

PROSPECTUS SUPPLEMENT
(To Prospectus dated July 9, 2024)

5,562,273 shares



Kodiak Gas Services, Inc. Common Stock

This prospectus supplement (this “**prospectus supplement**”) supplements information contained in that certain prospectus, forming a part of that certain registration statement on Form S-3 originally filed with the U.S. Securities and Exchange Commission (the “**SEC**”) on July 10, 2024, relating to, among other things, the offer and sale of shares of common stock of Kodiak Gas Services, Inc. (“**we**,” “**us**,” “**our**” and the “**Company**”) by the selling stockholders listed in the section entitled “Selling Stockholders” (the “**prospectus**”). We are filing this prospectus supplement to register the offer and sale, from time to time, by certain additional selling stockholders (for purposes of this prospectus supplement the “**selling stockholders**”) of shares of common stock issuable upon the redemption of common units representing limited liability company interests (the “**OpCo units**”) in Kodiak Gas Services, LLC, a Delaware limited liability company and a subsidiary of the Company (“**OpCo**”), together with the cancellation of an equal number of shares of our Series A preferred stock, par value \$0.01 per share (the “**Series A preferred stock**”).

This prospectus supplement is being filed to satisfy registration rights we have granted to the selling stockholders pursuant to a registration rights agreement dated as of April 1, 2024 (the “**CSI Registration Rights Agreement**”). We have agreed to bear all of the expenses incurred in connection with the registration of the common stock covered by this prospectus supplement. The selling stockholders will pay or assume brokerage commissions and similar charges, if any, incurred in the sale of the common stock.

This prospectus supplement should be read in conjunction with, is not complete without, and may not be delivered or used except in connection with, the prospectus. This prospectus supplement is qualified by reference to the prospectus, except to the extent that the information provided by this prospectus supplement supplements, modifies or supersedes information contained in the prospectus.

We will not receive any proceeds from the offer or sale of the common stock by the selling stockholders pursuant to this prospectus supplement. See “Selling Stockholders” for a more detailed discussion about the selling stockholders.

The common stock to which this prospectus supplement relates may be offered and sold from time to time directly by the selling stockholders or alternatively through underwriters, broker dealers or agents. The selling stockholders will determine at what price they may sell the common stock offered by this prospectus supplement, and such sales may be made at fixed prices, at prevailing market prices at the time of the sale, at varying prices determined at the time of sale, or at negotiated prices. For additional information on the methods of sale that may be used by us or the selling stockholders, see the section entitled “Plan of Distribution.”

We may amend or supplement the prospectus from time to time by filing amendments or supplements as required. You should carefully read this prospectus supplement, the prospectus and any additional prospectus supplements or amendments before you invest. You also should read the documents we have referred to in the “Where You Can Find More Information” section of this prospectus supplement for information about us and our financial statements.

We have not, and the selling stockholders have not, authorized anyone to give you any information other than in this prospectus supplement, the prospectus and the information incorporated by reference herein and therein. We take no responsibility for, and can provide no assurances as to the reliability of, any other information that others may give you.

All of the shares of common stock being registered hereby are shares of our common stock issuable upon the redemption of OpCo units, together with the cancellation of an equal number of shares of our Series A preferred stock.

Our common stock is listed on The New York Stock Exchange (the “**NYSE**”) under the symbol “**KGS**”. On September 26, 2024, the last reported sale price of common stock on the NYSE was \$28.75 per share.

Investing in the common stock involves risks, including those described in the “Risk Factors” section beginning on page S-8 of this prospectus supplement, on page 5 of the accompanying prospectus and in the documents incorporated by reference in this prospectus supplement and the accompanying prospectus.

Neither the SEC nor any state securities commission has approved or disapproved of these securities or passed upon the accuracy or adequacy of the disclosures in the prospectus. Any representation to the contrary is a criminal offense.

The date of this prospectus supplement is September 27, 2024.

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ABOUT THIS PROSPECTUS SUPPLEMENT

This prospectus supplement is part of a “shelf registration statement” on Form S-3 that we filed with the SEC, utilizing a “shelf” registration process. By using a shelf registration statement, we and the selling stockholders may offer and sell from time to time, together or separately, in one or more offerings, any combination of the Securities described in the prospectus, and the selling stockholders named herein may offer and sell from time to time, in one or more offerings, shares of Common Stock as described in this prospectus supplement.

The prospectus provides you with a general description of the Securities we or the selling stockholders may offer and this prospectus supplement. Each time we or the selling stockholders offer Securities, we will provide a prospectus supplement accompanied by the prospectus. The prospectus supplement will contain specific information about the nature of the Company or the persons offering Securities and the terms of the Securities being offered at that time. The prospectus supplement may also add, update or change information contained in the prospectus. If there is any inconsistency between the information in the prospectus and any prospectus supplement, you should rely on the information in the prospectus supplement.

This prospectus supplement is being filed to register the offer and sale, from time to time, by certain additional selling stockholders of shares of common stock issuable upon the redemption of the OpCo Units held by the selling stockholders, together with the cancellation of an equal number of shares of Series A preferred stock, listed in the Selling Stockholders table contained herein.

We have provided you only with the information contained in the prospectus, including information incorporated by reference in the prospectus and this accompanying prospectus supplement. We have not, and the selling stockholders have not, authorized anyone to give you any information other than in the prospectus and the information incorporated by reference herein and therein. Neither we nor the selling stockholders take any responsibility for, and can provide no assurance as to the reliability of any other information that others may give you. Neither we nor the selling stockholders are making an offer to sell securities in any jurisdiction where the offer or sale of securities is not permitted. You should not assume that the information included in this prospectus supplement, the prospectus, any applicable prospectus supplement, or the documents incorporated by reference herein and therein is accurate as of any date other than their respective dates. Our business, financial condition, results of operations and prospects may have changed since those dates.

You should carefully read this prospectus supplement, the entire prospectus and any applicable prospectus supplement, as well as the documents incorporated by reference in this prospectus supplement and the prospectus, before making an investment decision.

When used in the prospectus, except where the context otherwise requires, the terms “we,” “us,” “our” and “the Company” refer to Kodiak Gas Services, Inc. and its consolidated subsidiaries.

WHERE YOU CAN FIND MORE INFORMATION

We filed a registration statement on Form S-3 (File No. 333-280737) (the “**registration statement**”) with the SEC under the Securities Act of 1933, as amended (the “**Securities Act**”), on July 10, 2024 that registers the offer and sale of the common stock covered by this prospectus supplement and the accompanying prospectus. This prospectus supplement, which forms part of the registration statement, does not contain all of the information included in that registration statement. For further information about us and the securities covered by this prospectus supplement, you should refer to the registration statement and its exhibits. Certain information is also incorporated by reference in this prospectus supplement as described under “Information Incorporated by Reference.”

We are subject to the information and periodic reporting requirements of the Securities Exchange Act of 1934, as amended (the “**Exchange Act**”), and, in accordance therewith, file periodic reports, proxy statements and other information with the SEC. Such periodic reports, proxy statements and other information are available at the website of the SEC at <http://www.sec.gov>. We also furnish our stockholders with annual reports containing our financial statements audited by an independent registered public accounting firm and quarterly reports containing our unaudited financial information. We maintain a website at www.kodiakgas.com. You may access our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K and amendments to those reports, filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act with the SEC free of charge at our website as soon as reasonably practicable after this material is electronically filed with, or furnished to, the SEC. The reference to our website or web address does not constitute incorporation by reference of the information contained at that site.

We have not authorized anyone to provide you with any information other than that contained in this prospectus supplement or in a document to which we expressly have referred you. We take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may give you. You should assume that the information appearing in this prospectus supplement is accurate only as of the date on the front cover of this prospectus supplement.

INFORMATION INCORPORATED BY REFERENCE

The SEC allows us to “incorporate by reference” information into this prospectus supplement. This means that we can disclose information to you by referring you to those documents. The documents that have been incorporated by reference are an important part of this prospectus supplement, and you should review that information in order to understand the nature of any investment by you in our shares of common stock. Information that we later provide to the SEC, and which is deemed to be “filed” with the SEC, will automatically update information previously filed with the SEC, and may update or replace information in this prospectus supplement and information previously filed with the SEC. We incorporate by reference the following documents that we have filed with the SEC (other than any portions of these documents that were deemed to have been furnished and not filed in accordance with the SEC rules, including pursuant to Item 2.02 or Item 7.01 of any Current Report on Form 8-K, including any financial statements or exhibits related thereto and furnished pursuant to Item 9.01), unless otherwise indicated herein:

- our Annual Report on [Form 10-K](#) for the year ended December 31, 2023, filed with the SEC on March 7, 2024;
- the description of our common stock contained in our [Form 8-A](#), filed with the SEC on June 28, 2023, including any amendment to that Form that we may file in the future for the purpose of updating the description of our common stock;
- our Quarterly Report on Form 10-Q for the quarters ended March 31, 2024, filed with the SEC on [May 9, 2024](#), and June 30, 2024, filed with the SEC on [August 13, 2024](#);
- our [Definitive Proxy Statement on Schedule 14A](#), filed with the SEC on March 25, 2024 and;
- our current reports on Form 8-K filed with the SEC on [January 23, 2024](#), [February 2, 2024](#), [March 8, 2024](#), [April 1, 2024](#), [May 3, 2024](#), [May 31, 2024](#), [June 24, 2024](#) and [September 11, 2024](#).

