Filed on:

2:05 pm, May 28, 2024

Gas Services Department Railroad Commission of Texas Texas No. 100.20.0 (Cancels Texas No. 100.19.0)

NuStar Logistics, L.P

_____taining the Rates, Rules, and Regulations Governing the Transportation by Pipeline of CRUDE PETROLEUM

East Leg – South Texas Crude

Origin	Destination	Rate in Dollars per Barrel of 42 United States Gallons		
Oakville Junction, Live Oak	Corpus Christi North Beach, Nueces	Base Rate	[I] \$1.4459	
County, Texas	County, Texas	Incentive Rate	[I] \$0.4304 ¹	
Pawnee Station, Live Oak County, Texas	Corpus Christi North Beach, Nueces	Base Rate	[I] \$1.8917	
Texas	County, Texas	Incentive Rate	[I] \$0.4304 ^{1, 2}	
Koch Pipeline Pettus Station, Bee	eline Pettus Station. Bee Corpus Christi North Beach, Nueces		[I] \$1.8189	
County, Texas	County, Texas	Incentive Rate	[I] \$0.4304 ¹	
Pawnee Station, Live Oak County,	Koch Pipeline Pettus Station, Bee County,	Base Rate	[I] \$0.5821	
Texas	Texas ⁴	Incentive Rate	[I] \$0.1013 ¹	

Note

NuStar Logistics, L.P. P-5 Permit # 616747; P-4 Permit #s: 08621, 04851 and 09196

The provisions published herein will, if effective, not result in an effect on the quality of the human environment.

ISSUED: May 28, 2024	EFFECTIVE: July 1, 2024		
ISSUED: May 28, 2024 Issued By: [W] <u>David Walter Danny Oliver</u> [W] <u>Senior Executive Vice President NuStar G.P., Inc., as General Partner of NuStar Logistics, L.P.</u> [W] <u>8111 Westchester Drive 19003 IH-10 West</u> [W] <u>Dallas San Antonio, Texas</u> [W] <u>75225 78257</u>	Compiled by: [N] Diane A. Daniels on behalf of NuStar Logistics, L.P. 1300 Main Street Houston, TX 77002 (713) 989-7425 tariffs@energytransfer.com [C] Adam Cummins -Director – FERC Compliance and Regulatory Planning NuStar Logistics, L.P. 19003 IH-10 West		
	San Antonio, TX 78257 210-918-4577		
SYMBOLS: [D] Decrease [W] Change in wording only [C] Cancel [N] New [U] Unchanged rate [I] Increase			

¹ The Incentive Rate is applicable to an Incentive Shipper contracting for transportation of a minimum guaranteed volume of 20,000 barrels per day for a multi-year term for transportation on the East Leg- South Texas Crude.

²The Incentive Rate is applicable to an Incentive Shipper contracting under a combined commitment of at least 25,000 Barrels per day for transportation under the following tariffs: This East Leg – South Texas Crude and the West Leg -South Texas Crude. Product receipts are limited to Segregated Batches of Common Stream of Light Crude Oil as defined in Special Rule 22.

³ Reserved for future use.

⁴ Carrier may offer this temporary, as-available bi-directional service in a given month, and such service shall only be provided in accordance with Special Rule 24 of these Rules and Regulations.

Texas No. 100.20.0 (Cancels Texas No. 100.19.0)

Section I

Rules and Regulations

The following nineteen (1-19) rules are reprinted here pursuant to the requirements of the Texas Railroad Commission Title 16 Part 1 Chapter 3 Rule § 3.71

Carrier (herein generally referred to as "the pipeline", in this tariff) will accept Crude Petroleum (referred to variously in this tariff as "crude oil", "crude", "oil", and "marketable oil", and defined in Rule 1 below) for intrastate transportation by pipeline from the point of origin to the point of destination named in this tariff, subject to the following rules and regulations:

Rule 1 All Marketable Oil To Be Received For Transportation

By the term "marketable oil" is meant any crude petroleum adopted for refining or fuel purposes, properly settled and containing not more than two percent of basic sediment, water, or other impurities above a point six inches below the pipeline connection with the tank. Pipelines shall receive for transportation all such "marketable oil" tendered; but the pipeline shall not be required to receive for shipment from any one person an amount exceeding 3,000 barrels of petroleum in any one day; and, if the oil tendered for transportation differs materially in character from that usually produced in the field and being transported therefrom by the pipeline, then it shall be transported under such terms as the shipper and the owner of the pipeline may agree or the Railroad Commission of Texas ("Commission") may require.

Rule 2 Basic Sediment, How Determined - Temperature

In determining the amount of sediment, water, or other impurities, the pipeline is authorized to make a test of the oil offered for transportation from an average sample from each such tank, by the use of centrifugal machine, or by the use of any other appliance agreed upon by the pipeline and the shipper. The same method of ascertaining the amount of the sediment, water or other impurities shall to used in the delivery as in the receipt of oil. The pipeline shall not be required to receive for transportation, nor shall consignee be required to accept as a delivery, any oil of a higher temperature than 90 degrees Fahrenheit, except that during the summer oil shall be received at any atmospheric temperature, and may be delivered at like temperature. Consignee shall have the same right to test the oil upon delivery at destination that the pipeline has to test before receiving from the shipper.

Rule 3 "Barrel" Defined

For the purpose of these rules, a "barrel" of crude petroleum is declared to be 42 gallons of 231 cubic inches per gallon at sixty degrees Fahrenheit (60°F).

Rule 4 Oil Involved in Litigation, Etc. – Indemnity Against Loss

When any oil offered for transportation is involved in litigation, or the ownership is in dispute, or when the oil appears to be encumbered by lien or charge of any kind, the pipeline may require of shippers an indemnity bond to protect it against all loss.

Rule 5 Storage

The pipeline shall provide, without additional charge, sufficient storage, such as is incident and necessary to the transportation of oil, including storage at destination or so near thereto as to be available for prompt delivery to destination point, for five days from the date of order of delivery at destination.

Rule 6 Identity of Oil, Maintenance of Oil

The pipeline may deliver to consignee, either the identical oil received for transportation, subject to such consequences of mixing with other oil as are incident to the usual pipeline transportation, or it may make delivery from its common stock at destination; provided, if this last be done, the delivery shall be of substantially like kind and market value.

Rule 7 Minimum Quantity To Be Received

The pipeline shall not be required to receive less then one tank carload of oil when oil is offered for loading into tank cars at destination of the pipeline. When oil is offered for transportation for other than tank car delivery, a pipeline shall not be required to receive less than 500 barrels.

Rule 8 Gathering Charges

Tariffs to be filed by a pipeline shall specify separately the charges for gathering of the oil, for transportation, and for delivery.

Rule 9 Gauging, Testing and Deductions

(Reference Commission Special Order No. 20-63, 098, Effective June 18, 1973).

- (A) All crude oil tendered to the pipeline shall be gauged and tested by a representative of the pipeline prior to its receipt by the pipeline. The shipper may be present or represented at the gauging and testing. Quantities shall be computed from correctly compiled tank tables showing 100% of the full capacity of the tanks.
- (B) Adjustments shall be made for temperature from the nearest whole number degree to the basis of 60°F and to the nearest 5/10 API degree gravity in accordance with the volume correction Tables 5A and 6A contained in API Standard 2540, American Society for Testing Materials 01250, Institute of Petroleum 200, first edition, August 1980. The pipeline may deduct the basic sediment, water, and other impurities as shown by the centrifugal or other test agreed upon; and 1% for evaporation and loss during transportation. The net balance shall be the quantity deliverable by the pipeline. In allowing the deductions, it is not the intention of the commission to affect any tax or royalty obligations imposed by the laws of Texas on any producer or shipper of crude oil.

Rule 10 Delivery and Demurrage

The pipeline shall transport oil with reasonable diligence, considering the quality of the oil, the distance of transportation and other material elements, but at any time after receipt of a consignment of oil, upon 24 hours' notice to the consignee, may offer oil for delivery from its common stock at the point of destination, conformable to Rule 6 of this tariff, at a rate not exceeding 10,000 barrels per day of 24 hours. Computation of time of storage (as provided for in Rule 5 of this tariff) shall begin at the expiration of such notice. At the expiration of the time allowed in Rule 5 of this tariff for storage at destination, the pipeline may assess a demurrage charge on oil offered for delivery and remaining undelivered, at a rate for the first 10 days of \$.001 per barrel and thereafter at a rate of \$.0075 per barrel, for each day of 24 hours or fractional part thereof.

Rule 11 Unpaid Charges, Lien For And Sale To Cover

The pipeline shall have a lien on all oil to cover charges for transportation, including demurrage, and it may withhold delivery of oil until the charges are paid. If the charges shall remain unpaid for more than 5 days after notice of readiness to deliver, the pipeline may sell the oil at public auction at the general office of the pipeline on any day not a legal holiday. The date for the sale shall be

not less than 48 hours after publication of notice in a daily newspaper of general circulation published in San Antonio, Texas, the city where the general office of the pipeline is located. The notice shall give the time and place of the sale, and the quantity of the oil to be sold. From the proceeds of the sale, the pipeline may deduct all charges lawfully accruing, including demurrage, and all expenses of the sale. The net balance shall be paid to the person lawfully entitled thereto.

Rule 12 Notice Of Claims

Notice of claim for loss, damage or delay in connection with the shipment of oil must be made in writing to the pipeline within 91 days after the damage, loss, or delay occurred. If the claim is for failure to make delivery, the claim must be made within 91 days after a reasonable time for delivery has elapsed.

Rule 13 Telephone - Telegraph Line - Shipper To Use

If the pipeline maintains a private telegraph or telephone line, a shipper may use it without extra charge, for messages incident to shipments. However, the pipeline shall not be held liable for failure to deliver any messages away from its office or for delay in transmission or for interruption of service.

Rule 14 Contracts Of Transportation

When a consignment of oil is accepted, the pipeline shall give the shipper a run ticket, and shall give the shipper a statement that shows the amount of oil received for transportation, the points of origin and destination, corrections made for temperature, deductions made far impurities, and the rate for such transportation.

Rule 15 Shipper's Tanks, Etc. - Inspection

When a shipment of oil has been offered for transportation, the pipeline shall have the right to go upon the premises where the oil is produced or stored, and have access to any and all tanks or storage receptacles for the purpose of making any examination, inspection, or test authorized by these Rules and Regulations.

Rule 16 Offers In Excess Of Facilities

If oil is offered to the pipeline for transportation in excess of the amount that can be immediately transported, the transportation furnished by the pipeline shall be apportioned among all shippers in proportion to the amounts offered by each; but no offer for transportation shall be considered beyond the amount which the person requesting the shipment then has ready for shipment by the pipeline. The pipeline shall be considered as a shipper of oil produced or purchased by itself and hold for shipment through its line, and its oil shall be entitled to participate in such apportionment.

Rule 17 Interchange of Tonnage

Pipelines shall provide the necessary connections and facilities for the exchange of tonnage at every locality reached by two or more pipelines, when the Commission finds that a necessity exists for connection, and under such regulations as said Commission may determine in each case.

Rule 18 Receipt and Delivery - Necessary Facilities For

The pipeline shall install and maintain facilities for the receipt and delivery of marketable crude petroleum of shippers at any point on its line if the Commission finds that a necessity exists therefor, and under regulations by the Commission.

Rule 19 Report Of Loss From Fire, Lightning and Leakage

- (A) The pipeline shall immediately notify the commission district office, electronically or by telephone, of each fire that occurs at any oil tank owned or controlled by the pipeline, or of any tank struck by lightning. The pipeline shall in like manner report each break or leak in any of its tanks or pipelines from which more than five barrels escape. The pipeline shall file the required information with the commission in accordance with the appropriate commission form within 30 days from the date of the spill or leak.
- (B) No risk of fires, storm, flood or act of God, and no risk resulting from riot, insurrection, rebellion, war, an act of the public enemy, or from quarantine or authority of law or any order, requisition or necessity of the government of the United States in time of war, shall be borne by the pipeline, nor shall any liability accrue to it from any damage thereby occasioned. If loss of any crude oil from such causes occurs after the oil has been received for transportation, and before it has been delivered to the consignee, the shipper shall bear a loss in such proportion as the amount of his shipment is to all of the oil held in transportation by the pipeline at the time of such loss, and the shipper shall be entitled to have delivered only such portion of his shipment as may remain after a deduction of his due proportion of such loss, but in such event the shipper shall be required to pay charges only on the quantity of oil delivered. This rule shall not apply if the loss occurs because of negligence of the pipeline.
- (C) Common carrier pipelines shall mail (return receipt requested) or hand deliver to landowners (persons who have legal title to the property in question) and residents (persons whose mailing address is the property in question) of land upon which a spill or leak has occurred, all spill or leak reports required by the commission for that particular spill or leak within 30 days of filing the required reports with the commission. Registration with the commission by landowners and residents for the purpose of receiving spill or leak reports shall be required every five years, with renewal registration starting January 1, 1999. If a landowner or resident is not registered with the commission, the common carrier is not required to furnish such reports to the resident or landowner.

