

KLX Energy Services Holdings, Inc.

2,501,865 shares of Common Stock

The securities to be offered and sold using this prospectus include 2,501,865 currently issued and outstanding shares of our common stock, par value \$0.01 per share ("common stock"). These shares of common stock may be offered and sold by the selling stockholders named in this prospectus or in any supplement to this prospectus from time to time in accordance with the provisions set forth under "Plan of Distribution."

The selling stockholders may offer and sell the shares of common stock offered by this prospectus from time to time in amounts, at prices and on terms to be determined by market conditions and other factors at the time of any such offerings. The selling stockholders may sell the shares of common stock at prevailing market prices or at prices negotiated with buyers. The selling stockholders will be responsible for any commissions due to brokers, dealers or agents. We will be responsible for all other offering expenses. We will not receive any of the proceeds from the sale by the selling stockholders of the shares of common stock offered by this prospectus.

Our common stock is traded on the Nasdaq under the symbol "KLXE." On June 10, 2021, the closing price of our common stock was \$10.24.

We are an "emerging growth company" as that term is used in the Jumpstart Our Business Startups Act of 2012, and, as such, have elected to avail ourselves of certain reduced public company reporting requirements for this prospectus and future filings.

You should read carefully this prospectus, the documents incorporated by reference in this prospectus and any prospectus supplement before you invest. See "Risk Factors" beginning on page 2 of this prospectus for information on certain risks related to the purchase of our securities.

The selling stockholders may sell the securities directly to or through underwriters or dealers, and also to other purchasers or through agents. The names of any underwriters or agents that are included in a sale of securities to you, and any applicable commissions or discounts, will be stated in any accompanying prospectus supplement. In addition, the underwriters, if any, may over-allot a portion of the securities.

Neither the Securities and Exchange Commission (the "SEC") nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus is June 11, 2021.

TABLE OF CONTENTS

	Page
ABOUT THIS PROSPECTUS	ii
WHERE YOU CAN FIND MORE INFORMATION	iii
DOCUMENTS INCORPORATED BY REFERENCE	iii
CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS	v
ABOUT KLX ENERGY SERVICES HOLIDNGS, INC.	1
RISK FACTORS	2
<u>USE OF PROCEEDS</u>	2
DESCRIPTION OF CAPITAL STOCK	3
SELLING STOCKHOLDERS	7
<u>PLAN OF DISTRIBUTION</u>	11
LEGAL MATTERS	13
<u>EXPERTS</u>	13

ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement that we have filed with the SEC using a "shelf" registration process. Under this shelf registration process, the selling stockholders may offer and sell from time to time the securities described in this prospectus in one or more offerings. This prospectus provides you with a general description of the securities that are registered hereunder that may be offered by the selling stockholders. Each time we offer the securities, we and the selling stockholders will provide you with a prospectus supplement that will describe, among other things, the specific amounts and prices of the securities being offered and the terms of the offering.

Any prospectus supplement may add, update, or change information contained in this prospectus. Any statement that we make in this prospectus will be modified or superseded by any inconsistent statement made by us in any prospectus supplement. The information in this prospectus is accurate as of its date. Additional information, including our financial statements and the notes thereto, is incorporated in this prospectus by reference to our reports filed with the SEC. Therefore, before you invest in our securities, you should carefully read this prospectus and any prospectus supplement relating to the securities offered to you together with the additional information incorporated by reference in this prospectus and any prospectus supplement (including the documents described under the heading "Where You Can Find More Information" and "Documents Incorporated by Reference" in both this prospectus and any prospectus supplement).

You should rely only on the information contained in or incorporated by reference in this prospectus or any prospectus supplement. Neither we nor the selling stockholders have authorized any other person to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. Neither we, the selling stockholders nor anyone acting on our behalf is making an offer to sell these securities in any jurisdiction where the offer or sale is not permitted. You should not assume that the information incorporated by reference or provided in this prospectus or any prospectus supplement is accurate as of any date other than the date on the front of those documents.

Unless the context otherwise requires, throughout this prospectus and any applicable prospectus supplement, the words "we," "us," the "registrant," "the Company," or "KLXE" refer to KLX Energy Services Holdings, Inc.; and the term "securities" refers to the shares of our common stock registered hereunder.

WHERE YOU CAN FIND MORE INFORMATION

We have filed a registration statement with the SEC under the Securities Act of 1933, as amended (the "Securities Act"), that registers the offer and sale of the securities covered by this prospectus. The registration statement, including the exhibits attached thereto and incorporated by reference therein, contains additional relevant information about us. In addition, we file annual, quarterly and other reports and other information with the SEC. The SEC maintains a website that contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC. Our SEC filings are available on the SEC's website at www.sec.gov.

We make available free of charge on or through our website, www.klxenergy.com, our filings with the SEC pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended (the "Exchange Act") as soon as reasonably practicable after we electronically file such material with, or furnish it to, the SEC. We make our website content available for information purposes only. Information contained on our website is not incorporated by reference into this prospectus and does not constitute a part of this prospectus.