Upon request, we will provide to each person, including any beneficial owner, to whom this prospectus is delivered, a copy of any or all of the reports or documents that have been incorporated by reference in this prospectus. If you would like a copy of any of these documents, at no cost, please write or call us at:

Kodiak Gas Services, Inc.
9950 Woodloch Forest Drive, Suite 1900
The Woodlands, Texas 77380
(936) 539-3300

All documents filed by us pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act after the date of this prospectus supplement and before the termination of any offering made pursuant to the prospectus shall be deemed to be incorporated herein by reference. We are not, however, incorporating by reference any documents or portions thereof that are not deemed “filed” with the SEC, including any information furnished pursuant to Items 2.02 or 7.01 of Form 8-K. Any statements in any such future filings will automatically be deemed to modify and supersede any information in any document we previously filed with the SEC that is incorporated or deemed to be incorporated herein by reference to the extent that statements in the later filed document modify or replace such earlier statements. Any such statement so modified or superseded shall not be deemed to constitute a part of this prospectus supplement, except as so modified or superseded.

CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus supplement, the accompanying prospectus and the documents incorporated by reference herein and therein contain “forward-looking statements” within the meaning of the safe harbor provisions of the U.S. Private Securities Litigation Reform Act of 1995. Forward-looking statements are neither historical facts nor assurances of future performance. Instead, they are based only on our current beliefs, expectations and assumptions regarding the future of our business, future plans and strategies, projections, anticipated events and trends, the economy and other future conditions. Forward-looking statements can be identified by words such as: “anticipate,” “intend,” “plan,” “goal,” “seek,” “believe,” “project,” “estimate,” “expect,” “strategy,” “future,” “likely,” “may,” “should,” “will” and similar references to future periods. Examples of forward-looking statements include, among others, statements we make regarding:

- Expected operating results, such as revenue growth and earnings, and our ability to service our indebtedness;
- Anticipated levels of capital expenditures and uses of capital;
- Current or future volatility in the credit markets and future market conditions;
- Potential or pending acquisition transactions or other strategic transactions, the timing thereof, the receipt of necessary approvals to close such transactions, our ability to finance such transactions, and our ability to achieve the intended operational, financial and strategic benefits from any such transactions;
- Expected synergies and efficiencies to be achieved as a result of the CSI Acquisition;
- Expectations regarding leverage and dividend profile as a result of the CSI Acquisition, including the amount and timing of future dividend payments;
- Expectations of the effect on our financial condition of claims, litigation, environmental costs, contingent liabilities, and governmental and regulatory investigations and proceedings;
- Production and capacity forecasts for the natural gas and oil industry;
- Strategy for customer retention, growth, fleet maintenance, market position and financial results;
- Our interest rate hedges; and
- Strategy for risk management.

Because forward-looking statements relate to the future, they are subject to inherent uncertainties, risks and changes in circumstances that are difficult to predict and many of which are outside of our control. Our actual results and financial condition may differ materially from those indicated in the forward-looking statements. Therefore, you should not place undue reliance on any of these forward-looking statements. Important factors that could cause our actual results and financial condition to differ materially from those indicated in the forward-looking statements include, among others, the following:

- A reduction in the demand for natural gas and oil;
- The loss of, or the deterioration of the financial condition of, any of our key customers;
- Nonpayment and nonperformance by our customers, suppliers or vendors;
- Competitive pressures that may cause us to lose market share;
- The structure of our Contract Services contracts and the failure of our customers to continue to contract for services after expiration of the primary term;
- Our ability to successfully integrate any acquired businesses, including CSI Compressco, and realize the expected benefits thereof;

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- Our ability to fund purchases of additional compression equipment;
- A deterioration in general economic, business, geopolitical or industry conditions, including as a result of the conflict between Russia and Ukraine and the Israel-Hamas War, inflation and slow economic growth in the United States;
- A downturn in the economic environment, as well as inflationary pressures;
- International operations and related mobilization and demobilization of compression units, operational interruptions, delays, upgrades, refurbishment and repair of compression assets and any related delays and cost overruns or reduced payment of contracted rates;
- Tax legislation and administrative initiatives or challenges to our tax positions;
- The loss of key management, operational personnel or qualified technical personnel;
- Our dependence on a limited number of suppliers;
- The cost of compliance with existing and new governmental regulations, including climate change legislation;
- The cost of compliance with regulatory initiatives and stakeholders' pressures, including environmental, social and governance scrutiny;
- The inherent risks associated with our operations, such as equipment defects and malfunctions;
- Our reliance on third-party components for use in our information technology systems;
- Legal and reputational risks and expenses relating to the privacy, use and security of employee and client information;
- Threats of cyber-attacks or terrorism;
- Agreements that govern our debt contain features that may limit our ability to operate our business and fund future growth and also increase our exposure to risk during adverse economic conditions;
- Volatility in interest rates;
- Our ability to access the capital and credit markets or borrow on affordable terms to obtain additional capital that we may require;
- Major natural disasters, severe weather events or other similar events that could disrupt operations;
- Unionization of our labor force, labor interruptions and new or amended labor regulations;
- Renewal of insurance;
- The effectiveness of our disclosure controls and procedures; and
- Such other factors set forth in Part I, Item 1A, "Risk Factors" of our Annual Report on Form 10-K for the fiscal year ended December 31, 2023, and Part I, Item 2, "Management's Discussion and Analysis of Financial Condition and Results of Operations" of our Quarterly Report on Form 10-Q for the quarterly periods ended March 31, 2024 and June 30, 2024.

Any forward-looking statement made by us in this prospectus supplement, the accompanying prospectus and the documents incorporated herein and therein is based only on information currently available to us and speaks only as of the date on which it is made. Except as may be required by applicable law, we undertake no obligation to publicly update any forward-looking statement whether as a result of new information, future developments or otherwise.

All forward-looking statements, expressed or implied, included in this prospectus supplement, the accompanying prospectus and the documents incorporated herein and therein are expressly qualified in their entirety by this cautionary statement. This cautionary statement should also be considered in connection with any subsequent written or oral forward-looking statements that we or persons acting on our behalf may issue.

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Investors should note that we announce financial information in SEC filings. We may use the “Investors” section of our website (www.kodiakgas.com) to communicate with investors. It is possible that the financial and other information posted there could be deemed to be material information. The information on our website is not part of this prospectus supplement.

OUR COMPANY

Kodiak is the largest contract compression services provider in the continental United States with a revenue-generating fleet of approximately 4.3 million horsepower. We focus on providing contract compression and related services to oil and gas producers and midstream customers in high-volume gas gathering systems, processing facilities, multi-well gas lift applications and natural gas transmission systems. Shares of our Common Stock trade on the NYSE under the ticker symbol "KGS".

Our principal executive offices are located at 9950 Woodloch Forest Drive, Suite 1900, The Woodlands, Texas 77380, and our telephone number is (936) 539-3300. We maintain a website at www.kodiakgas.com. Information contained on, or accessible through, our website is not incorporated by reference in this prospectus supplement.

RISK FACTORS

Investing in the Securities described herein involves risk. We urge you to carefully consider the risk factors described in our most recent Annual Report on Form 10-K and any updates in our Quarterly Reports on Form 10-Q, together with any other SEC filings that are incorporated by reference in this prospectus supplement and, if applicable, in any prospectus supplement used in connection with an offering of our Securities, as well as the information relating to us identified herein in “Cautionary Statement Regarding Forward-Looking Statements,” before making an investment decision. Although we discuss key risks in our discussion of risk factors, new risks may emerge in the future, which may prove to be significant. Our subsequent filings with the SEC may contain amended and updated discussions of significant risks. We cannot predict future risks or estimate the extent to which they may affect our financial performance.

USE OF PROCEEDS

We will not receive any proceeds from the sales of Common Stock sold by the selling stockholders. The selling stockholders will receive all of the net proceeds from the sale of these shares. See "Selling Stockholders." We will bear the costs associated with the sale of any shares of common stock under this prospectus supplement by the selling stockholders, other than underwriting fees, discounts and commissions.

SELLING STOCKHOLDERS

The following table and the accompanying footnotes set forth, as of September 26, 2024, the maximum number of shares of common stock that may be offered and sold from time to time under this prospectus supplement by the selling stockholders identified below, subject to any appropriate adjustment as a result of any stock dividend, stock split or distribution, or in connection with a combination of shares, and any security into which such shares of common stock shall have been converted or exchanged in connection with a recapitalization, reorganization, reclassification, merger, consolidation, exchange, distribution or otherwise.

On April 1, 2024, we entered into the CSI Registration Rights Agreement with the selling stockholders pursuant to which we were obligated to prepare and file a registration statement to permit the resale of certain shares of common stock underlying the OpCo Units held by the selling stockholders from time to time as permitted by Rule 415 promulgated under the Securities Act.

We have prepared the following table and the related notes based on information supplied to us by the selling stockholders and such information is as of September 26, 2024 (except as otherwise noted). We have not sought to verify such information. We believe, based on information supplied by the selling stockholders, that except as may otherwise be indicated in the footnotes to the table below, the selling stockholders have sole voting and dispositive power with respect to the shares of common stock underlying the OpCo Units reported as beneficially owned by them. Because the selling stockholders identified in the table may sell some or all of the shares of common stock beneficially owned by them which are included in this prospectus supplement, and because there are currently no agreements, arrangements or understandings with respect to the sale of any of the shares of common stock, no estimate can be given as to the number of the shares of common stock available for resale hereby that will be held by the selling stockholders upon termination of this offering. In addition, the selling stockholders may have sold, transferred or otherwise disposed of, or may sell, transfer or otherwise dispose of, at any time and from time to time, the shares of common stock they hold in transactions exempt from the registration requirements of the Securities Act after the date on which the selling stockholders provided the information set forth on the table below. We have, therefore, assumed for the purposes of the following table, that the selling stockholders will sell all of the shares of common stock beneficially owned by them that are covered by this prospectus supplement. The selling stockholders are not obligated to sell any of the shares of common stock offered by this prospectus supplement. The percent of beneficial ownership for the selling stockholders is based on 83,509,612 shares of common stock and 5,562,273 shares of Series A preferred stock issued and outstanding as of September 26, 2024. Unless otherwise noted, the mailing address of each listed selling stockholder is 9950 Woodloch Forest Drive, Suite 1900, The Woodlands, Texas 77380.

