project could not have been accomplished without many substantial contributions by a considerable number of individuals and companies. It is impossible to single out any specific individuals for special mention. However, included in the introductory material are lists of the officers of the API's Committee on Petroleum Measurement (COPM), the officers of the Joint API/ASTM Committee on Static Petroleum Measurement (COSM), the major contributors from the Institute of Petroleum, and the members of the COSM Physical Properties Working Group.

References

- Bearce, H. W., and E. L. Peffer, "Technology Papers of National Bureau of Standards—Density and Thermal Expansion of American Petroleum Oils," GPO, pp. 125-154, Washington, DC, 1916.
 Downer, L., and F. A. Inkley, *Oil and Gas Journal*, Vol. 70, No. 25, p. 52-55, June 19, 1972.
 Hall, A. H., J. A. Simpson, and J. R. Whetstone, "Investigation of Densities and Thermal Expansion Coefficients Applicable to Petroleum Measurement," SP 7, World Petroleum Congress, Tokyo, 1975.
 Hankinson, R. W., R. G. Segers, T. Krolikowski Buck, and F. P. Gielzecki, *Oil and Gas Journal*, Vol. 77, No. 52, p. 66-70, December 24, 1979.

PREFACE

The Petroleum Measurement Tables, Volume Correction Factors (Volumes I through X), are, with this edition, incorporated into API's *Manual of Petroleum Measurement Standards*. These tables form Section 1 of Chapter 11, "Physical Properties Data." To simplify the transition from the American Society for Testing and Materials' (ASTM) publication of the original tables to API's publication in 1980, the original ASTM numerical designations have been retained for the individual tables.

The numbering system used throughout Volumes I through X corresponds to the numbering system of the *Manual of Petroleum Measurement Standards*. The system consists of a series of fields separated by decimal points. The first two fields (11.1) indicate chapter and section of the manual; the third field gives the ASTM table number. Therefore, although not serial, 11.1.5, 11.1.6, 11.1.23, 11.1.24, 11.1.53, and 11.1.54 are the major headings used. All other headings are subordinate to the three field headings.

Volumes I through IX, which are designed for field use, are arranged on a functional basis rather than on a topical basis.

First Series—Volumes I, II, and III

These three volumes contain TABLES 5 and 6, the tables for the °API, °F, 60°F base series, plus examples to guide the user. Each volume contains specific data as follows:

- Volume I —Generalized Crude Oils (TABLES 5A and 6A)
- Volume II —Generalized Products (TABLES 5B and 6B)
- Volume III —Individual and Special Applications (TABLE 6C) and an appendix describing the equations and constants used and the densities and coefficients of thermal expansion of each NBS sample.

Second Series—Volumes IV, V, and VI

These three volumes contain TABLES 23 and 24, the tables for the relative density, °F, 60°F base series, plus examples to guide the user. Each volume contains specific data as follows:

- Volume IV —Generalized Crude Oils (TABLES 23A and 24A)
- Volume V —Generalized Products (TABLES 23B and 24B)
- Volume VI —Individual and Special Applications (TABLE 24C) and an appendix describing the equations and constants used and the densities and coefficients of thermal expansion of each NBS sample.

Third Series—Volumes VII, VIII, and IX

These three volumes contain TABLES 53 and 54, the tables for the kilogram per cubic metre, °C, 15°C base series, plus examples to guide the user. Each volume contains specific data as follows:

- Volume VII —Generalized Crude Oils (TABLES 53A and 54A)
- Volume VIII—Generalized Products (TABLES 53B and 54B)
- Volume IX —Individual and Special Applications (TABLE 54C) and an appendix describing the equations and constants used and the densities and coefficients of thermal expansion for each NBS sample.

Volume X provides a complete breakdown of the Petroleum Measurement Tables, Volume Correction Factors, and references appropriate volumes for the location of specific tables. Volume X is the key volume of the entire set and contains the actual Standard, the implementation procedures, and the instructions for the

use of the computer subroutines. The history and development of the project are also included in Volume X under 11.1.6.

Inquiries concerning the application of the tables or the computer subroutines should be addressed to—

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COPM—API Committee on Petroleum Measurement

COSM—Joint API/ASTM Subcommittee on Static Petroleum Measurement

NBS—U.S. National Bureau of Standards

ISO—International Organization for Standardization

Chapter 11—Physical Properties Data

SECTION 1—VOLUME CORRECTION FACTORS

11.1.5 TABLES 5A and 5B—Correction of Observed API Gravity to API Gravity at 60°F

TABLES 5A and 5B give values of API gravity for a fluid at 60°F corresponding to API gravities of that fluid at temperatures other than 60°F. It is assumed that the observed gravities are obtained with a glass hydrometer. The gravity measurements at temperatures other than 60°F require two corrections: the first is for the change in volume of the glass hydrometer with temperature and the second is for the change in the volume of the fluid with temperature. The first correction is necessary because the glass hydrometers are calibrated for 60°F. Both corrections are applied in this table.

The data are represented by two tables to maximize accuracy while maintaining convenience of use:

TABLE 5A Generalized Crude Oils and JP-4

TABLE 5B Generalized Products (see Volume II)

The development and intended use of these tables is described in 11.1.6 in Volume X. The parameters K_0 and K_1 may be found in 11.1.6.7.1 in Volume III.

The limits of these tables are illustrated in Figures I-1 and I-2.

11.1.5.1 Application of Tables to JP-4

Since their development, the Crude Oil (A) Tables have been recommended for use with JP-4. This recommendation is based on a small data set within the NBS database in which the tables were developed.

In March 1987, the API/ASTM Joint Committee on Static Petroleum Measurement reviewed data from tests carried by Monsanto under contract to the United States Air Force. The

result of those tests confirms the 1980 and 1984 recommendation that JP-4 appears to be more accurately represented by the Crude Table A; therefore, its use in the general case is recommended.

11.1.5.2 TABLE 5A — GENERALIZED CRUDE OILS AND JP-4 CORRECTION OF OBSERVED API GRAVITY TO API GRAVITY AT 60°F

TABLE 5A gives the values of API gravity at 60°F corresponding to an API hydrometer reading at observed temperatures other than 60°F. In converting the API hydrometer reading at the observed temperature to the corresponding API gravity at 60°F, two corrections are necessary: the first arises from the change in volume of the glass hydrometer with temperature (stem correction) and the second from the change in volume of the crude oil with temperature. Both have been applied in this table. The values of API gravity at 60°F in this table are the result of a computer procedure which is the Standard (see 11.1.5.2 and 11.1.5.3 in Volume X).

The temperature ranges of this table are:

°API	°F
0 to 40	0 to 300
40 to 50	0 to 250
50 to 100	0 to 200

The values of API gravity at 60°F given in this table are based on data from the U.S. National Bureau of Standards and from other published data. Portions of the gravity and temperature ranges represent areas be-

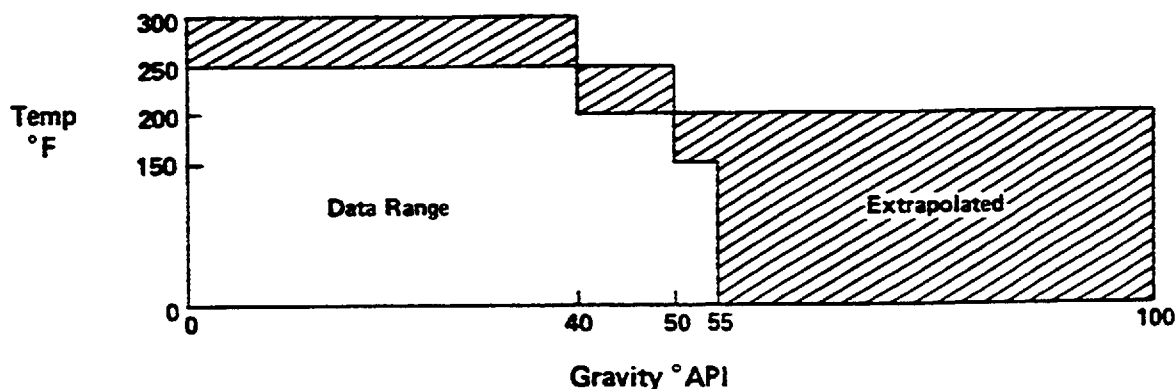


Figure I-1 — Data Limits for TABLE 5A, Generalized Crude Oils

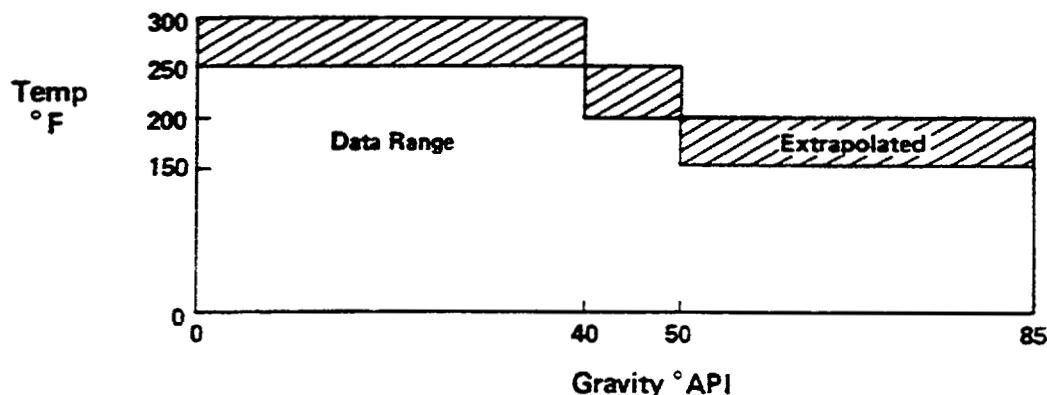


Figure I-2 — Data Limits for TABLE 5B, Generalized Products

yond these data. Thus, mathematical techniques were employed to extrapolate beyond the gravity and temperature ranges of the given data to determine the value of API gravity at 60°F for these areas. These values are denoted by an asterisk (*). Extension of the table beyond the ranges shown is not recommended.

Increments used in this table for determining API gravity at 60°F are 0.5°F and 0.5°API. Interpolation with temperature is not intended since there is no practical method of interpolation that will produce the accuracy obtainable from the Standard. However, interpolation with gravity to one additional significant digit can be reasonably made. Interpolation is not required if the TABLE 5A results are to be used as entries to TABLE 6A.

This table must be entered with an API hydrometer reading measured with a soft glass hydrometer calibrated at 60°F and with an observed temperature.

A correction to the glass hydrometer reading has been incorporated into the table to account for the thermal expansion of glass. The hydrometer constant, as defined in the *Report on the Development, Construction, Calculation, and Preparation of the ASTM-IP Petroleum Measurement Tables* (1960), varies with temperature according to the following:

$$\text{HYC} = i - 0.00001278 (t - 60^\circ\text{F}) - 0.000000062 (t - 60^\circ\text{F})^2$$

Example 1

If the hydrometer reading for a crude oil at 72°F is 33.5°API, what is the API gravity of the crude oil corrected to 60°F?

Enter the table in the column "API Gravity at Observed Temperature," headed 33.5°API. Read down to an observed "Temperature" of 72°F. The corresponding API gravity at 60°F is 32.6°API.

Example 2

If the hydrometer reading for a crude oil at 42°F is 31.7°API, what is the API gravity of the crude oil corrected to 60°F?

Round 31.7°API to 31.5°API, the nearest 0.5°API increment. Since the result is to be used as an input to TABLE 6A, interpolation is not required. Enter the table in the column "API Gravity at Observed Temperature," headed 31.5°API. Read down to an observed "Temperature" of 42°F. The corresponding API gravity at 60°F is 32.8°API.

Example 3

If the hydrometer reading for crude oil at 42°F is 4.9°API, what is the API gravity of the crude oil corrected to 60°F?

1. Enter the table in the column "API Gravity at Observed Temperature," headed 4.5°API. Read down to an observed "Temperature" of 42°F. The corresponding API gravity at 60°F is 5.2°API.
2. Likewise note that for 5.0°API, the corresponding API gravity at 60°F is 5.8°API.
3. Interpolate on gravity

$$\begin{aligned} (5.2 - 5.8)/(4.5 - 5.0) &= 1.2 \\ 1.2 * (4.9 - 5.0) &= -0.12 \end{aligned}$$

4. Then, the gravity at 60°F corresponding to 4.9°API at 42°F is 5.8 minus 0.12 or 5.68°API.

(Text continues on page 15 following TABLE 5A.)

API/ASTM-IP PETROLEUM MEASUREMENT TABLE

TABLE 5A, GENERALIZED CRUDE OILS AND JP-4

API GRAVITY CORRECTION TO 60 DEGREES F

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THIS TABLE MUST BE ENTERED WITH API GRAVITIES MEASURED WITH A SOFT GLASS HYDROMETER OR PYKNOMETER CALIBRATED AT 60 DEGREES F.