DOCUMENTS INCORPORATED BY REFERENCE

The SEC allows us to "incorporate by reference" the information we have filed with the SEC. This means that we can disclose important information to you without actually including the specific information in this prospectus by referring you to other documents filed separately with the SEC. The information incorporated by reference is an important part of this prospectus. 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 documents listed below and any filings we make with the SEC under Sections 13(a), 13(c), 14, or 15(d) of Exchange Act (excluding information deemed to be furnished and not filed with the SEC), after the date on which the registration statement was initially filed with the SEC (including all such documents that we may file with the SEC after the date the registration statement was initially filed and prior to the effectiveness of the registration statement) until all offerings under the registration statement of which this prospectus forms a part are completed or terminated:

- our Annual Report on <u>Form 10-K</u> for the year ended January 31, 2021, filed on April 28, 2021 including those portions of our definitive proxy statement on <u>Schedule 14A</u>, filed on May 7, 2021, incorporated by reference therein;
- our quarterly report on Form 10-Q for the quarterly period ended April 30, 2021, filed on June 11, 2021;
- our Current Reports on Form 8-K filed on <u>February 16, 2021</u>, <u>February 26, 2021</u> (as amended on <u>March 1, 2021</u>), <u>May 7, 2021</u>, <u>May 14, 2021</u> and June 8, 2021;
- the description of our common stock contained in our Registration Statement on Form 10 filed on <u>July 25, 2018</u>, including the amendments thereto filed on <u>August 15, 2018</u> and <u>August 24, 2018</u>, as amended by <u>Exhibit 4.3</u> to our Annual Report on Form 10-K for the year ended January 31, 2021, and any further amendments thereto or reports that we may file in the future for the purpose of updating such description; and
- the consolidated financial statements of Quintana Energy Services, Inc. as of December 31, 2019 and 2018 and for each of the three years in the period ended December 31, 2019, incorporated by reference from our Registration Statement on Form S-4 filed on <u>June 2, 2020</u>, including the amendments thereto filed on <u>June 18, 2020</u> and <u>June 25, 2020</u>.

These reports contain important information about us, our financial condition and our results of operations.

You may obtain copies of any of the documents incorporated by reference in this prospectus from the SEC through the SEC's website at the address provided above. You also may request a copy of any document incorporated by reference in this prospectus (including exhibits to those documents specifically incorporated by reference in this prospectus), at no cost, by contacting us at:

KLX Energy Services Holdings, Inc. Attention: Investor Relations 3040 Post Oak Boulevard, 15th Floor Houston, Texas 77056 (832) 844-1015

iv

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS

This prospectus and the documents to which the Company refers you to in this prospectus, as well as oral statements made or to be made by the Company, include certain "forward-looking statements" within the meaning of, and subject to, the safe harbor created by the Private Securities Litigation Reform Act of 1995 and other federal securities laws, which are referred to as the safe harbor provisions, with respect to the businesses, strategies and plans of the Company and its expectations relating to its future financial condition and performance. Statements included in this prospectus that are not historical facts are forward-looking statements, including statements about the beliefs and expectations of the management of the Company. Words such as "believe," "continue," "could," "expect," "plan," "anticipate," "intends," "estimate," "forecast," "project," "potential," "predict", "should," "may," "might," "will," "would" or the negative thereof and similar expressions are intended to identify such forward-looking statements that are intended to be covered by the safe harbor provisions.

Any forward-looking statements in this prospectus, any prospectus supplement, and the information incorporated by reference in this prospectus and each prospectus supplement reflect our current views with respect to future events or to our future financial performance and involve known and unknown risks, uncertainties, and other factors that may cause our actual results, performance, or achievements to be materially different from any future results, performance, or achievements expressed or implied by these forward-looking statements. Factors that may cause actual results to differ materially from current expectations include, among other things, those described under the heading "Risk Factors" in our most recent Annual Report on Form 10-K filed with the SEC, as supplemented by our Quarterly Reports on Form 10-Q, and discussed elsewhere in this prospectus, each prospectus supplement, and the information incorporated by reference in this prospectus and each prospectus supplement. Given these uncertainties, you should not place undue reliance on these forward-looking statements.

All subsequent written or oral forward-looking statements attributable to the Company or any person acting on behalf of either company are expressly qualified in their entirety by the cautionary statements contained or referred to in this section. The Company is not under any obligation, and the Company expressly disclaims any obligation, to update, alter, or otherwise revise any forward-looking statements, whether written or oral, that may be made from time to time, whether as a result of new information, future events or otherwise, except as may be required by law.

ABOUT KLX ENERGY SERVICES HOLDINGS, INC.

KLXE is a growth-oriented provider of diversified oilfield services to leading onshore oil and natural gas exploration and production companies operating in both conventional and unconventional plays in all of the active major basins throughout the United States. The Company delivers mission critical oilfield services focused on drilling, completion, production, and intervention activities for the most technically demanding wells from over 50 service and support facilities located throughout the United States. KLXE's complementary suite of proprietary products and specialized services is supported by technically skilled personnel and a broad portfolio of innovative in-house manufacturing, repair and maintenance capabilities.