	Shares beneficially owned prior to the offering ⁽¹⁾			Shares of common stock that may be offered hereby ⁽³⁾	Shares beneficially owned after completion of the offering ⁽¹⁾		
	Common Stock	Series A Preferred Stock	Combined Voting Percentage ⁽²⁾		Common Stock	Series A Preferred Stock	Combined Voting Percentage ⁽²⁾
CSI Compressco GP LLC	—	—	—	—	—	—	—
CSI Compressco Investment LLC ⁽⁴⁾	—	300,073	*	300,073	—	—	—
Spartan Energy Partners, LP ⁽⁵⁾	—	5,246,880	5.9%	5,246,880	—	—	—
Steven C. Wight Grantor Annuity Trust ⁽⁶⁾	—	5,160	*	5,160	—	—	—
Steven C. Wight	—	2,647	*	2,647	—	—	—
Sue A. Stephens	—	7,513	*	7,513	—	—	—
* less than 1%							

(1) The amounts and percentages of common stock beneficially owned are reported on the basis of regulations of the SEC governing the determination of beneficial ownership of securities. Under the rules of the SEC, a

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person is deemed to be a “beneficial owner” of a security if that person has or shares voting power, which includes the power to vote or direct the voting of such security, or investment power, which includes the power to dispose of or to direct the disposition of such security. Under these rules, more than one person may be deemed to be a beneficial owner of the same securities, and a person may be deemed to be a beneficial owner of securities as to which such person has no economic interest.

- (2) Reflects the combined voting percentage based on 83,509,612 shares of common stock and 5,562,273 shares of Series A preferred stock issued and outstanding as of September 26, 2024. Each holder of Series A preferred stock is entitled to one vote for each share of Series A preferred stock on all matters submitted to a vote of the holders of common stock.
- (3) Reflects shares of common stock issuable upon the redemption of an equal number of OpCo units, together with the cancellation of an equal number of shares of Series A preferred stock beneficially owned by the selling stockholder, pursuant to the Sixth Amended and Restated Limited Liability Company Agreement of Kodiak Gas Services, LLC, dated as of April 1, 2024.
- (4) CSI Compressco GP LLC is the sole member of CSI Compressco Investment LLC. The principal business address of CSI Compressco Investment LLC is c/o Spartan Energy Partners LP, 111 E. Mirror Ridge Circle, The Woodlands, TX 77382.
- (5) Spartan Energy Partners GP LLC is the general partner of Spartan Energy Partners LP. The principal business address of Spartan Energy Partners LP is 111 E. Mirror Ridge Circle, The Woodlands, TX 77382.
- (6) Steven C. Wight is the trustee of the Steven C. Wight Grantor Annuity Trust.

Material Relationships with the Selling Stockholders

Registration Rights Agreement

In connection with the CSI Acquisition, we entered into the Registration Rights Agreement. Under the Registration Rights Agreement, we agreed to register the sale of shares of common stock held by the selling stockholders under certain circumstances and to provide such shareholders with certain customary piggyback rights.

PLAN OF DISTRIBUTION

As of the date of this prospectus supplement, we have not determined any plan of distribution and we have not been advised by the selling stockholders as to any plan of distribution. Distributions of common stock by the selling stockholders, or by their partners, pledgees, donees (including charitable organizations), transferees or other successors in interest, may from time to time be offered for sale either directly by such individuals, or through underwriters, dealers or agents or on any exchange on which the common stock may from time to time be traded, in the over-the-counter market, or in independently negotiated transactions or otherwise. The methods by which the Securities may be sold by us or the selling stockholders include:

- privately negotiated transactions;
- underwritten transactions;
- exchange distributions and/or secondary distributions;
- in market transactions on any national securities exchange, transactions other than on exchanges or sales in the over-the-counter market;
- ordinary brokerage transactions and transactions in which the broker solicits purchasers;
- broker-dealers may agree with the selling stockholders to sell a specified number of such shares at a stipulated price per share;
- a block trade (which may involve crosses) in which the broker or dealer so engaged will attempt to sell the Securities as agent but may position and resell a portion of the block as principal to facilitate the transaction;
- purchases by a broker or dealer as principal and resale by such broker or dealer for its own account pursuant to the prospectus;
- short sales;
- through the writing of options on the shares or other hedging transactions, whether or not the options or such other derivative securities are listed on an exchange;
- through the distributions of the shares by the selling stockholders to their partners, members or stockholders;
- a combination of any such methods of sale; and
- any other method permitted pursuant to applicable law.

We or the selling stockholders may also sell shares of common stock under Rule 144 under the Securities Act, in each case if available, rather than under the prospectus.

Such transactions may be effected by us or the selling stockholders at market prices prevailing at the time of sale or at negotiated prices. We or the selling stockholders may effect such transactions by selling the Securities to underwriters or to or through broker-dealers, and such underwriters or broker-dealers may receive compensation in the form of discounts or commissions from us or the selling stockholders and may receive commissions from the purchasers of the securities for whom they may act as agent. We or the selling stockholders may agree to indemnify any underwriter, broker-dealer or agent that participates in transactions involving sales of the Securities against certain liabilities, including liabilities arising under the Securities Act. We have agreed to register the common stock for sale under the Securities Act and to indemnify the selling stockholders and each person who participates as an underwriter in the offering of the common stock against certain civil liabilities, including certain liabilities under the Securities Act.

In connection with sales of the common stock under the prospectus, the selling stockholders may enter into hedging transactions with broker-dealers, who may in turn engage in short sales of the common stock in the

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course of hedging the positions they assume. The selling stockholders also may sell common stock short and deliver them to close their short positions, or loan or pledge the securities to broker-dealers that in turn may sell them.

The selling stockholders may from time to time pledge or grant a security interest in some or all of the common stock owned by them and, if they default in the performance of their secured obligations, the pledgees or secured parties may offer and sell common stock from time to time under the prospectus, or under an amendment to the prospectus under Rule 424 or other applicable provision of the Securities Act amending the list of selling stockholders to include the pledgee, transferee or other successors in interest as selling stockholders under the prospectus.

There can be no assurances that the selling stockholders will sell any or all of the common stock offered under the prospectus.

LEGAL MATTERS

The validity of the shares of common stock being offered by this prospectus supplement and the accompanying prospectus and certain other legal matters will be passed upon for us and for the selling stockholders by Kirkland & Ellis LLP, Houston, Texas.

EXPERTS

The consolidated financial statements of Kodiak Gas Services, Inc. as of December 31, 2023 and 2022 and for each of the three years in the period ended December 31, 2023 incorporated by reference in this prospectus supplement have been so incorporated in reliance on the report of BDO USA, P.C., an independent registered public accounting firm given on the authority of said firm as experts in auditing and accounting.

The consolidated financial statements of CSI Compressco LP as of and for the years ended December 31, 2023 and 2022, and management's assessment of the effectiveness of internal control over financial reporting as of December 31, 2023, incorporated by reference in this prospectus supplement and elsewhere in the registration statement have been so incorporated by reference in reliance upon the reports of Grant Thornton LLP, independent registered public accountants, upon the authority of said firm as experts in accounting and auditing.

PROSPECTUS

KODIAK GAS SERVICES, INC.

Common Stock
Preferred Stock
Warrants
Units

Up to 59,000,000 Shares of Common Stock Offered by the Selling Stockholders

This prospectus relates to the offer and sale from time to time, together or separately, in one or more offerings of common stock of Kodiak Gas Services, Inc. (“Kodiak”, “we”, “us” or the “Company”), \$0.01 par value per share (“Common Stock”), preferred stock (“Preferred Stock”), warrants to purchase Common Stock, Preferred Stock or any combination thereof (“Warrants”) and units (“Units”, and collectively with the Common Stock, Preferred Stock and Warrants, the “Securities”), by the Company. In addition, the selling stockholders named in this prospectus or any supplement to this prospectus may offer and sell up to 59,000,000 shares of our Common Stock from time to time in amounts, at prices and on terms that will be determined at the time of any such offering.

We are registering the offer and sale of the shares of the Common Stock owned by the selling stockholders to satisfy registration rights we have granted to the selling stockholders pursuant to a registration rights agreement dated as of July 3, 2023 (the “Registration Rights Agreement”). We have agreed to bear all of the expenses incurred in connection with the registration of the Common Stock covered by this prospectus. The selling stockholders will pay or assume brokerage commissions and similar charges, if any, incurred in the sale of the Common Stock.

Unless we inform you otherwise in a prospectus supplement or free writing prospectus, we intend to use the net proceeds from the sale of the Securities we are offering for general corporate purposes. We will not receive any proceeds from the offer or sale of the Common Stock by the selling stockholders pursuant to this prospectus. See “Selling Stockholders” for a more detailed discussion about the selling stockholders.

The Securities to which this prospectus relates may be offered and sold from time to time directly by us or the selling stockholders or alternatively through underwriters, broker dealers or agents. We or the selling stockholders, as applicable, will determine at what price we or the selling stockholders may sell the Common Stock offered by this prospectus, and such sales may be made at fixed prices, at prevailing market prices at the time of the sale, at varying prices determined at the time of sale, or at negotiated prices. For additional information on the methods of sale that may be used by us or the selling stockholders, see the section entitled “*Plan of Distribution.*”

We may amend or supplement this prospectus from time to time by filing amendments or supplements as required. You should carefully read this prospectus and any prospectus supplement or amendment before you invest. You also should read the documents we have referred you to in the “*Where You Can Find More Information*” section of this prospectus for information about us and our financial statements.

We have not, and the selling stockholders have not, authorized anyone to give you any information other than in this prospectus and the information incorporated by reference herein. We take no responsibility for, and can provide no assurances as to the reliability of, any other information that others may give you.

Our Common Stock is quoted on The New York Stock Exchange (“NYSE”) under the symbol KGS. On July 8, 2024, the last reported sale price of Common Stock on the NYSE was \$26.67 per share. We will provide information in the prospectus supplement for the trading market, if any, for any Preferred Stock, Warrants or Units we may offer.