TABLE 5A. GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F										TEMP. F																						
	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0		
0.0	2.3	2.8	3.4	3.9	4.4	4.9	5.5	6.0	6.5	7.1	7.6	8.1	8.6	9.1	9.6	10.1	10.6	11.1	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	
0.5	2.3	2.8	3.3	3.9	4.4	4.9	5.4	6.0	6.5	7.0	7.6	8.1	8.6	9.1	9.6	10.1	10.6	11.1	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	
1.0	2.3	2.8	3.3	3.8	4.4	4.9	5.4	6.0	6.5	7.0	7.5	8.1	8.6	9.1	9.6	10.1	10.6	11.1	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	
1.5	2.2	2.8	3.3	3.8	4.3	4.9	5.4	5.9	6.5	7.0	7.5	8.1	8.6	9.1	9.6	10.1	10.6	11.1	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	
2.0	2.2	2.7	3.3	3.8	4.3	4.9	5.4	5.9	6.4	7.0	7.5	8.1	8.6	9.1	9.6	10.1	10.6	11.1	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	
2.5	2.2	2.7	3.3	3.8	4.3	4.8	5.4	5.9	6.4	6.9	7.5	8.1	8.6	9.1	9.6	10.1	10.6	11.1	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	
3.0	2.2	2.7	3.2	3.8	4.3	4.8	5.3	5.9	6.4	6.9	7.4	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	
3.5	2.2	2.7	3.2	3.7	4.3	4.8	5.3	5.8	6.4	6.9	7.4	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	
4.0	2.1	2.7	3.2	3.7	4.2	4.8	5.3	5.8	6.4	6.9	7.4	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	
4.5	2.1	2.6	3.2	3.7	4.2	4.7	5.3	5.8	6.3	6.9	7.4	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	
5.0	2.1	2.6	3.2	3.7	4.2	4.7	5.3	5.8	6.3	6.8	7.4	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	
5.5	2.1	2.6	3.1	3.7	4.2	4.7	5.2	5.8	6.3	6.8	7.3	7.9	8.4	8.9	9.4	9.9	10.4	10.9	11.4	11.9	12.4	12.9	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.4	17.9	18.4
6.0	2.1	2.6	3.1	3.6	4.2	4.7	5.2	5.7	6.3	6.8	7.3	7.8	8.3	8.8	9.3	9.8	10.3	10.8	11.3	11.8	12.3	12.8	13.3	13.8	14.3	14.8	15.3	15.8	16.3	16.8	17.3	17.8	18.3
6.5	2.0	2.6	3.1	3.6	4.1	4.7	5.2	5.7	6.2	6.8	7.3	7.8	8.3	8.8	9.3	9.8	10.3	10.8	11.3	11.8	12.3	12.8	13.3	13.8	14.3	14.8	15.3	15.8	16.3	16.8	17.3	17.8	18.3
7.0	2.0	2.5	3.1	3.6	4.1	4.6	5.2	5.7	6.2	6.7	7.3	7.8	8.3	8.8	9.3	9.8	10.3	10.8	11.3	11.8	12.3	12.8	13.3	13.8	14.3	14.8	15.3	15.8	16.3	16.8	17.3	17.8	18.3
7.5	2.0	2.5	3.1	3.6	4.1	4.6	5.1	5.7	6.2	6.7	7.3	7.8	8.3	8.8	9.3	9.8	10.3	10.8	11.3	11.8	12.3	12.8	13.3	13.8	14.3	14.8	15.3	15.8	16.3	16.8	17.3	17.8	18.3
8.0	2.0	2.5	3.0	3.6	4.1	4.6	5.1	5.7	6.2	6.7	7.2	7.8	8.3	8.8	9.3	9.8	10.3	10.8	11.3	11.8	12.3	12.8	13.3	13.8	14.3	14.8	15.3	15.8	16.3	16.8	17.3	17.8	18.3
8.5	2.0	2.5	3.0	3.5	4.1	4.6	5.1	5.6	6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.7	10.2	10.7	11.2	11.7	12.2	12.7	13.2	13.7	14.2	14.7	15.2	15.7	16.2	16.7	17.2	17.7	18.2
9.0	1.9	2.5	3.0	3.5	4.0	4.6	5.1	5.6	6.1	6.7	7.2	7.7	8.2	8.7	9.2	9.7	10.2	10.7	11.2	11.7	12.2	12.7	13.2	13.7	14.2	14.7	15.2	15.7	16.2	16.7	17.2	17.7	18.2
9.5	1.9	2.4	3.0	3.5	4.0	4.5	5.1	5.6	6.1	6.6	7.2	7.7	8.2	8.7	9.2	9.7	10.2	10.7	11.2	11.7	12.2	12.7	13.2	13.7	14.2	14.7	15.2	15.7	16.2	16.7	17.2	17.7	18.2
10.0	1.9	2.4	3.0	3.5	4.0	4.5	5.0	5.6	6.1	6.6	7.1	7.7	8.2	8.7	9.2	9.7	10.2	10.7	11.2	11.7	12.2	12.7	13.2	13.7	14.2	14.7	15.2	15.7	16.2	16.7	17.2	17.7	18.2
10.5	1.9	2.4	2.9	3.5	4.0	4.5	5.0	5.5	6.1	6.6	7.1	7.6	8.1	8.6	9.1	9.6	10.1	10.6	11.1	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1
11.0	1.9	2.4	2.9	3.4	4.0	4.5	5.0	5.5	6.0	6.6	7.1	7.6	8.1	8.6	9.1	9.6	10.1	10.6	11.1	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1
11.5	1.8	2.4	2.9	3.4	3.9	4.5	5.0	5.5	6.0	6.6	7.1	7.6	8.1	8.6	9.1	9.6	10.1	10.6	11.1	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1
12.0	1.8	2.3	2.9	3.4	3.9	4.4	5.0	5.5	6.0	6.5	7.1	7.6	8.1	8.6	9.1	9.6	10.1	10.6	11.1	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1
12.5	1.8	2.3	2.9	3.4	3.9	4.4	4.9	5.5	6.0	6.5	7.0	7.6	8.1	8.6	9.1	9.6	10.1	10.6	11.1	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1
13.0	1.8	2.3	2.8	3.4	3.9	4.4	4.9	5.4	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0
13.5	1.8	2.3	2.8	3.3	3.9	4.4	4.9	5.4	5.9	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0
14.0	1.7	2.3	2.8	3.3	3.8	4.4	4.9	5.4	5.9	6.4	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0
14.5	1.7	2.2	2.8	3.3	3.8	4.3	4.9	5.4	5.9	6.4	6.9	7.4	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0
15.0	1.7	2.2	2.8	3.3	3.8	4.3	4.8	5.4	5.9	6.4	6.9	7.4	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0

API GRAVITY = 0.0 TO 5.0

TABLE 5A. GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F						TEMP. F					
	0.0	0.5	1.0	1.5	2.0	2.5						
15.0	1.7	2.2	2.8	3.3	3.8	4.3	4.8	5.4	5.9	6.4	6.9	15.0
15.5	1.7	2.2	2.7	3.3	3.8	4.3	4.8	5.3	5.9	6.4	6.9	15.5
16.0	1.7	2.2	2.7	3.2	3.8	4.3	4.8	5.3	5.8	6.4	6.9	16.0
16.5	1.7	2.2	2.7	3.2	3.7	4.3	4.8	5.3	5.8	6.3	6.9	16.5
17.0	1.6	2.2	2.7	3.2	3.7	4.2	4.8	5.3	5.8	6.3	6.8	17.0
17.5	1.6	2.1	2.7	3.2	3.7	4.2	4.7	5.3	5.8	6.3	6.8	17.5
18.0	1.6	2.1	2.6	3.2	3.7	4.2	4.7	5.2	5.7	6.3	6.8	18.0
18.5	1.6	2.1	2.6	3.1	3.7	4.2	4.7	5.2	5.7	6.2	6.8	18.5
19.0	1.6	2.1	2.6	3.1	3.6	4.1	4.7	5.2	5.7	6.2	6.7	19.0
19.5	1.5	2.1	2.6	3.1	3.6	4.1	4.6	5.2	5.7	6.2	6.7	19.5
20.0	1.5	2.0	2.6	3.1	3.6	4.1	4.6	5.1	5.7	6.2	6.7	20.0
20.5	1.5	2.0	2.5	3.1	3.6	4.1	4.6	5.1	5.6	6.2	6.7	20.5
21.0	1.5	2.0	2.5	3.0	3.5	4.1	4.6	5.1	5.6	6.1	6.7	21.0
21.5	1.5	2.0	2.5	3.0	3.5	4.0	4.6	5.1	5.6	6.1	6.6	21.5
22.0	1.4	2.0	2.5	3.0	3.5	4.0	4.5	5.1	5.6	6.1	6.6	22.0
22.5	1.4	1.9	2.5	3.0	3.5	4.0	4.5	5.0	5.6	6.1	6.6	22.5
23.0	1.4	1.9	2.4	3.0	3.5	4.0	4.5	5.0	5.5	6.1	6.6	23.0
23.5	1.4	1.9	2.4	2.9	3.4	4.0	4.5	5.0	5.5	6.0	6.6	23.5
24.0	1.4	1.9	2.4	2.9	3.4	3.9	4.5	5.0	5.5	6.0	6.5	24.0
24.5	1.3	1.9	2.4	2.9	3.4	3.9	4.4	5.0	5.5	6.0	6.5	24.5
25.0	1.3	1.8	2.4	2.9	3.4	3.9	4.4	4.9	5.5	6.0	6.5	25.0
25.5	1.3	1.8	2.3	2.9	3.4	3.9	4.4	4.9	5.4	5.9	6.5	25.5
26.0	1.3	1.8	2.3	2.8	3.3	3.9	4.4	4.9	5.4	5.9	6.4	26.0
26.5	1.3	1.8	2.3	2.8	3.3	3.8	4.4	4.9	5.4	5.9	6.4	26.5
27.0	1.2	1.8	2.3	2.8	3.3	3.8	4.3	4.9	5.4	5.9	6.4	27.0
27.5	1.2	1.7	2.3	2.8	3.3	3.8	4.3	4.8	5.3	5.9	6.4	27.5
28.0	1.2	1.7	2.2	2.8	3.3	3.8	4.3	4.8	5.3	5.8	6.4	28.0
28.5	1.2	1.7	2.2	2.7	3.2	3.8	4.3	4.8	5.3	5.8	6.3	28.5
29.0	1.2	1.7	2.2	2.7	3.2	3.7	4.3	4.8	5.3	5.8	6.3	29.0
29.5	1.2	1.7	2.2	2.7	3.2	3.7	4.2	4.7	5.3	5.8	6.3	29.5
30.0	1.1	1.6	2.2	2.7	3.2	3.7	4.2	4.7	5.2	5.8	6.3	30.0

API GRAVITY = 0.0 TO 5.0

API GRAVITY = 0.0 TO 5.0

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F						4.0	4.5	5.0	TEMP. F
	1.5	2.0	2.5	3.0	3.5	4.0				
30.0	1.1	1.6	2.2	2.7	3.2	3.7	4.2	4.7	5.2	30.0
30.5	1.1	1.6	2.1	2.7	3.2	3.7	4.2	4.7	5.2	30.5
31.0	1.1	1.6	2.1	2.6	3.1	3.7	4.2	4.7	5.2	31.0
31.5	1.1	1.6	2.1	2.6	3.1	3.6	4.2	4.7	5.2	31.5
32.0	1.1	1.6	2.1	2.6	3.1	3.6	4.1	4.6	5.2	32.0
32.5	1.0	1.5	2.1	2.6	3.1	3.6	4.1	4.6	5.1	32.5
33.0	1.0	1.5	2.0	2.6	3.1	3.6	4.1	4.6	5.1	33.0
33.5	1.0	1.5	2.0	2.5	3.0	3.6	4.1	4.6	5.1	33.5
34.0	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.6	5.1	34.0
34.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.1	34.5
35.0	0.9	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	35.0
35.5	0.9	1.4	1.9	2.5	3.0	3.5	4.0	4.5	5.0	35.5
36.0	0.9	1.4	1.9	2.4	2.9	3.5	4.0	4.5	5.0	36.0
36.5	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.5	5.0	36.5
37.0	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	4.9	37.0
37.5	0.8	1.4	1.9	2.4	2.9	3.4	3.9	4.4	4.9	37.5
38.0	0.8	1.3	1.8	2.4	2.9	3.4	3.9	4.4	4.9	38.0
38.5	0.8	1.3	1.8	2.3	2.8	3.4	3.9	4.4	4.9	38.5
39.0	0.8	1.3	1.8	2.3	2.8	3.3	3.8	4.4	4.9	39.0
39.5	0.8	1.3	1.8	2.3	2.8	3.3	3.8	4.3	4.8	39.5
40.0	0.8	1.3	1.8	2.3	2.8	3.3	3.8	4.3	4.8	40.0
40.5	0.7	1.2	1.7	2.3	2.8	3.3	3.8	4.3	4.8	40.5
41.0	0.7	1.2	1.7	2.2	2.7	3.3	3.8	4.3	4.8	41.0
41.5	0.7	1.2	1.7	2.2	2.7	3.2	3.7	4.3	4.8	41.5
42.0	0.7	1.2	1.7	2.2	2.7	3.2	3.7	4.2	4.7	42.0
42.5	0.7	1.2	1.7	2.2	2.7	3.2	3.7	4.2	4.7	42.5
43.0	0.6	1.1	1.7	2.2	2.7	3.2	3.7	4.2	4.7	43.0
43.5	0.6	1.1	1.6	2.1	2.6	3.2	3.7	4.2	4.7	43.5
44.0	0.6	1.1	1.6	2.1	2.6	3.1	3.6	4.2	4.7	44.0
44.5	0.6	1.1	1.6	2.1	2.6	3.1	3.6	4.1	4.6	44.5
45.0	0.6	1.1	1.6	2.1	2.6	3.1	3.6	4.1	4.6	45.0

API GRAVITY = 0.0 TO 5.0

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F							4.0	4.5	5.0	TEMP. F
	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5			
45.0	0.6	1.1	1.6	2.1	2.6	3.1	3.6	4.1	4.6	5.1	45.0
45.5	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.6	5.1	45.5
46.0	0.5	1.0	1.5	2.0	2.5	3.1	3.6	4.1	4.6	5.1	46.0
46.5	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.6	5.1	46.5
47.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	47.0
47.5	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	47.5
48.0	0.4	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	48.0
48.5	0.4	0.9	1.4	1.9	2.5	3.0	3.5	4.0	4.5	5.0	48.5
49.0	0.4	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	5.0	49.0
49.5	0.4	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	4.9	49.5
50.0	0.4	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	4.9	50.0
50.5	0.4	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	4.9	50.5
51.0	0.3	0.8	1.3	1.8	2.4	2.9	3.4	3.9	4.4	4.9	51.0
51.5	0.3	0.8	1.3	1.8	2.3	2.8	3.3	3.8	4.3	4.9	51.5
52.0	0.3	0.8	1.3	1.8	2.3	2.8	3.3	3.8	4.3	4.8	52.0
52.5	0.3	0.8	1.3	1.8	2.3	2.8	3.3	3.8	4.3	4.8	52.5
53.0	0.3	0.8	1.3	1.8	2.3	2.8	3.3	3.8	4.3	4.8	53.0
53.5	0.2	0.7	1.2	1.8	2.3	2.8	3.3	3.8	4.3	4.8	53.5
54.0	0.2	0.7	1.2	1.7	2.2	2.7	3.2	3.7	4.2	4.7	54.0
54.5	0.2	0.7	1.2	1.7	2.2	2.7	3.2	3.7	4.2	4.7	54.5
55.0	0.2	0.7	1.2	1.7	2.2	2.7	3.2	3.7	4.2	4.7	55.0
55.5	0.2	0.7	1.2	1.7	2.2	2.7	3.2	3.7	4.2	4.7	55.5
56.0	0.1	0.7	1.2	1.7	2.2	2.7	3.2	3.7	4.2	4.7	56.0
56.5	0.1	0.6	1.1	1.6	2.1	2.6	3.1	3.6	4.1	4.6	56.5
57.0	0.1	0.6	1.1	1.6	2.1	2.6	3.1	3.6	4.1	4.6	57.0
57.5	0.1	0.6	1.1	1.6	2.1	2.6	3.1	3.6	4.1	4.6	57.5
58.0	0.1	0.6	1.1	1.6	2.1	2.6	3.1	3.6	4.1	4.6	58.0
58.5	0.1	0.6	1.1	1.6	2.1	2.6	3.1	3.6	4.1	4.6	58.5
59.0	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	59.0
59.5	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	59.5
60.0	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	60.0

API GRAVITY = 0.0 TO 5.0

TABLE 5A. GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	0.0	0.5	1.0	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F					4.0	4.5	5.0	TEMP. F
				1.5	2.0	2.5	3.0	3.5				
60.0	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	60.0
60.5	-	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	60.5
61.0	-	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	61.0
61.5	-	0.4	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	4.9	61.5
62.0	-	0.4	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	4.9	62.0
62.5	-	0.4	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	4.9	62.5
63.0	-	0.4	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	4.9	63.0
63.5	-	0.4	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	4.9	63.5
64.0	-	0.3	0.8	1.3	1.8	2.3	2.8	3.3	3.8	4.3	4.8	64.0
64.5	-	0.3	0.8	1.3	1.8	2.3	2.8	3.3	3.8	4.3	4.8	64.5
65.0	-	0.3	0.8	1.3	1.8	2.3	2.8	3.3	3.8	4.3	4.8	65.0
65.5	-	0.3	0.8	1.3	1.8	2.3	2.8	3.3	3.8	4.3	4.8	65.5
66.0	-	0.3	0.8	1.3	1.8	2.3	2.8	3.3	3.8	4.3	4.8	66.0
66.5	-	0.3	0.8	1.3	1.7	2.2	2.7	3.2	3.7	4.2	4.7	66.5
67.0	-	0.2	0.7	1.2	1.7	2.2	2.7	3.2	3.7	4.2	4.7	67.0
67.5	-	0.2	0.7	1.2	1.7	2.2	2.7	3.2	3.7	4.2	4.7	67.5
68.0	-	0.2	0.7	1.2	1.7	2.2	2.7	3.2	3.7	4.2	4.7	68.0
68.5	-	0.2	0.7	1.2	1.7	2.2	2.7	3.2	3.7	4.2	4.6	68.5
69.0	-	0.2	0.7	1.2	1.7	2.1	2.6	3.1	3.6	4.1	4.6	69.0
69.5	-	0.1	0.6	1.1	1.6	2.1	2.6	3.1	3.6	4.1	4.6	69.5
70.0	-	0.1	0.6	1.1	1.6	2.1	2.6	3.1	3.6	4.1	4.6	70.0
70.5	-	0.1	0.6	1.1	1.6	2.1	2.6	3.1	3.6	4.1	4.6	70.5
71.0	-	0.1	0.6	1.1	1.6	2.1	2.6	3.1	3.6	4.1	4.5	71.0
71.5	-	0.1	0.6	1.1	1.6	2.1	2.5	3.0	3.5	4.0	4.5	71.5
72.0	-	0.1	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	72.0
72.5	-	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	72.5
73.0	-	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	73.0
73.5	-	-	0.5	1.0	1.5	2.0	2.5	3.0	3.5	3.9	4.4	73.5
74.0	-	-	0.5	1.0	1.5	2.0	2.4	2.9	3.4	3.9	4.4	74.0
74.5	-	-	0.5	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	74.5
75.0	-	-	0.4	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	75.0