We were incorporated in Delaware on June 28, 2018. On September 14, 2018, we completed our spin-off from KLX Inc. and became an independent, publicly-traded company. Our principal executive offices are located at 3040 Post Oak Boulevard, 15th Floor, Houston, Texas 77056, and our telephone number is (832) 844-1015. Our website address is www.klxenergy.com. The information on our website is not part of this prospectus.

Implications of Being an Emerging Growth Company

We are an "emerging growth company" as defined in the JOBS Act enacted in April 2012. As a result, we may take advantage of reduced reporting requirements that are otherwise applicable to public companies, including delaying auditor attestation of internal control over financial reporting, providing only two years of audited financial statements and related Management's Discussion and Analysis of Financial Condition and Results of Operations, and reducing executive compensation disclosures.

We will remain an emerging growth company until the earlier to occur of (1) the last day of the fiscal year (a) following the fifth anniversary of the completion of our spin-off, which will be January 31, 2024, (b) in which we have total annual gross revenue of at least \$1.07 billion, or (c) in which we are deemed to be a "large accelerated filer" under the rules of the SEC, which means the market value of our common stock that is held by non-affiliates exceeds \$700 million as of the prior July 31st and (2) the date on which we have issued more than \$1.0 billion in non-convertible debt during the prior three-year period.

We have elected to take advantage of certain of the reduced disclosure obligations in the registration statement of which this prospectus is a part and may elect to take advantage of other reduced reporting requirements in future filings. Additionally, we are subject to an extended transition period for complying with new or revised accounting standards. As a result, the information that we provide to our stockholders may be different than what you might receive from other public reporting companies in which you hold equity interests.

RISK FACTORS

An investment in our securities involves a significant degree of risk. Before you invest in our securities, you should carefully consider those risk factors included in our most recent Annual Report on Form 10-K, any subsequently filed Quarterly Reports on Form 10-Q and any subsequently filed Current Reports on Form 8-K, each of which is incorporated herein by reference, and those risk factors that may be included in any applicable prospectus supplement, together with all of the other information included in this prospectus, any prospectus supplement and the documents we incorporate by reference, in evaluating an investment in our securities. If any of these risks were actually to occur, our business, financial condition or results of operations could be materially adversely affected. Additional risks not presently known to us or that we currently believe are immaterial may also significantly impair our business operations and financial condition. Please read "Cautionary Statement Regarding Forward-Looking Statements."

USE OF PROCEEDS

The Company will not receive any proceeds from the sale of the common stock offered under this prospectus. Any proceeds from the sale of common stock under this prospectus will be received by the selling stockholders.

DESCRIPTION OF CAPITAL STOCK

The following description of our common stock is not complete and may not contain all the information you should consider before investing in our common stock. This description is a summary of certain provisions contained in, and is qualified in its entirety by reference to, our amended and restated certificate of incorporation (the "Certificate"), and our third amended and restated bylaws (the "Bylaws").

Authorized Capital Stock

Under the Certificate, our authorized capital stock consists of 110 million shares of common stock, par value \$0.01 per share, and 11 million shares of preferred stock, par value \$0.01 per share ("preferred stock").

Common Stock

As of June 4, 2021, there were 8,831,007 shares of common stock outstanding.

Dividend Rights. Subject to the rights, if any, of the holders of any outstanding series of preferred stock, holders of common stock will be entitled to receive dividends out of any of the Company's funds legally available when, as and if declared by the board of directors of the Company (the "Board").

Voting Rights. Each holder of common stock is entitled to one vote per share on all matters on which stockholders are generally entitled to vote. The Certificate does not provide for cumulative voting in the election of directors.

Liquidation. If the Company liquidates, dissolves or winds up its affairs, holders of common stock are entitled to share proportionately in the assets of the Company available for distribution to stockholders, subject to the rights, if any, of the holders of any outstanding series of preferred stock.

Other Rights. All of the outstanding shares of common stock are fully paid and nonassessable. The holders of common stock have no preemptive rights and no rights to convert their common stock into any other securities, and our common stock is not subject to any redemption or sinking fund provisions.

Preferred Stock

Under the Certificate and subject to the limitations prescribed by law, the Board may issue preferred stock in one or more series and may establish from time to time the number of shares to be included in such series and may fix the designation, the voting powers, if any, and preferences and relative participating, optional or other rights, if any, of the shares of each such series and any qualifications, limitations or restrictions thereof. See "— Anti-Takeover Effects of Provisions of the Certificate and Bylaws."

When and if the Company issues any shares of preferred stock, the Board will establish the number of shares and designation of such series and the voting powers, if any, and preferences and relative participating, optional or other special rights, and the qualifications, limitations and restrictions thereof, for the particular series of preferred stock.

