



smartsand®

Mine to Wellsite Solutions

May 2019 Investor Presentation

May 7, 2019

Forward-Looking Statements

This presentation contains forward-looking statements within the meaning of the federal securities laws. Statements that are predictive in nature, that depend upon or refer to future events or conditions or that include the words “believe,” “expect,” “anticipate,” “intend,” “estimate” and other expressions that are predictions of or indicate future events and trends and that do not relate to historical matters identify forward-looking statements. Our forward-looking statements include statements about our business strategy, our industry, our future profitability, our expected capital expenditures and the impact of such expenditures on our performance, the costs of being a publicly traded corporation and our capital programs.

A forward-looking statement may include a statement of the assumptions or bases underlying the forward-looking statement. We believe that we have chosen these assumptions or bases in good faith and that they are reasonable. Factors that could cause our actual results to differ materially from the results contemplated by such forward-looking statements include, but are not limited to (i) large or multiple customer defaults, including defaults resulting from actual or potential insolvencies, (ii) the level of production of crude oil, natural gas and other hydrocarbons and the resultant market prices of crude oil, natural gas, natural gas liquids and other hydrocarbons, (iii) changes in general economic and geopolitical conditions; (iv) competitive conditions in our industry, (v) changes in the long-term supply of and demand for oil and natural gas, (vi) actions taken by our customers, competitors and third-party operators, (vii) changes in the availability and cost of capital, (viii) our ability to successfully implement our business plan, (ix) our ability to complete growth projects on time and on budget, (x) the price and availability of debt and equity financing (including changes in interest rates), (xi) changes in our tax status, (xii) technological changes, (xiii) operating hazards, natural disasters, weather-related delays, casualty losses and other matters beyond our control, (xiv) the effects of existing and future laws and governmental regulations (or the interpretation thereof), (xv) failure to secure or maintain contracts with our largest customers or non-performance of any of those customers under the applicable contract, (xvi) the effects of current and future litigation, and such other factors discussed or referenced in the “Risk Factors” and “Management’s Discussion and Analysis of Financial Condition and Results of Operations” sections of the Form 10-K and the Form 10-Q filed by the Company with U.S. Securities and Exchange Commission (the “SEC”) on March 14, 2019, and May 7, 2019, respectively.

You should not place undue reliance on our forward-looking statements. Although forward-looking statements reflect our good faith beliefs at the time they are made, forward-looking statements involve known and unknown risks, uncertainties and other factors, including the factors described in the preceding paragraph, which may cause our actual results, performance or achievements to differ materially from anticipated future results, performance or achievements expressed or implied by such forward-looking statements. You should also carefully consider the statements under the heading “Note About Forward-Looking Statements” in the Annual Report on Form 10-K for the year ended December 31, 2018. Any forward-looking statement speaks only as of the date on which such statement is made, and we undertake no obligation to publicly update or revise any forward-looking statement, whether as a result of new information, future events, changed circumstances or otherwise, unless required by law.

In this presentation, assumptions were made with respect to industry performance, general business and economic conditions and other matters. Any estimates contained in these analyses, whether expressed or implied, are based on estimates and are not necessarily indicative of actual values or predictive of future results or values, which may be significantly more or less favorable than as set forth herein. The Company reserves the right to change any or all of the estimates included herein whether as a result of any changes in the above referenced information, market factors or otherwise.

Industry and Market Data

This presentation has been prepared by the Company and includes market data and other statistical information from third-party sources, including independent industry publications, or other published independent sources. Although the Company believes these third-party sources are reliable as of their respective dates, the Company has not independently verified the accuracy or completeness of this information.

Reserves

Mineral resources and reserves are typically classified by confidence (reliability) levels based on the level of exploration, consistency and assurance of geologic knowledge of the deposit. This classification system considers different levels of geoscientific knowledge and varying degrees of technical and economic evaluation. Mineral reserves are derived from in situ resources through application of modifying factors, such as mining, analytical, economic, marketing, legal, environmental, social and governmental factors, relative to mining methods, processing techniques, economics and markets. In estimating our reserves, our independent reserve engineer does not classify a resource as a reserve unless that resource can be demonstrated to have reasonable certainty to be recovered economically in accordance with the modifying factors listed above. "Reserves" are defined by SEC Industry Guide 7 as that part of a mineral deposit that could be economically and legally extracted or produced at the time of the reserve determination. Industry Guide 7 defines "proven (measured) reserves" as reserves for which (a) quantity is computed from dimensions revealed in outcrops, trenches, workings or drill holes; grade and/or quality are computed from the results of detailed sampling and (b) the sites for inspection, sampling and measurement are spaced so closely and the geologic character is so well defined that size, shape, depth and mineral content of reserves are well-established. Industry Guide 7 defines "probable (indicated) reserves" as reserves for which quantity and grade and/or quality are computed from information similar to that used for proven (measured) reserves, but the sites for inspection, sampling, and measurement are farther apart or are otherwise less adequately spaced. The degree of assurance, although lower than that for proven (measured) reserves, is high enough to assume continuity between points of observation.

Non-GAAP Information

This presentation also contains information about the Company's EBITDA, Adjusted EBITDA, and contribution margin, which are not measures derived in accordance with U.S. generally accepted accounting principles ("GAAP") and which exclude components that are important to understanding the Company's financial performance. We define EBITDA as our net income, plus (i) depreciation, depletion, accretion and amortization expense; (ii) income tax expense (benefit); (iii) interest expense and (iv) franchise taxes. We define Adjusted EBITDA as EBITDA, plus (i) gain or loss on sale of fixed assets or discontinued operations, (ii) integration and transition costs associated with specified transactions, (iii) equity compensation, (iv) acquisition and development costs, (v) non-recurring cash charges related to restructuring, retention and other similar actions, (vi) earn-out, contingent consideration obligations and other acquisition and development costs, (vii) non-cash charges and unusual or non-recurring charges. We believe that our presentation of EBITDA and Adjusted EBITDA will provide useful information to investors in assessing our financial condition and results of operations. Net income is the GAAP measure most directly comparable to EBITDA and Adjusted EBITDA. EBITDA and Adjusted EBITDA should not be considered alternatives to net income presented in accordance with GAAP. Because EBITDA and Adjusted EBITDA may be defined differently by other companies in our industry, our definition of EBITDA and Adjusted EBITDA may not be comparable to similarly titled measures of other companies, thereby diminishing its utility. Reconciliations of EBITDA and Adjusted EBITDA to net income, the most directly comparable GAAP financial measure, can be found in the Appendix to this presentation.

We also use contribution margin, which we define as total revenues less costs of goods sold excluding depreciation, depletion and accretion of asset retirement obligations, to measure our financial and operating performance. Contribution margin excludes other operating expenses and income, including costs not directly associated with the operations of our business such as accounting, human resources, information technology, legal, sales and other administrative activities. We believe contribution margin is a meaningful measure because it provides an operating and financial measure of our ability to generate margin in excess of our operating cost base. A reconciliation of contribution margin to gross profit, the most directly comparable GAAP financial measure, can be found in the Appendix to this presentation.