API GRAVITY = 0.0 TO 5.0

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F						TEMP. F
	0.0	0.5	1.0	1.5	2.0	2.5	
75.0	-	-	0.4	0.9	1.4	1.9	2.9
75.5	-	-	0.4	0.9	1.4	1.9	2.9
76.0	-	-	0.4	0.9	1.4	1.9	2.9
76.5	-	-	0.4	0.9	1.4	1.9	2.8
77.0	-	-	0.4	0.9	1.3	1.8	2.8
77.5	-	-	0.3	0.8	1.3	1.8	2.8
78.0	-	-	0.3	0.8	1.3	1.8	2.8
78.5	-	-	0.3	0.8	1.3	1.8	2.8
79.0	-	-	0.3	0.8	1.3	1.8	2.7
79.5	-	-	0.3	0.8	1.2	1.7	2.7
80.0	-	-	0.2	0.7	1.2	1.7	2.7
80.5	-	-	0.2	0.7	1.2	1.7	2.7
81.0	-	-	0.2	0.7	1.2	1.7	2.7
81.5	-	-	0.2	0.7	1.2	1.7	2.6
82.0	-	-	0.2	0.7	1.2	1.6	2.6
82.5	-	-	0.2	0.6	1.1	1.6	2.6
83.0	-	-	0.1	0.6	1.1	1.6	2.6
83.5	-	-	0.1	0.6	1.1	1.6	2.6
84.0	-	-	0.1	0.6	1.1	1.6	2.5
84.5	-	-	0.1	0.6	1.1	1.5	2.5
85.0	-	-	0.1	0.6	1.0	1.5	2.5
85.5	-	-	0.0	0.5	1.0	1.5	2.5
86.0	-	-	0.0	0.5	1.0	1.5	2.5
86.5	-	-	0.0	0.5	1.0	1.5	2.4
87.0	-	-	-	0.5	1.0	1.5	2.4
87.5	-	-	-	0.5	0.9	1.4	2.4
88.0	-	-	-	0.4	0.9	1.4	2.4
88.5	-	-	-	0.4	0.9	1.4	2.4
89.0	-	-	-	0.4	0.9	1.4	2.3
89.5	-	-	-	0.4	0.9	1.4	2.3
90.0	-	-	-	0.4	0.8	1.3	2.3
90.5	-	-	-	0.4	0.8	1.3	2.3
91.0	-	-	-	0.4	0.8	1.3	2.3
91.5	-	-	-	0.4	0.8	1.3	2.3
92.0	-	-	-	0.4	0.8	1.3	2.3
92.5	-	-	-	0.4	0.8	1.3	2.3
93.0	-	-	-	0.4	0.8	1.3	2.3
93.5	-	-	-	0.4	0.8	1.3	2.3
94.0	-	-	-	0.4	0.8	1.3	2.3
94.5	-	-	-	0.4	0.8	1.3	2.3
95.0	-	-	-	0.4	0.8	1.3	2.3
95.5	-	-	-	0.4	0.8	1.3	2.3
96.0	-	-	-	0.4	0.8	1.3	2.3
96.5	-	-	-	0.4	0.8	1.3	2.3
97.0	-	-	-	0.4	0.8	1.3	2.3
97.5	-	-	-	0.4	0.8	1.3	2.3
98.0	-	-	-	0.4	0.8	1.3	2.3
98.5	-	-	-	0.4	0.8	1.3	2.3
99.0	-	-	-	0.4	0.8	1.3	2.3
99.5	-	-	-	0.4	0.8	1.3	2.3
100.0	-	-	-	0.4	0.8	1.3	2.3

API GRAVITY = 0.0 TO 5.0

TABLE 5A. GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	0.0	0.5	1.0	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F					4.0	4.5	5.0	TEMP. F
				1.5	2.0	2.5	3.0	3.5				
90.0	-	-	-	0.4	0.8	1.3	1.8	2.3	2.8	3.3	3.8	90.0
90.5	-	-	-	0.3	0.8	1.3	1.8	2.3	2.8	3.3	3.7	90.5
91.0	-	-	-	0.3	0.8	1.3	1.8	2.3	2.8	3.2	3.7	91.0
91.5	-	-	-	0.3	0.8	1.3	1.8	2.3	2.7	3.2	3.7	91.5
92.0	-	-	-	0.3	0.8	1.3	1.7	2.2	2.7	3.2	3.7	92.0
92.5	-	-	-	0.3	0.8	1.2	1.7	2.2	2.7	3.2	3.7	92.5
93.0	-	-	-	0.3	0.7	1.2	1.7	2.2	2.7	3.2	3.6	93.0
93.5	-	-	-	0.2	0.7	1.2	1.7	2.2	2.7	3.1	3.6	93.5
94.0	-	-	-	0.2	0.7	1.2	1.7	2.2	2.6	3.1	3.6	94.0
94.5	-	-	-	0.2	0.7	1.2	1.7	2.1	2.6	3.1	3.6	94.5
95.0	-	-	-	0.2	0.7	1.1	1.6	2.1	2.6	3.1	3.6	95.0
95.5	-	-	-	0.2	0.6	1.1	1.6	2.1	2.6	3.1	3.5	95.5
96.0	-	-	-	0.1	0.6	1.1	1.6	2.1	2.6	3.0	3.5	96.0
96.5	-	-	-	0.1	0.6	1.1	1.6	2.1	2.5	3.0	3.5	96.5
97.0	-	-	-	0.1	0.6	1.1	1.6	2.0	2.5	3.0	3.5	97.0
97.5	-	-	-	0.1	0.6	1.1	1.5	2.0	2.5	3.0	3.5	97.5
98.0	-	-	-	0.1	0.5	1.0	1.5	2.0	2.5	3.0	3.4	98.0
98.5	-	-	-	0.0	0.5	1.0	1.5	2.0	2.5	2.9	3.4	98.5
99.0	-	-	-	0.0	0.5	1.0	1.5	2.0	2.4	2.9	3.4	99.0
99.5	-	-	-	0.0	0.5	1.0	1.5	1.9	2.4	2.9	3.4	99.5
100.0	-	-	-	-	0.5	1.0	1.4	1.9	2.4	2.9	3.4	100.0
100.5	-	-	-	-	0.5	0.9	1.4	1.9	2.4	2.9	3.3	100.5
101.0	-	-	-	-	0.4	0.9	1.4	1.9	2.4	2.8	3.3	101.0
101.5	-	-	-	-	0.4	0.9	1.4	1.9	2.3	2.8	3.3	101.5
102.0	-	-	-	-	0.4	0.9	1.4	1.8	2.3	2.8	3.3	102.0
102.5	-	-	-	-	0.4	0.9	1.3	1.8	2.3	2.8	3.3	102.5
103.0	-	-	-	-	0.4	0.8	1.3	1.8	2.3	2.8	3.2	103.0
103.5	-	-	-	-	0.3	0.8	1.3	1.8	2.3	2.7	3.2	103.5
104.0	-	-	-	-	0.3	0.8	1.3	1.8	2.2	2.7	3.2	104.0
104.5	-	-	-	-	0.3	0.8	1.3	1.7	2.2	2.7	3.2	104.5
105.0	-	-	-	-	0.3	0.8	1.3	1.7	2.2	2.7	3.2	105.0

API GRAVITY = 0.0 TO 5.0

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	TEMP. F
	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F											
105.0	-	-	-	-	0.3	0.8	1.3	1.7	2.2	2.7	3.2	105.0
105.5	-	-	-	-	0.3	0.8	1.2	1.7	2.2	2.7	3.2	105.5
106.0	-	-	-	-	0.3	0.7	1.2	1.7	2.2	2.7	3.1	106.0
106.5	-	-	-	-	0.2	0.7	1.2	1.7	2.2	2.6	3.1	106.5
107.0	-	-	-	-	0.2	0.7	1.2	1.7	2.1	2.6	3.1	107.0
107.5	-	-	-	-	0.2	0.7	1.2	1.6	2.1	2.6	3.1	107.5
108.0	-	-	-	-	0.2	0.7	1.1	1.6	2.1	2.6	3.1	108.0
108.5	-	-	-	-	0.2	0.6	1.1	1.6	2.1	2.6	3.0	108.5
109.0	-	-	-	-	0.1	0.6	1.1	1.6	2.1	2.5	3.0	109.0
109.5	-	-	-	-	0.1	0.6	1.1	1.6	2.0	2.5	3.0	109.5
110.0	-	-	-	-	0.1	0.6	1.1	1.5	2.0	2.5	3.0	110.0
110.5	-	-	-	-	0.1	0.6	1.0	1.5	2.0	2.5	3.0	110.5
111.0	-	-	-	-	0.1	0.5	1.0	1.5	2.0	2.5	2.9	111.0
111.5	-	-	-	-	0.0	0.5	1.0	1.5	2.0	2.4	2.9	111.5
112.0	-	-	-	-	0.0	0.5	1.0	1.5	1.9	2.4	2.9	112.0
112.5	-	-	-	-	0.0	0.5	1.0	1.4	1.9	2.4	2.9	112.5
113.0	-	-	-	-	-	0.5	0.9	1.4	1.9	2.4	2.9	113.0
113.5	-	-	-	-	-	0.5	0.9	1.4	1.9	2.4	2.8	113.5
114.0	-	-	-	-	-	0.4	0.9	1.4	1.9	2.3	2.8	114.0
114.5	-	-	-	-	-	0.4	0.9	1.4	1.8	2.3	2.8	114.5
115.0	-	-	-	-	-	0.4	0.9	1.3	1.8	2.3	2.8	115.0
115.5	-	-	-	-	-	0.4	0.9	1.3	1.8	2.3	2.8	115.5
116.0	-	-	-	-	-	0.4	0.8	1.3	1.8	2.3	2.7	116.0
116.5	-	-	-	-	-	0.3	0.8	1.3	1.8	2.2	2.7	116.5
117.0	-	-	-	-	-	0.3	0.8	1.3	1.7	2.2	2.7	117.0
117.5	-	-	-	-	-	0.3	0.8	1.3	1.7	2.2	2.7	117.5
118.0	-	-	-	-	-	0.3	0.8	1.2	1.7	2.2	2.7	118.0
118.5	-	-	-	-	-	0.3	0.7	1.2	1.7	2.2	2.6	118.5
119.0	-	-	-	-	-	0.2	0.7	1.2	1.7	2.1	2.6	119.0
119.5	-	-	-	-	-	0.2	0.7	1.2	1.7	2.1	2.6	119.5
120.0	-	-	-	-	-	0.2	0.7	1.2	1.6	2.1	2.6	120.0

API GRAVITY = 0.0 TO 5.0

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F											TEMP. F
	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	
120.0	-	-	-	-	-	0.2	0.7	1.2	1.6	2.1	2.6	120.0
120.5	-	-	-	-	-	0.2	0.7	1.1	1.6	2.1	2.6	120.5
121.0	-	-	-	-	-	0.2	0.6	1.1	1.6	2.1	2.5	121.0
121.5	-	-	-	-	-	0.2	0.6	1.1	1.6	2.0	2.5	121.5
122.0	-	-	-	-	-	0.1	0.6	1.1	1.6	2.0	2.5	122.0
122.5	-	-	-	-	-	0.1	0.6	1.1	1.5	2.0	2.5	122.5
123.0	-	-	-	-	-	0.1	0.6	1.0	1.5	2.0	2.5	123.0
123.5	-	-	-	-	-	0.1	0.6	1.0	1.5	2.0	2.4	123.5
124.0	-	-	-	-	-	0.1	0.5	1.0	1.5	2.0	2.4	124.0
124.5	-	-	-	-	-	0.0	0.5	1.0	1.5	1.9	2.4	124.5
125.0	-	-	-	-	-	0.0	0.5	1.0	1.4	1.9	2.4	125.0
125.5	-	-	-	-	-	0.0	0.5	1.0	1.4	1.9	2.4	125.5
126.0	-	-	-	-	-	-	0.5	0.9	1.4	1.9	2.3	126.0
126.5	-	-	-	-	-	-	0.4	0.9	1.4	1.9	2.3	126.5
127.0	-	-	-	-	-	-	0.4	0.9	1.4	1.8	2.3	127.0
127.5	-	-	-	-	-	-	0.4	0.9	1.3	1.8	2.3	127.5
128.0	-	-	-	-	-	-	0.4	0.9	1.3	1.8	2.3	128.0
128.5	-	-	-	-	-	-	0.4	0.8	1.3	1.8	2.2	128.5
129.0	-	-	-	-	-	-	0.3	0.8	1.3	1.8	2.2	129.0
129.5	-	-	-	-	-	-	0.3	0.8	1.3	1.7	2.2	129.5
130.0	-	-	-	-	-	-	0.3	0.8	1.3	1.7	2.2	130.0
130.5	-	-	-	-	-	-	0.3	0.8	1.2	1.7	2.2	130.5
131.0	-	-	-	-	-	-	0.3	0.7	1.2	1.7	2.2	131.0
131.5	-	-	-	-	-	-	0.3	0.7	1.2	1.7	2.1	131.5
132.0	-	-	-	-	-	-	0.2	0.7	1.2	1.6	2.1	132.0
132.5	-	-	-	-	-	-	0.2	0.7	1.2	1.6	2.1	132.5
133.0	-	-	-	-	-	-	0.2	0.7	1.1	1.6	2.1	133.0
133.5	-	-	-	-	-	-	0.2	0.7	1.1	1.6	2.1	133.5
134.0	-	-	-	-	-	-	0.2	0.6	1.1	1.6	2.0	134.0
134.5	-	-	-	-	-	-	0.1	0.6	1.1	1.6	2.0	134.5
135.0	-	-	-	-	-	-	0.1	0.6	1.1	1.5	2.0	135.0