Anti-Takeover Effects of Provisions of the Certificate and Bylaws

The Certificate and Bylaws contain, and Delaware statutory law contains, provisions that could make acquisition of the Company by means of a tender offer, a proxy contest or otherwise more difficult. These provisions may discourage certain types of coercive takeover practices and takeover bids that the Board may consider inadequate and encourage persons seeking to acquire control of the Company to first negotiate with the Board. The Company believes that the benefits of increased protection of its ability to negotiate with the

proponent of an unfriendly or unsolicited proposal to acquire or restructure the Company outweigh the disadvantages of discouraging takeover or acquisition proposals because, among other things, negotiation of these proposals could result in an improvement of their terms. The description set forth below is only a summary and is qualified in its entirety by reference to the Certificate and the Bylaws.

Classified Board of Directors. The Certificate provides for the Board to be classified, which consists of three classes of directors. Directors of each class are elected for three-year terms, and each year the Company's stockholders elect one class of the Company's directors, with a term expiring at the third annual meeting of stockholders following the annual meeting at which such directors were elected. Under this classified Board structure, it would take at least two elections of directors for any individual or group to gain control of the Board. Accordingly, these provisions could discourage a third party from initiating a proxy contest, making a tender offer or otherwise attempting to gain control of the Company.

Number of Directors; Filling Vacancies; Removal. The Certificate and Bylaws provide that the Company's business and affairs will be managed by or under the direction of the Board. The Certificate and Bylaws provide that the Board will consist of not less than three nor more than nine members, with the exact number of directors within these limits to be fixed exclusively by the Board. In addition, the Certificate provides that any Board vacancy, including a vacancy resulting from an increase in the number of directors, may be filled solely by the affirmative vote of a majority of the remaining directors then in office, even if less than a quorum of the Board, or by the sole remaining director. Delaware statutory law provides that, if a Delaware corporation has a classified board, unless the certificate of incorporation provides otherwise, its directors may only be removed for cause. The Certificate provides that any director, or the entire Board, may be removed from office at any time, only for cause in accordance with Delaware law, by the affirmative vote of the holders of at least 66 2/3% of the total voting power of the outstanding shares of the Company's capital stock entitled to vote in any annual election of directors, voting as a single class. These provisions may prevent stockholders from removing incumbent directors without cause and filling the resulting vacancies with their own nominees.

Special Meetings. The Certificate and Bylaws provide that special meetings of the stockholders may only be called by the Board or certain officers of the Company. These provisions will make it more difficult for stockholders to take an action opposed by the Board.

No Stockholder Action by Written Consent Unless Approved by the Board. The Certificate and Bylaws require that all actions to be taken by stockholders must be taken at a duly called annual or special meeting, and stockholders will not be permitted to act by written consent unless both the action and the taking of the action by written consent are approved in advance by the Board. These provisions may make it more difficult for stockholders to take an action opposed by the Board.

Amendments to the Certificate. The Certificate provides that the affirmative vote of the holders of at least 66 2/3% of the total voting power of the then-outstanding shares of common stock entitled to vote, voting as a single class, is required to amend or repeal, or adopt any provision inconsistent with certain provisions in the Certificate, including those provisions providing for a classified board, provisions regarding the filling of vacancies on the Board, provisions providing for the removal of directors, provisions regarding the calling of special meetings, provisions regarding stockholder action by written consent and provisions regarding amendment of the Certificate. These provisions may make it more difficult for stockholders to make changes to the Certificate.

Amendments to the Bylaws. The Certificate provides that the Board has the power to adopt, amend or repeal the Bylaws. Any such adoption, amendment or repeal of the Bylaws by the Board shall require approval of a majority of the entire Board. The Certificate provides that, notwithstanding any other provision of the Certificate, the affirmative vote of the holders of at least 662/3% of the total voting power of the then-outstanding shares of common stock entitled to vote, voting as a single class, is required for the Company's stockholders to amend or repeal, or adopt any provisions in the Bylaws. These provisions may make it more difficult for stockholders to make changes to the Bylaws that are opposed by the Board.

Requirements for Advance Notification of Stockholder Nomination and Proposals. Under the Bylaws, stockholders of record may nominate persons for election to the Board or bring other business constituting a proper matter for stockholder action at annual meetings only by providing proper notice to the Company secretary. Proper notice must be generally received not less than 90 days nor more than 120 days prior to the first anniversary date of the annual meeting for the preceding year (or, in some cases, prior to the tenth day following the announcement of the meeting) and must include, among other information, the name and address of the stockholder giving the notice, certain information relating to each person whom such stockholder proposes to nominate for election as a director and a brief description of any business such stockholder proposes to bring before the meeting. Nothing in the Bylaws may be deemed to affect any rights of stockholders to request inclusion of proposals in the Company's proxy statement pursuant to Rule 14a-8 under the Exchange Act. Contests for the election of directors or the consideration of stockholder proposals will be precluded if the proper procedures are not followed. Third parties may therefore be discouraged from conducting a solicitation of proxies to elect their own slate of directors or to approve their own proposals.

Forum and Venue. The Bylaws provide that, unless the Company consents in writing to the selection of an alternative forum, the sole and exclusive forum for certain legal actions involving the Company will be the Court of Chancery of the State of Delaware (or, if the Court of Chancery of the State of Delaware lacks subject matter jurisdiction, the federal district court for the District of Delaware).