Section II

Special Rules and Regulations

The Rules and Regulations set forth in Section 1 may be supplemented or amended by these Section II Special Rules. In the event of a conflict between the rules in Section I and the rules in Section II, the rules in Section II shall control.

Special Rule 1 Definitions

"Affiliate" means a Person that directly or indirectly through one or more intermediaries, controls, is controlled by or is under common control with another Person. For purposes of this definition, a Person shall be deemed to have "control" when such Person possesses the power, directly or indirectly, to direct, or cause the direction of, the management and policies of another Person, whether through the ownership of voting securities, by contract or otherwise, including acting as a general partner of a partnership.

"API" means American Petroleum Institute.

"API Gravity" means gravity determined in accordance with ASTM designation and expressed in degrees.

"Assay" means a laboratory analysis of Crude Petroleum to include API Gravity, reid vapor pressure, pour point, sediment and water content, sulfur content, viscosity at 60 degrees Fahrenheit, and other characteristics as may be required by Carrier.

"ASTM" means American Society for Testing Materials.

"Base Period" has the meaning as set forth in Special Rule 15 Section 1.4.

"Base Rate" means the rate paid by an Uncommitted Shipper as published herein.

"Base Shipment Percentage" has the meaning as set forth in Special Rule 15 Section 1.5.

"CCNB" means Corpus Christi North Beach.

"Calculation Month" has the meaning as set forth in Special Rule 15 Section 1.6.

"Capacity" means the quantity of Crude Petroleum the Pipeline Segment at issue is capable of transporting under the current operating conditions.

"Carrier" NuStar Logistics, L.P.

"Collateral" means: (a) all Crude Petroleum accepted by Carrier for transportation, terminalling, or otherwise while in the possession of Carrier in the System; (b) all other property of Shipper now in the possession of and at any time and from time to time hereafter delivered to Carrier but only while in the possession of Carrier in the System; (c) all of Shipper's pre-payments, deposits, balances, and credits with, and any of its claims against, Carrier, at any time existing with regard to the transportation services provided under this Tariff; and (d) the proceeds from any of the foregoing, excluding the proceeds from any sale by Shipper of Crude Petroleum redelivered by Carrier to Shipper pursuant to the Tariff.

"Common Stream" means Crude Petroleum moved through the pipeline and pipeline facilities which is commingled or intermixed with crude petroleums of like quality and characteristics as may be determined by Carrier based on an analysis of a sample of such Crude Petroleum Assays and /or other pertinent analytical data.

"Connecting Carrier" means a pipeline company connected to Carrier.

Compliance Costs has the meaning as set forth in Special Rule 25.

"Consignee" means the party to whom a Shipper has ordered the delivery of Crude Petroleum.

"Crude Petroleum" means (a) The direct liquid product of oil wells (b) a mixture of the direct product of oil wells and the indirect petroleum products resulting either from refining Crude Petroleum or the operation of gasoline recovery plants, gas recycling plants or distillate recovery equipment in gas and distillate fields, or broken out during the normal production or processing of natural gas, or(c) Processed Condensate and in each case meeting the specifications referenced in Special Rules 2 and 22.

"Current Nomination Basis" has the meaning set forth in Special Rule 15 Section 1.3.

"Destination" means a-point named in the Tariff at which point Carrier will deliver Crude Petroleum to Shipper or its Consignee after transportation from an Origin.

"Event of Force Majeure" means any foreseeable or unforeseeable event or occurrence beyond the reasonable control of a Party (the "Affected Party") which by the exercise of due diligence and reasonable care such Affected Party is unable to prevent or overcome that delays or prevents such Affected Party from performing its obligations under this Tariff and a Throughput and Deficiency Agreement (if applicable), including the following: (a) natural phenomena and acts of God such as earthquakes, extreme heat, fires, floods, freezes, hurricanes, landslides, lightening, storms, washouts, wind, and/or any other natural occurrence; (b) strikes, lockouts, boycotts, picketing, labor or other industrial disturbance; (c) epidemics, pandemics, acts of public enemy, wars, acts of terrorism, cyberattacks, acts of drug cartels, theft by third parties, blockades, insurrections, civil unrest or disturbances, sabotage, or riots; (d) acts of any Governmental Authority, including, but not limited to: (i) an order; (ii) modifications to Applicable Law, (iii) the delay or failure to issue a permit; and (iv) the cancellation of a permit (but excluding any such resulting from the failure of the Affected Party to comply with Applicable Law); (e) explosions, shortage of power or other utilities, and/or breakdown, malfunction, failure or accidental damage to lines of pipe, machinery, equipment or storage tanks or failure or interruption of production or transportation facilities; (f) the inability to obtain or unforeseen delays in obtaining materials, equipment, third party services and/or labor (provided that the event that gave rise to such delays would have also been an Event of Force Maieure under this definition had it occurred to one of the Parties); (g) the inability to obtain or unforeseen delays in obtaining (after the exercise of reasonable diligence) land rights, easements, rights of way, and required licenses and permits (including environmental permits, maritime/water crossing permits, road crossing/road hauling permits, railroad licenses and agreements) or any other irrevocable approvals, consents, spatial development plan or zoning variances or amendments, and planning permissions required to construct and to operate the System from any third party property owner and any Governmental Authority; and (h) events of force majeure declared by a third party that interfere with performance under this Tariff and a Throughput and Deficiency Agreement (if applicable), provided that such events of force majeure would otherwise qualify as an Event of Force Majeure under this Tariff and a Throughput and Deficiency Agreement (if applicable) if such events directly occurred with respect to the Affected Party claiming force majeure under this Tariff and a Throughput and Deficiency Agreement (if applicable); provided, however, the following acts or events shall not constitute an Event of Force Majeure: (i) changes in costs of materials or Crude Petroleum, (ii) shortage or other failure to obtain Crude Petroleum, (iii) absence of a market for Crude Petroleum; (iv) availability of more attractive markets for Crude Petroleum or alternative Crude Petroleum transportation systems, or (v) the Affected Party's inability to economically perform its obligations under this Tariff and a Throughput and Deficiency Agreement (if applicable), including the Affected Party's inability or failure to pay amounts accruing under this Tariff and a Throughput and Deficiency Agreement (if applicable) and its indemnification obligations thereunder.

"Gravity & Sulphur Bank" means that certain bank managed to ensure that Shippers are not materially damaged or allowed to benefit from changes in quality and sulfur of Crude Petroleum in the Common Stream.

"Governmental Authority" means any and all applicable federal, state, or local government or other political subdivision thereof, any entity exercising executive, legislative, judicial, regulatory or administrative functions of or pertaining to government or any other government authority, agency, department, board, commission or instrumentality of the United States of America, any state of the United States of America or any political subdivision thereof, any court, tribunal or arbitrator(s) of competent jurisdiction, and any governmental or non-governmental self-regulatory organization, agency or authority, including, but not limited to, a port authority. The term Governmental Authority also means any successor agency with the same or similar functions as those conducted by the enumerated agencies.

"Incentive Rate" means the rate paid by an Incentive Shipper as published in this Tariff.

"Incentive Shipper" means a Shipper that is a party to a Throughput and Deficiency Agreement.

"Law" means any and all applicable federal, state, local, and municipal authorizations, codes, constitutions, decrees, directives, injunctions, laws, licenses, orders, ordinances, permits, regulations, requirements, rules and statutes issued or promulgated by a Governmental Authority.

"Liability(ies)" means any and all actual and threatened actions, causes of action, claims, damages, demands, expenses or fines, costs (including court costs, reasonable defense costs and attorneys' fees), lawsuits, liabilities, losses, obligations, and penalties.

"New Shipper" has the meaning set forth in Special Rule 15 Section 1.1.

"Origin" means a point named in the Tariff at which point Carrier will accept Crude Petroleum for transportation.

"Party" means either Shipper or Carrier, and "Parties" means collectively Shipper and Carrier.

"Nomination" means a request by a Shipper to Carrier of a stated quantity and grade of Crude Petroleum for transportation from a specified Origin or Origins to a specified Destination or Destinations in accordance with these rules and regulations.

"Obligations" means: (a) all antecedent, current, and future charges, fees, or expenses for transportation, terminalling, demurrage, storage, preservation, deficiency payments, special, ancillary, interest, and other lawful charges arising under or related to this Tariff or the contracts entered into in connection with this Tariff (including any Throughput and Deficiency Agreement, invoices, or Nominations); (b) all amounts owed under any modifications, renewals or extensions of any of the foregoing obligations; (c) all other amounts now or in the future owed by Shipper to Carrier, whether or not of the same kind or class as the other obligations owed by Shipper to Carrier arising under or related to this Tariff or the contracts entered into in connection with this Tariff (including any Throughput and Deficiency Agreement, invoices, or Nominations); (d) all costs and expenses of Carrier in exercising any of its rights detailed herein, including, but not limited to, reasonable attorney fees, storage charges, and settlement of conflicting liens; and (e) all charges or expenses described in Tex. Bus. & Com. Code § 7.307(a).

"Pawnee – Pettus Segment" has the meaning set forth in Special Rule 24 Section (B).

"Permit" means any and all approvals, consents, easements, licenses, permits, and/or other requirements from any Governmental Authority required to construct and/or operate the System.

"Person" means any individual, corporation, limited liability company, partnership, trust or other entity.

"Pettus – CCNB Segment" has the meaning set forth in Special Rule 24 Section (A).

"Pipeline Segment" means the section of Carrier's common carrier facilities, the limits of which are defined by two geographically identifiable points, that, because of the way that section of Carrier's common carrier facilities is designed and operated, must be treated as a unit for purposes of determining Capacity.

"Processed Condensate" means liquid hydrocarbons that have been processed through a distillation tower or similar process or equipment.

"R.R.C." means the Railroad Commission of Texas

"Regular Shipper" has the meaning set forth in Special Rule 15 Section 1.2.

"Representatives" means officers, directors, employees, and other representatives of the referenced entity.

"Segregated Batch" means a tender of Crude Petroleum in a batch having specific identifiable characteristics which is moved through the pipeline and pipeline facilities as a unit so as to maintain its quality and characteristics as may be determined based on analysis of a sample of such Crude Petroleum.

"Shipper" means a party who contracts with Carrier for transportation of Crude Petroleum, as defined herein and under the terms of this Tariff.

"System" means Carrier's pipeline system, including all appurtenances thereto, related to the provision of transportation services provided by Carrier pursuant to this Tariff.

"Tariff" means this R.R.C. tariff.

"Throughput and Deficiency Agreement" means an effective Throughput and Deficiency Agreement executed between Carrier and an Incentive Shipper for the provision of service under this Tariff.

"Uncommitted Shipper" means any Shipper that is not an Incentive Shipper.

Special Rule 2 Crude Petroleum, Acceptance of

- (A) Carrier will reject Crude Petroleum containing more than one percent (1%) of basic sediment, water, and other impurities, except that:
 - 1. If required by operating conditions, Carrier will reject Crude Petroleum containing less than one percent (1 %) of basic sediment, water and other impurities.
 - 2. Sediment and water limitations of a Connecting Carrier shall be imposed upon Carrier when such limits are less than that of the Carrier, in which case the limitations of the Connecting Carrier will be applied.
- (B) If required by operating conditions, Carrier will reject any and all of the following shipments:
 - 1. Crude Petroleum having reid vapor pressure in excess of 10 pounds above a temperature of 100 degrees Fahrenheit.
 - 2. Crude Petroleum where the Shipper or Consignee has failed to comply with all applicable laws, rules and regulations made by any governmental authority regulating shipments of Crude Petroleum.
 - 3. Crude Petroleum where sulfur content is greater than 0.50% by weight.

- (C) Shipper shall be responsible for all reasonable expenses incurred by Carrier resulting from Carrier's receipt of any Crude Petroleum which does not comply with the requirements of Special Rule 2.
- (D) Carrier shall have the right to change or modify any provisions in Special Rule 2 as required to meet the quality specifications of upstream or downstream connecting facilities.

Special Rule 3 Additives

Crude Petroleum shall be free of any additives and inhibitors, including drag reducing agents, unless approved by Carrier.

Special Rule 4 Storage

Carrier will only provide working tankage for such storage that is incidental and necessary to the transportation of Crude Petroleum pursuant to this Tariff. Any additional storage in Carrier's tankage, i.e., storage beyond what is incidental and necessary to transportation pursuant to this Tariff, will be subject to the terms and conditions of Carrier's standard storage agreement and is a non-jurisdictional service.

Special Rule 5 Receipt Facilities Required

Carrier will refuse to accept Crude Petroleum for transportation unless satisfactory evidence is furnished that the Shipper or Consignee has provided the necessary tankage facilities at the Origin.