API GRAVITY = 0.0 TO 5.0

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F								TEMP. F			
	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5				
135.0	-	-	-	-	-	-	0.1	0.6	1.1	1.5	2.0	135.0
135.5	-	-	-	-	-	-	0.1	0.6	1.0	1.5	2.0	135.5
136.0	-	-	-	-	-	-	0.1	0.6	1.0	1.5	2.0	136.0
136.5	-	-	-	-	-	-	0.1	0.5	1.0	1.5	1.9	136.5
137.0	-	-	-	-	-	-	0.1	0.5	1.0	1.5	1.9	137.0
137.5	-	-	-	-	-	-	0.0	0.5	1.0	1.4	1.9	137.5
138.0	-	-	-	-	-	-	0.0	0.5	1.0	1.4	1.9	138.0
138.5	-	-	-	-	-	-	-	0.5	0.9	1.4	1.9	138.5
139.0	-	-	-	-	-	-	-	0.4	0.9	1.4	1.8	139.0
139.5	-	-	-	-	-	-	-	0.4	0.9	1.4	1.8	139.5
140.0	-	-	-	-	-	-	-	0.4	0.9	1.3	1.8	140.0
140.5	-	-	-	-	-	-	-	0.4	0.9	1.3	1.8	140.5
141.0	-	-	-	-	-	-	-	0.4	0.8	1.3	1.8	141.0
141.5	-	-	-	-	-	-	-	0.4	0.8	1.3	1.7	141.5
142.0	-	-	-	-	-	-	-	0.3	0.8	1.3	1.7	142.0
142.5	-	-	-	-	-	-	-	0.3	0.8	1.2	1.7	142.5
143.0	-	-	-	-	-	-	-	0.3	0.8	1.2	1.7	143.0
143.5	-	-	-	-	-	-	-	0.3	0.7	1.2	1.7	143.5
144.0	-	-	-	-	-	-	-	0.3	0.7	1.2	1.7	144.0
144.5	-	-	-	-	-	-	-	0.2	0.7	1.2	1.6	144.5
145.0	-	-	-	-	-	-	-	0.2	0.7	1.2	1.6	145.0
145.5	-	-	-	-	-	-	-	0.2	0.7	1.1	1.6	145.5
146.0	-	-	-	-	-	-	-	0.2	0.7	1.1	1.6	146.0
146.5	-	-	-	-	-	-	-	0.2	0.6	1.1	1.6	146.5
147.0	-	-	-	-	-	-	-	0.2	0.6	1.1	1.5	147.0
147.5	-	-	-	-	-	-	-	0.1	0.6	1.1	1.5	147.5
148.0	-	-	-	-	-	-	-	0.1	0.6	1.0	1.5	148.0
148.5	-	-	-	-	-	-	-	0.1	0.6	1.0	1.5	148.5
149.0	-	-	-	-	-	-	-	0.1	0.5	1.0	1.5	149.0
149.5	-	-	-	-	-	-	-	0.1	0.5	1.0	1.4	149.5
150.0	-	-	-	-	-	-	-	0.0	0.5	1.0	1.4	150.0

Documents

API GRAVITY = 0.0 TO 5.0

API GRAVITY = 0.0 TO 5.0

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	TEMP. F
150.0	-	-	-	-	-	-	-	0.0	0.5	1.0	1.4	150.0
150.5	-	-	-	-	-	-	-	0.0	0.5	0.9	1.4	150.5
151.0	-	-	-	-	-	-	-	0.0	0.5	0.9	1.4	151.0
151.5	-	-	-	-	-	-	-	-	0.4	0.9	1.4	151.5
152.0	-	-	-	-	-	-	-	-	0.4	0.9	1.3	152.0
152.5	-	-	-	-	-	-	-	-	0.4	0.9	1.3	152.5
153.0	-	-	-	-	-	-	-	-	0.4	0.9	1.3	153.0
153.5	-	-	-	-	-	-	-	-	0.4	0.8	1.3	153.5
154.0	-	-	-	-	-	-	-	-	0.4	0.8	1.3	154.0
154.5	-	-	-	-	-	-	-	-	0.3	0.8	1.3	154.5
155.0	-	-	-	-	-	-	-	-	0.3	0.8	1.2	155.0
155.5	-	-	-	-	-	-	-	-	0.3	0.8	1.2	155.5
156.0	-	-	-	-	-	-	-	-	0.3	0.7	1.2	156.0
156.5	-	-	-	-	-	-	-	-	0.3	0.7	1.2	156.5
157.0	-	-	-	-	-	-	-	-	0.2	0.7	1.2	157.0
157.5	-	-	-	-	-	-	-	-	0.2	0.7	1.1	157.5
158.0	-	-	-	-	-	-	-	-	0.2	0.7	1.1	158.0
158.5	-	-	-	-	-	-	-	-	0.2	0.6	1.1	158.5
159.0	-	-	-	-	-	-	-	-	0.2	0.6	1.1	159.0
159.5	-	-	-	-	-	-	-	-	0.2	0.6	1.1	159.5
160.0	-	-	-	-	-	-	-	-	0.1	0.6	1.0	160.0
160.5	-	-	-	-	-	-	-	-	0.1	0.6	1.0	160.5
161.0	-	-	-	-	-	-	-	-	0.1	0.6	1.0	161.0
161.5	-	-	-	-	-	-	-	-	0.1	0.5	1.0	161.5
162.0	-	-	-	-	-	-	-	-	0.1	0.5	1.0	162.0
162.5	-	-	-	-	-	-	-	-	0.0	0.5	1.0	162.5
163.0	-	-	-	-	-	-	-	-	0.0	0.5	0.9	163.0
163.5	-	-	-	-	-	-	-	-	0.0	0.5	0.9	163.5
164.0	-	-	-	-	-	-	-	-	-	0.4	0.9	164.0
164.5	-	-	-	-	-	-	-	-	-	0.4	0.9	164.5
165.0	-	-	-	-	-	-	-	-	-	0.4	0.9	165.0

API GRAVITY = 0.0 TO 5.0

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	0.0	0.5	1.0	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F					4.0	4.5	5.0	TEMP. F
165.0	-	-	-	-	-	-	-	-	-	0.4	0.9	165.0
165.5	-	-	-	-	-	-	-	-	-	0.4	0.8	165.5
166.0	-	-	-	-	-	-	-	-	-	0.4	0.8	166.0
166.5	-	-	-	-	-	-	-	-	-	0.4	0.8	166.5
167.0	-	-	-	-	-	-	-	-	-	0.3	0.8	167.0
167.5	-	-	-	-	-	-	-	-	-	0.3	0.8	167.5
168.0	-	-	-	-	-	-	-	-	-	0.3	0.8	168.0
168.5	-	-	-	-	-	-	-	-	-	0.3	0.7	168.5
169.0	-	-	-	-	-	-	-	-	-	0.3	0.7	169.0
169.5	-	-	-	-	-	-	-	-	-	0.2	0.7	169.5
170.0	-	-	-	-	-	-	-	-	-	0.2	0.7	170.0
170.5	-	-	-	-	-	-	-	-	-	0.2	0.7	170.5
171.0	-	-	-	-	-	-	-	-	-	0.2	0.6	171.0
171.5	-	-	-	-	-	-	-	-	-	0.2	0.6	171.5
172.0	-	-	-	-	-	-	-	-	-	0.2	0.6	172.0
172.5	-	-	-	-	-	-	-	-	-	0.1	0.6	172.5
173.0	-	-	-	-	-	-	-	-	-	0.1	0.6	173.0
173.5	-	-	-	-	-	-	-	-	-	0.1	0.5	173.5
174.0	-	-	-	-	-	-	-	-	-	0.1	0.5	174.0
174.5	-	-	-	-	-	-	-	-	-	0.1	0.5	174.5
175.0	-	-	-	-	-	-	-	-	-	0.0	0.5	175.0
175.5	-	-	-	-	-	-	-	-	-	0.0	0.5	175.5
176.0	-	-	-	-	-	-	-	-	-	0.0	0.5	176.0
176.5	-	-	-	-	-	-	-	-	-	-	0.4	176.5
177.0	-	-	-	-	-	-	-	-	-	-	0.4	177.0
177.5	-	-	-	-	-	-	-	-	-	-	0.4	177.5
178.0	-	-	-	-	-	-	-	-	-	-	0.4	178.0
178.5	-	-	-	-	-	-	-	-	-	-	0.4	178.5
179.0	-	-	-	-	-	-	-	-	-	-	0.3	179.0
179.5	-	-	-	-	-	-	-	-	-	-	0.3	179.5
180.0	-	-	-	-	-	-	-	-	-	-	0.3	180.0

API GRAVITY = 0.0 TO 5.0

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	TEMP. F
180.0	-	-	-	-	-	-	-	-	-	-	0.3	180.0
180.5	-	-	-	-	-	-	-	-	-	-	0.3	180.5
181.0	-	-	-	-	-	-	-	-	-	-	0.3	181.0
181.5	-	-	-	-	-	-	-	-	-	-	0.3	181.5
182.0	-	-	-	-	-	-	-	-	-	-	0.2	182.0
182.5	-	-	-	-	-	-	-	-	-	-	0.2	182.5
183.0	-	-	-	-	-	-	-	-	-	-	0.2	183.0
183.5	-	-	-	-	-	-	-	-	-	-	0.2	183.5
184.0	-	-	-	-	-	-	-	-	-	-	0.2	184.0
184.5	-	-	-	-	-	-	-	-	-	-	0.1	184.5
185.0	-	-	-	-	-	-	-	-	-	-	0.1	185.0
185.5	-	-	-	-	-	-	-	-	-	-	0.1	185.5
186.0	-	-	-	-	-	-	-	-	-	-	0.1	186.0
186.5	-	-	-	-	-	-	-	-	-	-	0.1	186.5
187.0	-	-	-	-	-	-	-	-	-	-	0.1	187.0
187.5	-	-	-	-	-	-	-	-	-	-	0.0	187.5
188.0	-	-	-	-	-	-	-	-	-	-	0.0	188.0
188.5	-	-	-	-	-	-	-	-	-	-	-	188.5
189.0	-	-	-	-	-	-	-	-	-	-	-	189.0
189.5	-	-	-	-	-	-	-	-	-	-	-	189.5
190.0	-	-	-	-	-	-	-	-	-	-	-	190.0
190.5	-	-	-	-	-	-	-	-	-	-	-	190.5
191.0	-	-	-	-	-	-	-	-	-	-	-	191.0
191.5	-	-	-	-	-	-	-	-	-	-	-	191.5
192.0	-	-	-	-	-	-	-	-	-	-	-	192.0
192.5	-	-	-	-	-	-	-	-	-	-	-	192.5
193.0	-	-	-	-	-	-	-	-	-	-	-	193.0
193.5	-	-	-	-	-	-	-	-	-	-	-	193.5
194.0	-	-	-	-	-	-	-	-	-	-	-	194.0
194.5	-	-	-	-	-	-	-	-	-	-	-	194.5
195.0	-	-	-	-	-	-	-	-	-	-	-	195.0

API GRAVITY = 0.0 TO 5.0

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	API GRAVITY AT OBSERVED TEMPERATURE					CORRESPONDING API GRAVITY AT 60 F					TEMP F				
	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0
0.0	7.6	8.1	8.6	9.2	9.7	10.2	10.8	11.3	11.8	12.4	12.9	13.4	13.9	14.4	14.9
0.5	7.6	8.1	8.6	9.2	9.7	10.2	10.7	11.3	11.8	12.3	12.8	13.3	13.8	14.3	14.8
1.0	7.5	8.1	8.6	9.1	9.7	10.2	10.7	11.2	11.8	12.3	12.8	13.3	13.8	14.3	14.8
1.5	7.5	8.0	8.6	9.1	9.6	10.2	10.7	11.2	11.8	12.3	12.8	13.3	13.8	14.3	14.8
2.0	7.5	8.0	8.6	9.1	9.6	10.1	10.7	11.2	11.7	12.3	12.8	13.3	13.8	14.3	14.8
2.5	7.5	8.0	8.5	9.1	9.6	10.1	10.6	11.2	11.7	12.2	12.7	13.2	13.7	14.2	14.7
3.0	7.4	8.0	8.5	9.0	9.6	10.1	10.6	11.2	11.7	12.2	12.7	13.2	13.7	14.2	14.7
3.5	7.4	8.0	8.5	9.0	9.5	10.1	10.6	11.1	11.7	12.2	12.7	13.2	13.7	14.2	14.7
4.0	7.4	7.9	8.5	9.0	9.5	10.0	10.6	11.1	11.6	12.2	12.7	13.2	13.7	14.2	14.7
4.5	7.4	7.9	8.4	9.0	9.5	10.0	10.6	11.1	11.6	12.1	12.7	13.2	13.7	14.2	14.7
5.0	7.4	7.9	8.4	8.9	9.5	10.0	10.5	11.1	11.6	12.1	12.6	13.1	13.6	14.1	14.6
5.5	7.3	7.9	8.4	8.9	9.5	10.0	10.5	11.0	11.6	12.1	12.6	13.1	13.6	14.1	14.6
6.0	7.3	7.8	8.4	8.9	9.4	10.0	10.5	11.0	11.5	12.1	12.6	13.1	13.6	14.1	14.6
6.5	7.3	7.8	8.3	8.9	9.4	9.9	10.5	11.0	11.5	12.0	12.6	13.1	13.6	14.1	14.6
7.0	7.3	7.8	8.3	8.9	9.4	9.9	10.4	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5
7.5	7.3	7.8	8.3	8.8	9.4	9.9	10.4	10.9	11.5	12.0	12.5	13.0	13.5	14.0	14.5
8.0	7.2	7.8	8.3	8.8	9.3	9.9	10.4	10.9	11.4	12.0	12.5	13.0	13.5	14.0	14.5
8.5	7.2	7.7	8.3	8.8	9.3	9.8	10.4	10.9	11.4	11.9	12.5	13.0	13.5	14.0	14.5
9.0	7.2	7.7	8.2	8.8	9.3	9.8	10.3	10.9	11.4	11.9	12.4	12.9	13.4	13.9	14.4
9.5	7.2	7.7	8.2	8.7	9.3	9.8	10.3	10.8	11.4	11.9	12.4	12.9	13.4	13.9	14.4
10.0	7.1	7.7	8.2	8.7	9.2	9.8	10.3	10.8	11.3	11.9	12.4	12.9	13.4	13.9	14.4
10.5	7.1	7.6	8.2	8.7	9.2	9.7	10.3	10.8	11.3	11.8	12.4	12.9	13.4	13.9	14.4
11.0	7.1	7.6	8.1	8.7	9.2	9.7	10.2	10.8	11.3	11.8	12.3	12.8	13.3	13.8	14.3
11.5	7.1	7.6	8.1	8.6	9.2	9.7	10.2	10.7	11.3	11.8	12.3	12.8	13.3	13.8	14.3
12.0	7.1	7.6	8.1	8.6	9.1	9.7	10.2	10.7	11.2	11.8	12.3	12.8	13.3	13.8	14.3
12.5	7.0	7.6	8.1	8.6	9.1	9.7	10.2	10.7	11.2	11.7	12.3	12.8	13.3	13.8	14.3
13.0	7.0	7.5	8.1	8.6	9.1	9.6	10.2	10.7	11.2	11.7	12.2	12.7	13.2	13.7	14.2
13.5	7.0	7.5	8.0	8.6	9.1	9.6	10.1	10.7	11.2	11.7	12.2	12.7	13.2	13.7	14.2
14.0	7.0	7.5	8.0	8.5	9.1	9.6	10.1	10.6	11.2	11.7	12.2	12.7	13.2	13.7	14.2
14.5	6.9	7.5	8.0	8.5	9.0	9.6	10.1	10.6	11.1	11.7	12.2	12.7	13.2	13.7	14.2
15.0	6.9	7.4	8.0	8.5	9.0	9.5	10.1	10.6	11.1	11.6	12.2	12.7	13.2	13.7	14.2