Section 203 of the Delaware General Corporation Law

Section 203 of the DGCL generally provides that, subject to certain specified exceptions, a corporation will not engage in any "business combination" with any "interested stockholder" for a three-year period following the time that such stockholder becomes an interested stockholder unless (1) before that time, the board of directors of the corporation approved either the business combination or the transaction that resulted in the stockholder becoming an interested stockholder, (2) upon consummation of the transaction that resulted in the stockholder becoming an interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction commenced (excluding certain shares) or (3) on or after such time, both the board of directors of the corporation and at least 662/3% of the outstanding voting stock that is not owned by the interested stockholder approves the business combination. Section 203 of the DGCL generally defines an "interested stockholder" to include (x) any person that owns 15% or more of the outstanding voting stock of the corporation or is an affiliate or associate of the corporation and owned 15% or more of the outstanding voting stock of the corporation that resulted in the stockholder interested stockholder.

Section 203 of the DGCL generally defines a "business combination" to include (1) mergers and sales or other dispositions of 10% or more of the corporation's assets with or to an interested stockholder, (2) certain transactions resulting in the issuance or transfer to the interested stockholder of any stock of the corporation or its subsidiaries, (3) certain transactions that would increase the proportionate share of the stock of the corporation or its subsidiaries owned by the interested stockholder and (4) receipt by the interested stockholder of the benefit (except proportionately as a stockholder) of any loans, advances, guarantees, pledges or other financial benefits.

Under certain circumstances, Section 203 of the DGCL makes it more difficult for a person who would be an "interested stockholder" to effect various business combinations with a corporation for a three-year period. A corporation may elect not to be governed by the restrictions on business combination under Section 203 by adopting provisions of its certificate of incorporation or bylaws in accordance with Section 203.

Neither the Certificate nor the Bylaws exclude the Company from the restrictions imposed under Section 203 of the DGCL. Section 203 may encourage companies interested in acquiring the Company to negotiate in advance with the Board as the restrictions on business combinations will apply unless the Board approves, prior to the time the stockholder becomes an interested stockholder, either the business combination or the transaction that results in the stockholder becoming an interested stockholder.

Transfer Agent and Registrar

The transfer agent and registrar for our common stock is Computershare.

Listing

Our common stock is listed on Nasdaq under the ticker symbol "KLXE."

SELLING STOCKHOLDERS

This prospectus covers the public resale of the shares of common stock issued by us to the selling stockholders named below in our acquisition (the "Merger") of Quintana Energy Services Inc. ("QES"), which we refer to collectively herein as the "Shares". The selling stockholders may from time to time offer and sell pursuant to this prospectus any or all of the Shares owned by them, but make no representation that any of the Shares will be offered for sale. Except as described below under "Director Relationships," and as may be updated in our most recent Annual Report on Form 10-K, including any proxy statement incorporated into such Annual Report, none of the selling stockholders is a director, officer or employee of ours or an affiliate of such person. The table below presents information regarding the selling stockholders and the Shares that each selling stockholder may offer and sell from time to time under this prospectus.

The following table sets forth:

- the name of each selling stockholder;
- the number of Shares beneficially owned by each selling stockholder prior to the sale of the Shares covered by this prospectus;
- the number of Shares that may be offered by each selling stockholder pursuant to this prospectus;
- the number of Shares to be beneficially owned by each selling stockholder following the sale of any Shares covered by this prospectus; and
- the percentage of common stock owned by the selling stockholder following the sale of any Shares covered by this Prospectus.

All information with respect to common stock ownership of the selling stockholders has been furnished by or on behalf of the selling stockholders and is as of May 1, 2021. Based on information supplied by the selling stockholders, except as may otherwise be indicated in the footnotes to the table below, each selling stockholder has sole voting and dispositive power with respect to the common stock reported as owned by them.

Because the selling stockholders identified in the table may sell some or all of the Shares 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, no estimate can be given as to the number of Shares 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 common stock they hold in transactions exempt from the registration requirements of the Securities Act after the date on which they 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 beneficially owned by them that are covered by this prospectus, but will not sell any other shares of our common stock that they may presently own. The percent of beneficial ownership for the selling stockholders is based on 8,829,137 shares of our common stock outstanding as of May 11, 2021.

	Shares of Common Stock Owned Prior to this Offering		Shares of Common Stock to be Sold Pursuant to this Prospectus	Shares of Common Stock Owned After Sale of Shares	
Selling Stockholders	Number	Percent	<u> </u>	Number	Percent
Sening Stockholders					
Quintana					
Quintana Energy Partners— QES Holdings, L.L.C. (1)	517,979	5.87%	517,979	0	0%
Quintana Energy Fund—FI,	317,373	J.07 /0	317,373	U	070
LP (1)	30,911	*	30,911	0	0%
Quintana Energy Fund—TE,	,		,		
LP (1)	77,037	*	77,037	0	0%
QEP Management Co., LP (2)	9,690	*	9,690	0	0%
Robertson QES					
Robertson QES Investment					
LLC (3)	279,657	3.17%	279,657	0	0%
Corbin J. Robertson, Jr.					
Corbin J. Robertson, Jr. (4)	26,793	*	26,793	0	0%
Archer					
Archer Holdco LLC (5)	919,998	10.42%	919,998	0	0%
Geveran					
Geveran Investments					
Limited (6)	446,000	5.05%	446,000	0	0%
Famatown Finance					
Limited (6)	193,800	2.20%	193,800	0	0%
Total	2,501,865	28.34%	2,501, 865	0	0%