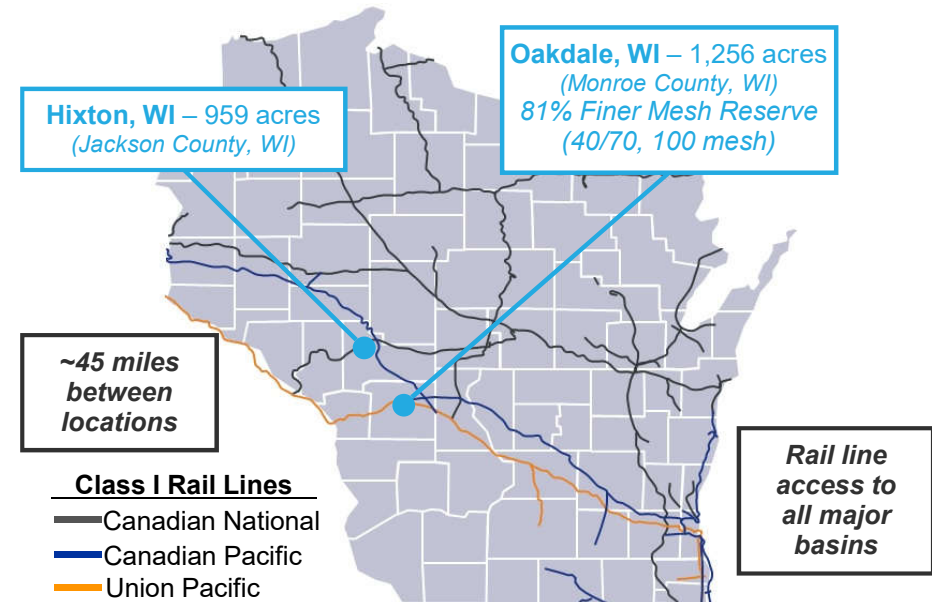
Who is Smart Sand



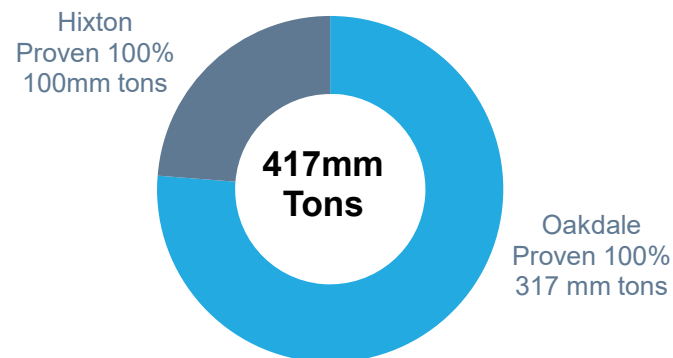
Overview

- Fully integrated provider of high quality Northern White frac sand.
- Large fine mesh (40/70 and 100 Mesh) Northern White reserve base
- Low cost and efficient operations
- Cost-efficient provider of mine to wellsite solutions to simplify our customers' frac sand supply chain needs

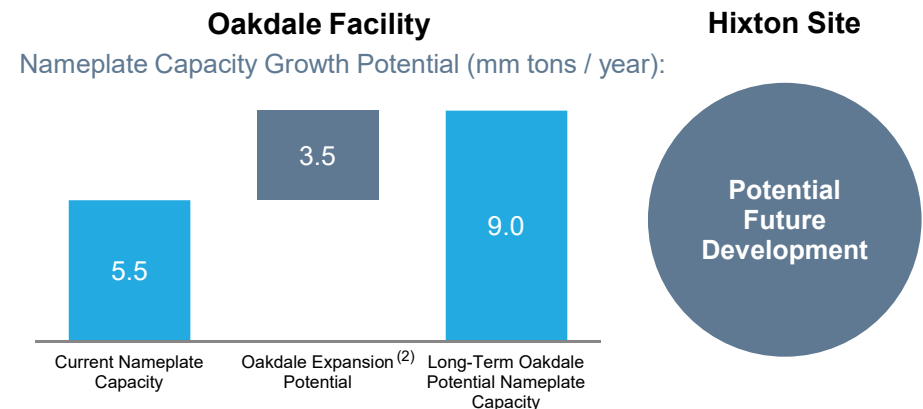
Reserve Locations



Sand Reserve Overview ⁽¹⁾



Significant Organic Growth Potential



Source: Smart Sand Management, Company disclosures.

(1) Reserves data as of December 31, 2018.

(2) Further development and permitting at the Oakdale facility could ultimately allow for production of up to 9 million tons of raw frac sand per year.

Why is Smart Sand Different? It's a one-stop shop



Smart Sand's Business Offerings

Premium Northern White Reserve



Gigantic Rail Capacity



Terminal & Forward Staging Management



Last Mile Logistics



Wellsite Storage Solutions



Large Finer Mesh Northern White Reserve

Consistent high-quality proppant

5.5mm tons annual production capability

Dual-served (CP & UP)

Over 16 miles of track space

Unit train capable

Planning ahead reduces risks

Redundancy in the supply chain

Avoid trucking congestion

Safe and reliable

Helps eliminate demurrage

Smaller fleet and more turns per day

Wellsite storage

Direct to the blender delivery

Realtime inventory control


Result: No hiccups in the supply chain

Product and Service Quality Matter Long Term



Feedback from our customer base:

- Delivering high quality proppant to the wellhead in the large volumes needed
- Reliable long-term production from their wells
- Cost—both long-term and short-term



It's not about the price per ton, it's about the
Quality.

"The bitterness of poor quality remains long after the sweetness of low price is forgotten."
Ben Franklin

West Texas (“WTX”) Sand is a lower quality proppant vs. Northern White

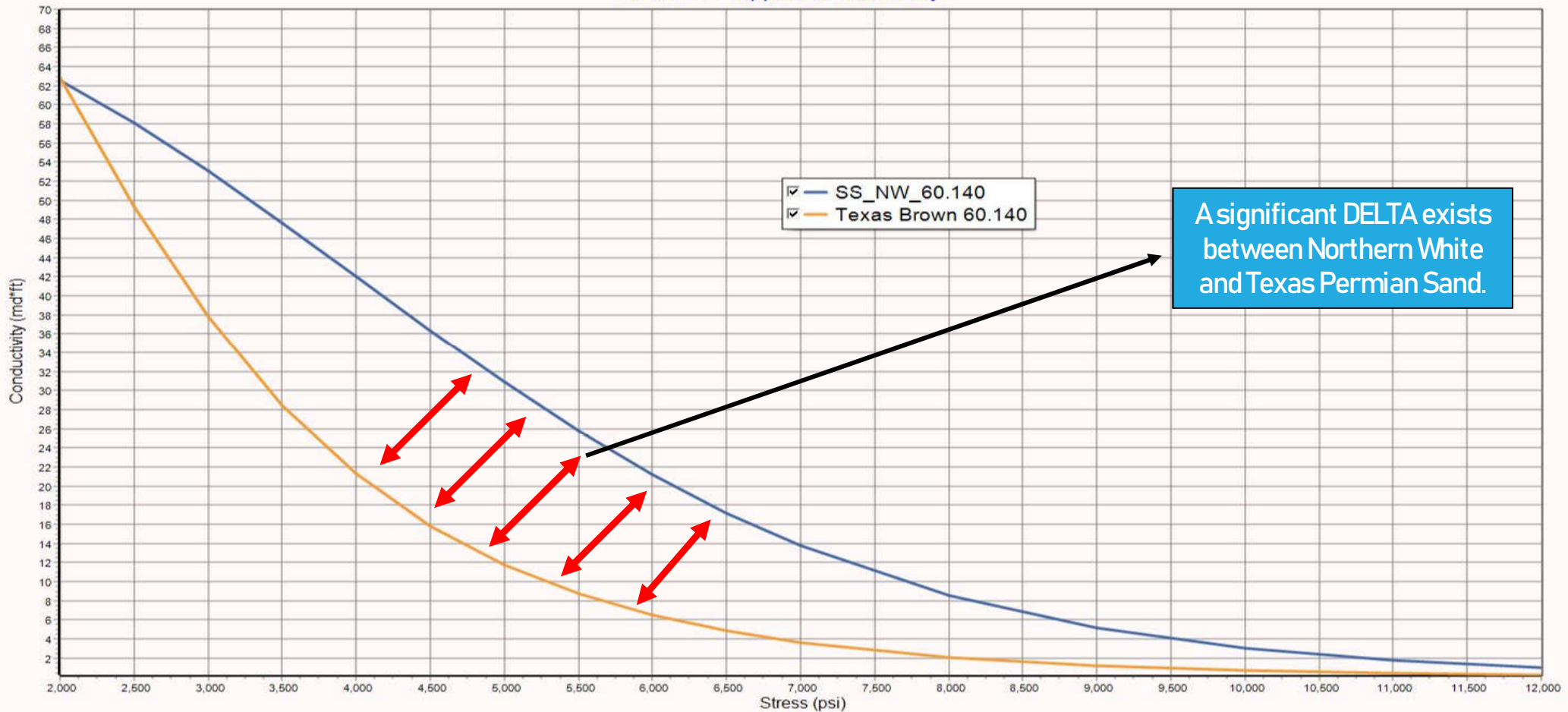
- **Lower Crush Strength:**
 - Crushing of proppant creates fines, these fines will migrate and pack rearrangement occurs
 - Fines decrease fracture width
 - This a roadblock for permeability which results in decreased conductivity
 - Fines in West Texas Sand increases as the well ages
- **Its not pure Quartz**
 - WTX sand has less Silica when compared to a Northern White Deposit
 - WTX reserves are contaminated with clay and other organics