Our principal executive office is located at 9950 Woodloch Forest Drive, Suite 1900, The Woodlands, Texas 77380, and our telephone number is (936) 539-3300.

Investing in our Securities involves risks. You should carefully review the risks and uncertainties described under the heading “Risk Factors” contained on page 5 herein and in the applicable prospectus supplement and under similar headings in the other documents incorporated by reference into this prospectus.

NEITHER THE SECURITIES AND EXCHANGE COMMISSION NOR ANY STATE SECURITIES COMMISSION HAS APPROVED OR DISAPPROVED OF THESE SECURITIES OR PASSED UPON THE ACCURACY OR ADEQUACY OF THE DISCLOSURES IN THE PROSPECTUS. ANY REPRESENTATION TO THE CONTRARY IS A CRIMINAL OFFENSE.

The date of this prospectus is July 9, 2024

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This prospectus is part of a registration statement that we have filed with the Securities and Exchange Commission (the “SEC”) pursuant to which we or the selling stockholders named herein may, from time to time, offer and sell or otherwise dispose of the Securities covered by this prospectus. You should not assume that the information contained in this prospectus is accurate on any date subsequent to the date set forth on the front cover of this prospectus or that any information we have incorporated by reference is correct on any date subsequent to the date of the document incorporated by reference, even though this prospectus is delivered or the Securities are sold or otherwise disposed of on a later date. It is important for you to read and consider all information contained in this prospectus, including the documents incorporated by reference therein, in making your investment decision. You should also read and consider the information in the documents to which we have referred you under the caption “*Where You Can Find More Information*” in this prospectus.

We have not authorized anyone to provide any information or to make any representations other than those contained in this prospectus or in any free writing prospectuses we have prepared. We take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may give you. We are not, and the selling stockholders are not, making an offer to sell these Securities in any jurisdiction where an offer or sale is not permitted.

This prospectus contains forward-looking statements that are subject to a number of risks and uncertainties, many of which are beyond our control. Please read “*Risk Factors*” and “*Cautionary Note Regarding Forward-Looking Statements.*”

ABOUT THIS PROSPECTUS

This prospectus is part of a “shelf registration statement” on Form S-3 that we filed with the SEC, utilizing a “shelf” registration process. Under this shelf registration process, we may offer and sell from time to time, together or separately, in one or more offerings, any combination of the Securities described in this prospectus, and the selling stockholders named herein may offer and sell from time to time, in one or more offerings, shares of Common Stock as described in this prospectus.

This prospectus provides you with a general description of the Securities we or the selling stockholders may offer. Each time we or the selling stockholders offer Securities, we will provide a prospectus supplement accompanied by this prospectus. The prospectus supplement will contain specific information about the nature of the Company or the persons offering Securities and the terms of the Securities being offered at that time. The prospectus supplement may also add, update or change information contained in this prospectus. If there is any inconsistency between the information in this prospectus and any prospectus supplement, you should rely on the information in the prospectus supplement.

We have provided you only with the information contained in this prospectus, including information incorporated by reference in this prospectus and the accompanying prospectus supplement. We have not, and the selling stockholders have not, authorized anyone to give you any information other than in this prospectus and the information incorporated by reference herein. Neither we nor the selling stockholders take any responsibility for, and can provide no assurance as to the reliability of any other information that others may give you. Neither we nor the selling stockholders are making an offer to sell securities in any jurisdiction where the offer or sale of securities is not permitted. You should not assume that the information included in this prospectus, any applicable prospectus supplement, or the documents incorporated by reference herein is accurate as of any date other than their respective dates. Our business, financial condition, results of operations and prospects may have changed since those dates.

You should read carefully the entire prospectus and any applicable prospectus supplement, as well as the documents incorporated by reference in this prospectus, before making an investment decision.

When used in this prospectus, except where the context otherwise requires, the terms “we,” “us,” “our” and “the Company” refer to Kodiak Gas Services, Inc. and its consolidated subsidiaries.

WHERE YOU CAN FIND MORE INFORMATION

We have filed with the SEC a Registration Statement on Form S-3 to register the offer and sale of the Securities covered hereby. This prospectus, which forms part of the Registration Statement, does not contain all of the information included in that Registration Statement. For further information about us and the Securities covered by this prospectus, you should refer to the Registration Statement and its exhibits. Certain information is also incorporated by reference in this prospectus as described under "Incorporation of Certain Documents by Reference."

We are subject to the information and periodic reporting requirements of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and, in accordance therewith, file periodic reports, proxy statements and other information with the SEC. Such periodic reports, proxy statements and other information are available at the website of the SEC at <http://www.sec.gov>. We also furnish our stockholders with annual reports containing our financial statements audited by an independent registered public accounting firm and quarterly reports containing our unaudited financial information. We maintain a website at www.kodiakgas.com. You may access our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K and amendments to those reports, filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act with the SEC free of charge at our website as soon as reasonably practicable after this material is electronically filed with, or furnished to, the SEC. The reference to our website or web address does not constitute incorporation by reference of the information contained at that site.

We have not authorized anyone to provide you with any information other than that contained in this prospectus or in a document to which we expressly have referred you. We take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may give you. You should assume that the information appearing in this prospectus is accurate only as of the date on the front cover of this prospectus.

INFORMATION INCORPORATED BY REFERENCE

The SEC allows us to incorporate by reference the information we file with it. This means that we can disclose information to you by referring you to those documents. The documents that have been incorporated by reference are an important part of the prospectus, and you should review that information in order to understand the nature of any investment by you in our shares of Common Stock. Information that we later provide to the SEC, and which is deemed to be “filed” with the SEC, will automatically update information previously filed with the SEC, and may update or replace information in this prospectus and information previously filed with the SEC. We incorporate by reference the following documents that we have filed with the SEC (other than any portions of these documents that were deemed to have been furnished and not filed in accordance with the SEC rules, including pursuant to Item 2.02 or Item 7.01 of any Current Report on Form 8-K, including any financial statements or exhibits related thereto and furnished pursuant to Item 9.01), unless otherwise indicated herein:

- our Annual Report on [Form 10-K](#) for the year ended December 31, 2023 filed on March 7, 2024;
- the description of our Common Stock contained in our [Form 8-A](#) filed on June 28, 2023, including any amendment to that Form that we may file in the future for the purpose of updating the description of our Common Stock;
- our Quarterly Report on Form 10-Q for the quarter ended March 31, 2024 filed on [May 9, 2024](#);
- our [Definitive Proxy Statement](#) on Schedule 14A filed on March 25, 2024 and;
- our current reports on Form 8-K filed with the SEC on [January 23, 2024](#), [February 2, 2024](#), [March 8, 2024](#), [April 1, 2024](#), [May 3, 2024](#), [May 31, 2024](#), and [June 24, 2024](#).

All documents subsequently filed by us pursuant to Section 13(a), 13(c), 14 or 15(d) of the Exchange Act, including all such documents we may file with the SEC after the date of the initial registration and prior to the effectiveness of the Registration Statement (excluding, in each case, any information deemed furnished rather than filed), shall be deemed to be incorporated by reference in this prospectus until the termination of each offering under this prospectus.

Upon request, we will provide to each person, including any beneficial owner, to whom this prospectus is delivered, a copy of any or all of the reports or documents that have been incorporated by reference in this prospectus. If you would like a copy of any of these documents, at no cost, please write or call us at:

Kodiak Gas Services, Inc.
9950 Woodloch Forest Drive, Suite 1900
The Woodlands, Texas 77380
(936) 539-3300

Any statement contained in a document which is incorporated by reference in this prospectus is automatically updated and superseded if information contained in the prospectus modifies or replaces this information.

OUR COMPANY

Kodiak is the largest contract compression services provider in the continental United States with a revenue-generating fleet of approximately 4.3 million horsepower. We focus on providing contract compression and related services to oil and gas producers and midstream customers in high-volume gas gathering systems, processing facilities, multi-well gas lift applications and natural gas transmission systems. Shares of our Common Stock trade on the NYSE under the ticker symbol "KGS".

Our principal executive offices are located at 9950 Woodloch Forest Drive, Suite 1900, The Woodlands, Texas 77380, and our telephone number is (936) 539-3300. We maintain a website at www.kodiakgas.com. Information contained on, or accessible through, our website is not incorporated by reference in this prospectus.

RISK FACTORS

Investing in the Securities described herein involves risk. We urge you to carefully consider the risk factors described in our most recent Annual Report on Form 10-K and any updates in our Quarterly Reports on Form 10-Q, together with any other SEC filings that are incorporated by reference in this prospectus and, if applicable, in any prospectus supplement used in connection with an offering of our Securities, as well as the information relating to us identified herein in “Cautionary Statement Regarding Forward-Looking Statements,” before making an investment decision. Although we discuss key risks in our discussion of risk factors, new risks may emerge in the future, which may prove to be significant. Our subsequent filings with the SEC may contain amended and updated discussions of significant risks. We cannot predict future risks or estimate the extent to which they may affect our financial performance.

CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus contains “forward-looking statements” within the meaning of the safe harbor provisions of the U.S. Private Securities Litigation Reform Act of 1995. Forward-looking statements are neither historical facts nor assurances of future performance. Instead, they are based only on our current beliefs, expectations and assumptions regarding the future of our business, future plans and strategies, projections, anticipated events and trends, the economy and other future conditions. Forward-looking statements can be identified by words such as: “anticipate,” “intend,” “plan,” “goal,” “seek,” “believe,” “project,” “estimate,” “expect,” “strategy,” “future,” “likely,” “may,” “should,” “will” and similar references to future periods. Examples of forward-looking statements include, among others, statements we make regarding:

- Expected operating results, such as revenue growth and earnings, and our ability to service our indebtedness;
- Anticipated levels of capital expenditures and uses of capital;
- Current or future volatility in the credit markets and future market conditions;
- Potential or pending acquisition transactions or other strategic transactions, the timing thereof, the receipt of necessary approvals to close such transactions, our ability to finance such transactions, and our ability to achieve the intended operational, financial and strategic benefits from any such transactions;
- Expected synergies and efficiencies to be achieved as a result of our acquisition of CSI Compressco LP (“CSI Compressco” and such acquisition, the “CSI Acquisition”);
- Expectations regarding leverage and dividend profile as a result of the CSI Acquisition, including the amount and timing of future dividend payments;
- Expectations of the effect on our financial condition of claims, litigation, environmental costs, contingent liabilities, and governmental and regulatory investigations and proceedings;
- Production and capacity forecasts for the natural gas and oil industry;
- Strategy for customer retention, growth, fleet maintenance, market position and financial results;
- Our interest rate hedges; and
- Strategy for risk management.