Maximum Number of

- * Denotes less than 1% of the shares outstanding.
- (1) The general partner of each of Quintana Energy Partners, L.P., Quintana Energy Fund—FI, LP and Quintana Energy Fund—TE, LP is Quintana Capital Group, L.P. Quintana Capital Group GP Ltd. is the general partner of Quintana Capital Group, L.P. and may be deemed to have beneficial ownership of the shares directly held by Quintana Energy Partners—QES Holdings, L.L.C., Quintana Energy Fund—TE, LP and Quintana Energy Fund—FI, LP. The board of directors of Quintana Capital Group GP Ltd. consists of Paul Cornell, Donald L. Evans, Corbin J. Robertson, Jr., Corbin J. Robertson III and William K. Robertson, none of whom individually have voting and dispositive power over these shares. Each of Corbin J. Robertson III and William K. Robertson are the children of Corbin J. Robertson. Each such person expressly disclaims beneficial ownership over these shares, except to the extent of any pecuniary interest therein. Corbin J. Robertson, Jr., as a member of the board of directors of Quintana Capital Group GP Ltd., may be deemed to beneficially own these shares due to his additional rights regarding the management Co. GP, LLC, may be deemed to beneficially own these shares due to his additional rights regarding the management of QEP Management Co. GP, LLC. The mailing address of Quintana Capital Group, L.P. and its affiliates is 1415 Louisiana Street, Suite 2400, Houston, TX, 77056.
- (2) QEP Management Co. GP, LLC, the general partner of QEP Management Co., LP, may also be deemed to

be the beneficial owner of these shares. The board of managers of QEP Management Co. GP, LLC consists of Donald L. Evans, Paul Cornell, Corbin J. Robertson, Jr., Corbin J. Robertson III and William K. Robertson, none of whom individually have voting and dispositive power over these shares. Each of Corbin J. Robertson III and William K. Robertson are the children of Corbin J. Robertson, Jr. Each such person expressly disclaims beneficial ownership over these shares, except to the extent of any pecuniary interest therein. Corbin J. Robertson, Jr., as a member of the board of managers of QEP Management Co. GP, LLC, may be deemed to beneficially own these shares due to his additional rights regarding the management of QEP Management Co. GP, LLC. The mailing address of QEP Management Co., LP and its affiliates is 1415 Louisiana Street, Suite 2400, Houston, TX, 77056.

- (3) The sole manager of Robertson QES Investment LLC has voting and dispositive power over these shares. Corbin J. Robertson, Jr. serves as the sole manager of Robertson QES Investment LLC and expressly disclaims ownership over these shares, except to the extent of any pecuniary interest therein. Certain children of Mr. Robertson or entities they control, including Corbin J. Robertson III, Christine Morenz, and William K. Robertson, are members of Robertson QES Investment LLC and expressly disclaim ownership over these shares, except to the extent of any pecuniary interest therein. The mailing address for Robertson QES Investment LLC is 1415 Louisiana Street, Suite 2400, Houston, TX, 77056.
- (4) The number reported includes 2,257 shares of common stock issued to Mr. Robertson pursuant to a restricted stock award. Until settled, Mr. Robertson has no dispositive power over the common stock underlying the restricted stock. Corbin J. Robertson, Jr. serves as a director on the Company's board of directors. The mailing address of Mr. Robertson is 1415 Louisiana Street, Suite 2400, Houston, TX, 77056.
- (5) Archer Holdco LLC is wholly-owned by Archer Well Company Inc., which is wholly-owned by Archer Assets UK Limited, which is wholly-owned by Archer Limited. The board of directors of Archer Limited has voting and dispositive power over these shares and therefore may also be deemed to be the beneficial owner of these shares. The board of directors of Archer Limited consists of Kjell-Erik Østdahl, James O'Shaughnessy, Kristian Melhuus, Giovanni Dell'Orto and Peter J. Sharpe, none of whom individually have voting and dispositive power over these shares. Each such person expressly disclaims beneficial ownership over these shares, except to the extent of any pecuniary interest therein. The mailing address for Archer Holdco LLC is 5510 Clara Rd., Houston, Texas 77041.
- (6) Geveran Investments Limited and Famatown Finance Limited are wholly-owned subsidiaries of Greenwich Holdings Limited. Mr. John Fredriksen has two settled trusts (the "Trusts"), which together own Greenwich Holdings Limited and are the indirect owners of Geveran Investments Limited, Famatown Finance Limited and these shares. The beneficiaries of both Trusts (the trustees of which are C.K. Limited) are members of Mr. Fredriksen's family. Mr. Fredriksen is neither a beneficiary nor a trustee of either Trust. Therefore Mr. Fredriksen has no economic interest in these shares and he disclaims any control over these shares, save for any indirect influence he may have with the trustees of the Trusts in his capacity as the settlor of the Trusts. The mailing address for both Geveran Investments Limited and Famatown Finance Limited is P.O. Box 53562, CY3399, Limassol, Cyprus.