What happens when you use a low quality proppant?

The cost savings of using a cheaper proppant is lost due to the revenue loss from the lack of production.

Proppant Strength Matters (WTX vs. Northern White)

Baseline Proppant Conductivity



Source: Management elaboration on independent studies.



Mining and Production

Oakdale Facility: High Quality Northern White Raw Frac Sand in an Efficient Configuration



Byron Transload: Provides Optionality on Rail Delivery



Cost-Effective, Differentiated Process

On-site Mining / Excavation



Conveyer Belt to On-site Wet Plant



Wet Plant Cleans and Sorts Product



Dry Plant Dries and Sorts Product



Unit Trains Deliver Dry Sand to Basin



- Low Cost Structure Due to Several Key Attributes:
 - Low royalty rates (\$0.50 per ton on 20/70 sand)
 - Higher mining yields due to balance of coarse and fine mineral reserve deposits
 - Minimal trucking required; reserves, processing plants, and rail facilities are centralized
- Evaluating Other Initiatives to Reduce Mining and Operating Costs



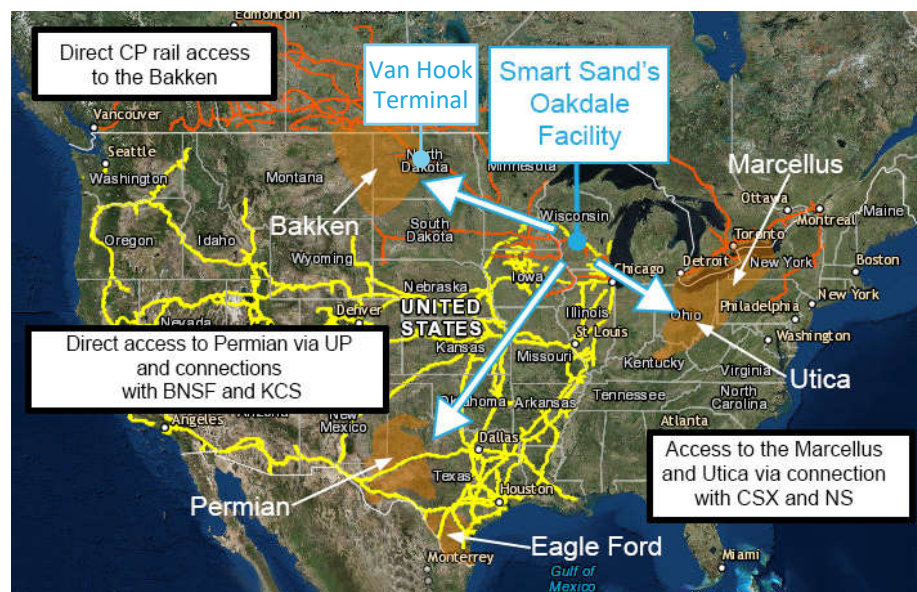
Logistics and Wellsite Solutions

Expansive Logistics Capabilities

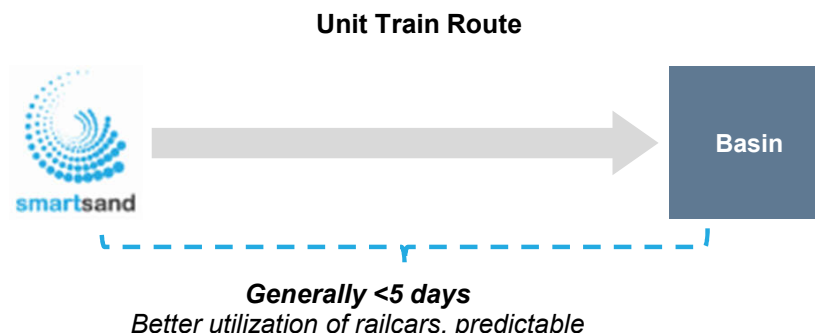
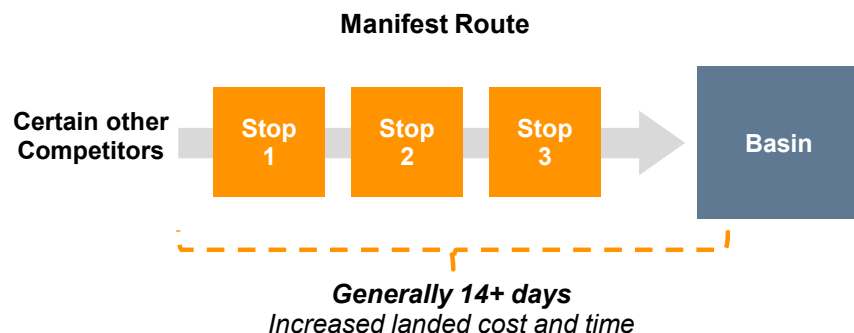
Key Logistical Advantages

- **Dual Served Class I Rail Access** – onsite service on Canadian Pacific rail line coupled with nearby terminal on Union Pacific rail line allows access to multiple oil and gas plays, avoids interchange fees on local short-hauls and allows opportunity to reduce freight costs through competition
- **Unit Train Capability** – Reduces customer product delivery time and costs (see below)
- **In Basin Terminal** – Van Hook terminal in North Dakota provides competitive advantage for delivery of frac sand into the Bakken
- **Wellsite Storage Solutions** - Portable wellsite storage solutions provide customers a proppant management system designed to help control demurrage, drive down costs and improve safety