API GRAVITY = 5.0 TO 10.0

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F										TEMP. F
	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	
15.0	8.5	9.0	9.5	10.1	10.6	11.1	11.6	12.2	12.7	13.2	15.0
15.5	8.5	9.0	9.5	10.0	10.6	11.1	11.6	12.1	12.6	13.1	15.5
16.0	8.4	9.0	9.5	10.0	10.5	11.1	11.6	12.1	12.6	13.1	16.0
16.5	8.4	8.9	9.5	10.0	10.5	11.0	11.6	12.1	12.6	13.1	16.5
17.0	8.4	8.9	9.4	10.0	10.5	11.0	11.5	12.1	12.6	13.1	17.0
17.5	8.4	8.9	9.4	9.9	10.5	11.0	11.5	12.0	12.5	13.0	17.5
18.0	8.4	8.9	9.4	9.9	10.4	11.0	11.5	12.0	12.5	13.0	18.0
18.5	8.3	8.9	9.4	9.9	10.4	10.9	11.5	12.0	12.5	13.0	18.5
19.0	8.3	8.8	9.3	9.9	10.4	10.9	11.4	12.0	12.5	13.0	19.0
19.5	8.3	8.8	9.3	9.8	10.4	10.9	11.4	11.9	12.4	12.9	19.5
20.0	8.3	8.8	9.3	9.8	10.3	10.9	11.4	11.9	12.4	12.9	20.0
20.5	8.2	8.8	9.3	9.8	10.3	10.8	11.4	11.9	12.4	12.9	20.5
21.0	8.2	8.7	9.3	9.8	10.3	10.8	11.3	11.9	12.4	12.9	21.0
21.5	8.2	8.7	9.2	9.8	10.3	10.8	11.3	11.8	12.3	12.8	21.5
22.0	8.2	8.7	9.2	9.7	10.3	10.8	11.3	11.8	12.3	12.8	22.0
22.5	8.2	8.7	9.2	9.7	10.2	10.7	11.3	11.8	12.3	12.8	22.5
23.0	8.1	8.6	9.2	9.7	10.2	10.7	11.2	11.8	12.3	12.8	23.0
23.5	8.1	8.6	9.1	9.7	10.2	10.7	11.2	11.7	12.2	12.7	23.5
24.0	8.1	8.6	9.1	9.6	10.2	10.7	11.2	11.7	12.2	12.7	24.0
24.5	8.1	8.6	9.1	9.6	10.1	10.7	11.2	11.7	12.2	12.7	24.5
25.0	8.0	8.6	9.1	9.6	10.1	10.6	11.1	11.7	12.2	12.7	25.0
25.5	8.0	8.5	9.1	9.6	10.1	10.6	11.1	11.6	12.1	12.6	25.5
26.0	8.0	8.5	9.0	9.5	10.1	10.6	11.1	11.6	12.1	12.6	26.0
26.5	8.0	8.5	9.0	9.5	10.0	10.6	11.1	11.6	12.1	12.6	26.5
27.0	7.9	8.5	9.0	9.5	10.0	10.5	11.0	11.6	12.1	12.6	27.0
27.5	7.9	8.4	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	27.5
28.0	7.9	8.4	8.9	9.5	10.0	10.5	11.0	11.5	12.0	12.5	28.0
28.5	7.9	8.4	8.9	9.4	9.9	10.5	11.0	11.5	12.0	12.5	28.5
29.0	7.9	8.4	8.9	9.4	9.9	10.4	11.0	11.5	12.0	12.5	29.0
29.5	7.8	8.4	8.9	9.4	9.9	10.4	10.9	11.4	11.9	12.4	29.5
30.0	7.8	8.3	8.8	9.4	9.9	10.4	10.9	11.4	11.9	12.4	30.0

API GRAVITY = 5.0 TO 10.0

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	5.0	5.5	6.0	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F					9.0	9.5	10.0	TEMP. F
30.0	6.3	6.8	7.3	7.8	8.3	8.8	9.4	9.9	10.4	10.9	11.4	30.0
30.5	6.2	6.8	7.3	7.8	8.3	8.8	9.3	9.9	10.4	10.9	11.4	30.5
31.0	6.2	6.7	7.3	7.8	8.3	8.8	9.3	9.8	10.3	10.9	11.4	31.0
31.5	6.2	6.7	7.2	7.7	8.3	8.8	9.3	9.8	10.3	10.8	11.3	31.5
32.0	6.2	6.7	7.2	7.7	8.2	8.8	9.3	9.8	10.3	10.8	11.3	32.0
32.5	6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.8	10.3	10.8	11.3	32.5
33.0	6.1	6.7	7.2	7.7	8.2	8.7	9.2	9.7	10.3	10.8	11.3	33.0
33.5	6.1	6.6	7.1	7.7	8.2	8.7	9.2	9.7	10.2	10.7	11.3	33.5
34.0	6.1	6.6	7.1	7.6	8.2	8.7	9.2	9.7	10.2	10.7	11.2	34.0
34.5	6.1	6.6	7.1	7.6	8.1	8.6	9.2	9.7	10.2	10.7	11.2	34.5
35.0	6.1	6.6	7.1	7.6	8.1	8.6	9.1	9.6	10.2	10.7	11.2	35.0
35.5	6.0	6.5	7.1	7.6	8.1	8.6	9.1	9.6	10.1	10.6	11.2	35.5
36.0	6.0	6.5	7.0	7.5	8.1	8.6	9.1	9.6	10.1	10.6	11.1	36.0
36.5	6.0	6.5	7.0	7.5	8.0	8.5	9.1	9.6	10.1	10.6	11.1	36.5
37.0	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.1	10.6	11.1	37.0
37.5	5.9	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.1	37.5
38.0	5.9	6.4	6.9	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	38.0
38.5	5.9	6.4	6.9	7.4	7.9	8.5	9.0	9.5	10.0	10.5	11.0	38.5
39.0	5.9	6.4	6.9	7.4	7.9	8.4	8.9	9.5	10.0	10.5	11.0	39.0
39.5	5.9	6.4	6.9	7.4	7.9	8.4	8.9	9.4	9.9	10.5	11.0	39.5
40.0	5.8	6.4	6.9	7.4	7.9	8.4	8.9	9.4	9.9	10.4	10.9	40.0
40.5	5.8	6.3	6.8	7.3	7.9	8.4	8.9	9.4	9.9	10.4	10.9	40.5
41.0	5.8	6.3	6.8	7.3	7.8	8.3	8.9	9.4	9.9	10.4	10.9	41.0
41.5	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.3	9.9	10.4	10.9	41.5
42.0	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.3	9.8	10.3	10.8	42.0
42.5	5.7	6.2	6.8	7.3	7.8	8.3	8.8	9.3	9.8	10.3	10.8	42.5
43.0	5.7	6.2	6.7	7.2	7.7	8.3	8.8	9.3	9.8	10.3	10.8	43.0
43.5	5.7	6.2	6.7	7.2	7.7	8.2	8.7	9.3	9.8	10.3	10.8	43.5
44.0	5.7	6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.7	10.2	10.8	44.0
44.5	5.7	6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.7	10.2	10.7	44.5
45.0	5.6	6.1	6.6	7.2	7.7	8.2	8.7	9.2	9.7	10.2	10.7	45.0

API GRAVITY = 5.0 TO 10.0

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API GRAVITY = 5.0 TO 10.0

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	5.0	5.5	6.0	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F					9.0	9.5	10.0	TEMP. F
				6.5	7.0	7.5	8.0	8.5				
60.0	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	60.0
60.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	60.5
61.0	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	61.0
61.5	4.9	5.4	5.9	6.4	6.9	7.4	7.9	8.4	8.9	9.4	9.9	61.5
62.0	4.9	5.4	5.9	6.4	6.9	7.4	7.9	8.4	8.9	9.4	9.9	62.0
62.5	4.9	5.4	5.9	6.4	6.9	7.4	7.9	8.4	8.9	9.4	9.9	62.5
63.0	4.9	5.4	5.9	6.4	6.9	7.4	7.9	8.4	8.9	9.4	9.9	63.0
63.5	4.9	5.4	5.9	6.4	6.8	7.3	7.8	8.3	8.8	9.3	9.8	63.5
64.0	4.8	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.3	9.8	64.0
64.5	4.8	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.3	9.8	64.5
65.0	4.8	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.3	9.8	65.0
65.5	4.8	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.2	9.7	65.5
66.0	4.8	5.2	5.7	6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.7	66.0
66.5	4.7	5.2	5.7	6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.7	66.5
67.0	4.7	5.2	5.7	6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.7	67.0
67.5	4.7	5.2	5.7	6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.7	67.5
68.0	4.7	5.2	5.7	6.2	6.7	7.1	7.6	8.1	8.6	9.1	9.6	68.0
68.5	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6	9.1	9.6	68.5
69.0	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6	9.1	9.6	69.0
69.5	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6	9.1	9.6	69.5
70.0	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.5	9.0	9.5	70.0
70.5	4.6	5.1	5.6	6.1	6.5	7.0	7.5	8.0	8.5	9.0	9.5	70.5
71.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	71.0
71.5	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	71.5
72.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.4	72.0
72.5	4.5	5.0	5.5	6.0	6.5	7.0	7.4	7.9	8.4	8.9	9.4	72.5
73.0	4.5	5.0	5.5	5.9	6.4	6.9	7.4	7.9	8.4	8.9	9.4	73.0
73.5	4.4	4.9	5.4	5.9	6.4	6.9	7.4	7.9	8.4	8.9	9.4	73.5
74.0	4.4	4.9	5.4	5.9	6.4	6.9	7.4	7.9	8.4	8.9	9.4	74.0
74.5	4.4	4.9	5.4	5.9	6.4	6.9	7.4	7.9	8.3	8.8	9.3	74.5
75.0	4.4	4.9	5.4	5.9	6.4	6.8	7.3	7.8	8.3	8.8	9.3	75.0
API GRAVITY = 5.0 TO 10.0												

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F										9.0	9.5	10.0	TEMP. F
	6.0	5.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5				
75.0	4.4	4.9	5.4	5.9	6.4	6.8	7.3	7.8	8.3	8.8	9.3	9.3	75.0	
75.5	4.4	4.9	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.3	9.3	75.5	
76.0	4.3	4.8	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.3	9.3	76.0	
76.5	4.3	4.8	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.7	9.2	9.2	76.5	
77.0	4.3	4.8	5.3	5.8	6.3	6.8	7.3	7.7	8.2	8.7	9.2	9.2	77.0	
77.5	4.3	4.8	5.3	5.8	6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.2	77.5	
78.0	4.3	4.7	5.2	5.7	6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.2	78.0	
78.5	4.2	4.7	5.2	5.7	6.2	6.7	7.2	7.7	8.2	8.7	9.1	9.1	78.5	
79.0	4.2	4.7	5.2	5.7	6.2	6.7	7.2	7.7	8.1	8.6	9.1	9.1	79.0	
79.5	4.2	4.7	5.2	5.7	6.2	6.7	7.1	7.6	8.1	8.6	9.1	9.1	79.5	
80.0	4.2	4.7	5.2	5.6	6.1	6.6	7.1	7.6	8.1	8.6	9.1	9.1	80.0	
80.5	4.2	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6	9.1	9.1	80.5	
81.0	4.1	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.5	9.0	9.0	81.0	
81.5	4.1	4.6	5.1	5.6	6.1	6.6	7.1	7.5	8.0	8.5	9.0	9.0	81.5	
82.0	4.1	4.6	5.1	5.6	6.1	6.5	7.0	7.5	8.0	8.5	9.0	9.0	82.0	
82.5	4.1	4.6	5.1	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.0	82.5	
83.0	4.1	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	8.9	8.9	83.0	
83.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	7.9	8.4	8.9	8.9	83.5	
84.0	4.0	4.5	5.0	5.5	6.0	6.5	6.9	7.4	7.9	8.4	8.9	8.9	84.0	
84.5	4.0	4.5	5.0	5.5	5.9	6.4	6.9	7.4	7.9	8.4	8.9	8.9	84.5	
85.0	4.0	4.5	4.9	5.4	5.9	6.4	6.9	7.4	7.9	8.4	8.9	8.9	85.0	
85.5	4.0	4.4	4.9	5.4	5.9	6.4	6.9	7.4	7.9	8.3	8.8	8.8	85.5	
86.0	3.9	4.4	4.9	5.4	5.9	6.4	6.9	7.3	7.8	8.3	8.8	8.8	86.0	
86.5	3.9	4.4	4.9	5.4	5.9	6.3	6.8	7.3	7.8	8.3	8.8	8.8	86.5	
87.0	3.9	4.4	4.9	5.4	5.8	6.3	6.8	7.3	7.8	8.3	8.8	8.8	87.0	
87.5	3.9	4.4	4.8	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.7	8.7	87.5	
88.0	3.9	4.3	4.8	5.3	5.8	6.3	6.8	7.3	7.7	8.2	8.7	8.7	88.0	
88.5	3.8	4.3	4.8	5.3	5.8	6.3	6.8	7.2	7.7	8.2	8.7	8.7	88.5	
89.0	3.8	4.3	4.8	5.3	5.8	6.2	6.7	7.2	7.7	8.2	8.7	8.7	89.0	
89.5	3.8	4.3	4.8	5.2	5.7	6.2	6.7	7.2	7.7	8.2	8.6	8.6	89.5	
90.0	3.8	4.3	4.7	5.2	5.7	6.2	6.7	7.2	7.7	8.1	8.6	8.6	90.0	

API GRAVITY -- 5.0 TO 10.0

Full document details: [API MPMS 11.1.1 1980 \(1987\) scan](#)

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TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F					TEMP. F				
	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0		
105.0	4.6	5.1	5.6	6.0	6.5	7.0	7.5	8.0		
105.5	4.6	5.1	5.5	6.0	6.5	7.0	7.5	7.9		
106.0	4.6	5.0	5.5	6.0	6.5	7.0	7.4	7.9		
106.5	4.5	5.0	5.5	6.0	6.5	6.9	7.4	7.9		
107.0	4.5	5.0	5.5	6.0	6.4	6.9	7.4	7.9		
107.5	4.5	5.0	5.5	5.9	6.4	6.9	7.4	7.8		
108.0	4.5	5.0	5.4	5.9	6.4	6.9	7.3	7.8		
108.5	4.5	4.9	5.4	5.9	6.4	6.9	7.3	7.8		
109.0	4.4	4.9	5.4	5.9	6.4	6.8	7.3	7.8		
109.5	4.4	4.9	5.4	5.9	6.3	6.8	7.3	7.8		
110.0	4.4	4.9	5.4	5.8	6.3	6.8	7.3	7.7		
110.5	4.4	4.9	5.3	5.8	6.3	6.8	7.2	7.7		
111.0	4.4	4.8	5.3	5.8	6.3	6.7	7.2	7.7		
111.5	4.3	4.8	5.3	5.8	6.2	6.7	7.2	7.7		
112.0	4.3	4.8	5.3	5.7	6.2	6.7	7.2	7.7		
112.5	4.3	4.8	5.3	5.7	6.2	6.7	7.2	7.6		
113.0	4.3	4.8	5.2	5.7	6.2	6.7	7.1	7.6		
113.5	4.3	4.7	5.2	5.7	6.2	6.6	7.1	7.6		
114.0	4.2	4.7	5.2	5.7	6.1	6.6	7.1	7.6		
114.5	4.2	4.7	5.2	5.6	6.1	6.6	7.1	7.5		
115.0	4.2	4.7	5.1	5.6	6.1	6.6	7.0	7.5		
115.5	4.2	4.7	5.1	5.6	6.1	6.6	7.0	7.5		
116.0	4.2	4.6	5.1	5.6	6.1	6.5	7.0	7.5		
116.5	4.1	4.6	5.1	5.6	6.0	6.5	7.0	7.5		
117.0	4.1	4.6	5.1	5.5	6.0	6.5	7.0	7.4		
117.5	4.1	4.6	5.0	5.5	6.0	6.5	6.9	7.4		
118.0	4.1	4.6	5.0	5.5	6.0	6.4	6.9	7.4		
118.5	4.1	4.5	5.0	5.5	5.9	6.4	6.9	7.4		
119.0	4.0	4.5	5.0	5.5	5.9	6.4	6.9	7.3		
119.5	4.0	4.5	5.0	5.4	5.9	6.4	6.9	7.3		
120.0	4.0	4.5	4.9	5.4	5.9	6.4	6.8	7.3		