Director Relationships

Following the Merger and pursuant to the terms of the related Agreement and Plan of Merger, dated as of May 3, 2020 (the "Merger Agreement") entered into between the Company and QES, the Board of the Company consists of nine members, including four former directors of QES (the "Designated QES Directors"). The Designated QES Directors include (1) Gunnar Eliassen, who is a partner of Seatankers Services (UK) LLP and may be deemed to be related to Geveran Investments Limited; (2) Dag Skindlo, the Chief Executive Officer of Archer Limited; and (3) Corbin J. Robertson, Jr., a selling stockholder and an affiliate of Robertson QES Investment LLC and the Quintana entities. None of the selling stockholders have any continuing director designation rights with the Company.

Registration Rights Agreement

In connection with the Merger, we entered into that certain registration rights agreement, dated as of May 3, 2020, with the selling stockholders (the "Registration Rights Agreement"). Pursuant to the Registration Rights

Agreement, the selling stockholders have certain rights briefly outlined below, upon the terms and subject to the conditions set forth therein. The rights under the Registration Rights Agreement are substantially similar to rights the selling stockholders had under that certain registration rights agreement entered into in connection with initial public offering of QES in 2018.

Demand Rights. Subject to certain limitations, the selling stockholders have the right, by delivering written notice to us, to require us to register the number of our common stock requested to be so registered in accordance with the Registration Rights Agreement. Within five business days of receipt of notice of a demand registration, we are required to give written notice to all other holders of registrable shares of common stock. Subject to certain limitations as described below, we will prepare and file a registration statement within 90 days of the initial request and shall use our commercially reasonable efforts to cause any registration statement to be declared effective by the SEC as soon as practicable thereafter.

Shelf Takedowns. Subject to certain limitations, the selling stockholders are entitled to request shelf takedowns, including underwritten shelf takedowns, subject to the Company's ability to delay such shelf takedowns in certain circumstances.

Piggyback Rights. Subject to certain limitations, the selling stockholders are entitled to request to participate in, or "piggyback" on, registrations of any of our common stock for sale by us in an underwritten offering.

Conditions and Limitations. The registration rights outlined above are subject to conditions and limitations, including the right of the underwriters, as applicable, to limit the number of shares to be included in a registration statement and our right to delay or withdraw a registration statement under specified circumstances.

If requested by the lead managing underwriter, the selling stockholders will not be able to make any sale of our common stock, except the common stock included in such registration, during a period commencing on the date beginning ten (10) days prior to the expected date of "pricing" of such offering and continuing for a period not to exceed 90 days beginning on the date of such final prospectus (or prospectus supplement if the offering is made pursuant to a shelf registration statement), or such shorter period as may be requested by the lead managing underwriter.

Expenses and Indemnification. In connection with any registration effected pursuant to the terms of the Registration Rights Agreement, we are required to pay for all of the fees and expenses incurred in connection with such registration, including, without limitation, registration fees, qualification and filing fees and printing expenses. However, the underwriting discounts and selling commissions payable in respect of registrable securities included in any registration are to be paid by the persons including such registrable securities in any such registration on a pro rata basis. We have also agreed to indemnify the holders of registrable securities and each of their respective officers, directors, partners and agents, the underwriters, and each person who controls such holders or underwriters, against all losses, claims, actions, damages, liabilities and expenses (joint or several) with respect to each registration effected pursuant to the Registration Rights Agreement.

Please see our most recent Annual Report on Form 10-K, including any proxy statement incorporated into such Annual Report, for additional descriptions of the nature of any position, office, or other material relationship which any of the selling stockholders has had within the past three years with us and our affiliates.

PLAN OF DISTRIBUTION

The selling stockholders may, from time to time, sell, transfer or otherwise dispose of any or all of their shares or interests in the shares on any stock exchange, market or trading facility on which the shares are traded or in private transactions. The selling stockholders may sell their shares of common stock from time to time at the prevailing market price or in privately negotiated transactions.

The selling stockholders may use any one or more of the following methods when disposing of shares or interests therein:

- on the Nasdaq, in the over-the-counter market or on any other securities exchange on which our common stock is listed or traded;
- ordinary brokerage transactions and transactions in which the broker-dealer solicits purchasers;
- block trades in which the broker-dealer will attempt to sell the shares as agent, but may position and resell a portion of the block as principal to facilitate the transaction;
- purchases by a broker-dealer as principal and resale by the broker-dealer for its account;
- an exchange distribution in accordance with the rules of the applicable exchange;
- privately negotiated transactions;
- in underwritten transactions;
- distributions to limited partners;
- short sales effected after the date the registration statement of which this prospectus is a part is declared effective by the SEC;
- through the writing or settlement of options or other hedging transactions, whether through an options exchange or otherwise;
- · broker-dealers may agree with the selling stockholders to sell a specified number of such shares at a stipulated price per share; and
- a combination of any such methods of sale.