Highly Competitive Delivery Capabilities



Manifest Route vs. Unit Train Route Benefits



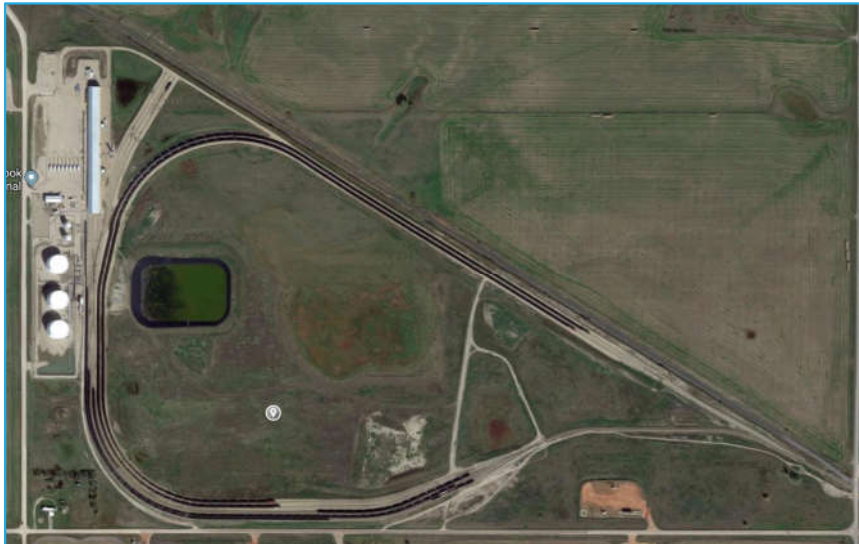
Unit Trains Require Approximately a Third of the Time of Manifest Trains and Significantly Improve Reliability

Van Hook Terminal



- Location: Van Hook, ND
- Commenced operations in April 2018
- Signed long-term take-or-pay contract with an anchor customer at in-basin pricing
- \$15.5 million paid consideration
- We have shipped 590,000 tons through Van Hook from April 2018 to March 31, 2019. We shipped 25% of our volumes in 2018 to the Bakken as customers recognized the value of Van Hook's strategic location and efficient logistics solutions.

Van Hook Terminal



Wellsite Storage Solutions Features

- Transported using specialized trailer for unassisted setup in 5 minutes.
- Tri-axle trailer design with reinforced steel frame and remote control operation.
- Direct to blender delivery, controls dust, stops and starts proppant flow.
- Passive & Active onboard positive dust collection.
- Five chute positions offering unparalleled site layout options.
- Up to five silos delivering approximately 1,000 tons direct to the blender hopper.
- Service platforms for safe access to service areas.
- Six external pneumatic fill pipes for simultaneous loading.
- The system is self powered and requires no generator.
- Hydraulic stabilizers to maintain stability.



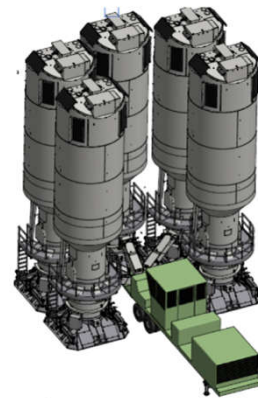
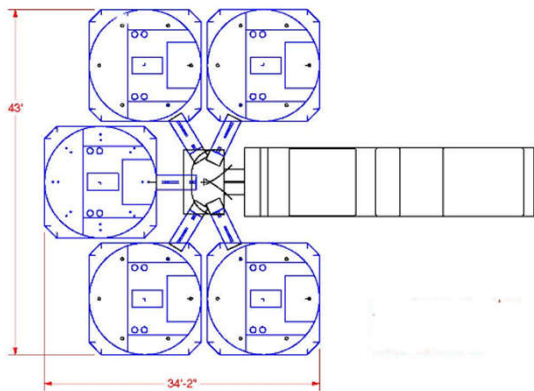
Focus on
Safety and
Environmental
Stewardship

Providing
Logistics
and Last Mile
Advantages

A Proven &
Tested Product

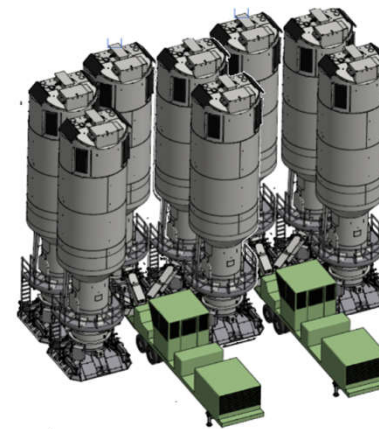
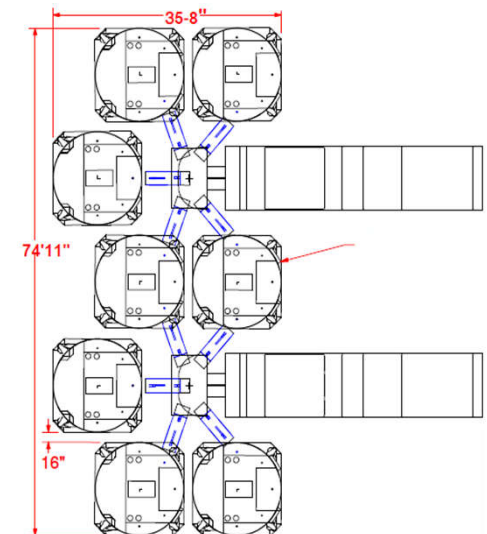
- Flexible layout options as demonstrated below with our QS4400XR silo

Single Blender Layout



1,050 Ton
Layout

Dual Blender Layout



1,320 Ton
Layout

Our Wellsite Storage vs. the Competition

Competitive Options



Silos:

- Belts Required, No Direct To Blender Offload
- Dust Can Be a Concern
- Large Footprint
- Not Fully Integrated



Box Design:

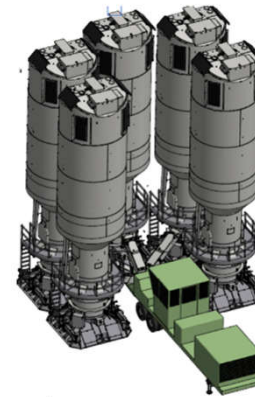
- Limited Tonnage Per Truck Resulting In Poor Optimization
- Moving Equipment Causing Safety Concerns
- Forklifts and Safe Spaces Required
- Extremely Large Footprint



Hybrid:

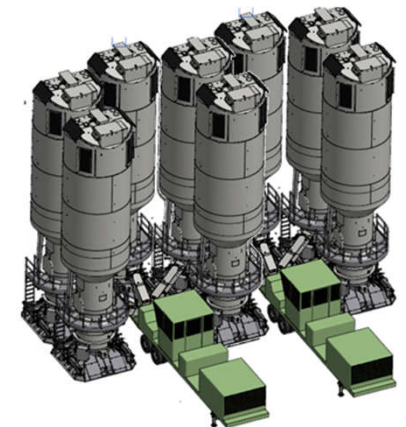
- Completion Conveyor Design With Inefficient Delivery System To The Blender
- Dust Can Be a Concern
- Large Footprint
- Not Fully Integrated

Smart Sand's Wellsite Storage Equipment



Smart Sand:

- Multiple Size Options With Custom Configurations
- Engineered and Designed Specifically For Sand Storage on the Well Site
- Smallest Footprint in the Industry
- Fast Mobilization and Demobilization Times
- Direct to Blender Offload
- Dust Control
- Single & Dual Blender Designs
- No Moving Parts