Special Rule 6 Destination Facilities Required

Carrier will refuse to accept Crude Petroleum for transportation unless satisfactory evidence is furnished that the Shipper or Consignee has provided the necessary facilities for the prompt receiving of Crude Petroleum at the Destination e.g. written confirmation by the operator of the terminal at the Destination. If the Shipper or Consignee is unable or refuses to receive said Crude Petroleum as it arrives at Destination, Carrier, if required by operating conditions, will make arrangement for disposition of the Crude Petroleum it deems appropriate in order to clear the Carrier's pipeline. Any additional expenses incurred by Carrier in making such arrangements shall be borne by the Shipper or Consignee.

Special Rule 7 Acceptance Free From Liens and Charges

Carrier will reject any Crude Petroleum which, when nominated for transportation, is involved in litigation, or the title of is in dispute, of which is encumbered by lien or charge of any kind, and Carrier shall require of the Shipper satisfactory evidence of the Shipper's perfect and unencumbered title or satisfactory indemnity bond to protect Carrier. By nominating Crude Petroleum, the Shipper warrants and guarantees that it owns or controls, has the right to deliver or have delivered for its account, such Crude Petroleum, and agrees to hold Carrier harmless for any and all loss, cost, liability, damage and/or expense resulting from failure of ownership or control thereto, provided, that acceptance for transportation shall not be deemed a representation by Carrier as to ownership or control.

Special Rule 8 Gauging, Measurement

No charge shall be made by Carrier for metering Crude Petroleum upon receipt or delivery. Crude Petroleum tendered to Carrier for transportation shall be measured by meter prior to its receipt from Shipper. Quantities shall be determined by dynamic or static measurement methods in accordance with appropriate American Petroleum Institute (API) standards, latest revision and

adjusted to base (reference or standard) conditions. Quantities shall be metered on a one hundred percent (100%) volume basis at the observed fluid temperature. Carrier will correct this one hundred percent volume basis for temperatures from observed degrees Fahrenheit to 60 degrees Fahrenheit. (60°F.) The temperature corrected volume or Total Calculated Volume (TCV) shall be the quantity upon which transportation charges will be assessed. Measurement by the Carrier shall be conclusive and binding absent fraud or manifest error of amount tendered, regardless if Shipper or their Representative is present.

Carrier will adjust any overage or shortage of Crude Petroleum with Shippers to allow for inherent losses or gains, including but not limited to shrinkage, evaporation, interface mixture, product measurements and other physical losses not due to negligence of Carrier. The adjustments for losses or gains will be allocated by grade by month, among the Shippers in the proportion that the total number of barrels of a given grade delivered out of the System, by grade, for each Shipper bears to the total number of barrels of that grade delivered out of the System for all Shippers.

Special Rule 9 Evidence of Receipts and Deliveries

Crude Petroleum received from Shipper and Crude Petroleum delivered to Consignee shall, in each instance, be evidenced by tickets or Carrier's statements containing data essential to the determination of quantity.

Special Rule 10 Operation

- A. General. Carrier will operate the pipeline both as a Common Stream operation and as a Segregated Batch operation.
- B. Common Stream Operation. Shippers will be required, as a condition of nominating Crude Petroleum to be transported as a Common Stream, to participate in a Gravity and Sulfur Bank set forth in this Rule 10 and <u>Exhibits A-D</u> (collectively, the "Rules"). The tables of gravity and sulfur differential values per barrel as attached hereto as <u>Exhibits B and C</u> are incorporated herein and made a part of this Rule.

The weighted average gravity differential value per barrel (for two or more gravities of Crude Petroleum), as hereinafter referred to, shall be obtained in the following manner: Multiply the gravity differential values per barrel by the number of barrels to which such gravity differential values are applicable and then divide the total of the resultant gravity differential values in dollars and cents by the total of the applicable barrels.

Applicable barrels and gravities shall be the net barrels at 60° Fahrenheit (with no deduction for loss allowance) and the gravities recorded by the operator at points where it customarily records gravities and quantities.

The weighted average sulfur differential value per barrel (for two or more sulfur contents of crude petroleum), as hereinafter referred to, shall be obtained in the following manner: Multiply the sulfur differential values per barrel by the number of barrels to which such sulfur differential values are applicable and then divide the total of the resultant sulfur differential values in dollars and cents by the total of the applicable barrels.

Applicable barrels and sulfur content shall be the net barrels at 60° Fahrenheit (with no deduction for loss allowance) and the sulfur content recorded by a competent laboratory for samples obtained by the operator at points where it customarily measures and samples receipts for custody transfer.

Sulfur content as furnished by the laboratory at the true gravity shall be adjusted to reflect its comparison to the reference crude at 35.5° gravity. The adjustment to the test sulfur content shall be made by establishing a ratio of weight per gallon for the gravity of the sample to weight per gallon for the gravity of the reference crude of 35.5° gravity. The Table of Ratio

Factors for Sulfur Adjustments is attached hereto as <u>Exhibit D</u> and made a part of these Rules.

The ratio thus obtained will be applied against the tested sulfur content of the sample to obtain the adjusted sulfur content (gravity ratio x tested sulfur content= adjusted sulfur content). The adjusted sulfur content will then be used to obtain the sulfur differential value per barrel from the table of sulfur differential values per barrel (Exhibit C).

Adjustment between Shippers shall be computed as follows:

- I. Compute the weighted average gravity differential value per barrel of the barrels received from each Shipper. Compute the weighted average sulfur differential value per barrel of the barrels received from each Shipper.
- II. Compute the weighted average gravity differential value per barrel of the composite

Common Stream receipts. III. Determine the following:

- A. If the weighted average gravity differential value per barrel of a Shipper as so determined under Paragraph I above shall be greater than the weighted average gravity differential value per barrel of the aforementioned Common Stream Crude Petroleum as determined under Paragraph II, the difference in cents per barrel shall be calculated and Shipper shall be credited an amount calculated by multiplying said difference in gravity differential value per barrel by the applicable barrels.
- B. If the weighted average gravity differential value per barrel of a Shipper is less than the weighted average gravity differential value per barrel of the aforementioned Common Stream Crude Petroleum, the difference shall be calculated as above outlined and Shipper debited for such difference
- IV. Compute the weighted average sulfur differential value per barrel of the composite Common Stream receipts.
 - A. If the weighted average sulfur differential value per barrel of a Shipper as so determined under Paragraph I above shall be greater than the weighted average sulfur differential value per barrel of the aforementioned Common Stream Crude Petroleum as determined under Paragraph II, the difference In cents per barrel shall be calculated and Shipper shall be debited an amount calculated by multiplying said difference in sulfur differential value per barrel by the applicable barrels.
 - B. If the weighted average sulfur differential value per barrel of a Shipper is less than the weighted average sulfur differential value per barrel of the aforementioned Common Stream Crude Petroleum, the difference shall be calculated as above outlined and Shipper shall be credited for such difference.

A sample calculation is attached as Exhibit A.

These calculations shall be made for each calendar month and the algebraic sum of the adjustments for the System shall be zero \pm one dollar. If a Shipper shall have a net debit balance in combining the two adjustments made above, the balance shall be remitted to the clearinghouse within twenty (20) days from receipt of statement of such debit. If Shipper shall have a credit, the clearinghouse shall remit the amount thereof after receipt by the clearinghouse of the sums from those Shippers having debits as calculated above.

Carrier will only be liable to Shipper for any errors to the Gravity and Sulfur Bank to the extent resulting from fraud, Carrier's gross negligence, or willful misconduct. Shipper must make any claims for such errors by written notice to Carrier within ninety (90) days of the date of the Gravity and Sulfur Bank invoice and Shipper irrevocably waives any claim for which the required notice is not provided within the required time. Any Shipper receiving a windfall from an error in Gravity and Sulfur Bank calculation agrees to refund such windfall, with the adjustment reflected on a future invoice. If the error cannot be reasonably determined, all Shippers agree to a settlement reallocation, and adjustments will be reflected on a future invoice.

C. Segregated Batch. Shippers will be required, as a condition of nominating Crude Petroleum to be transported as a Segregated Batch, to be able to receive the Segregated Batch. Carrier will operate the pipeline as a batched system maintaining the integrity of each Segregated Batch to the extent possible and in accordance with its policies.

Special Rule 11 Duty of Carrier

- (A) Carrier shall not be required to transport Crude Petroleum except with reasonable diligence, considering the quality of the Crude Petroleum, the distance of transportation and other material elements, and will not accept Crude Petroleum to be transported in time for any particular market.
- (B) For Segregated Batch movements, Carrier will use reasonable care to transport Crude Petroleum received to the Destination with a minimum contamination and mixing, and will attempt to maintain the identity of each shipment
- (C) For Common Stream movements, Carrier will not be required to deliver the identical Crude Petroleum received, and Carrier will not be liable for damage or loss, including but not limited to consequential, incidental, direct or indirect damages or damage or lost profits, caused by contamination, discoloration, deterioration, a change in density, or other change in quality of a Shipper's Crude Petroleum resulting from Carrier's transportation of the Crude Petroleum.
- (D). Carrier may suspend transportation services on the Pipeline Segment in order to comply with applicable Laws of any Governmental Authority, to perform maintenance, testing, inspections, or repairs, or to prevent injuries to persons, damage to property, or harm to the environment, without incurring any obligation for any liabilities.

Special Rule 12 Claims

Notice of claims for loss or damage in connection with shipments must be made to Carrier in writing within nine (9) months and one day after same shall have accrued, or, in case of failure to make delivery, within nine (9) months and one day after a reasonable time for delivery shall have elapsed. Such claims, fully amplified, must be filed with Carrier within nine (9) months and one day thereafter, and unless so made and filed, Carrier shall be wholly released and discharged therefrom and shall not be liable therefore in any court of justice. No suit at law or in equity shall be maintained upon any claim unless instituted within two (2) years and one (1) day after the cause of action accrued. Any such loss or damage shall be determined solely on the basis of volumetric loss and not on the monetary value of the Crude Petroleum.

Special Rule 13 Application of Rates from and to Intermediate Points

For Crude Petroleum accepted for transportation from any point on Carrier's lines not named in a particular tariff which is intermediate to a point from which rates are published there, through such unnamed point, Carrier will apply from such unnamed point the rates published therein from the next more distant point specified in such tariff. For Crude Petroleum accepted for transportation to any point not named in a particular tariff which is intermediate to a point to which rates are

published in said tariffs, through such named point, the rate published therein to the next more distant point specified in the tariff will apply. Carrier will file a tariff publication applicable to the transportation movements within 30 days of the start of the service if the intermediate point is to be used on a continuous basis for more than 30 days.

Special Rule 14 Line Fill and Tank Bottom Inventory Requirements

Carrier will require each Shipper to supply a pro rata share of Crude Petroleum necessary for pipeline and tankage fill to ensure efficient operation of the pipeline System prior to delivery. Crude Petroleum provided by Shippers for this purpose may be withdrawn only after: (1) shipments have ceased and Shippers have notified Carrier in writing, on no less than thirty (30) days' notice, to discontinue shipments in Carrier's system; and (2) Shipper balances have been reconciled between Shippers and Carrier. Carrier shall require advance payment of transportation charges on the volumes to be cleared from Carrier' System, and any unpaid accounts receivable, before final delivery will be made. Carrier shall have a reasonable period of time, not to exceed ninety (90) days from the receipt of sold notice to complete administrative and operational requirements incidental to Shipper withdrawal.

If Shipper's inventory balance drops below its pro rata portion of the volume of Crude Petroleum necessary for the efficient operation of Carrier's pipeline System, Carrier will require Shipper to provide the necessary volume to meet its pro rata portion of such volume of Crude Petroleum.

Special Rule 15 Proration of Pipeline Capacity

When a quantity of Crude Petroleum is nominated by Shippers to Carrier which exceeds the Capacity of any Pipeline Segment from an Origin to a Destination, Crude Petroleum nominated by each Shipper for transportation from that Origin to that Destination will be transported in such quantities and at such times to the limit of Carrier's Capacity in a manner determined by Carrier to be equitable to all Shippers. The details of Special Rule 15 are set out in the following paragraphs through 2.9:

1.0 Definitions

- 1.1 "New Shipper" means a Shipper that has not delivered Crude Petroleum to any Destination on the Pipeline Segment to be prorationed within the Base Period. A Shipper that becomes a New Shipper shall remain one for the following 12 consecutive months.
- 1.2 "Regular Shipper" means a Shipper that is not a New Shipper.
- "Current Nomination Basis" means that the portion of Capacity available pursuant to paragraph 2.2 contained in Special Rule 15 to New Shippers will be allocated among all New Shippers in proportion to the volumes of Crude Petroleum nominated by each New Shipper for that month in accordance with Special Rule 16.
- "Base Period" is the 12-calendar-month period just preceding the Calculation Month. Individual months within the Base Period are designated by Nos. 1 through 12, with "Month 1" being the most recent Base Period month and "Month 12" being the oldest Base Period month.
- "Base Shipment Percentage" for each Regular Shipper is the total deliveries of Crude Petroleum to all Destinations on the Pipeline Segment to be prorationed by the Regular Shipper during the Base Period divided by the lessor of (a) twelve or (b) the number of Base Period month within which the Regular Shipper first delivered Crude Petroleum to a Destination on the Pipeline Segment to be prorationed.
- 1.6 "Calculation Month" is the calendar month immediately preceding the month for which Capacity is being prorationed.