The selling stockholders may sell the shares at fixed prices, at prices then prevailing or related to the then current market price or at negotiated prices. The offering price of the shares from time to time will be determined by the selling stockholders and, at the time of the determination, may be higher or lower than the market price of our common stock on the Nasdaq or any other exchange or market.

The shares may be sold directly or through broker-dealers acting as principal or agent, or pursuant to a distribution by one or more underwriters on a firm commitment or best-efforts basis. The selling stockholders may also enter into hedging transactions with broker-dealers. In connection with such transactions, broker-dealers of other financial institutions may engage in short sales of our common stock in the course of hedging the positions they assume with the selling stockholders. The selling stockholders may also enter into options or other transactions with broker-dealers or other financial institutions which require the delivery to such broker-dealer or other financial institution of shares offered by this prospectus, which shares such broker-dealer or other financial institution may resell pursuant to this prospectus (as supplemented or amended to reflect such transaction). In connection with an underwritten offering, underwriters or agents may receive compensation in the form of discounts, concessions or commissions from the selling stockholders or from purchasers of the offered shares for whom they may act as agents. In addition, underwriters may sell the shares to or through dealers, and those dealers may receive compensation in the form of discounts, concessions from the underwriters and/or commissions from the purchasers for whom they may act as agents. The selling stockholders and any underwriters, dealers or agents

participating in a distribution of the shares may be deemed to be underwriters within the meaning of the Securities Act, and any profit on the sale of the shares by the selling stockholders and any commissions received by broker-dealers may be deemed to be underwriting commissions under the Securities Act

The selling stockholders may agree to indemnify an underwriter, broker-dealer or agent against certain liabilities related to the selling of their shares, including liabilities arising under the Securities Act. Under the Registration Rights Agreement, we have agreed to indemnify the selling stockholders against certain liabilities related to the sale of the common stock, including certain liabilities arising under the Securities Act. Under the Registration Rights Agreement, we have also agreed to pay the costs, expenses and fees of registering the shares of common stock. All other expenses of issuance and distribution will be borne by the selling stockholders.

The selling stockholders are subject to the applicable provisions of the Exchange Act, and the rules and regulations under the Exchange Act, including Regulation M. This regulation may limit the timing of purchases and sales of any of the shares of common stock offered in this prospectus by the selling stockholders. The anti-manipulation rules under the Exchange Act may apply to sales of shares in the market and to the activities of the selling stockholders and its affiliates. Furthermore, Regulation M may restrict the ability of any person engaged in the distribution of the shares to engage in market-making activities for the particular securities being distributed for a period of up to five business days before the distribution. The restrictions may affect the marketability of the shares and the ability of any person or entity to engage in market-making activities for the shares.

To the extent required, this prospectus may be amended and/or supplemented from time to time to describe a specific plan of distribution. Instead of selling the shares of common stock under this prospectus, the selling stockholders may sell the shares of common stock in compliance with the provisions of Rule 144 under the Securities Act, if available, or pursuant to other available exemptions from the registration requirements of the Securities Act.

Under the securities laws of some states, if applicable, the securities registered hereby may be sold in those states only through registered or licensed brokers or dealers. In addition, in some states such securities may not be sold unless they have been registered or qualified for sale or an exemption from registration or qualification requirements is available and is complied with.

We cannot assure you that the selling stockholders will sell all or any portion of our common stock offered hereby.

Under the Registration Rights Agreement entered into with the selling stockholders, we agreed to use our commercially reasonable efforts to keep the registration statement of which this prospectus constitutes a part continuously effective under the Securities Act until the date that all Registrable Securities (as defined in the Registration Rights Agreement) covered by this registration statement have ceased to be Registrable Securities.

LEGAL MATTERS

The validity of the issuance of the securities offered in this prospectus will be passed upon for us by Vinson & Elkins L.L.P., Houston, Texas. If certain legal matters in connection with an offering of the securities made by this prospectus and a related prospectus supplement are passed upon by counsel for the underwriters of such offering, that counsel will be named in the applicable prospectus supplement related to that offering.

EXPERTS

The financial statements incorporated in this Prospectus by reference from the Company's Annual Report on Form 10-K for the year ended January 31, 2021, have been audited by Deloitte & Touche LLP, an independent registered public accounting firm, as stated in their report, which is incorporated herein by reference. Such financial statements have been so incorporated in reliance upon the report of such firm given upon their authority as experts in accounting and auditing.

The audited historical financial statements of Quintana Energy Services, Inc. included in Annex P of KLX Energy Services Holdings, Inc.'s Registration Statement on Form S-4 dated June 25, 2020 have been so incorporated in reliance on the report of PricewaterhouseCoopers LLP, an independent registered public accounting firm, given on the authority of said firm as experts in auditing and accounting.



Prospectus

June 11, 2021