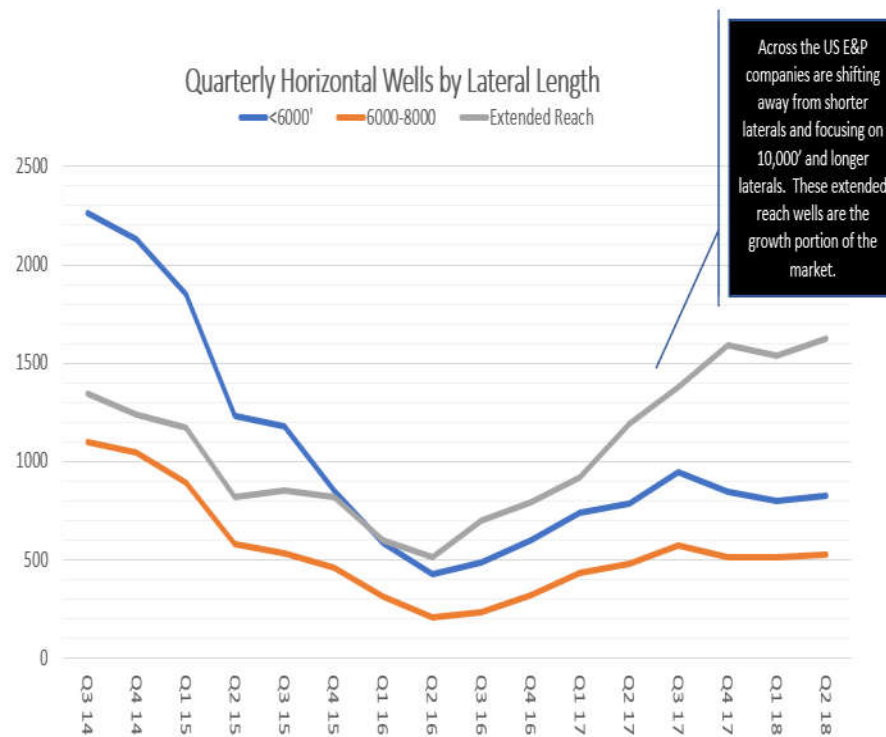


Industry Overview

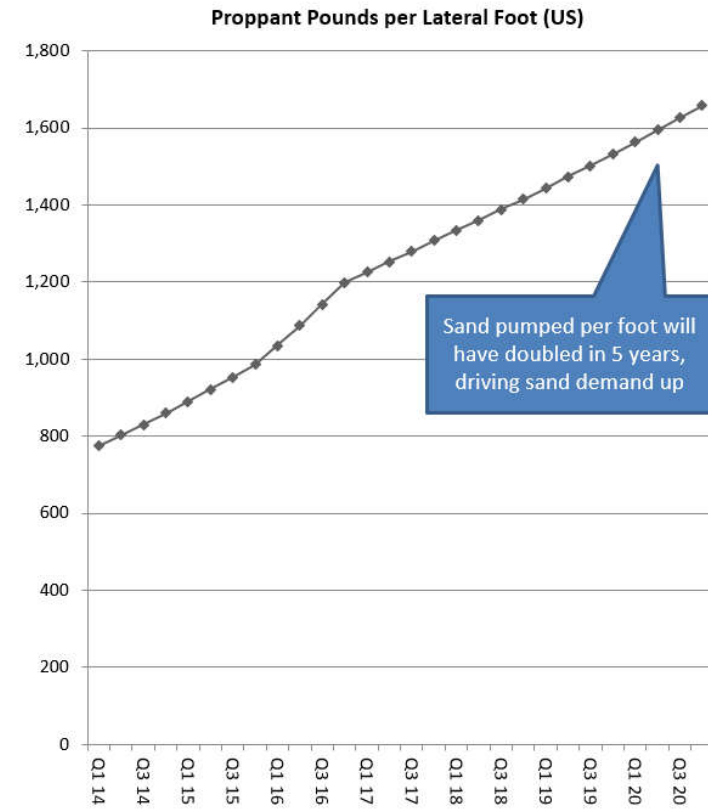
Industry Trends Continue to Support Increasing Use of Frac Sand per Well



Horizontal well lateral lengths continue to get longer



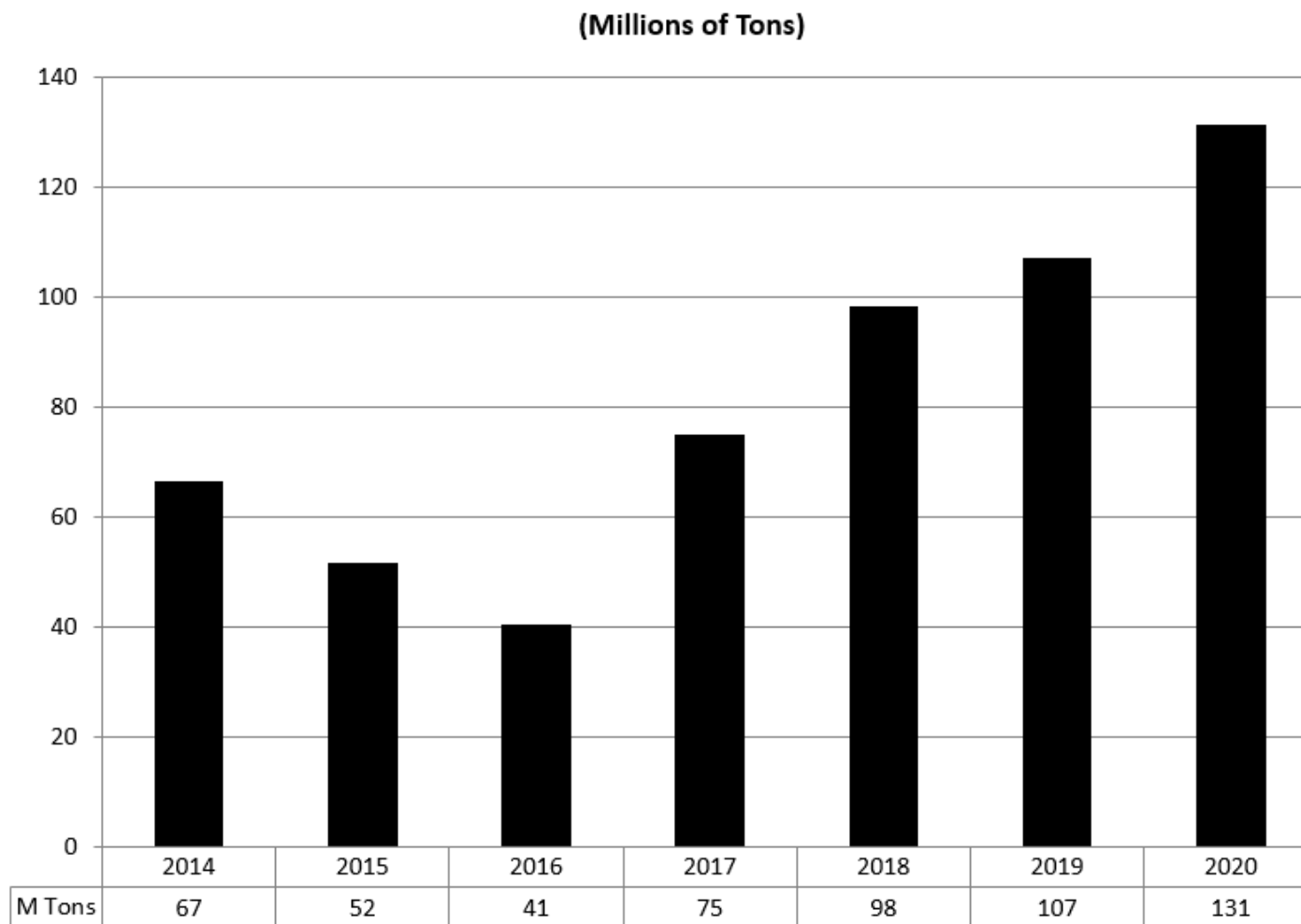
Proppant per lateral foot continues to increase



Increasing Use of Sand per Well leading to Continued Expected Growth in Frac Sand Demand