2.0 Prorationing of Capacity

- 2.1 When Capacity will be prorationed. Carrier will allocate Capacity among all Shippers for any month for which the Carrier reasonably determines that the aggregate volume of Crude Petroleum that all Shippers nominate to all Destinations in a Pipeline Segment exceeds Capacity. Proration will be applied separately to each Pipeline Segment where a need for prorationing shall arise.
- 2.2 Availability and Allocation of Capacity to New Shippers. Up to ten (10) percent of Capacity shall be made available to New Shippers and will be prorated among them on a Current Nomination Basis.
- 2.3 Availability of Capacity to Regular Shippers. After the allocation of the portion of Capacity to New Shippers that is required by paragraph 2.2, the remaining portion of Capacity for that month shall be available to Regular Shippers who have nominated volumes for that month.
- 2.4 Allocation to each Regular Shipper. Such remaining portion of Capacity shall be allocated among Regular Shippers in proportion to their Base Shipment.

Percentages. In the event that the volume of Crude Petroleum that would be allocated to a Shipper on the basis of its Base Shipment Percentage is greater than the volume it nominates, the difference between its volume calculated on the basis of its Base Shipment Percentage and its volume nominated will be reallocated among all other Regular Shippers in proportion to their Base Shipment Percentages. Any remaining prorated allocation of Capacity after this reallocation among all Regular Shippers in proportion to their Base Shipment Percentages shall be made available to New Shippers and will be prorated among them on a Current Nomination Basis.

- 2.5 Basis of allocation: notification. When prorationing of Capacity is in effect, Capacity shall be allocated among eligible Shippers on a monthly basis and Carrier shall use reasonable efforts to notify each Shipper entitled to an allocation of a portion of Capacity of the amount of its allocation no later than the 25th day of the month proceeding the month for which the allocation is made.
- 2.6 Good Faith Nominations. Carrier will accept only good faith Nominations from Shippers and Carrier shall use whatever reasonable means necessary to determine whether Nominations are made in good faith. Shipper has an obligation to cooperate with Carrier inquiries regarding Good Faith Nominations. Good Faith means the non-contingent ability and willingness of Shipper to deliver to Carrier at the Origins specified in the Nomination all of the Barrels tendered during the month for which the Nomination is made.
- 2.7 Failure to use allocated portion of Capacity. If a New Shipper making a Good Faith Nomination fails to deliver, at the Origins specified by it in its Nomination, Crude Petroleum sufficient to fill the portion of Capacity allocated to it and such failure has not been caused by force majeure, Carrier will reduce such Shipper's allocation for the next proration period after the end of the month during which such failure occurred for which such Shipper nominates as a New Shipper by the allocated portion of Capacity not utilized.
- 2.8 Transfer of Base Shipment Percentage or allocated portion of Capacity; use of affiliates. Neither a Shipper's Base Shipment Percentage nor volumes allocated to it during a period when prorationing is in effect shall be assigned, conveyed, loaned, transferred to, or used in any manner by, another Shipper. However, a Shipper's Base Shipment Percentage or its allocation may be transferred as an incident of the bona fide transfer if the Shipper's business or to a successor to the

Shipper's business by the operation of law, such as an executor or trustee in bankruptcy. A Shipper may not use an affiliated or cooperating entity to increase its Base Shipment Percentage or its allocated portion of Capacity. All transfers made pursuant to this section shall be irrevocable.

2.9 Enhancement of Allocation. In no event will an allocation to a Shipper be used in such a manner that will enhance the allocation of another Shipper beyond the allocation that such Shipper would be entitled to under this policy. Carrier may require written assurances from a responsible officer of Shipper regarding its use of its allocated portion of Capacity stating that Shipper has not violated this policy. In the event any Shipper shall, by any device, scheme or arrangement whatsoever, attempt to transfer all or any part of its allocated portion of Capacity to any other Shipper in violation of this policy, or in the event any Shipper shall attempt to receive and use such portion of Capacity, the portion of Capacity allocated to such Shipper will be reduced in the next month that is subject to prorationing after the date that the violation is discovered by a volume equal to such attempted transfer.

Special Rule 16 Nominations; Minimum Quantity

Crude Petroleum will be transported by Carrier only under a Nomination accepted by Carrier. Any Shipper desiring to tender Crude Petroleum for transportation shall make such Nomination to Carrier in writing on or before 4:15 PM central standard time, the last working day prior to 22nd day of the month preceding the month during which the transportation under the tender is to begin; except that, if space is available for current movement and at the sole discretion of Carrier, a Shipper may tender Crude Petroleum for transportation after 4:15 PM central standard time on the 22nd day of the month preceding the month during which the transportation under the tender is to begin. A "working day" shall be a Monday, Tuesday, Wednesday, Thursday or Friday of a calendar week, except when a Federal holiday falls on such day of the week.

Nominations for the transportation of Crude Petroleum for which Carrier has facilities will be accepted into the pipeline under the Tariff in quantities of not less than the following from one Shipper to one Consignee and Destination as operations permit and provided, with respect to Nominations for Common Stream transportation, such Crude Petroleum is of similar quality and characteristics as is being transported from Origin to Destination:

	Minimum Aggregate Nomination
Common Stream	5,000 barrels per day
Segregated Batch	50,000 barrels

Before Carrier will accept a Nomination from a new Shipper, such Shipper (i) will comply with Special Rule 18(a); (ii) will demonstrate to Carrier the adequacy of such Shipper's facilities as referenced in Special_Rule 5 and Special Rule 6; and (iii) will provide any other information reasonably requested by Carrier.

Special Rule 17 Application of Rates

Crude Petroleum accepted for gathering and/or transportation shall be subject to the rates in effect on the date of delivery by Carrier, irrespective of the date of the tender.

Special Rule 18 Financial Assurances; Payment of Carrier Charges

- (A) Prior to becoming a Shipper, a prospective Shipper must submit to Carrier financial information to establish creditworthiness. The type of information from a prospective Shipper requests include but are not limited to: most recent year end financials, 10K reports or other filings with regulatory agencies and bank references. If, in the reasonable opinion of Carrier: (i) Shipper is not creditworthy, or (ii) if an existing Shipper's credit deteriorates, Carrier shall require such Shipper to prepay all transportation and other fees and lawful charges accruing on Crude Petroleum delivered and accepted by Carrier or supply an irrevocable letter of credit from a bank acceptable to Carrier, with terms in a form acceptable to Carrier.
- (B) The Shipper shall pay all transportation and other fees and lawful charges accruing on Crude Petroleum delivered to and accepted by Carrier for shipment by the due date stated in Carrier's invoice.
- (C) If charges are not paid by the due date stated on the invoice, Carrier reserves the right to assess finance charges on the entire past due balance (including principal and accumulated but unpaid finance charges) until paid in full, at a rate equal to 125% of the prime rate of interest as reported in the Wall Street Journal as of first of the month in which the charges are due or the maximum finance rate allowed by applicable law, whichever is less.

- (D) Carrier reserves the right to withhold an amount of Crude Petroleum belonging to Shipper from delivery that would be sufficient to cover all unpaid charges due to Carrier from Shipper until all such unpaid charges have been paid. Furthermore, Carrier shall retain a perfected possessory lien under Chapter 9 of the Uniform Commercial Code, as applicable, on an amount of a Shipper's Crude Petroleum in Carriers possession sufficient to secure payment of any and all amounts owed by such Shipper to Carrier. Carrier reserves the right to set-off any such charges against any monies owed to Shipper by Carrier or any Crude Petroleum of Shipper in Carrier's custody. If said charges remain unpaid ten (10) days after the due date therefor, Carrier shall have the right, through an agent, to sell such Crude Petroleum at public auction, on any day not a legal holiday, in not less than forty-eight (48) hours after publication of notice of such sale in a daily newspaper of general circulation published in the town or city where the sale is to be held, stating the time, place of sale, and the quantity and location of Crude Petroleum to be sold. At said sale, Carrier shall have the right to bid, and if the highest bidder, to become the purchaser. From the proceeds of said sale, Carrier will pay itself the transportation and all other lawful charges, including expenses incident to said sale, and the balance remaining, if any, shall be held for Shipper or whomsoever may be lawfully entitled thereto.
- (E) Unless otherwise agreed to between Shipper and Carrier, Carrier shall have a first priority, continuous, and continuing security interest in all Collateral to secure the payment of all Obligations from Shipper to Carrier. Such security interest shall survive delivery of any Collateral to Shipper. Shipper shall execute all such agreements and do all such things as Carrier shall reasonably request in connection with the creation or perfection of such security interest. Shipper authorizes Carrier to file such financing statements or other documents necessary to perfect and maintain the security interest herein granted.

The security interest provided herein shall be in addition to any lien provided by statute or common law, including, without limitation, a statutory carrier's lien pursuant to Tex. Bus. & Com. Code § 7.307.

In the event Shipper fails to satisfy when due any Obligation to Carrier, Carrier shall have all of the rights and remedies under applicable Law (including the rights of a secured creditor, without limitation, under the security interest described in this Tariff or the rights under a statutory carrier's lien pursuant to Tex. Bus. & Com. Code § 7.307) and in addition may in its sole discretion and without notice take any or all of the following actions:

- (1) withhold and refuse to deliver Collateral in its possession until all such Obligations have been paid;
- (2) proceed to sell such Collateral, in accordance with the applicable provisions of state law, and apply the proceeds to such Obligations;
- (3) store such Collateral or contract for storage of such Collateral pending sale or other disposition;
- (4) set-off any such Obligations against any monies owed to Shipper by Carrier on any Crude Petroleum of Shipper in Carrier's custody in the System; or
- (5) take any other action it deems necessary for the proper protection and sale of such Collateral. Provided, Carrier may only waive its security interest by written document delivered to Shipper and signed by Carrier.

In the event of a sale of any Collateral, such sale shall be after any reasonable notice required by Law and such a sale shall be a commercially reasonable sale. From the proceeds of said sale, Carrier will pay itself for the Obligations, including expenses incident to said sale, holding the balance of such proceeds, if any, for delivery on demand to any person to which Carrier would have been bound to deliver the Collateral.

If a bill of lading is required under applicable Law for any lien in favor of Carrier to arise or be enforced, acceptance of the Nomination will be deemed to be the bill of lading for all Crude Petroleum subject to such Nomination.

Special Rule 19 Liability of Carrier

- (A) Carrier shall not be liable for any delay in delivery of or any loss of Crude Petroleum caused by acts of God, acts of government, acts of terrorists, storm, flood, extreme weather, fire, explosion, by acts of war, terrorism, quarantine, authority of law, by breakdown or accident to machinery or equipment, or by act of default of Shipper or Consignee resulting from any other cause reasonably beyond the control of Carrier and not due to the negligence of Carrier, whether similar or dissimilar to the causes herein enumerated. Any such loss shall be apportioned by Carrier to each Shipper of Crude Petroleum in the proportion to Shipper's total volume transported in the calendar month in which such loss occurs. Shipper shall be entitled to receive only that portion of its Crude Petroleum remaining after deducting such Shipper's proportion of such loss, as above determined. Carrier shall prepare and submit a statement to each Shipper showing the apportionment of any such loss of Crude Petroleum.
- (B) To the maximum extent permitted by law, Shipper shall release, indemnify, defend and hold harmless Carrier, its Affiliates and its Representatives from and against all Liabilities arising from or related to: (1) the negligent or willful acts or omissions on the part of Shipper, its employees, agents or contractors (including, but not limited to, any contractors transporting products(s) to or from any location on Carrier's System); and/or (2) Liability arising from the chemical characteristics of Crude Petroleum, except to the extent such liability arises from Carrier's negligence.

Special Rule 20 Scheduling of Delivery

When Shippers request delivery from the pipeline at a Destination of a volume of Crude Petroleum greater than can be immediately delivered, Carrier shall schedule delivery. Carrier shall not be liable for any delay in delivery resulting from such scheduling of delivery.

Special Rule 21 Pipage Agreement

Separate agreements in accordance with this tariff and these regulations covering further details will be required by Carrier before any duty for transportation shall arise

Special Rule 22 Establishment of Grades

Carrier will from time to time determine which grades of Crude Petroleum it will regularly transport as a Common Stream and as a Segregated Batch between particular Origins and Destinations on its pipelines.