Because forward-looking statements relate to the future, they are subject to inherent uncertainties, risks and changes in circumstances that are difficult to predict and many of which are outside of our control. Our actual results and financial condition may differ materially from those indicated in the forward-looking statements. Therefore, you should not place undue reliance on any of these forward-looking statements. Important factors that could cause our actual results and financial condition to differ materially from those indicated in the forward-looking statements include, among others, the following:

- A reduction in the demand for natural gas and oil;
- The loss of, or the deterioration of the financial condition of, any of our key customers;
- Nonpayment and nonperformance by our customers, suppliers or vendors;
- Competitive pressures that may cause us to lose market share;
- The structure of our Compression Operations contracts and the failure of our customers to continue to contract for services after expiration of the primary term;
- Our ability to successfully integrate any acquired businesses, including CSI Compressco, and realize the expected benefits thereof;

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- Our ability to fund purchases of additional compression equipment;
- A deterioration in general economic, business, geopolitical or industry conditions, including as a result of the conflict between Russia and Ukraine and the Israel-Hamas War, inflation and slow economic growth in the United States;
- A downturn in the economic environment, as well as inflationary pressures;
- Tax legislation and administrative initiatives or challenges to our tax positions;
- The loss of key management, operational personnel or qualified technical personnel;
- Our dependence on a limited number of suppliers;
- The cost of compliance with existing and new governmental regulations, including climate change legislation;
- The cost of compliance with regulatory initiatives and stakeholders' pressures, including environmental, social and governance scrutiny;
- The inherent risks associated with our operations, such as equipment defects and malfunctions;
- Our reliance on third-party components for use in our information technology systems;
- Legal and reputational risks and expenses relating to the privacy, use and security of employee and client information;
- Threats of cyber-attacks or terrorism;
- Agreements that govern our debt contain features that may limit our ability to operate our business and fund future growth and also increase our exposure to risk during adverse economic conditions;
- Volatility in interest rates;
- Our ability to access the capital and credit markets or borrow on affordable terms to obtain additional capital that we may require;
- The effectiveness of our disclosure controls and procedures; and
- Such other factors set forth in Part I, Item 1A, "Risk Factors" of our Annual Report on Form 10-K for the fiscal year ended December 31, 2023, and Part I, Item 2, "Management's Discussion and Analysis of Financial Condition and Results of Operations" of our Quarterly Report on Form 10-Q for the quarterly period ended March 31, 2024.

Any forward-looking statement made by us in this prospectus is based only on information currently available to us and speaks only as of the date on which it is made. Except as may be required by applicable law, we undertake no obligation to publicly update any forward-looking statement whether as a result of new information, future developments or otherwise.

All forward-looking statements, expressed or implied, included in this prospectus are expressly qualified in their entirety by this cautionary statement. This cautionary statement should also be considered in connection with any subsequent written or oral forward-looking statements that we or persons acting on our behalf may issue.

Investors should note that we announce financial information in SEC filings. We may use the "Investors" section of our website (www.kodiakgas.com) to communicate with investors. It is possible that the financial and other information posted there could be deemed to be material information. The information on our website is not part of this prospectus.

USE OF PROCEEDS

Unless we inform you otherwise in a prospectus supplement or free writing prospectus, we intend to use the net proceeds from the sale of Securities we are offering for general corporate purposes. This may include, among other things, additions to working capital, repayment or refinancing of existing indebtedness or other corporate obligations, financing of capital expenditures and acquisitions and investment in existing and future projects. Any specific allocation of the net proceeds of an offering of Securities to a specific purpose will be determined at the time of the offering and will be described in an accompanying prospectus supplement or free writing prospectus.

The selling stockholders may offer and sell up to an aggregate of 59,000,000 shares of Common Stock under this prospectus. See the section entitled, "*Selling Stockholders*." Accordingly, we will not receive any proceeds from the sales of Common Stock sold by the selling stockholders. We will bear the costs associated with the sale of any shares of Common Stock under this prospectus by the selling stockholders, other than underwriting fees, discounts and commissions.

SELLING STOCKHOLDERS

This prospectus covers the offering for resale of up to an aggregate of 59,000,000 shares of Common Stock, that may be offered and sold from time to time under this prospectus by the selling stockholders identified below, subject to any appropriate adjustment as a result of any stock dividend, stock split or distribution, or in connection with a combination of shares, and any security into which such shares of Common Stock shall have been converted or exchanged in connection with a recapitalization, reorganization, reclassification, merger, consolidation, exchange, distribution or otherwise.

On July 3, 2023, we entered into the Registration Rights Agreement with the selling stockholders pursuant to which we were obligated to prepare and file a registration statement to permit the resale of certain shares of Common Stock held by the selling stockholders from time to time as permitted by Rule 415 promulgated under the Securities Act of 1933, as amended (the “Securities Act”).

We have prepared the table, the paragraph immediately following this paragraph, and the related notes based on information supplied to us by the selling stockholders and such information is as of July 2, 2024 (except as otherwise noted). We have not sought to verify such information. We believe, based on information supplied by the selling stockholders, that except as may otherwise be indicated in the footnotes to the table below, the selling stockholders have sole voting and dispositive power with respect to the shares of Common Stock reported as beneficially owned by them. Because the selling stockholders identified in the table may sell some or all of the shares of Common Stock owned by them which are included in this prospectus, and because there are currently no agreements, arrangements or understandings with respect to the sale of any of the shares of Common Stock, no estimate can be given as to the number of the shares of Common Stock available for resale hereby that will be held by the selling stockholders upon termination of this offering. In addition, the selling stockholders may have sold, transferred or otherwise disposed of, or may sell, transfer or otherwise dispose of, at any time and from time to time, the shares of Common Stock it holds in transactions exempt from the registration requirements of the Securities Act after the date on which the selling stockholders provided the information set forth on the table below. We have, therefore, assumed for the purposes of the following table, that the selling stockholders will sell all of the shares of Common Stock beneficially owned by them that are covered by this prospectus. The selling stockholders are not obligated to sell any of the shares of Common Stock offered by this prospectus. The percent of beneficial ownership for the selling stockholders is based on 84,294,358 shares of Common Stock outstanding as of July 2, 2024, and, unless otherwise noted, does not take into account the 5,562,273 shares of Series A Preferred Stock issued and outstanding as of July 2, 2024.

	Shares of Common Stock Beneficially Owned Prior to the Offering ⁽¹⁾		Shares of Common Stock Offered Hereby	Shares of Common Stock Beneficially Owned After Completion of the Offering	
	Number	Percentage		Number	Percentage
Selling stockholders:					
Frontier TopCo Partnership, L.P.	59,000,000	69.9%	59,000,000	0	—

- (1) The amounts and percentages of Common Stock beneficially owned are reported on the basis of regulations of the SEC governing the determination of beneficial ownership of securities. Under the rules of the SEC, a person is deemed to be a “beneficial owner” of a security if that person has or shares voting power, which includes the power to vote or direct the voting of such security, or investment power, which includes the power to dispose of or to direct the disposition of such security. Under these rules, more than one person may be deemed to be a beneficial owner of the same securities, and a person may be deemed to be a beneficial owner of securities as to which such person has no economic interest.
- (2) Based on a Schedule 13G filed by Frontier TopCo Partnership, L.P. (“Kodiak Holdings”) on February 12, 2024. Consists of shares of Common Stock held directly by Kodiak Holdings. Frontier Topco GP, LLC (“Frontier GP”) is the general partner of Kodiak Holdings. EQT Infrastructure III SCSp (“EQT Infrastructure III”) and EQT Infrastructure IV SCSp (“EQT Infrastructure IV”) collectively own 100% of the membership interests in Frontier GP. EQT Fund Management S.a.r.l. (“EFMS”) has exclusive

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responsibility for the management and control of the business and affairs of investment vehicles which constitute the majority of the total commitments to EQT Infrastructure III and EQT Infrastructure IV. As such, EFMS has the power to control Frontier GP's voting and investment decisions and may be deemed to have beneficial ownership of the securities held by Kodiak Holdings. EFMS is overseen by a board that acts by majority approval. The individual members of such board are Joshua Stone, Peter Veldman and Sara Huda. The registered address of Kodiak Holdings and Frontier GP is 108 Lakeland Ave, Dover, Kent County, Delaware, 19901 USA. The registered address of EFMS is 51A, Boulevard Royal, L-2449 Luxembourg, Grand Duchy of Luxembourg, which is also the mailing address of each of Kodiak Holdings and Frontier GP. Kodiak Holdings has pledged the shares it owns as collateral under that certain Amended and Restated Credit Agreement, dated as of May 19, 2022, as amended by that certain First Amendment, dated March 31, 2023, among Kodiak Gas Services, LLC, Frontier Intermediate Holding, LLC, the administrative agent, and the lenders party thereto, the obligations of which were assumed by Kodiak Holdings (and which were further assumed by a parent entity of Kodiak Holdings), and has granted the lenders thereunder certain consent rights over Kodiak Holdings' exercise of its rights under the Stockholders' Agreement (as defined below).