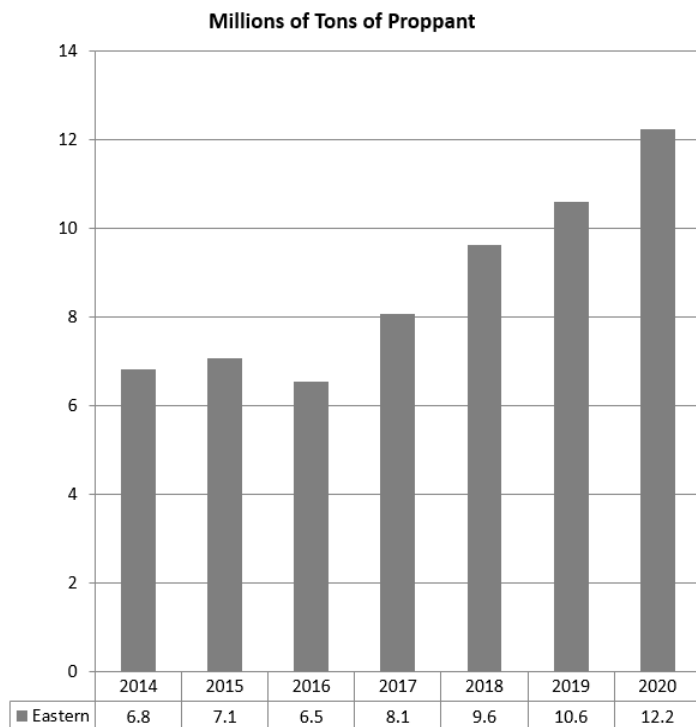
North America Proppant Demand



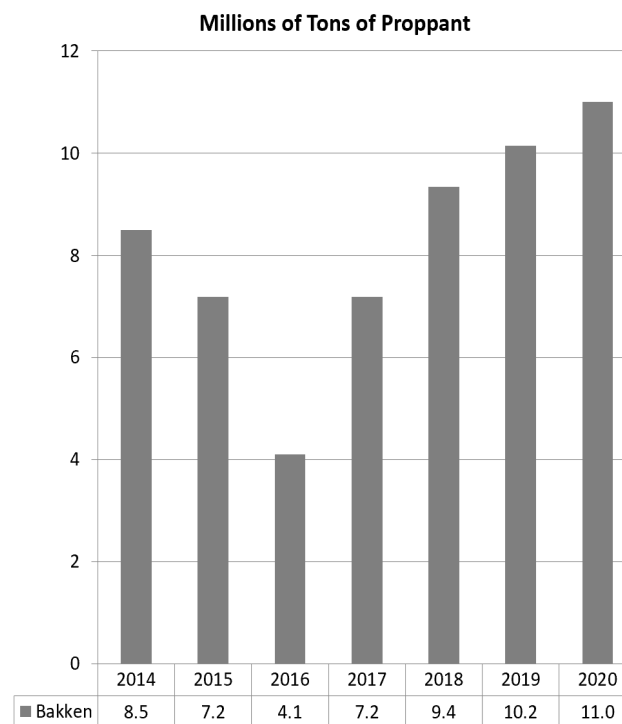
Our Strongest Markets, the Bakken and Eastern Basins, are Expected to have Growing Frac Sand Demand



Eastern U.S. Demand projected to grow ~ 13% per year in 2019 and 2020



Bakken Demand projected to grow by ~ 8% per year in 2019 and 2020



Finer Sand is the Standard



Mesh Sizes

- Proppant size is characterized by mesh size which is determined by sieving the proppant through mesh screens
 - Historically, large mesh sizes used for oily / liquids rich formations
 - Historically, smaller mesh sizes were used for natural gas formations
- Generally, E&P companies have two methods to control well performance: increase frac conductivity or reservoir contact area
- Due to smaller grain size, 100 mesh enhances reservoir contact area
 - Used more prominently in oil wells with increasingly positive results
- Focus on reservoir contact area has led to an increasing number of operators achieving better yields (higher production relative to optimized cost), increasing demand for 100 mesh

Market Outlook for Fine Sand

- According to Kelrik LLC, a notable driver impacting demand for fine mesh sand is increased proppant loadings, specifically, larger volumes of proppant placed per frac stage
- Kelrik expects the trend of using larger volumes of finer mesh materials, such as 40/70 sand and 100 mesh sand, to continue
- Due to innovations in completion techniques, demand for finer grade sands has also shown a considerable resurgence



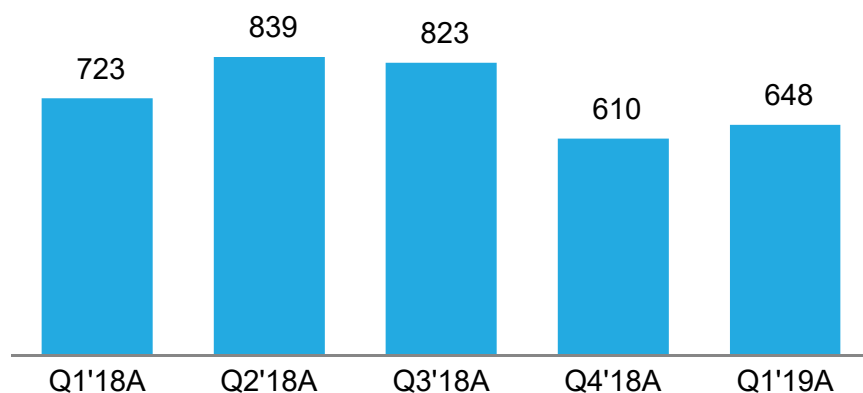
Financial Overview

Summary Financials



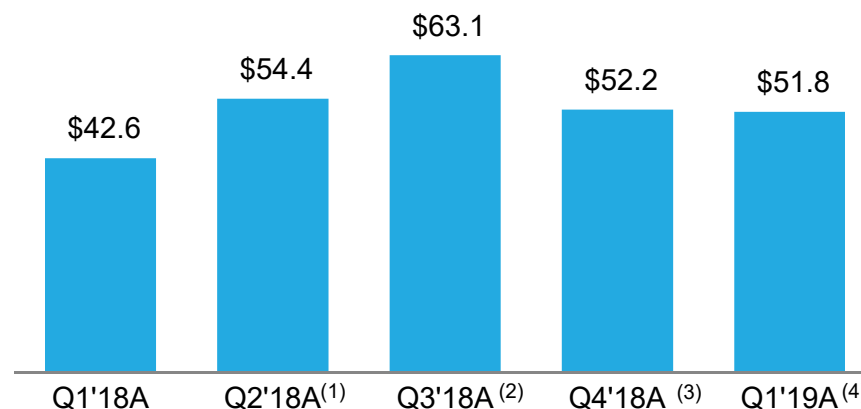
Quarterly Sales Volumes

(thousands of tons)

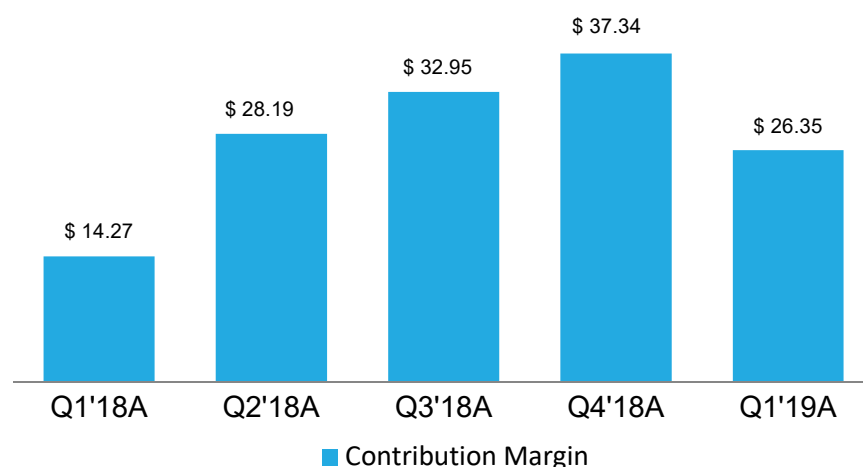


Quarterly Revenue

(\$ in millions)