Common Stream grades are:

Grade	Minimum API Gravity	Maximum API Gravity
[C] Crude Oil	[C] Greater than 25 A PI	[C] Less than or equal to 45
Light Crude Oil	Greater than 45 API	Less than or equal to 55 API
[C] Condensate	[C] Greater than 55 A PI	[C] Less than or equal to 75 API

Segregated grades are:

Grade	Minimum API Gravity	Maximum API Gravity
Processed Condensate	Greater than 40 API	Less than or equal to 60 API

Special Rule 23 Processed Condensate Export

For avoidance of doubt, Carrier is not the exporter of Processed Condensate transported through the pipeline and is not responsible for compliance with any applicable law with respect to the export of Processed Condensate.

Special Rule 24 Bi-Directional Routing

- Carrier's system is designed and intended to provide transportation service in a westward direction from Koch Pipeline Pettus Station, Bee County, Texas to Corpus Christi North Beach, Nueces County, Texas ("Pettus – CCNB Segment"). The terms of service and rate transportation movement are set forth in this Tariff.
 - (B) Carrier does, however, have the capability to temporarily reverse the flow to offer transportation service in an eastwards direction using a section of its pipeline extending between Pawnee Station, Live Oak County, Texas and Koch Pipeline Pettus Station ("Pawnee Pettus Segment").
 - (C) A Shipper desiring to make a westward shipment on the Pettus CCNB Segment in a month should submit a Nomination for such service in accordance with Special Rule 16 of this Tariff. A Shipper desiring to make an eastward shipment on the Pawnee Pettus Segment in a month should submit a Nomination for such service in accordance with Special Rule 16, and specify that the requested shipment will need bi-directional service under this Special Rule 24.
 - (D) Following the receipt of all such Nomination for service, Carrier will make a determination as to whether it can temporarily reverse part of the Pettus CCNB Segment during the requested month in order to offer eastward transportation services on the Pawnee Pettus Segment, in addition to offering the primary westward transportation services on the Pettus CCNB Segment. Carrier will consider, among other things,

the following factors when determining whether to reverse part of the Pettus – CCNB Segment: the level of Nominations received for westward transportation service on the Pettus – CCNB Segment, the level of Nominations received for eastward transportation service on the Pawnee – Pettus Segment, and the expense that will be required to perform the reversal of part of the Pettus – CCNB Segment. Carrier will reverse part of the Pettus – CCNB Segment in a given month only when and to the extent that all volumes of Crude Petroleum nominated for westward transportation service on the Pettus - CCNB Segment can be accepted by Carrier without prorationing and there is sufficient remaining Capacity to provide temporary eastward transportation service on the Pawnee – Pettus Segment.

(E) Carrier will notify all interested parties no later than the 27th day of the month preceding the month of transportation as to whether Carrier will temporarily reverse part of the Pettus - CCNB Segment during the requested month and offer transportation service in an eastward direction on the Pawnee – Pettus Segment, in addition to offering the primary westward transportation services on the Pettus - CCNB Segment.

Special Rule 25 Compliance Costs

If there is an enactment of, or change in, Law which (i) necessitates or otherwise results in an increase in Carrier's operating expenses, (ii) requires additions or modifications to Carrier's equipment or facilities, (iii) levies a tax or similar assessment related to the System and/or Shipper's Crude Petroleum, or (iv) requires Carrier or any of its Affiliates to hold or acquire emission allowances or their equivalent related to the System and/or Shipper's Crude Petroleum (collectively, "Compliance Costs"), then Carrier may seek recovery of such costs from Shippers through rates or the establishment of a surcharge, provided, however, that with respect to clause (iv) above, in lieu of paying Shipper's pro rata share of the costs for Carrier or its Affiliate to acquire emission allowances or their equivalent, to the extent allowed by Law and subject to and in accordance with regulatory requirements and industry standards with respect to the manner of obtaining the allowances or their equivalent, Shipper may elect to provide those allowances to Carrier or its Affiliates, as appropriate, in a timely manner or indemnify such entities for any consequences of providing them late.

Special Rule 26 Event of Force Majeure

If an Event of Force Majeure renders a party unable, in whole or in part, to carry out its Obligations under this Tariff and a Throughput and Deficiency Agreement (if applicable), such party must give the other party notice in writing as soon as practicable after the occurrence, or give notice by telephone and follow such notice with a written confirmation.

The party providing notice of the Event of Force Majeure shall use commercially reasonable efforts to: (a) correct the events or conditions resulting in the Event of Force Majeure; (b) resume the continuation of its performance under this Tariff and a Throughput and Deficiency Agreement (if applicable); and (c) minimize the impact of such Event of Force Majeure; provided, however, a Party shall not be compelled to resolve any strikes, lockouts or other industrial disputes other than as it shall determine to be in its best interests. An Event of Force Majeure will not excuse either Party's failure to perform any release, indemnity, defense, hold harmless, or payment obligations under this Tariff or a Throughput and Deficiency Agreement.

Special Rule 27 Carrier Discretion

Carrier will operate its System and implement the rules, regulations and rates contained in this Tariff, including those provisions providing for Carrier's discretion, in a manner that is not unduly discriminatory or unduly preferential, and not inconsistent with the terms and conditions of any Throughput and Deficiency Agreement(s).

Special Rule 28 Survival

All Rules of this Tariff that survive the termination of the transportation services by their nature shall survive, including, but not limited to, all payment obligations and indemnification obligations.

Rule 29 Governing Law and Jurisdiction

Subject to applicable Law, this Tariff and all of the rights and duties of the Shipper and Carrier arising from this Tariff will be governed, construed and enforced in accordance with the substantive and procedural laws of the State of Texas, without reference to the choice of law principles thereof. Except for disputes that fall within the jurisdiction of the Federal Energy Regulatory Commission or the Railroad Commission of Texas, any disputes arising out of this Tariff, including but not limited to tort claims, will be subject to the exclusive jurisdiction of the U.S. District Court located in Harris County, Texas if federal jurisdiction is available and to the courts of the State of Texas located in Harris County, Texas if federal jurisdiction is not available. To the maximum extent permitted by Law, and in any legal action or proceeding relating to, arising out of, or in connection with this Tariff, each of Shipper and Carrier hereby voluntarily, irrevocably and unconditionally (1) submits to the exclusive jurisdiction of the U.S. District Court located in Harris County, Texas if federal jurisdiction is available and to the courts of the State of Texas located in Harris County, Texas if federal jurisdiction is not available, and waives any objection which it may now or hereafter have (a) to the jurisdiction and laying of venue of any suit, action or proceeding arising out of or relating to this Tariff, in the courts referenced in this paragraph and/or (b) to the choice of applying the substantive and procedural laws of the State of Texas, without reference to the choice of law principles thereof, (2) waives, the defense of an inconvenient forum to the maintenance of such action or proceeding in any such court, with the express intent that such provision shall apply, and (3) WAIVES ITS RIGHT TO A TRIAL BY JURY. To the extent that Shipper has or hereafter may acquire any immunity from jurisdiction of any court or from any legal process, Shipper hereby waives such immunity and agrees not to assert, by way of motion, as a defense or otherwise, in any suit, action or proceeding the defense of sovereign immunity to either attachment or jurisdiction or any claim that it is not personally subject to the jurisdiction of the above-named courts by reason of sovereign immunity or otherwise, or that it is immune from any legal process (whether through service of notice, attachment prior to judgment, attachment in aid of execution, execution or otherwise) with respect to itself, the Crude Petroleum, or its property or from attachment either prior to judgment or in aid of execution by reason of sovereign immunity. Each Party agrees that the State of Texas has a substantial relationship to Shipper and Carrier and to the matters made the basis of this Tariff. Each Party agrees that to the knowledge of Shipper and Carrier, the application of the laws of the State of Texas would not be contrary to a fundamental policy of a state, if any, having a materially greater interest than the State of Texas in the determination of any dispute that may arise out of this Tariff and which such state would be the state of applicable Law in the absence of an effective choice of the laws of the State of Texas by Shipper and Carrier.

EXHIBIT A GRAVITY BANKS AND SULFUR BANKS EXAMPLE CALCULATION

BBLS REC'D x GRAV DIFF

790,500.00 830,014.83 351,298.20 1,971,813.03

LOCATION	SHIPPER	BBL'D RECEIVED	Tested % SULFUR	API GRAV	EXHIBIT D RATIO TO 35.5 WT.	Adjusted % SULFUR	EXHIBIT C SULFUR DIFF	EXHIBIT B GRAVITY DIFF	BBLS REC'D x SULFUR DIFF
JONES LEASE ABC TRUCK ACT SMITH LEASE	A B C	155,000.00 165,341.60 82,658.40 403,000.00	0.20 0.30 0.40	45.0 36.0 30.0	0.94614 0.99702 1.03416	0.19 0.30 0.41	1.19 1.30 1.41	\$5.10 \$5.02 \$4.25	184,450.00 214,944.08 116,548.34 515,942.42
JONES LEASE	SHIPPER A	COMMON STREAT COMMON STREAT COMMON STREAT CALCULATION: (WEIGHTED AVEFOALCULATION: (CURRENT MONTION)	RAGE GRAV 4.892836308 RAGE SULFI 1.19 - 1.2802	ITY VALUE - 5.10) x 15 JR VALUE: 254154) x 1	GE SULFUR \ E: 790,500.00/- 55,000 = :184,450.00/15 55,000 =	/ALUE: 515,9 155,000 =			4.892836308 1.280254154
ABC TRUCK ACT	SHIPPER B	WEIGHTED AVER CALCULATION: (WEIGHTED AVER CALCULATION: (CURRENT MONTI	RAGE GRAV 4.892836308 RAGE SULFU 1.30 - 1.2802	ITY VALUE - 5.02) x 1 JR VALUE: 254154) x 1	E: 830,014.83/ 65,341.6 = : 214,944.08/1 65,341.6 =		5.02 1.30	(\$21,025.45) \$3,264.81 (\$17,760.64)	
SMITH LEASE	SHIPPER C	WEIGHTED AVER CALCULATION: (WEIGHTED AVER CALCULATION: (CURRENT MONTI	4.892836308 RAGE SULFU 1.41 - 1.2802	- 4.25) x 8 JR VALUE: 254154) x 8	2,658.4 = : 116,548.34/8 :2,658.4 =	,	4.25 1.41 BANK SUM	\$53,135.82 \$10,724.58 \$63,860.40	

EXHIBIT B - ADJUSTMENT AUTHORIZATION TABLES OF DIFFERENTIALS FOR USE IN DETERMINING ADJUSTMENTS FOR DIFFERENCE IN GRAVITY OF CRUDE PETROLEUM