PLAN OF DISTRIBUTION

As of the date of this prospectus, we have not determined any plan of distribution and we have not been advised by the selling stockholders as to any plan of distribution. Distributions of Common Stock by the selling stockholders, or by their partners, pledgees, donees (including charitable organizations), transferees or other successors in interest, may from time to time be offered for sale either directly by such individuals, or through underwriters, dealers or agents or on any exchange on which the Common Stock may from time to time be traded, in the over-the-counter market, or in independently negotiated transactions or otherwise. The methods by which the Securities may be sold by us or the selling stockholders include:

- privately negotiated transactions;
- underwritten transactions;
- exchange distributions and/or secondary distributions;
- in market transactions on any national securities exchange, transactions other than on exchanges or sales in the over-the-counter market;
- ordinary brokerage transactions and transactions in which the broker solicits purchasers;
- broker-dealers may agree with the selling stockholders to sell a specified number of such shares at a stipulated price per share;
- a block trade (which may involve crosses) in which the broker or dealer so engaged will attempt to sell the Securities as agent but may position and resell a portion of the block as principal to facilitate the transaction;
- purchases by a broker or dealer as principal and resale by such broker or dealer for its own account pursuant to this prospectus;
- short sales;
- through the writing of options on the shares or other hedging transactions, whether or not the options or such other derivative securities are listed on an exchange;
- through the distributions of the shares by the selling stockholders to their partners, members or stockholders;
- a combination of any such methods of sale; and
- any other method permitted pursuant to applicable law.

We or the selling stockholders may also sell shares of Common Stock under Rule 144 under the Securities Act, in each case if available, rather than under this prospectus.

Such transactions may be effected by us or the selling stockholders at market prices prevailing at the time of sale or at negotiated prices. We or the selling stockholders may effect such transactions by selling the Securities to underwriters or to or through broker-dealers, and such underwriters or broker-dealers may receive compensation in the form of discounts or commissions from us or the selling stockholders and may receive commissions from the purchasers of the securities for whom they may act as agent. We or the selling stockholders may agree to indemnify any underwriter, broker-dealer or agent that participates in transactions involving sales of the Securities against certain liabilities, including liabilities arising under the Securities Act. We have agreed to register the Common Stock for sale under the Securities Act and to indemnify the selling stockholders and each person who participates as an underwriter in the offering of the Common Stock against certain civil liabilities, including certain liabilities under the Securities Act.

In connection with sales of the Common Stock under this prospectus, the selling stockholders may enter into hedging transactions with broker-dealers, who may in turn engage in short sales of the Common Stock in the

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course of hedging the positions they assume. The selling stockholders also may sell Common Stock short and deliver them to close their short positions, or loan or pledge the securities to broker-dealers that in turn may sell them.

The selling stockholders may from time to time pledge or grant a security interest in some or all of the Common Stock owned by them and, if they default in the performance of their secured obligations, the pledgees or secured parties may offer and sell Common Stock from time to time under this prospectus, or under an amendment to this prospectus under Rule 424 or other applicable provision of the Securities Act amending the list of selling stockholders to include the pledgee, transferee or other successors in interest as selling stockholders under this prospectus.

There can be no assurances that the selling stockholders will sell any or all of the Common Stock offered under this prospectus.

DESCRIPTION OF CAPITAL STOCK

The following description of the Company's capital stock is not complete and may not contain all the information you should consider before investing in the Company's capital stock. This description is summarized from, and qualified in its entirety by reference to, our Amended and Restated Certificate of Incorporation (the "Charter") and our Second Amended and Restated Bylaws (the "Bylaws"), which have been publicly filed with the SEC. See "Where You Can Find More Information" and "Information Incorporated by Reference."

Authorized Capitalization

The Charter provides that the Company is authorized to issue 800,000,000 shares of capital stock, divided into two classes consisting of (a) 750,000,000 shares of Common Stock and (b) 50,000,000 shares of Preferred Stock, 6,000,000 of which are currently designated as Series A Preferred Stock, par value of \$0.01 per share (the "Series A Preferred Stock")

Common Stock

As of July 2, 2024, there were 84,294,358 shares of Common Stock issued and outstanding.

Voting Rights

Each holder of Common Stock, as such, is entitled to one vote for each share of Common Stock held of record by such holder on all matters on which stockholders generally are entitled to vote. Notwithstanding the foregoing, to the fullest extent permitted by law, holders of Common Stock, as such, have no voting power with respect to, and are not entitled to vote on, any amendment to the Charter (including any Certificate of Designation relating to any series of Preferred Stock) that relates solely to the terms of one or more outstanding series of Preferred Stock if the holders of such affected series are entitled, either separately or together with the holders of one or more other such series, to vote thereon pursuant to the Charter (including any Certificate of Designation relating to any series of Preferred Stock) or pursuant to the Delaware General Corporation Law (the "DGCL"). Except as otherwise provided in the Charter or required by applicable law, the holders of Common Stock shall vote together as a single class (or, if the holders of one or more series of Preferred Stock (such as the Series A Preferred Stock) are entitled to vote together with the holders of Common Stock, as a single class with the holders of such other series of Preferred Stock) on all matters submitted to a vote of the stockholders generally.

Exchange Rights

Subject to certain limitations, each common unit ("OpCo Unit") of Kodiak Gas Services, LLC ("Kodiak Services") held by an electing unitholder ("Electing Unitholder") is redeemable for either, at Kodiak Services' election, (i) one share of Common Stock (together with the cancellation of one share of Series A Preferred Stock), subject to conversion rate adjustments for stock splits, stock dividends, reclassification and other similar transactions, or (ii) an equivalent amount of cash, pursuant to the terms of the Sixth Amended and Restated Limited Liability Company Agreement of Kodiak Services (the "OpCo LLC Agreement"). Subject to certain exceptions in the OpCo LLC Agreement, Electing Unitholders are not be able to sell, transfer or redeem OpCo Units and Series A Preferred Stock prior to September 29, 2024 (180 days following the consummation of the CSI Acquisition).

Dividends and Liquidation

Subject to the rights and preferences of any Preferred Stock that the Company may issue in the future (including, with respect to distributions in liquidation, the Series A Preferred Stock), the holders of Common Stock are entitled to receive:

- dividends as may be declared by the board of directors of the Company (the "Board"); and

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- all of the Company's assets available for distribution to stockholders in liquidation, pro rata, based on the number of shares held.

No redemption or sinking fund provisions is applicable to the Common Stock. All outstanding shares of Common Stock are fully paid and non-assessable.

Preferred Stock

As of July 2, 2024, there were 5,562,273 shares of Preferred Stock issued and outstanding.

Authorized and unissued shares of Preferred Stock may be issued from time to time in one or more additional series as the Board, by resolution or resolutions, may from time to time determine, each of said series to be distinctively designated. The voting powers, preferences and relative, participating, optional and other special rights, and the qualifications, limitations or restrictions thereof, if any, of each such series of Preferred Stock may differ from those of any and all other series of Preferred Stock (including the Series A Preferred Stock) at any time outstanding, and, subject to certain exceptions set forth in the Charter, and applicable law, the Board may fix or alter, by resolution or resolutions, the designation, number, voting powers, preferences and relative, participating, optional and other special rights, and the qualifications, limitations and restrictions thereof, of each series of Preferred Stock.

Series A Preferred Stock

Dividends

Except with respect to dividends in connection with the adoption of a "poison pill" or similar shareholders rights plan, the holders of Series A Preferred Stock will not be entitled to receive any dividends (including cash, stock or property) in respect of their Series A Preferred Stock. However, in the event of a dividend to holders of shares of Common Stock in the form of shares of Common Stock or rights to acquire shares of Common Stock, the holders of Series A Preferred Stock will be entitled to simultaneously receive a dividend of Series A Preferred Stock or rights to acquire Series A Preferred Stock, in each case in the same proportion and manner.

Liquidation Preference

Any shares of Series A Preferred Stock offered hereby will be fully paid and nonassessable. In addition, in the event of any voluntary or involuntary liquidation, dissolution or winding-up of the Company, each holder of Series A Preferred Stock will be entitled to receive out of the assets of the Company available for distribution to the Company's stockholders, before any distribution of assets is made on shares of Common Stock, an amount equal to \$0.01 per share of Series A Preferred Stock. Neither the voluntary sale, conveyance, exchange or transfer, for cash, shares of stock, securities or other consideration, of all or substantially all of the Company's property or assets, nor the merger or consolidation of the Company with or into any corporation or other entity or the merger or consolidation of any corporation or other entity with or into the Company will be deemed to be a voluntary or involuntary liquidation, dissolution of winding-up of the Company.

Voting Rights

Each holder of Series A Preferred Stock will be entitled to one vote for each share of Series A Preferred Stock on all matters submitted to a vote of the holders of Common Stock, as adjusted to account for any subdivision or combination of shares of Common Stock. Except as otherwise provided in the Charter or required by applicable law, the holders of the Series A Preferred Stock will vote together as a single class with the holders of Common Stock on all matters submitted to a vote of the Company's stockholders generally.

Merger or Consolidation

In the event of a merger or consolidation of the Company with or into another entity (whether or not the Company is the surviving entity) or any other transaction in which shares of Common Stock are exchanged for or

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converted into other stock or securities, or the right to receive cash and/or any other property, the holders of Series A Preferred Stock will not be entitled to receive any economic consideration in respect of the Series A Preferred Stock.

Transfer Restrictions

To the extent that any OpCo Units of Kodiak Services are transferred to the Company or Kodiak Services pursuant to a redemption in accordance with the OpCo LLC Agreement, then simultaneous with that transfer, an equal number of shares of Series A Preferred Stock registered in the name of the transferor will automatically and without further action on the part of the Company or that transferor be transferred to the Company and will no longer be outstanding. Subject to the foregoing and certain exceptions, the transfer of any OpCo Units pursuant to the terms of the OpCo LLC Agreement will result in the automatic transfer of an equal number of shares of Series A Preferred Stock from the same transferor to the same transferee.