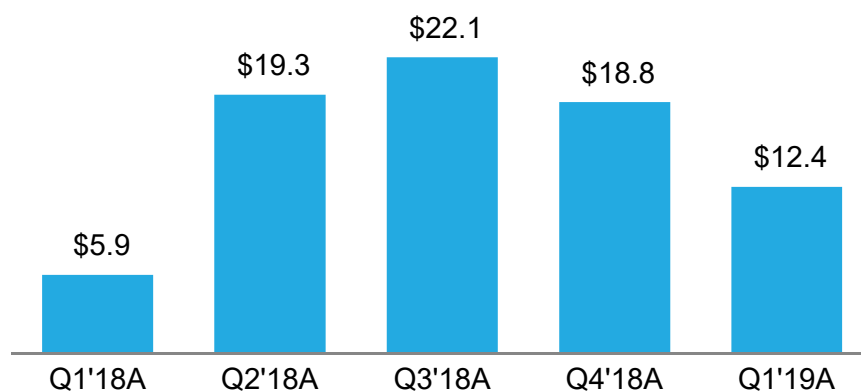


Contribution Margin/Ton



Quarterly Adjusted EBITDA

(\$ in millions)



- (1) Includes monthly minimum / shortfall payments of \$0.7 million for 2Q'18
- (2) Includes monthly minimum / shortfall payments of \$1.4 million for 3Q'18
- (3) Includes monthly minimum / shortfall payments of \$3.9 million for 4Q'18
- (4) Includes monthly minimum / shortfall payments of \$5.8 million for 1Q'19

Why Smart Sand?

A Full Service and Cost Effective One Stop Solution



Large, efficient reserve base, production capacity and logistics capabilities at Oakdale

- Large reserve base of high quality finer mesh Northern White Frac sand at Oakdale available to support market demand
- Substantial production capacity (5.5mm tons) ready to meet market needs
- Dual served reliable, cost effective, multi-unit train rail capabilities at Oakdale to ensure the most efficient movement of large quantities of frac sand to all basins in North America

Mine to Wellsite Solutions to meet customer supply chain needs

- Van Hook terminal provides one of the most cost effective, efficient frac sand delivery options into the Bakken in the industry
- Portable wellsite storage solutions provide customers with a flexible and user-friendly proppant management system designed to help control demurrage, drive down costs and improve safety

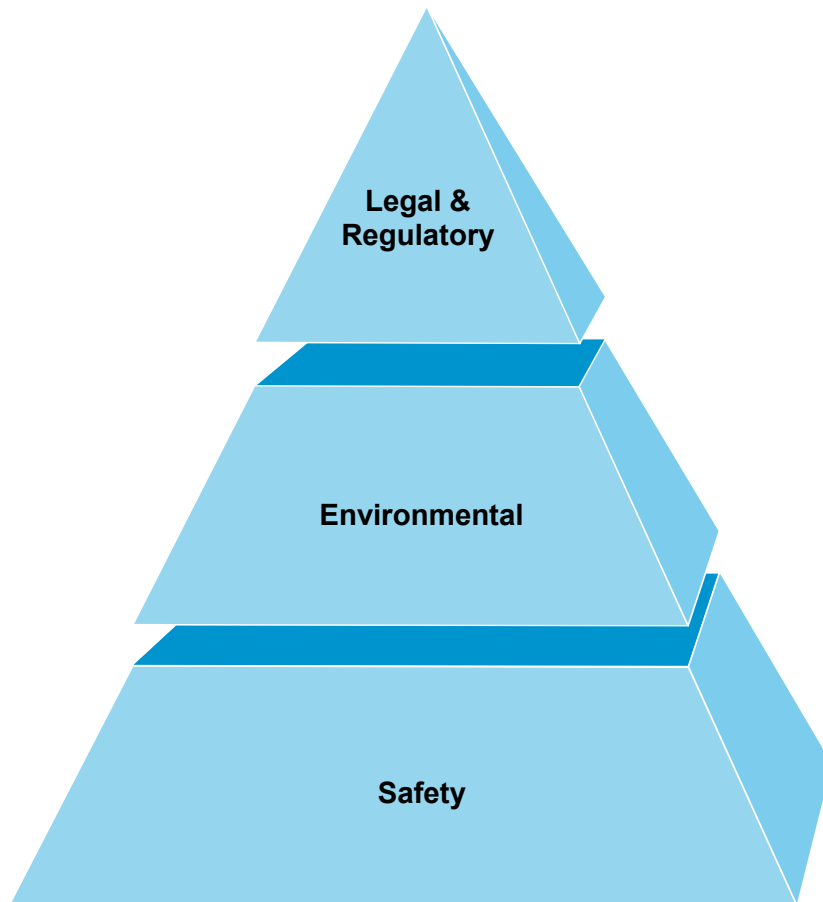
Room to grow

- Incremental capacity available at Oakdale over current contracted volumes to support growth initiatives of our customer base
- Additional capacity at Van Hook terminal to match up to future market demand in Bakken
- Silo production scalable as demand increases



Appendix

Committed to Highest Corporate Standards



- Management maintains close dialogue with customers regarding the oil and gas industry's rigorous regulatory environment
- ISO registered Quality System and Environmental Management System in place
- Minimal environmental and community impact: on-site rail, careful mine design, moderated trucking and extensive use of conveyors
- A member of the Wisconsin Industrial Sand Association (WISA), a selective industry group promoting high standards for safety, sustainability and environmental performance
- Participant in Wisconsin's Green Tier program, demonstrating voluntary commitment to high environmental performance through projects that improve the environment and promote good community relations
- Our first priority is a safe work environment. Dedicated safety staff, continual training and daily inspections are part of our MSHA approved safety plan



Smart Sand is committed to providing a safe working environment and upholding the highest levels of environmental stewardship

Income Statement

	For the			
	Year ended Dec 31, 2016 (audited)	Year ended Dec 31, 2017 (audited)	Year ended Dec 31, 2018 (audited)	Three months ended Mar 31, 2019 (unaudited)
(\$ in millions)				
Revenues ^(1,2)	\$59.2	\$137.2	\$212.5	\$51.8
Cost of sales	26.6	100.3	144.9	40.6
Gross profit	32.7	36.9	67.6	11.2
Operating expenses				
Salaries, benefits and payroll taxes	7.4	8.2	11.0	2.7
Depreciation and amortization	0.4	0.5	1.8	0.7
Selling, general and administrative	4.5	9.5	12.8	2.8
Gain on contingent consideration	0.0	0.0	(1.9)	(1.0)
Impairment of goodwill and intangible asset	0.0	0.0	17.8	0.0
Total operating expenses	12.3	18.2	41.7	5.2
Income from operations	20.4	18.7	25.9	6.0
Preferred stock interest expense	(5.6)	—	—	—
Other interest expense	(2.9)	(0.5)	(2.3)	(1.0)
Other income	8.9	0.5	0.2	0.0
Total other expense	0.4	0.0	(2.1)	(0.9)
Loss on extinguishment of debt	(1.1)	—		
Income (loss) before income tax expense	19.7	18.7	23.8	5.0
Income tax expense (benefit)	9.4	(2.8)	5.1	1.0
Net income (loss)	10.3	21.5	18.7	4.0
Adjusted EBITDA	37.9	30.6	66.0	12.4
Capital expenditures	2.5	51.1	126.0 ⁽³⁾	8.5
Sales volumes (thousands of tons)	826	2,449	2,995	648

(1) Includes monthly minimum / shortfall payments of \$20.9 million for 2016, \$1.2 million for 2017, \$6.0 million for 2018, and \$5.8 million for 2019.