GRAVITY PER BBL GRAVITY PER BBL GRAVITY PER BBL 100 1.250 16.0 2.150 22.0 3.050 22.0 3.350 3.501 10.1 1.265 16.1 2.165 22.1 3.085 22.1 3.085 22.1 3.085 10.2 1.280 16.2 2.180 22.2 3.080 28.2 3.980 10.3 1.285 16.3 2.195 22.3 3.095 28.3 3.995 10.4 1.310 16.4 2.210 22.4 3.110 28.4 4.010 10.5 1.325 16.5 2.225 22.5 3.125 28.5 4.025 10.6 1.340 16.6 2.240 22.6 3.140 28.6 4.040 10.7 1.355 16.7 2.255 22.7 3.155 28.7 4.055 10.8 1.370 16.8 2.270 22.8 3.170 28.8 4.070 10.8 1.370 16.8 2.270 22.8 3.170 28.8 4.070 10.9 1.385 16.9 2.285 22.9 3.185 28.9 4.070 10.9 1.385 16.9 2.285 22.9 3.185 28.9 4.070 10.9 1.385 16.9 2.285 22.9 3.185 28.9 4.070 11.1 1.415 17.1 2.315 23.1 3.215 29.1 4.115 11.2 1.430 17.2 2.330 23.2 3.230 29.2 4.130 11.3 1.445 17.3 2.345 23.3 3.245 29.3 4.145 11.3 1.445 17.3 2.345 23.3 3.245 29.3 4.145 11.4 1.460 17.4 2.360 23.4 3.260 29.4 4.160 11.5 1.476 17.5 2.375 23.5 3.275 29.5 4.175 11.6 1.470 17.6 2.390 23.6 3.290 29.6 4.179 11.7 1.505 17.7 2.405 23.7 3.305 29.7 4.205 11.8 1.520 17.8 2.420 23.8 3.320 29.8 4.179 11.7 1.505 17.7 2.405 23.7 3.305 29.7 4.205 11.8 1.550 18.2 2.450 24.4 3.385 30.0 4.250 11.8 1.550 18.0 2.450 24.4 3.385 30.0 4.250 12.1 1.565 18.1 2.465 24.1 3.385 30.1 4.265 12.2 1.580 18.2 2.450 24.4 3.380 30.2 2.88 4.200 12.2 1.580 18.2 2.450 24.4 3.380 30.2 2.88 12.2 1.580 18.2 2.450 24.4 3.410 30.4 4.310 30.4 4.310 30.4 4.310 30.4 4.310 30.4 4.310 30.4 4.310 30.4 4.310 30.4 4.310 30.4 4.310 30.4 4.310 30.4 4.310 30.4 4.310 30.4 4.310 30.4 4.310 30.4 4.310 30.5	API	DIFF.	API	DIFF.	API	DIFF.	API	DIFF.
10.0								
10.1 1.286								
10.2								
10.3							-	
10.4								
10.5								
10.6	10.5				22.5			
10.7		1.340					-1	
10.8								
10.9							-1	
11.0					22.9			
11.2								
11.2	11.1	1.415	17.1	2.315	23.1	3.215	29.1	4.115
11.3 1.445 17.3 2.345 23.3 3.245 29.3 4.145 11.4 1.460 17.4 2.360 23.4 3.260 29.4 4.160 11.5 1.475 17.5 2.375 23.5 3.275 29.5 4.175 11.6 1.490 17.6 2.390 23.6 3.290 22.6 4.190 11.7 1.505 17.7 2.405 23.7 3.305 29.7 4.205 11.8 1.520 17.8 2.420 23.8 3.320 29.8 4.220 11.9 1.535 17.9 2.435 23.9 3.335 29.9 4.235 12.0 1.550 18.0 2.450 24.0 3.350 30.0 4.250 12.1 1.565 18.1 2.465 24.1 3.365 30.1 4.265 12.2 1.586 18.2 2.480 24.2 3.380 30.2 4.280 12.2 1.586	11.2	1.430	17.2	2.330	23.2	3.230	29.2	4.130
11.4 1.460 17.4 2.360 23.4 3.260 29.4 4.160 11.5 1.475 17.5 2.375 23.5 3.275 29.5 4.175 11.6 1.490 17.6 2.390 23.6 3.290 29.6 4.190 11.7 1.505 17.7 2.405 23.7 3.305 29.7 4.205 11.8 1.520 17.8 2.420 23.8 3.320 29.8 4.220 11.9 1.555 17.9 2.435 23.9 3.350 30.0 4.255 12.0 1.556 18.0 2.450 24.0 3.350 30.0 4.251 12.1 1.566 18.1 2.465 24.1 3.365 30.1 4.265 12.2 1.580 18.2 2.480 24.2 3.380 30.2 4.280 12.3 1.595 18.3 2.495 24.3 3.395 30.3 4.295 12.4 1.610			17.3	2.345	23.3	3.245	29.3	4.145
11.6 1.490 17.6 2.390 23.6 3.290 29.6 4.190 11.7 1.505 17.7 2.405 23.7 3.305 29.7 4.205 11.8 1.520 17.8 2.420 23.8 3.320 29.8 4.220 11.9 1.535 17.9 2.435 23.9 3.335 29.9 4.235 12.0 1.556 18.0 2.450 24.0 3.350 30.0 4.256 12.1 1.565 18.1 2.465 24.1 3.365 30.1 4.265 12.2 1.580 18.2 2.480 24.2 3.380 30.2 4.280 12.3 1.595 18.3 2.495 24.3 3.396 30.3 4.280 12.3 1.595 18.3 2.495 24.3 3.396 30.3 4.280 12.2 1.660 18.8 2.510 24.4 3.410 30.4 4.310 12.5 1.625			17.4	2.360	23.4	3.260	29.4	4.160
11.7 1.505 17.7 2.405 23.7 3.305 29.7 4.205 11.8 1.520 17.8 2.420 23.8 3.320 29.8 4.220 11.9 1.535 17.9 2.435 23.9 3.335 29.9 4.235 12.0 1.550 18.0 2.450 24.0 3.350 30.0 4.250 12.1 1.565 18.1 2.465 24.1 3.365 30.1 4.265 12.2 1.580 18.2 2.480 24.2 3.390 30.2 4.280 12.2 1.5895 18.3 2.495 24.3 3.3995 30.3 4.285 12.4 1.610 18.4 2.510 24.4 3.410 30.4 4.310 12.5 1.625 18.5 2.555 24.5 3.425 30.5 4.325 12.6 1.640 18.6 2.540 24.8 3.470 30.8 4.370 12.8 1.670 <td>11.5</td> <td>1.475</td> <td>17.5</td> <td>2.375</td> <td>23.5</td> <td>3.275</td> <td>29.5</td> <td>4.175</td>	11.5	1.475	17.5	2.375	23.5	3.275	29.5	4.175
11.7 1.505 17.7 2.405 23.7 3.305 29.7 4.205 11.8 1.520 17.8 2.420 23.8 3.320 29.8 4.220 11.9 1.535 17.9 2.435 23.9 3.335 29.9 4.235 12.0 1.550 18.0 2.450 24.0 3.350 30.0 4.250 12.1 1.565 18.1 2.465 24.1 3.365 30.1 4.265 12.2 1.580 18.2 2.480 24.2 3.390 30.2 4.281 12.3 1.595 18.3 2.495 24.3 3.095 30.3 4.295 12.4 1.610 18.4 2.510 24.4 3.410 30.4 4.310 12.5 1.625 18.5 2.525 24.5 3.425 30.5 4.325 12.6 1.640 18.6 2.540 24.8 3.470 30.6 4.340 12.7 1.655	11.6	1.490	17.6	2.390	23.6	3.290	29.6	4.190
11.8 1.520 17.8 2.420 23.8 3.320 29.8 4.220 11.9 1.535 17.9 2.435 23.9 3.335 29.9 4.235 12.0 1.5565 18.0 2.450 24.0 3.350 30.0 4.255 12.1 1.565 18.1 2.465 24.1 3.365 30.1 4.265 12.2 1.580 18.2 2.480 24.2 3.390 30.2 4.280 12.3 1.595 18.3 2.495 24.3 3.395 30.3 4.295 12.4 1.610 18.4 2.510 24.4 3.410 30.4 4.310 12.5 1.625 18.5 2.525 24.5 3.425 30.5 4.325 12.6 1.640 18.6 2.540 24.6 3.440 30.6 4.340 12.7 1.655 18.7 2.555 24.7 3.455 30.7 4.355 12.8 1.670								
11.9 1.535 17.9 2.435 23.9 3.335 29.9 4.235 12.0 1.550 18.0 2.450 24.0 3.350 30.0 4.265 12.1 1.565 18.1 2.460 24.1 3.365 30.1 4.265 12.2 1.580 18.2 2.480 24.2 3.380 30.2 4.280 12.3 1.595 18.3 2.495 24.3 3.395 30.3 4.295 12.4 1.610 18.4 2.510 24.4 3.410 30.4 4.310 12.5 1.625 18.5 2.525 24.5 3.425 30.5 4.325 12.6 1.640 18.6 2.540 24.6 3.440 30.6 4.340 12.7 1.655 18.7 2.555 24.7 3.455 30.7 4.355 12.8 1.670 18.8 2.570 24.8 3.470 30.8 4.370 12.9 1.685	11.8	1.520	17.8	2.420	23.8	3.320	29.8	
12.1 1.565 18.1 2.465 24.1 3.365 30.1 4.265 12.2 1.580 18.2 2.480 24.2 3.380 30.2 4.280 12.3 1.595 18.3 2.495 24.3 3.395 30.3 4.295 12.4 1.610 18.4 2.510 24.4 3.410 30.4 4.310 12.5 1.625 18.5 2.525 24.5 3.425 30.5 4.325 12.6 1.640 18.6 2.540 24.6 3.440 30.6 4.340 12.7 1.655 18.7 2.555 24.7 3.455 30.7 4.355 12.8 1.670 18.8 2.570 24.8 3.470 30.8 4.370 12.9 1.685 18.9 2.585 24.9 3.485 30.9 4.385 13.0 1.700 19.0 2.600 25.0 3.500 31.0 4.401 13.1 1.715	11.9	1.535	17.9	2.435	23.9	3.335	29.9	4.235
12.1 1.565 18.1 2.465 24.1 3.365 30.1 4.265 12.2 1.580 18.2 2.480 24.2 3.380 30.2 4.280 12.3 1.595 18.3 2.495 24.3 3.395 30.3 4.295 12.4 1.610 18.4 2.510 24.4 3.410 30.4 4.310 12.5 1.625 18.5 2.525 24.5 3.425 30.5 4.325 12.6 1.640 18.6 2.540 24.6 3.440 30.6 4.340 12.7 1.655 18.7 2.555 24.7 3.455 30.7 4.355 12.8 1.670 18.8 2.570 24.8 3.470 30.8 4.370 12.9 1.685 18.9 2.585 24.9 3.485 30.9 4.385 13.0 1.700 19.0 2.600 25.0 3.500 31.0 4.401 13.1 1.715	12.0	1.550	18.0	2.450	24.0	3.350	30.0	
12.3 1.595 18.3 2.495 24.3 3.395 30.3 4.295 12.4 1.610 18.4 2.510 24.4 3.410 30.4 4.310 12.5 1.625 18.5 2.525 24.5 3.425 30.5 4.325 12.6 1.640 18.6 2.540 24.6 3.440 30.6 4.340 12.7 1.655 18.7 2.555 24.7 3.455 30.7 4.355 12.8 1.670 18.8 2.570 24.8 3.470 30.8 4.370 12.9 1.685 18.9 2.585 24.9 3.485 30.9 4.385 13.0 1.700 19.0 2.600 25.0 3.500 31.0 4.400 13.1 1.715 19.1 2.615 25.1 3.515 31.1 4.415 13.2 1.730 19.2 2.630 25.2 3.530 31.2 4.430 13.3 1.745	12.1	1.565	18.1	2.465	24.1	3.365	30.1	4.265
12.4 1.610 18.4 2.510 24.4 3.410 30.4 4.310 12.5 1.625 18.5 2.525 24.5 3.426 30.5 4.325 12.6 1.640 18.6 2.540 24.6 3.440 30.6 4.340 12.7 1.655 18.7 2.555 24.7 3.455 30.7 4.355 12.8 1.670 18.8 2.570 24.8 3.470 30.8 4.370 12.9 1.685 18.9 2.585 24.9 3.485 30.9 4.385 13.0 1.700 19.0 2.600 25.0 3.500 31.0 4.400 13.1 1.715 19.1 2.615 25.1 3.515 31.1 4.415 13.2 1.730 19.2 2.630 25.2 3.530 31.2 4.430 13.3 1.745 19.3 2.645 25.3 3.545 31.3 4.446 13.4 1.760	12.2	1.580	18.2	2.480	24.2	3.380	30.2	4.280
12.5 1.625 18.5 2.525 24.5 3.425 30.5 4.325 12.6 1.640 18.6 2.540 24.6 3.440 30.6 4.340 12.7 1.655 18.7 2.555 24.7 3.455 30.7 4.355 12.8 1.670 18.8 2.570 24.8 3.470 30.8 4.370 12.9 1.685 18.9 2.585 24.9 3.485 30.9 4.385 13.0 1.700 19.0 2.600 25.0 3.500 31.0 4.400 13.1 1.715 19.1 2.615 25.1 3.515 31.1 4.415 13.2 1.730 19.2 2.630 25.2 3.530 31.2 4.430 13.3 1.745 19.3 2.645 25.3 3.545 31.3 4.446 13.4 1.760 19.4 2.660 25.4 3.560 31.4 4.460 13.5 1.775	12.3	1.595	18.3	2.495	24.3	3.395	30.3	4.295
12.6 1.640 18.6 2.540 24.6 3.440 30.6 4.340 12.7 1.655 18.7 2.555 24.7 3.455 30.7 4.355 12.8 1.670 18.8 2.585 24.9 3.485 30.9 4.385 13.0 1.700 19.0 2.600 25.0 3.500 31.0 4.400 13.1 1.715 19.1 2.615 25.1 3.515 31.1 4.415 13.2 1.730 19.2 2.630 25.2 3.530 31.2 4.430 13.3 1.745 19.3 2.645 25.3 3.545 31.3 4.445 13.4 1.760 19.4 2.660 25.4 3.560 31.4 4.450 13.5 1.775 19.5 2.675 25.5 3.575 31.5 4.475 13.6 1.790 19.6 2.690 25.6 3.590 31.6 4.490 13.7 1.805	12.4	1.610	18.4	2.510	24.4	3.410	30.4	4.310
12.7 1.655 18.7 2.555 24.7 3.455 30.7 4.355 12.8 1.670 18.8 2.570 24.8 3.470 30.8 4.370 12.9 1.685 18.9 2.585 24.9 3.485 30.9 4.385 13.0 1.700 19.0 2.600 25.0 3.500 31.0 4.400 13.1 1.715 19.1 2.615 25.1 3.515 31.1 4.415 13.2 1.730 19.2 2.630 25.2 3.530 31.2 4.430 13.3 1.745 19.3 2.645 25.3 3.545 31.3 4.445 13.4 1.760 19.4 2.660 25.4 3.560 31.4 4.460 13.5 1.775 19.5 2.675 25.5 3.575 31.5 4.475 13.6 1.790 19.6 2.690 25.6 3.590 31.6 4.490 13.7 1.805	12.5	1.625	18.5	2.525	24.5	3.425	30.5	4.325
12.8 1.670 18.8 2.570 24.8 3.470 30.8 4.370 12.9 1.685 18.9 2.585 24.9 3.485 30.9 4.385 13.0 1.700 19.0 2.600 25.0 3.500 31.0 4.400 13.1 1.715 19.1 2.615 25.1 3.515 31.1 4.415 13.2 1.730 19.2 2.630 25.2 3.530 31.2 4.430 13.3 1.745 19.3 2.645 25.3 3.545 31.3 4.445 13.4 1.760 19.4 2.660 25.4 3.560 31.4 4.460 13.5 1.775 19.5 2.675 25.5 3.575 31.5 4.475 13.6 1.790 19.6 2.690 25.6 3.590 31.6 4.490 13.7 1.805 19.7 2.705 25.7 3.605 31.7 4.505 13.8 1.820	12.6	1.640	18.6	2.540	24.6	3.440	30.6	4.340
12.9 1.685 18.9 2.585 24.9 3.485 30.9 4.385 13.0 1.700 19.0 2.600 25.0 3.500 31.0 4.400 13.1 1.715 19.1 2.615 25.1 3.515 31.1 4.415 13.2 1.730 19.2 2.630 25.2 3.530 31.2 4.430 13.3 1.745 19.3 2.645 25.3 3.545 31.3 4.445 13.4 1.760 19.4 2.660 25.4 3.560 31.4 4.460 13.5 1.775 19.5 2.675 25.5 3.575 31.5 4.475 13.6 1.790 19.6 2.690 25.6 3.590 31.6 4.490 13.7 1.805 19.7 2.705 25.7 3.605 31.7 4.505 13.8 1.820 19.8 2.720 25.8 3.620 31.8 4.520 13.8 1.835	12.7	1.655	18.7	2.555	24.7	3.455	30.7	4.355