Other Series of Preferred Stock

If we offer other series of Preferred Stock under this prospectus, a prospectus supplement relating to the particular series of Preferred Stock offered will include the specific terms of those Preferred Stock, including, among other things, the following:

- the designation, stated value, and liquidation preference of the Preferred Stock and the number of Preferred Stock to constitute the series;
- the number of shares of Preferred Stock to be offered;
- the public offering price at which the Preferred Stock will be issued;
- any sinking fund provisions of the Preferred Stock;
- the voting rights, if any, of the Preferred Stock;
- whether the Preferred Stock will be redeemable and, if so, the price and the terms and conditions on which the Preferred Stock may be redeemed, including the time during which the Preferred Stock may be redeemed and any accumulated dividends thereof, if any, that the holders of the Preferred Stock will be entitled to receive upon the redemption thereof;
- the terms and conditions, if any, on which the Preferred Stock will be convertible into, or exchangeable for, any other class or series, including the price or prices or the rate or rates of conversion or exchange and the method, if any, of adjusting the same; and
- any additional designations, preferences, rights, powers, duties and restrictions of the Preferred Stock.

The applicable prospectus supplement relating to any such Preferred Stock we offer will also include a discussion of certain material U.S. federal income tax consequences relating to ownership of the Preferred Stock (other than those consequences described in this prospectus).

The particular terms of any series of Preferred Stock will also be described in a certificate of designation or amendment to our charter, which will be filed as an exhibit to or incorporated by reference in this prospectus at or before the time of issuance of any such series of Preferred Stock.

The transfer agent and registrar for the any other series of Preferred Stock will be designated in the applicable prospectus supplement.

Anti-Takeover Provisions

Notwithstanding the opt out from Section 203 of the DGCL, some provisions of the Charter and the Bylaws could make certain change of control transactions more difficult, including acquisitions of the Company by means of a tender offer, a proxy contest or otherwise. These provisions may also have the effect of preventing

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changes in the Board. It is possible that these provisions could make it more difficult to accomplish or could deter transactions that stockholders may otherwise consider to be in their best interest or in the Company's best interests, including transactions that might result in a premium over the market price for our Common Stock. Therefore, these provisions could adversely affect the price of our Common Stock.

These provisions, summarized below, are intended to discourage coercive takeover practices and inadequate takeover bids. These provisions are also designed to encourage persons seeking to acquire control of the Company to first negotiate with the Board. The Company believes that the benefits of increased protection and the Company's potential ability to negotiate with the proponent of an unsolicited proposal to acquire or restructure the Company arising from such provisions outweigh the disadvantages of discouraging these proposals because, among other things, negotiation of these proposals could result in an improvement of their terms.

Opt Out of Section 203 of the DGCL

In the Charter, the Company elected not to be subject to the provisions of Section 203 of the DGCL regulating corporate takeovers. In general, those provisions, if applicable, would prohibit a Delaware corporation, including those whose securities are listed for trading on the NYSE, from engaging in any business combination with any interested stockholder for a period of three years following the time that the stockholder became an interested stockholder, unless:

- the transaction that resulted in the stockholder becoming an interested stockholder, or the business combination, is approved by the board of directors before the time the interested stockholder attained that status;
- upon consummation of the transaction that resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction commenced; or
- on or after the date the interested stockholder attained that status, the business combination is approved by the board of directors and authorized at a meeting of stockholders by at least two-thirds of the outstanding voting stock that is not owned by the interested stockholder.

Our Charter and Bylaws

Among other things, our Charter and Bylaws:

- establish advance notice procedures with regard to stockholder proposals relating to the nomination of candidates for election as directors or business to be brought before meetings of the Company's stockholders. These procedures provide that notice of stockholder proposals must be timely delivered to the Company's corporate secretary prior to the meeting at which the action is to be taken. Generally, to be timely in connection with an annual meeting, notice must be delivered to the Company's corporate secretary not less than 90 days nor more than 120 days prior to the first anniversary of the date of the Company's proxy statement released to the stockholders for the preceding year's annual meeting. The Bylaws specify the requirements as to form and content of such stockholders' notices. These requirements may deter stockholders from bringing matters before the stockholders at an annual or special meeting;
- authorize the Board to issue undesignated Preferred Stock. This ability makes it possible for the Board to issue, without stockholder approval, Preferred Stock with voting or other rights or preferences that could impede the success of any attempt to change control of the Company. These and other provisions may have the effect of deferring hostile takeovers or delaying changes in control or management of the Company;
- provide that, subject to the rights of any holders of Preferred Stock the authorized number of directors may be changed only by resolution of the Board;

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- provide that, if EQT AB (publ), a Swedish public limited liability company, and its affiliates, subsidiaries, successors and assigns (“EQT”), beneficially owns, in the aggregate, less than 35% of the voting power of the stock of the Company entitled to vote generally in the election of directors, any action required or permitted to be taken by the stockholders of the Company must be effected at a duly called annual or special meeting of such holders and may not be effected by any consent in writing by such holders, subject to the rights of the holders of any series of Preferred Stock with respect to such series;
- provide that, subject to the Stockholders’ Agreement, all vacancies, including newly created directorships, shall, except as otherwise required with regards to rights granted to holders of Preferred Stock, except as otherwise required by law or, if applicable, the rights of holders of a series of Preferred Stock, be filled by the affirmative vote of a majority of the directors then in office, even if less than a quorum, a sole remaining director, or the stockholders and that, at any time when EQT beneficially owns, in the aggregate, less than 35% in voting power of the stock of the Company entitled to vote generally in the election of directors, all vacancies, including newly created directorships, occurring in the Board shall be filled only by a majority of the directors then in office, although less than a quorum, or by a sole remaining director (and not by stockholders);
- provide that, except as otherwise required by law and subject to the rights of the holders of any series of Preferred Stock, special meetings of the stockholders may be called only by or at the direction of the Board or the Chairman of the Board; provided, however, that at any time when EQT beneficially owns, in the aggregate, at least 35% in voting power of the stock of the Company entitled to vote generally in the election of directors, special meetings may also be called by or at the direction of the Board or the Chairman of the Board at the request of EQT;
- provide that, the Board shall be divided into three classes of directors, with each class as nearly equal in number as possible, serving staggered three-year terms, other than directors which may be elected by holders of Preferred Stock, if any and that, at any time when EQT beneficially owns, in the aggregate, less than 35% in voting power of the stock of the Company entitled to vote generally in the election of directors, directors may be removed only for cause and only by the affirmative vote of the holders of at least two thirds in voting power of all the then-outstanding shares of stock of the Company entitled to vote thereon, voting together as a single class. This system of electing and remaining directors may tend to discourage a third party from making a tender offer or otherwise attempting to obtain control of the Company because it generally makes it more difficult for stockholders to replace a majority of the directors;
- provide that, the Company generally renounces any interest or expectancy in any business opportunity (existing and future) that might be a corporate opportunity, including one that involves any aspect of the energy business or industry and that may be from time to time presented to EQT or certain other persons, and that such persons have no obligation to offer the Company those investments or opportunities;
- provide that, if EQT beneficially owns, in the aggregate, less than 35% in voting power of the stock of the Company entitled to vote generally in the election of directors, the Bylaws may be amended by stockholders, and certain provisions of the Charter may be amended, only with the affirmative vote of the holders of at least two-thirds in voting power of all the then-outstanding shares of stock of the Company entitled to vote thereon.

Forum Selection

The Charter provides that unless the Company consents in writing to the selection of an alternative forum, the Court of Chancery of the State of Delaware will, to the fullest extent permitted by applicable law, be the sole and exclusive forum for:

- any derivative action or proceeding brought on the Company’s behalf;

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- any action asserting a claim of breach of a fiduciary duty owed by any of the Company's directors, officers, or employees to the Company or the Company's stockholders;
- any action asserting a claim against the Company or any director or officer of the Company arising pursuant to any provision of the DGCL, the Charter or the Bylaws; or
- any action asserting a claim governed by the internal affairs doctrine.

The Charter further provides that, unless the Company consents in writing to the selection of an alternative forum, the federal district courts of the United States shall be the exclusive forum for the resolution of any complaint asserting a cause of action arising under the Securities Act or the Exchange Act.

The Charter also provides that, to the fullest extent permitted by law, any person purchasing or otherwise acquiring any interest in shares of the Company's capital stock will be deemed to have notice of, and to have consented to, these forum selection provisions. Although the Company believes these provisions benefit the Company by providing increased consistency in the application of law for the specified types of actions and proceedings, the provisions may have the effect of discouraging lawsuits against the Company's directors, officers, and employees. The enforceability of similar exclusive forum provisions in other companies' certificates of incorporation has been challenged in legal proceedings, and it is possible that, in connection with one or more actions or proceedings described above, a court could rule that this provision in the Charter is inapplicable or unenforceable.

Stockholders' Agreement

The Stockholders' Agreement, dated as of July 3, 2023, by and among the Company, Kodiak Holdings and the other parties thereto (the "Stockholders' Agreement"), provides that, subject to compliance with applicable law and stock exchange rules, for so long as Kodiak Holdings and its affiliates beneficially own at least 35% of the Company's Common Stock then outstanding, it shall be entitled to designate two directors to the Board; and for so long as Kodiak Holdings and its affiliates beneficially own at least 10% of the Company's Common Stock then outstanding, it shall be entitled to designate at least one director. So long as Kodiak Holdings has the right to designate directors to the Board, it will also have the right to appoint the same number of the Board observers, who will be entitled to attend all meetings of the Board in a non-voting, observer capacity.