API GRAVITY = 5.0 TO 10.0

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F						9.0	9.5	10.0	TEMP. F
	6.5	7.0	7.5	8.0	8.5	9.0				
120.0	4.0	4.5	4.9	5.4	5.9	6.4	6.8	7.3	120.0	
120.5	4.0	4.4	4.9	5.4	5.9	6.3	6.8	7.3	120.5	
121.0	4.0	4.4	4.9	5.4	5.8	6.3	6.8	7.3	121.0	
121.5	3.9	4.4	4.9	5.4	5.8	6.3	6.8	7.2	121.5	
122.0	3.9	4.4	4.9	5.3	5.8	6.3	6.7	7.2	122.0	
122.5	3.9	4.4	4.8	5.3	5.8	6.3	6.7	7.2	122.5	
123.0	3.9	4.3	4.8	5.3	5.8	6.2	6.7	7.2	123.0	
123.5	3.9	4.3	4.8	5.3	5.7	6.2	6.7	7.2	123.5	
124.0	3.8	4.3	4.8	5.2	5.7	6.2	6.7	7.1	124.0	
124.5	3.8	4.3	4.8	5.2	5.7	6.2	6.6	7.1	124.5	
125.0	3.8	4.3	4.7	5.2	5.7	6.1	6.6	7.1	125.0	
125.5	3.8	4.2	4.7	5.2	5.7	6.1	6.6	7.1	125.5	
126.0	3.8	4.2	4.7	5.2	5.6	6.1	6.6	7.0	126.0	
126.5	3.7	4.2	4.7	5.1	5.6	6.1	6.6	7.0	126.5	
127.0	3.7	4.2	4.7	5.1	5.6	6.1	6.5	7.0	127.0	
127.5	3.7	4.2	4.6	5.1	5.6	6.0	6.5	7.0	127.5	
128.0	3.7	4.1	4.6	5.1	5.6	6.0	6.5	7.0	128.0	
128.5	3.7	4.1	4.6	5.1	5.5	6.0	6.5	6.9	128.5	
129.0	3.6	4.1	4.6	5.0	5.5	6.0	6.4	6.9	129.0	
129.5	3.6	4.1	4.6	5.0	5.5	6.0	6.4	6.9	129.5	
130.0	3.6	4.1	4.5	5.0	5.5	5.9	6.4	6.9	130.0	
130.5	3.6	4.0	4.5	5.0	5.4	5.9	6.4	6.8	130.5	
131.0	3.6	4.0	4.5	5.0	5.4	5.9	6.4	6.8	131.0	
131.5	3.5	4.0	4.5	4.9	5.4	5.9	6.3	6.8	131.5	
132.0	3.5	4.0	4.5	4.9	5.4	5.9	6.3	6.8	132.0	
132.5	3.5	4.0	4.4	4.9	5.4	5.8	6.3	6.8	132.5	
133.0	3.5	3.9	4.4	4.9	5.3	5.8	6.3	6.7	133.0	
133.5	3.5	3.9	4.4	4.9	5.3	5.8	6.3	6.7	133.5	
134.0	3.4	3.9	4.4	4.8	5.3	5.8	6.2	6.7	134.0	
134.5	3.4	3.9	4.4	4.8	5.3	5.7	6.2	6.7	134.5	
135.0	3.4	3.9	4.3	4.8	5.3	5.7	6.2	6.7	135.0	

API GRAVITY = 5.0 TO 10.0

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F							TEMP. F		
	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0
135.0	3.4	3.9	4.3	4.8	5.3	5.7	6.2	6.7	7.2	7.7
135.5	3.4	3.8	4.3	4.8	5.2	5.7	6.2	6.6	7.1	7.6
136.0	3.4	3.8	4.3	4.8	5.2	5.7	6.1	6.6	7.1	7.6
136.5	3.3	3.8	4.3	4.7	5.2	5.7	6.1	6.6	7.1	7.6
137.0	3.3	3.8	4.2	4.7	5.2	5.6	6.1	6.6	7.1	7.6
137.5	3.3	3.8	4.2	4.7	5.2	5.6	6.1	6.5	7.0	7.5
138.0	3.3	3.7	4.2	4.7	5.1	5.6	6.1	6.5	7.0	7.5
138.5	3.3	3.7	4.2	4.7	5.1	5.6	6.0	6.5	7.0	7.5
139.0	3.2	3.7	4.2	4.6	5.1	5.6	6.0	6.5	7.0	7.5
139.5	3.2	3.7	4.1	4.6	5.1	5.5	6.0	6.5	7.0	7.5
140.0	3.2	3.7	4.1	4.6	5.1	5.5	6.0	6.4	6.9	7.4
140.5	3.2	3.6	4.1	4.6	5.0	5.5	6.0	6.4	6.9	7.4
141.0	3.2	3.6	4.1	4.6	5.0	5.5	5.9	6.4	6.9	7.4
141.5	3.1	3.6	4.1	4.5	5.0	5.5	5.9	6.4	6.9	7.4
142.0	3.1	3.6	4.0	4.5	5.0	5.4	5.9	6.4	6.9	7.4
142.5	3.1	3.6	4.0	4.5	5.0	5.4	5.9	6.3	6.8	7.3
143.0	3.1	3.5	4.0	4.5	4.9	5.4	5.9	6.3	6.8	7.3
143.5	3.1	3.5	4.0	4.4	4.9	5.4	5.8	6.3	6.8	7.3
144.0	3.0	3.5	4.0	4.4	4.9	5.4	5.8	6.3	6.8	7.3
144.5	3.0	3.5	3.9	4.4	4.9	5.3	5.8	6.3	6.8	7.3
145.0	3.0	3.5	3.9	4.4	4.8	5.3	5.8	6.2	6.7	7.2
145.5	3.0	3.4	3.9	4.4	4.8	5.3	5.8	6.2	6.7	7.2
146.0	3.0	3.4	3.9	4.3	4.8	5.3	5.7	6.2	6.7	7.2
146.5	2.9	3.4	3.9	4.3	4.8	5.2	5.7	6.2	6.7	7.2
147.0	2.9	3.4	3.8	4.3	4.8	5.2	5.7	6.1	6.6	7.1
147.5	2.9	3.4	3.8	4.3	4.7	5.2	5.7	6.1	6.6	7.1
148.0	2.9	3.3	3.8	4.3	4.7	5.2	5.6	6.1	6.6	7.1
148.5	2.9	3.3	3.8	4.2	4.7	5.2	5.6	6.1	6.6	7.1
149.0	2.8	3.3	3.8	4.2	4.7	5.1	5.6	6.1	6.6	7.1
149.5	2.8	3.3	3.7	4.2	4.7	5.1	5.6	6.0	6.5	7.0
150.0	2.8	3.3	3.7	4.2	4.6	5.1	5.6	6.0	6.5	7.0

API GRAVITY = 5.0 TO 10.0

TABLE 5A. GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F						9.0	9.5	10.0	TEMP. F
	6.5	7.0	7.5	8.0	8.5					
150.0	2.8	3.3	3.7	4.2	4.6		5.1	5.6	6.0	150.0
150.5	2.8	3.2	3.7	4.2	4.6		5.1	5.5	6.0	150.5
151.0	2.8	3.2	3.7	4.1	4.6		5.1	5.5	6.0	151.0
151.5	2.7	3.2	3.7	4.1	4.6		5.0	5.5	6.0	151.5
152.0	2.7	3.2	3.6	4.1	4.6		5.0	5.5	5.9	152.0
152.5	2.7	3.2	3.6	4.1	4.5		5.0	5.5	5.9	152.5
153.0	2.7	3.1	3.6	4.1	4.5		5.0	5.4	5.9	153.0
153.5	2.7	3.1	3.6	4.0	4.5		5.0	5.4	5.9	153.5
154.0	2.7	3.1	3.6	4.0	4.5		4.9	5.4	5.9	154.0
154.5	2.6	3.1	3.5	4.0	4.5		4.9	5.4	5.8	154.5
155.0	2.6	3.1	3.5	4.0	4.4		4.9	5.4	5.8	155.0
155.5	2.6	3.1	3.5	4.0	4.4		4.9	5.3	5.8	155.5
156.0	2.6	3.0	3.5	3.9	4.4		4.9	5.3	5.8	156.0
156.5	2.6	3.0	3.5	3.9	4.4		4.8	5.3	5.7	156.5
157.0	2.5	3.0	3.4	3.9	4.4		4.8	5.3	5.7	157.0
157.5	2.5	3.0	3.4	3.9	4.3		4.8	5.3	5.7	157.5
158.0	2.5	3.0	3.4	3.9	4.3		4.8	5.2	5.7	158.0
158.5	2.5	2.9	3.4	3.8	4.3		4.8	5.2	5.7	158.5
159.0	2.5	2.9	3.4	3.8	4.3		4.7	5.2	5.6	159.0
159.5	2.4	2.9	3.3	3.8	4.3		4.7	5.2	5.6	159.5
160.0	2.4	2.9	3.3	3.8	4.2		4.7	5.1	5.6	160.0
160.5	2.4	2.9	3.3	3.8	4.2		4.7	5.1	5.6	160.5
161.0	2.4	2.8	3.3	3.7	4.2		4.7	5.1	5.6	161.0
161.5	2.4	2.8	3.3	3.7	4.2		4.6	5.1	5.5	161.5
162.0	2.3	2.8	3.3	3.7	4.2		4.6	5.1	5.5	162.0
162.5	2.3	2.8	3.2	3.7	4.1		4.6	5.0	5.5	162.5
163.0	2.3	2.8	3.2	3.7	4.1		4.6	5.0	5.5	163.0
163.5	2.3	2.7	3.2	3.6	4.1		4.6	5.0	5.5	163.5
164.0	2.3	2.7	3.2	3.6	4.1		4.5	5.0	5.4	164.0
164.5	2.2	2.7	3.2	3.6	4.1		4.5	5.0	5.4	164.5
165.0	2.2	2.7	3.1	3.6	4.0		4.5	4.9	5.4	165.0

API GRAVITY = 5.0 TO 10.0

TABLE 5A. GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F										TEMP. F
	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0			
165.0	2.2	2.7	3.1	3.6	4.0	4.5	4.9	5.4			165.0
165.5	2.2	2.7	3.1	3.6	4.0	4.5	4.9	5.4			165.5
166.0	2.2	2.6	3.1	3.5	4.0	4.5	4.9	5.4			166.0
166.5	2.2	2.6	3.1	3.5	4.0	4.4	4.9	5.3			166.5
167.0	2.1	2.6	3.1	3.5	4.0	4.4	4.9	5.3			167.0
167.5	2.1	2.6	3.0	3.5	3.9	4.4	4.8	5.3			167.5
168.0	2.1	2.6	3.0	3.5	3.9	4.4	4.8	5.3			168.0
168.5	2.1	2.5	3.0	3.4	3.9	4.4	4.8	5.3			168.5
169.0	2.1	2.5	3.0	3.4	3.9	4.3	4.8	5.2			169.0
169.5	2.1	2.5	3.0	3.4	3.9	4.3	4.8	5.2			169.5
170.0	2.0	2.5	2.9	3.4	3.8	4.3	4.7	5.2			170.0
170.5	2.0	2.5	2.9	3.4	3.8	4.3	4.7	5.2			170.5
171.0	2.0	2.4	2.9	3.3	3.8	4.3	4.7	5.1			171.0
171.5	2.0	2.4	2.9	3.3	3.8	4.2	4.7	5.1			171.5
172.0	2.0	2.4	2.9	3.3	3.8	4.2	4.7	5.1			172.0
172.5	1.9	2.4	2.8	3.3	3.7	4.2	4.6	5.1			172.5
173.0	1.9	2.4	2.8	3.3	3.7	4.2	4.6	5.1			173.0
173.5	1.9	2.4	2.8	3.3	3.7	4.1	4.6	5.0			173.5
174.0	1.9	2.3	2.8	3.2	3.7	4.1	4.6	5.0			174.0
174.5	1.9	2.3	2.8	3.2	3.7	4.1	4.6	5.0			174.5
175.0	1.8	2.3	2.7	3.2	3.6	4.1	4.5	5.0			175.0
175.5	1.8	2.3	2.7	3.2	3.6	4.1	4.5	5.0			175.5
176.0	1.8	2.3	2.7	3.2	3.6	4.1	4.5	4.9			176.0
176.5	1.8	2.2	2.7	3.1	3.6	4.0	4.5	4.9			176.5
177.0	1.8	2.2	2.7	3.1	3.6	4.0	4.5	4.9			177.0
177.5	1.7	2.2	2.6	3.1	3.5	4.0	4.4	4.9			177.5
178.0	1.7	2.2	2.6	3.1	3.5	4.0	4.4	4.9			178.0
178.5	1.7	2.2	2.6	3.1	3.5	3.9	4.4	4.8			178.5
179.0	1.7	2.1	2.6	3.0	3.5	3.9	4.4	4.8			179.0
179.5	1.7	2.1	2.6	3.0	3.5	3.9	4.4	4.8			179.5
180.0	1.7	2.1	2.5	3.0	3.4	3.9	4.3	4.8			180.0