12.9 1.685 18.9 2.585 24.9 3.485 30.9 4.385 13.0 1.700 19.0 2.600 25.0 3.500 31.0 4.400 13.1 1.715 19.1 2.615 25.1 3.515 31.1 4.415 13.2 1.730 19.2 2.630 25.2 3.530 31.2 4.430 13.3 1.745 19.3 2.645 25.3 3.545 31.3 4.445 13.4 1.760 19.4 2.660 25.4 3.560 31.4 4.460 13.5 1.775 19.5 2.675 25.5 3.575 31.5 4.475 13.6 1.790 19.6 2.690 25.6 3.590 31.6 4.490 13.7 1.805 19.7 2.705 25.7 3.605 31.7 4.505 13.8 1.820 19.8 2.720 25.8 3.620 31.8 4.520 13.9 1.835	12.8	1.670	18.8	2.570	24.8	3.470	30.8	4.370
13.0 1.700 19.0 2.600 25.0 3.500 31.0 4.400 13.1 1.715 19.1 2.615 25.1 3.515 31.1 4.415 13.2 1.730 19.2 2.630 25.2 3.530 31.2 4.430 13.3 1.745 19.3 2.645 25.3 3.545 31.3 4.445 13.4 1.760 19.4 2.660 25.4 3.560 31.4 4.460 13.5 1.775 19.5 2.675 25.5 3.575 31.5 4.475 13.6 1.790 19.6 2.690 25.6 3.590 31.6 4.490 13.7 1.805 19.7 2.705 25.7 3.605 31.7 4.505 13.8 1.820 19.8 2.720 25.8 3.620 31.8 4.520 13.9 1.835 19.9 2.735 25.9 3.635 31.9 4.535 14.0 1.865	12.9		18.9	2.585	24.9	3.485	30.9	4.385
13.2 1.730 19.2 2.630 25.2 3.530 31.2 4.430 13.3 1.745 19.3 2.645 25.3 3.545 31.3 4.445 13.4 1.760 19.4 2.660 25.4 3.560 31.4 4.460 13.5 1.775 19.5 2.675 25.5 3.575 31.5 4.475 13.6 1.790 19.6 2.690 25.6 3.590 31.6 4.490 13.7 1.805 19.7 2.705 25.7 3.605 31.7 4.505 13.8 1.820 19.8 2.720 25.8 3.620 31.8 4.520 13.9 1.835 19.9 2.735 25.9 3.635 31.9 4.535 14.0 1.850 20.0 2.750 26.0 3.650 32.0 4.550 14.1 1.865 20.1 2.765 26.1 3.665 32.1 4.565 14.2 1.880	13.0		19.0	2.600	25.0	3.500	31.0	4.400
13.3 1.745 19.3 2.645 25.3 3.545 31.3 4.445 13.4 1.760 19.4 2.660 25.4 3.560 31.4 4.460 13.5 1.775 19.5 2.675 25.5 3.575 31.5 4.475 13.6 1.790 19.6 2.690 25.6 3.590 31.6 4.490 13.7 1.805 19.7 2.705 25.7 3.605 31.7 4.505 13.8 1.820 19.8 2.720 25.8 3.620 31.8 4.520 13.9 1.835 19.9 2.735 25.9 3.635 31.9 4.535 14.0 1.850 20.0 2.750 26.0 3.660 32.0 4.550 14.1 1.865 20.1 2.765 26.1 3.665 32.1 4.566 14.2 1.880 20.2 2.780 26.2 3.680 32.2 4.580 14.3 1.895	13.1	1.715	19.1	2.615	25.1	3.515	31.1	4.415
13.4 1.760 19.4 2.660 25.4 3.560 31.4 4.460 13.5 1.775 19.5 2.675 25.5 3.575 31.5 4.475 13.6 1.790 19.6 2.690 25.6 3.590 31.6 4.490 13.7 1.805 19.7 2.705 25.7 3.605 31.7 4.505 13.8 1.820 19.8 2.720 25.8 3.620 31.8 4.520 13.9 1.835 19.9 2.735 25.9 3.635 31.9 4.535 14.0 1.850 20.0 2.750 26.0 3.650 32.0 4.550 14.1 1.865 20.1 2.765 26.1 3.665 32.1 4.565 14.2 1.880 20.2 2.780 26.2 3.680 32.2 4.580 14.3 1.895 20.3 2.795 26.3 3.695 32.3 4.595 14.4 1.910	13.2	1.730	19.2	2.630	25.2	3.530	31.2	4.430
13.5 1.775 19.5 2.675 25.5 3.575 31.5 4.475 13.6 1.790 19.6 2.690 25.6 3.590 31.6 4.490 13.7 1.805 19.7 2.705 25.7 3.605 31.7 4.505 13.8 1.820 19.8 2.720 25.8 3.620 31.8 4.520 13.9 1.835 19.9 2.735 25.9 3.635 31.9 4.535 14.0 1.850 20.0 2.750 26.0 3.650 32.0 4.550 14.1 1.865 20.1 2.765 26.1 3.665 32.1 4.565 14.2 1.880 20.2 2.780 26.2 3.680 32.2 4.580 14.3 1.895 20.3 2.795 26.3 3.695 32.3 4.595 14.4 1.910 20.4 2.810 26.4 3.710 32.4 4.610 14.5 1.925	13.3	1.745	19.3	2.645	25.3	3.545	31.3	4.445
13.6 1.790 19.6 2.690 25.6 3.590 31.6 4.490 13.7 1.805 19.7 2.705 25.7 3.605 31.7 4.505 13.8 1.820 19.8 2.720 25.8 3.620 31.8 4.520 13.9 1.835 19.9 2.735 25.9 3.635 31.9 4.535 14.0 1.850 20.0 2.750 26.0 3.650 32.0 4.550 14.1 1.865 20.1 2.765 26.1 3.665 32.1 4.565 14.2 1.880 20.2 2.780 26.2 3.680 32.2 4.580 14.3 1.895 20.3 2.795 26.3 3.695 32.3 4.595 14.4 1.910 20.4 2.810 26.4 3.710 32.4 4.610 14.5 1.925 20.5 2.825 26.5 3.725 32.5 4.625 14.6 1.940	13.4	1.760	19.4	2.660	25.4	3.560	31.4	4.460
13.7 1.805 19.7 2.705 25.7 3.605 31.7 4.505 13.8 1.820 19.8 2.720 25.8 3.620 31.8 4.520 13.9 1.835 19.9 2.735 25.9 3.635 31.9 4.535 14.0 1.850 20.0 2.750 26.0 3.650 32.0 4.550 14.1 1.865 20.1 2.765 26.1 3.665 32.1 4.565 14.2 1.880 20.2 2.780 26.2 3.680 32.2 4.580 14.3 1.895 20.3 2.795 26.3 3.695 32.3 4.595 14.4 1.910 20.4 2.810 26.4 3.710 32.4 4.610 14.5 1.925 20.5 2.825 26.5 3.725 32.5 4.625 14.6 1.940 20.6 2.840 26.6 3.740 32.6 4.640 14.7 1.955	13.5	1.775	19.5	2.675	25.5	3.575		4.475
13.8 1.820 19.8 2.720 25.8 3.620 31.8 4.520 13.9 1.835 19.9 2.735 25.9 3.635 31.9 4.535 14.0 1.850 20.0 2.750 26.0 3.650 32.0 4.550 14.1 1.865 20.1 2.765 26.1 3.665 32.1 4.565 14.2 1.880 20.2 2.780 26.2 3.680 32.2 4.580 14.3 1.895 20.3 2.795 26.3 3.695 32.3 4.595 14.4 1.910 20.4 2.810 26.4 3.710 32.4 4.610 14.5 1.925 20.5 2.825 26.5 3.725 32.5 4.625 14.6 1.940 20.6 2.840 26.6 3.740 32.6 4.640 14.7 1.955 20.7 2.855 26.7 3.755 32.7 4.655 14.8 1.970				2.690		3.590		4.490
13.9 1.835 19.9 2.735 25.9 3.635 31.9 4.535 14.0 1.850 20.0 2.750 26.0 3.650 32.0 4.550 14.1 1.865 20.1 2.765 26.1 3.665 32.1 4.565 14.2 1.880 20.2 2.780 26.2 3.680 32.2 4.580 14.3 1.895 20.3 2.795 26.3 3.695 32.3 4.595 14.4 1.910 20.4 2.810 26.4 3.710 32.4 4.610 14.5 1.925 20.5 2.825 26.5 3.725 32.5 4.625 14.6 1.940 20.6 2.840 26.6 3.740 32.6 4.640 14.7 1.955 20.7 2.855 26.7 3.755 32.7 4.655 14.8 1.970 20.8 2.870 26.8 3.770 32.8 4.670 14.9 1.985	13.7	1.805	19.7	2.705	25.7	3.605	31.7	4.505
14.0 1.850 20.0 2.750 26.0 3.650 32.0 4.550 14.1 1.865 20.1 2.765 26.1 3.665 32.1 4.565 14.2 1.880 20.2 2.780 26.2 3.680 32.2 4.580 14.3 1.895 20.3 2.795 26.3 3.695 32.3 4.595 14.4 1.910 20.4 2.810 26.4 3.710 32.4 4.610 14.5 1.925 20.5 2.825 26.5 3.725 32.5 4.625 14.6 1.940 20.6 2.840 26.6 3.740 32.6 4.640 14.7 1.955 20.7 2.855 26.7 3.755 32.7 4.655 14.8 1.970 20.8 2.870 26.8 3.770 32.8 4.670 14.9 1.985 20.9 2.885 26.9 3.785 32.9 4.685 15.0 2.000	13.8	1.820	19.8	2.720	25.8	3.620	31.8	4.520
14.1 1.865 20.1 2.765 26.1 3.665 32.1 4.565 14.2 1.880 20.2 2.780 26.2 3.680 32.2 4.580 14.3 1.895 20.3 2.795 26.3 3.695 32.3 4.595 14.4 1.910 20.4 2.810 26.4 3.710 32.4 4.610 14.5 1.925 20.5 2.825 26.5 3.725 32.5 4.625 14.6 1.940 20.6 2.840 26.6 3.740 32.6 4.640 14.7 1.955 20.7 2.855 26.7 3.755 32.7 4.655 14.8 1.970 20.8 2.870 26.8 3.770 32.8 4.670 14.9 1.985 20.9 2.885 26.9 3.785 32.9 4.685 15.0 2.000 21.0 2.900 27.0 3.800 33.0 4.700 15.1 2.015								
14.2 1.880 20.2 2.780 26.2 3.680 32.2 4.580 14.3 1.895 20.3 2.795 26.3 3.695 32.3 4.595 14.4 1.910 20.4 2.810 26.4 3.710 32.4 4.610 14.5 1.925 20.5 2.825 26.5 3.725 32.5 4.625 14.6 1.940 20.6 2.840 26.6 3.740 32.6 4.640 14.7 1.955 20.7 2.855 26.7 3.755 32.7 4.655 14.8 1.970 20.8 2.870 26.8 3.770 32.8 4.670 14.9 1.985 20.9 2.885 26.9 3.785 32.9 4.685 15.0 2.000 21.0 2.900 27.0 3.800 33.0 4.700 15.1 2.015 21.1 2.915 27.1 3.815 33.1 4.715 15.2 2.030								
14.3 1.895 20.3 2.795 26.3 3.695 32.3 4.595 14.4 1.910 20.4 2.810 26.4 3.710 32.4 4.610 14.5 1.925 20.5 2.825 26.5 3.725 32.5 4.625 14.6 1.940 20.6 2.840 26.6 3.740 32.6 4.640 14.7 1.955 20.7 2.855 26.7 3.755 32.7 4.655 14.8 1.970 20.8 2.870 26.8 3.770 32.8 4.670 14.9 1.985 20.9 2.885 26.9 3.785 32.9 4.685 15.0 2.000 21.0 2.900 27.0 3.800 33.0 4.700 15.1 2.015 21.1 2.915 27.1 3.815 33.1 4.715 15.2 2.030 21.2 2.930 27.2 3.830 33.2 4.730								
14.4 1.910 20.4 2.810 26.4 3.710 32.4 4.610 14.5 1.925 20.5 2.825 26.5 3.725 32.5 4.625 14.6 1.940 20.6 2.840 26.6 3.740 32.6 4.640 14.7 1.955 20.7 2.855 26.7 3.755 32.7 4.655 14.8 1.970 20.8 2.870 26.8 3.770 32.8 4.670 14.9 1.985 20.9 2.885 26.9 3.785 32.9 4.685 15.0 2.000 21.0 2.900 27.0 3.800 33.0 4.700 15.1 2.015 21.1 2.915 27.1 3.815 33.1 4.715 15.2 2.030 21.2 2.930 27.2 3.830 33.2 4.730								
14.5 1.925 20.5 2.825 26.5 3.725 32.5 4.625 14.6 1.940 20.6 2.840 26.6 3.740 32.6 4.640 14.7 1.955 20.7 2.855 26.7 3.755 32.7 4.655 14.8 1.970 20.8 2.870 26.8 3.770 32.8 4.670 14.9 1.985 20.9 2.885 26.9 3.785 32.9 4.685 15.0 2.000 21.0 2.900 27.0 3.800 33.0 4.700 15.1 2.015 21.1 2.915 27.1 3.815 33.1 4.715 15.2 2.030 21.2 2.930 27.2 3.830 33.2 4.730							32.3	4.595
14.6 1.940 20.6 2.840 26.6 3.740 32.6 4.640 14.7 1.955 20.7 2.855 26.7 3.755 32.7 4.655 14.8 1.970 20.8 2.870 26.8 3.770 32.8 4.670 14.9 1.985 20.9 2.885 26.9 3.785 32.9 4.685 15.0 2.000 21.0 2.900 27.0 3.800 33.0 4.700 15.1 2.015 21.1 2.915 27.1 3.815 33.1 4.715 15.2 2.030 21.2 2.930 27.2 3.830 33.2 4.730							32.4	4.610
14.7 1.955 20.7 2.855 26.7 3.755 32.7 4.655 14.8 1.970 20.8 2.870 26.8 3.770 32.8 4.670 14.9 1.985 20.9 2.885 26.9 3.785 32.9 4.685 15.0 2.000 21.0 2.900 27.0 3.800 33.0 4.700 15.1 2.015 21.1 2.915 27.1 3.815 33.1 4.715 15.2 2.030 21.2 2.930 27.2 3.830 33.2 4.730							32.5	4.625
14.8 1.970 20.8 2.870 26.8 3.770 32.8 4.670 14.9 1.985 20.9 2.885 26.9 3.785 32.9 4.685 15.0 2.000 21.0 2.900 27.0 3.800 33.0 4.700 15.1 2.015 21.1 2.915 27.1 3.815 33.1 4.715 15.2 2.030 21.2 2.930 27.2 3.830 33.2 4.730							32.6	4.640
14.9 1.985 20.9 2.885 26.9 3.785 32.9 4.685 15.0 2.000 21.0 2.900 27.0 3.800 33.0 4.700 15.1 2.015 21.1 2.915 27.1 3.815 33.1 4.715 15.2 2.030 21.2 2.930 27.2 3.830 33.2 4.730							32.7	4.655
15.0 2.000 21.0 2.900 27.0 3.800 33.0 4.700 15.1 2.015 21.1 2.915 27.1 3.815 33.1 4.715 15.2 2.030 21.2 2.930 27.2 3.830 33.2 4.730							32.8	4.670
15.1 2.015 21.1 2.915 27.1 3.815 33.1 4.715 15.2 2.030 21.2 2.930 27.2 3.830 33.2 4.730								
15.2 2.030 21.2 2.930 27.2 3.830 33.2 4.730								
15.3 2.045 21.3 2.945 27.3 3.845 33.3 4.745								
	15.3	2.045	21.3	2.945	27.3	3.845	33.3	4.745
15.4 2.060 21.4 2.960 27.4 3.860 33.4 4.760								
15.5 2.075 21.5 2.975 27.5 3.875 33.5 4.775								
15.6 2.090 21.6 2.990 27.6 3.890 33.6 4.790								
15.7 2.105 21.7 3.005 27.7 3.905 33.7 4.805								
15.8 2.120 21.8 3.020 27.8 3.920 33.8 4.820								
15.9 2.135 21.9 3.035 27.9 3.935 33.9 4.835	15.9	2.135	21.9	3.035	27.9	3.935	33.9	4.835