For so long as Kodiak Holdings beneficially owns at least 35% of outstanding Common Stock, the Company and its subsidiaries may not, without the approval of Kodiak Holdings, take any of the following actions:

- change the size of the Board;
- amend, restate, modify or waive the Charter or Bylaws;
- enter into voluntary liquidation or dissolution, commence bankruptcy or insolvency proceedings, adopt a plan with respect to any of the foregoing or decide not to oppose any similar proceeding commenced by a third party;
- consummate a transaction that would result in a change of control of the Company or a sale of all or substantially all of the Company's assets;
- incur debt for borrowed money (or liens securing such debt) in excess of \$50 million, including incremental incurrences under existing debt facilities;
- authorize, create (by way of reclassification, merger, consolidation or otherwise) or issue in excess of \$25 million of any equity securities of any kind (other than pursuant to any equity compensation plan approved by the compensation committee or intra-company issuances among the Company and its subsidiaries), including any designation of the rights (including special voting rights) of one or more classes of Preferred Stock;

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- modify the Company's dividend policy; and
- sell, transfer or otherwise dispose of the Company's assets not in the ordinary course of business in a transaction or series of transactions with a fair market value in excess of \$100 million.

Limitation of Liability and Indemnification of Officers and Directors

As permitted by Section 145 of the DGCL, the Bylaws provide that:

- the Company shall indemnify the Company's directors and executive officers to the fullest extent permitted by the DGCL, subject to limited exceptions, and that the Company may indemnify other officers, employees or other agents;
- the Company shall advance expenses to the Company's directors and executive officers in connection with a legal proceeding to the fullest extent permitted by the DGCL, subject to limited exceptions; and
- the rights provided in the Bylaws are not exclusive.

Any amendment to, or repeal of, these provisions will not eliminate or reduce the effect of these provisions in respect of any act, omission or claim that occurred or arose prior to that amendment or repeal. If the DGCL is amended to provide for further limitations on the personal liability of directors or officers of corporations, then the personal liability of the Company's directors and officers will be further limited to the fullest extent permitted by the DGCL.

DESCRIPTION OF WARRANTS

We may issue Warrants for the purchase of our Common Stock, Preferred Stock or any combination thereof. Warrants may be issued independently or together with our securities offered by any prospectus supplement and may be attached to or separate from any such offered securities. Each series of Warrants will be issued under a separate warrant agreement to be entered into between us and a bank or trust company, as warrant agent, all as set forth in the prospectus supplement relating to the particular issue of Warrants. The warrant agent will act solely as our agent in connection with the Warrants and will not assume any obligation or relationship of agency or trust for or with any holders of Warrants or beneficial owners of Warrants. The following summary of certain provisions of the Warrants does not purport to be complete and is subject to, and is qualified in its entirety by reference to, all provisions of the warrant agreements.

You should refer to the prospectus supplement relating to a particular issue of Warrants for the terms of and information relating to the Warrants, including, where applicable:

- (1) the number of securities purchasable upon exercise of the Warrants and the price at which such securities may be purchased upon exercise of the Warrants;
- (2) the date on which the right to exercise the Warrants commences and the date on which such right expires (the “Expiration Date”);
- (3) the United States federal income tax consequences applicable to the Warrants;
- (4) the amount of the Warrants outstanding as of the most recent practicable date; and
- (5) any other terms of the Warrants.

Warrants will be offered and exercisable for United States dollars only. Warrants will be issued in registered form only. Each Warrant will entitle its holder to purchase such number of securities at such exercise price as is in each case set forth in, or calculable from, the prospectus supplement relating to the Warrants. The exercise price may be subject to adjustment upon the occurrence of events described in such prospectus supplement. After the close of business on the Expiration Date (or such later date to which we may extend such Expiration Date), unexercised Warrants will become void. The place or places where, and the manner in which, Warrants may be exercised will be specified in the prospectus supplement relating to such Warrants.

Prior to the exercise of any Warrants, holders of the Warrants will not have any of the rights of holders of securities, including the right to receive payments of any dividends on the securities purchasable upon exercise of the Warrants, or to exercise any applicable right to vote.

DESCRIPTION OF UNITS

We may issue Units of Securities consisting of one or more of the following Securities: Common Stock, Preferred Stock, Warrants or any combination thereof. We may evidence each series of Units issued by unit certificates that we will issue under a separate agreement. We may enter into unit agreements with a unit agent. Each unit agent will be a bank or trust company that we select. You should read the particular terms of these documents, which will be described in more detail in the applicable prospectus supplement.

If we offer any Units, certain terms of that series of Units will be described in the applicable prospectus supplement, including, without limitation, the following, as applicable:

- the title of the series of Units;
- identification and description of the separate constituent securities comprising the Units;
- the price or prices at which the Units will be issued;
- the date, if any, on and after which the constituent Securities comprising the Units will be separately transferable;
- if appropriate, a discussion of material United States federal income tax considerations; and
- any other terms of the Units and their constituent Securities.

LEGAL MATTERS

Certain legal matters in connection with the Securities offered hereby will be passed upon for us by Kirkland & Ellis LLP, Houston, Texas.

EXPERTS

The consolidated financial statements of Kodiak Gas Services, Inc. as of December 31, 2023 and 2022 and for each of the three years in the period ended December 31, 2023 incorporated by reference in this Prospectus and in the Registration Statement have been so incorporated in reliance on the report of BDO USA, P.C., an independent registered public accounting firm given on the authority of said firm as experts in auditing and accounting.

The consolidated financial statements of CSI Compressco LP as of and for the years ended December 31, 2023 and 2022, and management's assessment of the effectiveness of internal control over financial reporting as of December 31, 2023, incorporated by reference in this prospectus and elsewhere in the registration statement have been so incorporated by reference in reliance upon the reports of Grant Thornton LLP, independent registered public accountants, upon the authority of said firm as experts in accounting and auditing.

Calculation of Filing Fee Tables

424(b)(7)
(Form Type)

Kodiak Gas Services, Inc.
(Exact Name of Registrant as Specified in its Charter)

Table 1: Newly Registered and Carry Forward Securities

	Security Type	Security Class Title	Fee Calculation or Carry Forward Rule	Amount Registered	Proposed Maximum Offering Price Per Unit	Maximum Aggregate Offering Price	Fee Rate	Amount of Registration Fee	Carry Forward Form Type	Carry Forward File Number	Carry Forward Initial Effective Date	Filing Fee Previously Paid In Connection with Unsold Securities to be Carried Forward
Newly Registered Securities												
Fees to be Paid	Equity	Common Stock, par value \$0.01 per share	Rule 457(c)	5,562,273 ⁽¹⁾	⁽²⁾	\$164,671,092.17 ⁽³⁾	0.00014760	\$24,306 ⁽³⁾				
Fees Previously Paid	N/A	N/A	N/A	N/A	N/A	N/A		N/A				
Carry Forward Securities												
Carry Forward Securities	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total Offering Amounts							\$24,306				
	Total Fees Previously Paid							N/A				
	Total Fee Offsets							\$7,011				
	Net Fee Due							\$17,295				

- (1) Consists of a maximum of 5,562,273 shares of common stock, par value \$0.01 per share (“common stock”), of the Registrant to be sold by the selling stockholders. Pursuant to Rule 416 under the Securities Act of 1933, as amended (the “Securities Act”), this prospectus supplement (“Prospectus Supplement”) shall also cover any additional shares of the Registrant’s common stock that shall become issuable by reason of any stock dividend, stock split, recapitalization, or other similar transaction effected without the receipt of consideration that results in an increase in the number of the outstanding shares of the Registrant’s common stock.
- (2) With respect to the offering of shares of our common stock by the selling stockholders, the proposed maximum offering price per share will be delivered from time to time in connection with, and at the time of, a sale by the selling stockholders.
- (3) Estimated solely for the purposes of computing the registration fee in accordance with pursuant to Rule 457(c) under the Securities Act, based upon \$29.6050, the average of the high and low prices of the Registrant’s common stock as quoted on the New York Stock Exchange on September 24, 2024 (a date within five business days prior to the filing of this Prospectus Supplement).

Table 2: Fee Offset Claims and Sources

	Registrant or Filer Name	Form or Filing Type	File Number	Initial Filing Date	Filing Date	Fee Offset Claimed	Security Type Associated with Fee Offset Claimed	Security Title Associated with Fee Offset Claimed	Unsold Securities Associated with Fee Offset Claimed	Unsold Aggregate Offering Amount Associated with Fee Offset Claimed	Fee Paid with the Fee Offset Source
Rules 457(b) and 0-11(a)(2)											
Fee Offset Claims	Kodiak Gas Services, Inc.	Form S-3	333-280710(1)	July 5, 2024		\$234,910					
Fee Offset Sources	Kodiak Gas Services, Inc.	Form S-3	333-280737(1)		July 10, 2024						\$227,899
Fee Offset Sources	Kodiak Gas Services, Inc.	Form S-3	333-280737(1)		September 27, 2024						\$7,011
Rule 457(p)											
Fee Offset Claims											
Fee Offset Sources											

- (1) The Registrant paid a registration fee of \$234,910 in connection with the registration of \$1,591,525,000 of shares of common stock under a prior Registration Statement on Form S-3 (Registration No. 333-280710) filed with the Securities and Exchange Commission (the “SEC”) on July 5, 2024 (the “Prior Registration Statement”). The Prior Registration Statement was withdrawn by filing a Form RW on July 9, 2024. The Registrant filed a Registration Statement on Form S-3ASR (Registration No. 333-280737) with the SEC on July 10, 2024 (the “Registration Statement”), and, in accordance with Rule 457(p) under the Securities Act, used \$227,899 of the aforementioned unused filing fees previously paid by the Registrant in connection with the Prior Registration Statement. The Registrant filed this Prospectus Supplement pursuant to the Registration Statement with the SEC on September 27, 2024 and, in accordance with Rule 457(p) under the Securities Act, the Registrant is using the remaining \$7,011 of the aforementioned unused filing fees previously paid by the Registrant in connection with filing the Prior Registration Statement to offset a portion of the filing fee payable in connection with this Prospectus Supplement, and as a result of such offset, the Registrant will have \$0 remaining in unused filing fees available to be applied to its future filings.