API GRAVITY = 5.0 TO 10.0

TABLE 5A. GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F										TEMP. F
	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0			
180.0	1.7	2.1	2.5	3.0	3.4	3.9	4.3	4.8			180.0
180.5	1.6	2.1	2.5	3.0	3.4	3.9	4.3	4.8			180.5
181.0	1.6	2.1	2.5	3.0	3.4	3.9	4.3	4.7			181.0
181.5	1.6	2.0	2.5	2.9	3.4	3.8	4.3	4.7			181.5
182.0	1.6	2.0	2.5	2.9	3.4	3.8	4.3	4.7			182.0
182.5	1.6	2.0	2.5	2.9	3.3	3.8	4.2	4.7			182.5
183.0	1.5	2.0	2.4	2.9	3.3	3.8	4.2	4.7			183.0
183.5	1.5	2.0	2.4	2.9	3.3	3.8	4.2	4.6			183.5
184.0	1.5	1.9	2.4	2.8	3.3	3.7	4.2	4.6			184.0
184.5	1.5	1.9	2.4	2.8	3.3	3.7	4.2	4.6			184.5
185.0	1.5	1.9	2.4	2.8	3.2	3.7	4.1	4.6			185.0
185.5	1.4	1.9	2.3	2.8	3.2	3.7	4.1	4.6			185.5
186.0	1.4	1.9	2.3	2.8	3.2	3.7	4.1	4.5			186.0
186.5	1.4	1.9	2.3	2.7	3.2	3.6	4.1	4.5			186.5
187.0	1.4	1.8	2.3	2.7	3.2	3.6	4.1	4.5			187.0
187.5	1.4	1.8	2.3	2.7	3.1	3.6	4.0	4.5			187.5
188.0	1.4	1.8	2.2	2.7	3.1	3.6	4.0	4.5			188.0
188.5	1.3	1.8	2.2	2.7	3.1	3.6	4.0	4.4			188.5
189.0	1.3	1.8	2.2	2.6	3.1	3.5	4.0	4.4			189.0
189.5	1.3	1.7	2.2	2.6	3.1	3.5	4.0	4.4			189.5
190.0	1.3	1.7	2.2	2.6	3.1	3.5	3.9	4.4			190.0
190.5	1.3	1.7	2.1	2.6	3.0	3.5	3.9	4.4			190.5
191.0	1.2	1.7	2.1	2.6	3.0	3.5	3.9	4.3			191.0
191.5	1.2	1.7	2.1	2.6	3.0	3.4	3.9	4.3			191.5
192.0	1.2	1.6	2.1	2.5	3.0	3.4	3.9	4.3			192.0
192.5	1.2	1.6	2.1	2.5	3.0	3.4	3.8	4.3			192.5
193.0	1.2	1.6	2.1	2.5	2.9	3.4	3.8	4.3			193.0
193.5	1.1	1.6	2.0	2.5	2.9	3.4	3.8	4.2			193.5
194.0	1.1	1.6	2.0	2.5	2.9	3.3	3.8	4.2			194.0
194.5	1.1	1.6	2.0	2.4	2.9	3.3	3.8	4.2			194.5
195.0	1.1	1.5	2.0	2.4	2.9	3.3	3.7	4.2			195.0

API GRAVITY = 5.0 TO 10.0

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F					TEMP. F				
	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0		
195.0	1.1	1.5	2.0	2.4	2.9	3.3	3.7	4.2		
195.5	1.1	1.5	2.0	2.4	2.8	3.3	3.7	4.2		
196.0	1.1	1.5	1.9	2.4	2.8	3.3	3.7	4.1		
196.5	1.0	1.5	1.9	2.4	2.8	3.2	3.7	4.1		
197.0	1.0	1.5	1.9	2.3	2.8	3.2	3.7	4.1		
197.5	1.0	1.4	1.9	2.3	2.8	3.2	3.6	4.1		
198.0	1.0	1.4	1.9	2.3	2.7	3.2	3.6	4.1		
198.5	1.0	1.4	1.8	2.3	2.7	3.2	3.6	4.0		
199.0	0.9	1.4	1.8	2.3	2.7	3.1	3.6	4.0		
199.5	0.9	1.4	1.8	2.2	2.7	3.1	3.6	4.0		
200.0	0.9	1.3	1.8	2.2	2.7	3.1	3.5	4.0		
200.5	0.9	1.3	1.8	2.2	2.6	3.1	3.5	4.0		
201.0	0.9	1.3	1.7	2.2	2.6	3.1	3.5	3.9		
201.5	0.8	1.3	1.7	2.2	2.6	3.0	3.5	3.9		
202.0	0.8	1.3	1.7	2.1	2.6	3.0	3.5	3.9		
202.5	0.8	1.3	1.7	2.1	2.6	3.0	3.4	3.9		
203.0	0.8	1.2	1.7	2.1	2.5	3.0	3.4	3.9		
203.5	0.8	1.2	1.7	2.1	2.5	3.0	3.4	3.8		
204.0	0.8	1.2	1.6	2.1	2.5	2.9	3.4	3.8		
204.5	0.7	1.2	1.6	2.1	2.5	2.9	3.4	3.8		
205.0	0.7	1.2	1.6	2.0	2.5	2.9	3.3	3.8		
205.5	0.7	1.1	1.6	2.0	2.5	2.9	3.3	3.8		
206.0	0.7	1.1	1.6	2.0	2.4	2.9	3.3	3.7		
206.5	0.7	1.1	1.5	2.0	2.4	2.9	3.3	3.7		
207.0	0.6	1.1	1.5	2.0	2.4	2.8	3.3	3.7		
207.5	0.6	1.1	1.5	1.9	2.4	2.8	3.2	3.7		
208.0	0.6	1.0	1.5	1.9	2.4	2.8	3.2	3.7		
208.5	0.6	1.0	1.5	1.9	2.3	2.8	3.2	3.6		
209.0	0.6	1.0	1.4	1.9	2.3	2.8	3.2	3.6		
209.5	0.6	1.0	1.4	1.9	2.3	2.7	3.2	3.6		
210.0	0.5	1.0	1.4	1.8	2.3	2.7	3.1	3.6		

API GRAVITY = 5.0 TO 10.0

TABLE 5A. GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	5.0	5.5	6.0	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F					9.0	9.5	10.0	TEMP. F
210.0	-	-	0.1	0.5	1.0	1.4	1.8	2.3	2.7	3.1	3.6	210.0
210.5	-	-	0.1	0.5	1.0	1.4	1.8	2.3	2.7	3.1	3.6	210.5
211.0	-	-	0.1	0.5	0.9	1.4	1.8	2.2	2.7	3.1	3.5	211.0
211.5	-	-	0.0	0.5	0.9	1.4	1.8	2.2	2.7	3.1	3.5	211.5
212.0	-	-	0.0	0.5	0.9	1.3	1.8	2.2	2.6	3.1	3.5	212.0
212.5	-	-	0.0	0.4	0.9	1.3	1.8	2.2	2.6	3.1	3.5	212.5
213.0	-	-	-	0.4	0.9	1.3	1.7	2.2	2.6	3.0	3.5	213.0
213.5	-	-	-	0.4	0.8	1.3	1.7	2.1	2.6	3.0	3.4	213.5
214.0	-	-	-	0.4	0.8	1.3	1.7	2.1	2.6	3.0	3.4	214.0
214.5	-	-	-	0.4	0.8	1.2	1.7	2.1	2.5	3.0	3.4	214.5
215.0	-	-	-	0.4	0.8	1.2	1.7	2.1	2.5	3.0	3.4	215.0
215.5	-	-	-	0.3	0.8	1.2	1.6	2.1	2.5	2.9	3.4	215.5
216.0	-	-	-	0.3	0.8	1.2	1.6	2.1	2.5	2.9	3.3	216.0
216.5	-	-	-	0.3	0.7	1.2	1.6	2.0	2.5	2.9	3.3	216.5
217.0	-	-	-	0.3	0.7	1.1	1.6	2.0	2.4	2.9	3.3	217.0
217.5	-	-	-	0.3	0.7	1.1	1.6	2.0	2.4	2.9	3.3	217.5
218.0	-	-	-	0.2	0.7	1.1	1.5	2.0	2.4	2.8	3.3	218.0
218.5	-	-	-	0.2	0.7	1.1	1.5	2.0	2.4	2.8	3.2	218.5
219.0	-	-	-	0.2	0.6	1.1	1.5	1.9	2.4	2.8	3.2	219.0
219.5	-	-	-	0.2	0.6	1.1	1.5	1.9	2.4	2.8	3.2	219.5
220.0	-	-	-	0.2	0.6	1.0	1.5	1.9	2.3	2.8	3.2	220.0
220.5	-	-	-	0.2	0.6	1.0	1.5	1.9	2.3	2.7	3.2	220.5
221.0	-	-	-	0.1	0.6	1.0	1.4	1.9	2.3	2.7	3.2	221.0
221.5	-	-	-	0.1	0.6	1.0	1.4	1.8	2.3	2.7	3.1	221.5
222.0	-	-	-	0.1	0.5	1.0	1.4	1.8	2.3	2.7	3.1	222.0
222.5	-	-	-	0.1	0.5	0.9	1.4	1.8	2.2	2.7	3.1	222.5
223.0	-	-	-	0.1	0.5	0.9	1.4	1.8	2.2	2.6	3.1	223.0
223.5	-	-	-	0.0	0.5	0.9	1.3	1.8	2.2	2.6	3.1	223.5
224.0	-	-	-	0.0	0.5	0.9	1.3	1.7	2.2	2.6	3.0	224.0
224.5	-	-	-	0.0	0.4	0.9	1.3	1.7	2.2	2.6	3.0	224.5
225.0	-	-	-	-	0.4	0.9	1.3	1.7	2.1	2.6	3.0	225.0

API GRAVITY = 5.0 TO 10.0

TABLE 5A. GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	5.0	5.5	6.0	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F	7.0	7.5	8.0	8.5	9.0	9.5	10.0	TEMP. F
225.0	-	-	-	-	0.4	0.9	1.3	1.7	2.1	2.6	3.0	225.0
225.5	-	-	-	-	0.4	0.8	1.3	1.7	2.1	2.6	3.0	225.5
226.0	-	-	-	-	0.4	0.8	1.2	1.7	2.1	2.5	3.0	226.0
226.5	-	-	-	-	0.4	0.8	1.2	1.7	2.1	2.5	2.9	226.5
227.0	-	-	-	-	0.3	0.8	1.2	1.6	2.1	2.5	2.9	227.0
227.5	-	-	-	-	0.3	0.8	1.2	1.6	2.0	2.5	2.9	227.5
228.0	-	-	-	-	0.3	0.7	1.2	1.6	2.0	2.5	2.9	228.0
228.5	-	-	-	-	0.3	0.7	1.2	1.6	2.0	2.4	2.9	228.5
229.0	-	-	-	-	0.3	0.7	1.1	1.6	2.0	2.4	2.8	229.0
229.5	-	-	-	-	0.3	0.7	1.1	1.5	2.0	2.4	2.8	229.5
230.0	-	-	-	-	0.2	0.7	1.1	1.5	2.0	2.4	2.8	230.0
230.5	-	-	-	-	0.2	0.7	1.1	1.5	1.9	2.4	2.8	230.5
231.0	-	-	-	-	0.2	0.6	1.1	1.5	1.9	2.3	2.8	231.0
231.5	-	-	-	-	0.2	0.6	1.0	1.5	1.9	2.3	2.7	231.5
232.0	-	-	-	-	0.2	0.6	1.0	1.4	1.9	2.3	2.7	232.0
232.5	-	-	-	-	0.2	0.6	1.0	1.4	1.9	2.3	2.7	232.5
233.0	-	-	-	-	0.1	0.6	1.0	1.4	1.8	2.3	2.7	233.0
233.5	-	-	-	-	0.1	0.5	1.0	1.4	1.8	2.2	2.7	233.5
234.0	-	-	-	-	0.1	0.5	0.9	1.4	1.8	2.2	2.7	234.0
234.5	-	-	-	-	0.1	0.5	0.9	1.4	1.8	2.2	2.6	234.5
235.0	-	-	-	-	0.1	0.5	0.9	1.3	1.8	2.2	2.6	235.0
235.5	-	-	-	-	0.0	0.5	0.9	1.3	1.7	2.2	2.6	235.5
236.0	-	-	-	-	0.0	0.4	0.9	1.3	1.7	2.2	2.6	236.0
236.5	-	-	-	-	0.0	0.4	0.9	1.3	1.7	2.1	2.6	236.5
237.0	-	-	-	-	-	0.4	0.8	1.3	1.7	2.1	2.5	237.0
237.5	-	-	-	-	-	0.4	0.8	1.2	1.7	2.1	2.5	237.5
238.0	-	-	-	-	-	0.4	0.8	1.2	1.7	2.1	2.5	238.0
238.5	-	-	-	-	-	0.4	0.8	1.2	1.6	2.1	2.5	238.5
239.0	-	-	-	-	-	0.3	0.8	1.2	1.6	2.0	2.5	239.0
239.5	-	-	-	-	-	0.3	0.7	1.2	1.6	2.0	2.4	239.5
240.0	-	-	-	-	-	0.3	0.7	1.2	1.6	2.0	2.4	240.0

API GRAVITY = 5.0 TO 10.0

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F							TEMP. F		
	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0
240.0	-	-	0.3	0.7	1.2	1.6	2.0	2.4	240.0	240.0
240.5	-	-	0.3	0.7	1.1	1.6	2.0	2.4	240.5	240.5
241.0	-	-	0.3	0.7	1.1	1.5	2.0	2.4	241.0	241.0
241.5	-	-	0.3	0.7	1.1	1.5	1.9	2.4	241.5	241.5
242.0	-	-	0.2	0.7	1.1	1.5	1.9	2.3	242.0	242.0
242.5	-	-	0.2	0.6	1.1	1.5	1.9	2.3	242.5	242.5
243.0	-	-	0.2	0.6	1.0	1.5	1.9	2.3	243.0	243.0
243.5	-	-	0.2	0.6	1.0	1.4	1.9	2.3	243.5	243.5
244.0	-	-	0.2	0.6	1.0	1.4	1.9	2.3	244.0	244.0
244.5	-	-	0.1	0.6	1.0	1.4	1.8	2.3	244.5	244.5
245.0	-	-	0.1	0.5	1.0	1.4	1.8	2.2	245.0	245.0
245.5	-	-	0.1	0.5	0.9	1.4	1.8	2.2	245.5	245.5
246.0	-	-	0.1	0.5	0.9	1.4	1.8	2.2	246.0	246.0
246.5	-	-	0.1	0.5	0.9	1.3	1.8	2.2	246.5	246.5
247.0	-	-	0.1	0.5	0.9	1.3	1.7	2.2	247.0	247.0
247.5	-	-	0.0	0.5	0.9	1.3	1.7	2.1	247.5	247.5
248.0	-	-	0.0	0.4	0.9	1.3	1.7	2.1	248.0	248.0
248.5	-	-	-	0.4	0.8	1.3	1.7	2.1	248.5	248.5
249.0	-	-	-	0.4	0.8	1.2	1.7	2.1	249.0	249.0
249.5	-	-	-	0.4	0.8	1.2	1.6	2.1	249.5	249.5
250.0	-	-	-	0.4	0.8	1.2	1.6	2.0	250.0	250.0
250.5	-	-	-	0.3	0.8	1.2	1.6	2.0	250.5	250.5
251.0	-	-	-	0.3	0.7	1.2	1.6	2.0	251.0	251.0
251.5	-	-	-	0.3	0.7	1.2	1.6	2.0	251.5	251.5
252.0	-	-	-	0.3	0.7	1.1	1.6	2.0	252.0	252.0
252.5	-	-	-	0.3	0.7	1.1	1.5	2.0	252.5	252.5
253.0	-	-	-	0.3	0.7	1.1	1.5	1.9	253.0	253.0
253.5	-	-	-	0.2	0.7	1.1	1.5	1.9	253.5	253.5
254.0	-	-	-	0.2	0.6	1.1	1.5	1.9	254.0	254.0
254.5	-	-	-	0.2	0.6	1.0	1.5	1.9	254.5	254.5
255.0	-	-	-	0.2	0.6	1.0	1.4	1.9	255.0	255.0