EXHIBIT B (CONTINUED)	
ADJUSTMENT AUTHORIZATION TABLES OF DIFFERENTIALS FOR U ADJUSTMENTS FOR DIFFERENCE IN GRAVITY OF CRUDE	
	For API GRAVITY values above 55.0° API the
	differential continues to decline 0.015/bbl.
	per 0.1° API GRAVITY.

EXIHIBIT C

ADJUSTMENT AUTHORIZATION TABLES OF DIFFERENTIALS FOR USE IN DETERMINING ADJUSTMENTS FOR DIFFERENCE IN SULFUR CONTENT OF CRUDE PETROLEUM

PERCENT	DIFF.								
SULFUR	PER BBL	SULFUR		SULFUR	PER BBL	SULFUR	PER BBL	SULFUR	
0.00	1.000	0.60	1.600	1.20	2.200	1.80	2.800	2.40	3.400
0.01	1.010	0.61	1.610	1.21	2.210	1.81	2.810	2.41	3.410
0.02	1.020	0.62	1.620	1.22	2.220	1.82	2.820	2.42	3.420
0.03	1.030	0.63	1.630	1.23	2.230	1.83	2.830	2.43	3.430
0.04	1.040	0.64	1.640	1.24	2.240	1.84	2.840	2.44	3.440
0.05	1.050	0.65	1.650	1.25	2.250	1.85	2.850	2.45	3.450
0.06	1.060	0.66	1.660	1.26	2.260	1.86	2.860	2.46	3.460
0.07	1.070	0.67	1.670	1.27	2.270	1.87	2.870	2.47	3.470
0.08	1.080	0.68	1.680	1.28	2.280	1.88	2.880	2.48	3.480
0.09	1.090	0.69	1.690	1.29	2.290	1.89	2.890	2.49	3.490
0.10	1.100	0.70	1.700	1.30	2.300	1.90	2.900	2.50	3.500
0.11	1.110	0.71	1.710	1.31	2.310	1.91	2.910	2.51	3.510
0.12	1.120	0.72	1.720	1.32	2.320	1.92	2.920	2.52	3.520
0.13	1.130	0.73	1.730	1.33	2.330	1.93	2.930	2.53	3.530
0.14	1.140	0.74	1.740	1.34	2.340	1.94	2.940	2.54	3.540
0.15	1.150	0.75	1.750	1.35	2.350	1.95	2.950	2.55	3.550
0.16	1.160	0.76	1.760	1.36	2.360	1.96	2.960	2.56	3.560
0.17	1.170	0.77	1.770	1.37	2.370	1.97	2.970	2.57	3.570
0.18	1.180	0.78	1.780	1.38	2.380	1.98	2.980	2.58	3.580
0.19	1.190	0.79	1.790	1.39	2.390	1.99	2.990	2.59	3.590
0.20	1.200	0.80	1.800	1.40	2.400	2.00	3.000	2.60	3.600
0.21	1.210	0.81	1.810	1.41	2.410	2.01	3.010	2.61	3.610
0.22	1.220	0.82	1.820	1.42	2.420	2.02	3.020	2.62	3.620
0.23	1.230	0.83	1.830	1.43	2.430	2.03	3.030	2.63	3.630
0.24	1.240	0.84	1.840	1.44	2.440	2.04	3.040	2.64	3.640
0.25	1.250	0.85	1.850	1.45	2.450	2.05	3.050	2.65	3.650
0.26	1.260	0.86	1.860	1.46	2.460	2.06	3.060	2.66	3.660
0.27	1.270	0.87	1.870	1.47	2.470	2.07	3.070	2.67	3.670
0.28	1.280	0.88	1.880	1.48	2.480	2.08	3.080	2.68	3.680
0.29	1.290	0.89	1.890	1.49	2.490	2.09	3.090	2.69	3.690
0.30	1.300	0.90	1.900	1.50	2.500	2.10	3.100	2.70	3.700
0.31	1.310 1.320	0.91 0.92	1.910 1.920	1.51 1.52	2.510 2.520	2.11 2.12	3.110 3.120	2.71	3.710
0.32	1.320	0.92	1.920	1.52	2.520	2.12	3.120	2.72	3.720 3.730
0.33	1.340	0.93	1.930			2.13		2.73	
0.34	1.350		1.940	1.54	2.540 2.550	2.14	3.140	2.74 2.75	3.740 3.750
		0.95		1.55			3.150		
0.36 0.37	1.360 1.370	0.96 0.97	1.960 1.970	1.56 1.57	2.560 2.570	2.16 2.17	3.160 3.170	2.76	3.760
0.38	1.380	0.98	1.980	1.58	2.580	2.17	3.180	2.77 2.78	3.770 3.780
0.38	1.390	0.99	1.990	1.59	2.590	2.19	3.190	2.79	3.790
0.39	1.400	1.00	2.000	1.60	2.600	2.20	3.200	2.80	3.800
0.41	1.410	1.01	2.010	1.61	2.610	2.21	3.210	2.81	3.810
0.42	1.420	1.02	2.020	1.62	2.620	2.22	3.220	2.82	3.820
0.43	1.430	1.03	2.030	1.63	2.630	2.23	3.230	2.83	3.830
0.44	1.440	1.04	2.040	1.64	2.640	2.24	3.240	2.84	3.840
0.45	1.450	1.05	2.050	1.65	2.650	2.25	3.250	2.85	3.850
0.46	1.460	1.06	2.060	1.66	2.660	2.26	3.260	2.86	3.860
0.47	1.470	1.07	2.070	1.67	2.670	2.27	3.270	2.87	3.870
0.48	1.480	1.08	2.080	1.68	2.680	2.28	3.280	2.88	3.880
0.49	1.490	1.09	2.090	1.69	2.690	2.29	3.290	2.89	3.890
0.50	1.500	1.10	2.100	1.70	2.700	2.30	3.300	2.90	3.900
0.51	1.510	1.11	2.110	1.71	2.710	2.31	3.310	2.91	3.910
0.52	1.520	1.12	2.120	1.72	2.720	2.32	3.320	2.92	3.920
0.53	1.530	1.13	2.130	1.73	2.730	2.33	3.330	2.93	3.930
0.54	1.540	1.14	2.140	1.74	2.740	2.34	3.340	2.94	3.940
0.55	1.550	1.15	2.150	1.75	2.750	2.35	3.350	2.95	3.950
0.56	1.560	1.16	2.160	1.76	2.760	2.36	3.360	2.96	3.960
0.57	1.570	1.17	2.170	1.77	2.770	2.37	3.370	2.97	3.970
	1.580	1.18	2.180	1.78	2.780	2.38	3.380	2.98	3.980
0.58									

EXHIBIT D
RATIO FACTORS FOR SULFUR ADJUSTMENT WEIGHT OF CRUDE BY GRAVITY TO REFERENCE BASE OF 35.5 ⁰ API GRAVITY ADJUSTMENT AUTHORIZATION

EXHIBIT D (CONTINUED)
RATIO FACTORS FOR SULFUR ADJUSTMENT WEIGHT OF CRUDE BY GRAVITY TO REFERENCE BASE OF 35.5° API GRAVITY ADJUSTMENT AUTHORIZATION