API GRAVITY = 5.0 TO 10.0

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F					API GRAVITY AT 60 F			TEMP. F
	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	
255.0	-	-	-	0.2	0.6	1.0	1.4	1.9	255.0
255.5	-	-	-	0.2	0.6	1.0	1.4	1.8	255.5
256.0	-	-	-	0.2	0.6	1.0	1.4	1.8	256.0
256.5	-	-	-	0.1	0.6	1.0	1.4	1.8	256.5
257.0	-	-	-	0.1	0.5	0.9	1.4	1.8	257.0
257.5	-	-	-	0.1	0.5	0.9	1.3	1.8	257.5
258.0	-	-	-	0.1	0.5	0.9	1.3	1.7	258.0
258.5	-	-	-	0.1	0.5	0.9	1.3	1.7	258.5
259.0	-	-	-	0.0	0.5	0.9	1.3	1.7	259.0
259.5	-	-	-	0.0	0.4	0.9	1.3	1.7	259.5
260.0	-	-	-	0.0	0.4	0.8	1.3	1.7	260.0
260.5	-	-	-	-	0.4	0.8	1.2	1.7	260.5
261.0	-	-	-	-	0.4	0.8	1.2	1.6	261.0
261.5	-	-	-	-	0.4	0.8	1.2	1.6	261.5
262.0	-	-	-	-	0.3	0.8	1.2	1.6	262.0
262.5	-	-	-	-	0.3	0.7	1.2	1.6	262.5
263.0	-	-	-	-	0.3	0.7	1.1	1.6	263.0
263.5	-	-	-	-	0.3	0.7	1.1	1.5	263.5
264.0	-	-	-	-	0.3	0.7	1.1	1.5	264.0
264.5	-	-	-	-	0.3	0.7	1.1	1.5	264.5
265.0	-	-	-	-	0.2	0.7	1.1	1.5	265.0
265.5	-	-	-	-	0.2	0.6	1.1	1.5	265.5
266.0	-	-	-	-	0.2	0.6	1.0	1.4	266.0
266.5	-	-	-	-	0.2	0.6	1.0	1.4	266.5
267.0	-	-	-	-	0.2	0.6	1.0	1.4	267.0
267.5	-	-	-	-	0.1	0.6	1.0	1.4	267.5
268.0	-	-	-	-	0.1	0.5	1.0	1.4	268.0
268.5	-	-	-	-	0.1	0.5	0.9	1.4	268.5
269.0	-	-	-	-	0.1	0.5	0.9	1.3	269.0
269.5	-	-	-	-	0.1	0.5	0.9	1.3	269.5
270.0	-	-	-	-	0.1	0.5	0.9	1.3	270.0

API GRAVITY = 5.0 TO 10.0

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F								TEMP. F			
	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5				
270.0	-	-	-	-	-	-	-	0.1	0.5	0.9	1.3	270.0
270.5	-	-	-	-	-	-	-	0.0	0.5	0.9	1.3	270.5
271.0	-	-	-	-	-	-	-	0.0	0.4	0.9	1.3	271.0
271.5	-	-	-	-	-	-	-	0.0	0.4	0.8	1.2	271.5
272.0	-	-	-	-	-	-	-	-	0.4	0.8	1.2	272.0
272.5	-	-	-	-	-	-	-	-	0.4	0.8	1.2	272.5
273.0	-	-	-	-	-	-	-	-	0.4	0.8	1.2	273.0
273.5	-	-	-	-	-	-	-	-	0.4	0.8	1.2	273.5
274.0	-	-	-	-	-	-	-	-	0.3	0.7	1.2	274.0
274.5	-	-	-	-	-	-	-	-	0.3	0.7	1.1	274.5
275.0	-	-	-	-	-	-	-	-	0.3	0.7	1.1	275.0
275.5	-	-	-	-	-	-	-	-	0.3	0.7	1.1	275.5
276.0	-	-	-	-	-	-	-	-	0.3	0.7	1.1	276.0
276.5	-	-	-	-	-	-	-	-	0.2	0.7	1.1	276.5
277.0	-	-	-	-	-	-	-	-	0.2	0.6	1.0	277.0
277.5	-	-	-	-	-	-	-	-	0.2	0.6	1.0	277.5
278.0	-	-	-	-	-	-	-	-	0.2	0.6	1.0	278.0
278.5	-	-	-	-	-	-	-	-	0.2	0.6	1.0	278.5
279.0	-	-	-	-	-	-	-	-	0.2	0.6	1.0	279.0
279.5	-	-	-	-	-	-	-	-	0.1	0.5	1.0	279.5
280.0	-	-	-	-	-	-	-	-	0.1	0.5	0.9	280.0
280.5	-	-	-	-	-	-	-	-	0.1	0.5	0.9	280.5
281.0	-	-	-	-	-	-	-	-	0.1	0.5	0.9	281.0
281.5	-	-	-	-	-	-	-	-	0.1	0.5	0.9	281.5
282.0	-	-	-	-	-	-	-	-	0.0	0.5	0.9	282.0
282.5	-	-	-	-	-	-	-	-	0.0	0.4	0.8	282.5
283.0	-	-	-	-	-	-	-	-	0.0	0.4	0.8	283.0
283.5	-	-	-	-	-	-	-	-	-	0.4	0.8	283.5
284.0	-	-	-	-	-	-	-	-	-	0.4	0.8	284.0
284.5	-	-	-	-	-	-	-	-	-	0.4	0.8	284.5
285.0	-	-	-	-	-	-	-	-	-	0.3*	0.8	285.0

Documents

API GRAVITY = 5.0 TO 10.0

API GRAVITY = 5.0 TO 10.0

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	5.0	5.5	6.0	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F					9.0	9.5	10.0	TEMP. F
285.0	-	-	-	-	-	-	-	-	-	0.3	0.8	285.0
285.5	-	-	-	-	-	-	-	-	-	0.3	0.7	285.5
286.0	-	-	-	-	-	-	-	-	-	0.3	0.7	286.0
286.5	-	-	-	-	-	-	-	-	-	0.3	0.7	286.5
287.0	-	-	-	-	-	-	-	-	-	0.3	0.7	287.0
287.5	-	-	-	-	-	-	-	-	-	0.3	0.7	287.5
288.0	-	-	-	-	-	-	-	-	-	0.2	0.6	288.0
288.5	-	-	-	-	-	-	-	-	-	0.2	0.6	288.5
289.0	-	-	-	-	-	-	-	-	-	0.2	0.6	289.0
289.5	-	-	-	-	-	-	-	-	-	0.2	0.6	289.5
290.0	-	-	-	-	-	-	-	-	-	0.2	0.6	290.0
290.5	-	-	-	-	-	-	-	-	-	0.1	0.6	290.5
291.0	-	-	-	-	-	-	-	-	-	0.1	0.5	291.0
291.5	-	-	-	-	-	-	-	-	-	0.1	0.5	291.5
292.0	-	-	-	-	-	-	-	-	-	0.1	0.5	292.0
292.5	-	-	-	-	-	-	-	-	-	0.1	0.5	292.5
293.0	-	-	-	-	-	-	-	-	-	0.1	0.5	293.0
293.5	-	-	-	-	-	-	-	-	-	0.0	0.4	293.5
294.0	-	-	-	-	-	-	-	-	-	0.0	0.4	294.0
294.5	-	-	-	-	-	-	-	-	-	0.0	0.4	294.5
295.0	-	-	-	-	-	-	-	-	-	-	0.4	295.0
295.5	-	-	-	-	-	-	-	-	-	-	0.4	295.5
296.0	-	-	-	-	-	-	-	-	-	-	0.4	296.0
296.5	-	-	-	-	-	-	-	-	-	-	0.3	296.5
297.0	-	-	-	-	-	-	-	-	-	-	0.3	297.0
297.5	-	-	-	-	-	-	-	-	-	-	0.3	297.5
298.0	-	-	-	-	-	-	-	-	-	-	0.3	298.0
298.5	-	-	-	-	-	-	-	-	-	-	0.3	298.5
299.0	-	-	-	-	-	-	-	-	-	-	0.2	299.0
299.5	-	-	-	-	-	-	-	-	-	-	0.2	299.5
300.0	-	-	-	-	-	-	-	-	-	-	0.2	300.0

API GRAVITY = 5.0 TO 10.0

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	10.0	10.5	11.0	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F					14.0	14.5	15.0	TEMP. F
0.0	12.9	13.4	14.0	14.5	15.0	15.6	16.1	16.6	17.2	17.7	18.2	0.0
0.5	12.9	13.4	13.9	14.5	15.0	15.5	16.1	16.6	17.1	17.7	18.2	0.5
1.0	12.8	13.4	13.9	14.4	15.0	15.5	16.0	16.6	17.1	17.6	18.2	1.0
1.5	12.8	13.4	13.9	14.4	14.9	15.5	16.0	16.5	17.1	17.6	18.1	1.5
2.0	12.8	13.3	13.9	14.4	14.9	15.5	16.0	16.5	17.0	17.6	18.1	2.0
2.5	12.8	13.3	13.8	14.4	14.9	15.4	16.0	16.5	17.0	17.6	18.1	2.5
3.0	12.7	13.3	13.8	14.3	14.9	15.4	15.9	16.5	17.0	17.5	18.1	3.0
3.5	12.7	13.3	13.8	14.3	14.8	15.4	15.9	16.4	17.0	17.5	18.0	3.5
4.0	12.7	13.2	13.8	14.3	14.8	15.3	15.9	16.4	16.9	17.5	18.0	4.0
4.5	12.7	13.2	13.7	14.3	14.8	15.3	15.9	16.4	16.9	17.4	18.0	4.5
5.0	12.6	13.2	13.7	14.2	14.8	15.3	15.8	16.4	16.9	17.4	17.9	5.0
5.5	12.6	13.1	13.7	14.2	14.7	15.3	15.8	16.3	16.9	17.4	17.9	5.5
6.0	12.6	13.1	13.7	14.2	14.7	15.2	15.8	16.3	16.8	17.4	17.9	6.0
6.5	12.6	13.1	13.6	14.2	14.7	15.2	15.7	16.3	16.8	17.3	17.9	6.5
7.0	12.5	13.1	13.6	14.1	14.7	15.2	15.7	16.2	16.8	17.3	17.8	7.0
7.5	12.5	13.0	13.6	14.1	14.6	15.2	15.7	16.2	16.7	17.3	17.8	7.5
8.0	12.5	13.0	13.6	14.1	14.6	15.1	15.7	16.2	16.7	17.3	17.8	8.0
8.5	12.5	13.0	13.5	14.1	14.6	15.1	15.6	16.2	16.7	17.2	17.8	8.5
9.0	12.4	13.0	13.5	14.0	14.6	15.1	15.6	16.1	16.7	17.2	17.7	9.0
9.5	12.4	12.9	13.5	14.0	14.5	15.1	15.6	16.1	16.6	17.2	17.7	9.5
10.0	12.4	12.9	13.5	14.0	14.5	15.0	15.6	16.1	16.6	17.1	17.7	10.0
10.5	12.4	12.9	13.4	14.0	14.5	15.0	15.5	16.1	16.6	17.1	17.6	10.5
11.0	12.3	12.9	13.4	13.9	14.5	15.0	15.5	16.0	16.6	17.1	17.6	11.0
11.5	12.3	12.8	13.4	13.9	14.4	15.0	15.5	16.0	16.5	17.1	17.6	11.5
12.0	12.3	12.8	13.4	13.9	14.4	14.9	15.5	16.0	16.5	17.0	17.6	12.0
12.5	12.3	12.8	13.3	13.9	14.4	14.9	15.4	16.0	16.5	17.0	17.5	12.5
13.0	12.2	12.8	13.3	13.8	14.3	14.9	15.4	15.9	16.5	17.0	17.5	13.0
13.5	12.2	12.7	13.3	13.8	14.3	14.8	15.4	15.9	16.4	17.0	17.5	13.5
14.0	12.2	12.7	13.2	13.8	14.3	14.8	15.3	15.9	16.4	16.9	17.5	14.0
14.5	12.2	12.7	13.2	13.7	14.3	14.8	15.3	15.8	16.4	16.9	17.4	14.5
15.0	12.2	12.7	13.2	13.7	14.2	14.8	15.3	15.8	16.3	16.9	17.4	15.0

API GRAVITY = 10.0 TO 15.0

TABLE 5A, GENERALIZED CRUDE OILS
API CORRECTION TO 60 F

TEMP. F	API GRAVITY AT OBSERVED TEMPERATURE CORRESPONDING API GRAVITY AT 60 F										TEMP. F
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0
15.0	12.2	12.7	13.2	13.7	14.2	14.8	15.3	15.8	16.3	16.9	17.4
15.5	12.1	12.7	13.2	13.7	14.2	14.7	15.3	15.8	16.3	16.8	17.4
16.0	12.1	12.6	13.1	13.7	14.2	14.7	15.2	15.8	16.3	16.8	17.3
16.5	12.1	12.6	13.1	13.6	14.2	14.7	15.2	15.7	16.3	16.8	17.3
17.0	12.1	12.6	13.1	13.6	14.1	14.7	15.2	15.7	16.2	16.8	17.3
17.5	12.0	12.6	13.1	13.6	14.1	14.6	15.2	15.7	16.2	16.7	17.3
18.0	12.0	12.5	13.0	13.6	14.1	14.6	15.1	15.7	16.2	16.7	17.2
18.5	12.0	12.5	13.0	13.5	14.1	14.6	15.1	15.6	16.2	16.7	17.2
19.0	12.0	12.5	13.0	13.5	14.0	14.6	15.1	15.6	16.1	16.7	17.2
19.5	11.9	12.5	13.0	13.5	14.0	14.5	15.1	15.6	16.1	16.6	17.2
20.0	11.9	12.4	12.9	13.5	14.0	14.5	15.0	15.6	16.1	16.6	17.1
20.5	11.9	12.4	12.9	13.4	14.0	14.5	15.0	15.5	16.1	16.6	17.1
21.0	11.9	12.4	12.9	13.4	13.9	14.5	15.0	15.5	16.0	16.5	17.1
21.5	11.8	12.4	12.9	13.4	13.9	14.4	15.0	15.5	16.0	16.5	17.0
22.0	11.8	12.3	12.8	13.4	13.9	14.4	14.9	15.5	16.0	16.5	17.0
22.5	11.8	12.3	12.8	13.3	13.9	14.4	14.9	15.4	15.9	16.5	17.0
23.0	11.8	12.3	12.8	13.3	13.8	14.4	14.9	15.4	15.9	16.4	17.0
23.5	11.7	12.3	12.8	13.3	13.8	14.3	14.9	15.4	15.9	16.4	16.9
24.0	11.7	12.2	12.7	13.3	13.8	14.3	14.8	15.3	15.9	16.4	16.9
24.5	11.7	12.2	12.7	13.2	13.8	14.3	14.8	15.3	15.8	16.4	16.9
25.0	11.7	12.2	12.7	13.2	13.7	14.3	14.8	15.3	15.8	16.3	16.9
25.5	11.6	12.2	12.7	13.2	13.7	14.2	14.8	15.3	15.8	16.3	16.8
26.0	11.6	12.1	12.7	13.2	13.7	14.2	14.7	15.2	15.8	16.3	16.8
26.5	11.6	12.1	12.6	13.1	13.7	14.2	14.7	15.2	15.7	16.3	16.8
27.0	11.6	12.1	12.6	13.1	13.6	14.2	14.7	15.2	15.7	16.2	16.7
27.5	11.5	12.1	12.6	13.1	13.6	14.1	14.6	15.2	15.7	16.2	16.7
28.0	11.5	12.0	12.6	13.1	13.6	14.1	14.6	15.1	15.7	16.2	16.7
28.5	11.5	12.0	12.5	13.0	13.6	14.1	14.6	15.1	15.6	16.1	16.7
29.0	11.5	12.0	12.5	13.0	13.5	14.1	14.6	15.1	15.6	16.1	16.6
29.5	11.4	12.0	12.5	13.0	13.5	14.0	14.5	15.1	15.6	16.1	16.6
30.0	11.4	11.9	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.1	16.6

API GRAVITY = 10.0 TO 15.0