(2) For the three months ended March 31, 2019, we recognized \$5.7 million of revenue relating to customers with which we have pending litigation.

(3) Includes acquisition of Quickthree Solutions in 2018 for \$29.9 million and the Van Hook terminal in the Bakken for \$15.5 million.

Note: Figures may not tie due to rounding.

Balance Sheet

(\$ in millions)	As of			
	Dec 31, 2016 (audited)	Dec 31, 2017 (audited)	Dec 31, 2018 (audited)	Mar 31, 2019 (unaudited)
Current assets				
Cash and cash equivalents	\$47.5	\$35.2	\$1.5	\$2.4
Accounts receivable	5.7	24.6	26.8	39.5
Inventory – ST	10.3	9.1	18.6	13.6
Prepaid expenses and other assets	1.4	3.8	3.3	2.2
Total current assets	65.0	72.7	50.1	57.6
Noncurrent assets				
PP&E, net	104.1	172.2	248.4	249.1
Operating right-of-use assets	–	–	–	34.3
Inventory – LT	3.2	–	–	–
Intangible assets, net	–	–	18.1	17.6
Deferred financing cost, net	1.2	1.9	0.3	–
Other assets	–	–	3.4	3.6
Total noncurrent assets	108.4	174.1	270.2	304.7
Total assets	173.5	246.8	320.3	362.3
Current liabilities				
Accounts payable and accrued expenses	4.1	33.7	19.7	19.5
Deferred revenue	1.6	–	4.1	5.0
Income tax payable	7.1	–	–	–
Current portion of long-term debt	1.0	0.9	0.8	1.3
Current portion of operating lease liabilities	–	–	–	13.4
Total current liabilities	13.7	34.6	24.7	39.2
Noncurrent liabilities				
Long-term debt, net of current portion	0.9	–	47.9	51.3
Deferred tax liability	15.0	13.2	17.9	18.2
Asset retirement obligation	1.4	9.0	13.3	12.3
Contingent Consideration	–	–	7.2	5.5
Operating lease liabilities, net of current portion	–	–	–	21.5
Total noncurrent liabilities	17.3	22.2	86.3	108.8
Total liabilities	31.0	56.8	111.0	148.0
Total stockholders' equity (deficit)	142.4	190.0	209.3	214.4
Total liabilities and stockholders' equity	173.5	246.8	320.3	362.3

Note: Figures may not tie due to rounding.

Statement of Cash Flows

(\$ in millions)	Year ended Dec 31, 2016 (audited)	Year ended Dec 31, 2017 (audited)	Year ended Dec 31, 2018 (audited)	Three months ended Mar 31, 2019 (unaudited)
Operating activities				
Net income (loss)	\$10.4	\$21.5	\$18.7	\$4.0
Adjustments to reconcile net income (loss) to net cash provided by operating activities				
Depreciation, depletion and amortization of asset element obligation	6.5	7.9	17.2	6.2
Goodwill and intangible asset impairment	—	—	17.8	—
Amortization of intangible assets	—	—	1.0	0.4
Asset retirement obligation	—	—	(3.2)	(1.2)
(Gain) loss on disposal of assets	(0.1)	0.3	0.3	(0.0)
Loss on adjustment of debt	1.1	—	—	—
Amortization of deferred financing cost	0.2	0.5	0.3	0.1
Accretion of debt discount	0.3	—	0.2	0.1
Deferred income taxes	0.5	(1.8)	4.7	0.3
Stock-based compensation, net	1.4	2.0	2.9	0.8
Employee stock purchase plan compensation	—	—	0.1	0.0
Change in contingent consideration fair value	—	—	(1.9)	(1.0)
Non-cash interest expense on Series A preferred stock	5.6	—	—	—
Changes in assets and liabilities				
Accounts and unbilled receivables	0.3	(18.8)	(2.2)	(12.7)
Inventories	(1.4)	4.4	(7.3)	5.0
Prepaid expenses and other assets	0.1	(3.4)	(1.8)	1.1
Deferred revenue	(5.5)	(1.6)	4.1	0.9
Accounts payable	0.8	9.4	(2.3)	(2.5)
Accrued and other expenses	(0.5)	2.4	2.0	4.8
Income taxes payable	7.0	(7.1)	—	—
Net cash provided by operating activities	26.7	15.6	50.9	6.3
Investing activities:				
Acquisition of businesses, net of cash acquired	—	—	(29.9)	—
Purchase of property, plant and equipment	(2.5)	(51.2)	(96.1)	(8.5)
Proceeds from disposal of assets	—	0.0	0.0	—
Net cash used in investing activities	(2.5)	(51.1)	(126.0)	(8.5)
Financing activities				
Proceeds from the issuance of notes payable	—	—	—	2.0
Repayments of notes payable	(1.4)	(0.3)	(0.6)	(0.4)
Payments under equipment financing obligators	(0.4)	(0.4)	(0.2)	(0.0)
Payment of deferred financing and amendment costs	(1.2)	(0.2)	(0.2)	(0.8)
Proceeds from revolving credit facility	1.1	—	84.0	13.5
Repayment of revolving credit facility	(65.3)	—	(39.5)	(10.5)
Payment of contingent consideration	—	—	(0.2)	(0.7)
Proceeds from equity issuance	138.3	26.3	0.1	0.0
Payment of equity transaction costs	(11.0)	(2.1)	—	—
Repayment Series A preferred stock	(40.3)	—	—	—
Purchase of treasury stock	(0.4)	(0.1)	(2.2)	(0.0)
Net cash provided by (used in) financing activities	19.4	23.2	41.3	3.1
Net (decrease) increase in cash	43.6	(12.3)	(33.8)	0.9
Cash at beginning of period	3.9	47.5	35.2	1.5
Cash at end of period	47.5	35.2	1.5	2.4

Note: Figures may not tie due to rounding.

EBITDA Reconciliation

(\$ in thousands)	Year ended December 31,			
	2015	2016	2017	2018
Net income (loss)	\$4,990	\$10,379	\$21,526	\$18,688
Depreciation, depletion, accretion and amortization	5,318	6,445	7,300	18,165
Income tax (benefit) expense	4,129	9,394	(2,809)	5,122
Interest expense	7,826	8,436	700	2,320
Franchise taxes	35	21	339	442
EBITDA	\$22,298	\$34,675	\$27,056	\$44,737
(Gain) Loss on sale of fixed assets	39	(59)	253	321
Integration and transition costs	—	—	16	—
Initial public offering related costs ⁽¹⁾	221	725	—	—
Equity compensation ⁽²⁾	792	1,426	1,652	2,670
Acquisition and development costs ⁽³⁾	76	—	845	(218)
Non-cash impairment of goodwill and other intangible asset ⁽⁴⁾	—	—	—	17,835
Cash charges related to restructuring and retention	—	—	279	674
Non-cash charges ⁽⁵⁾	469	21	514	(26)
Loss on extinguishment of debt	—	1,051	—	—
Adjusted EBITDA	\$23,881	\$37,839	\$30,615	\$65,993

⁽¹⁾ For the year ended December 31, 2016, represents IPO-related bonuses. For the year ended December 31, 2015, represents expenses related to previous IPO activities.

⁽²⁾ Represents the non-cash expenses for stock-based awards issued to our employees and employee stock purchase plan compensation expense.

⁽³⁾ Represents costs related to current development project activities.

⁽⁴⁾ Relates primarily to the decline in our stock price in 2018 and the relationship between the resulting market capitalization and the equity recorded on our balance sheet.

⁽⁵⁾ Represents accretion of asset retirement obligations and loss on derivatives.

EBITDA Reconciliation

(\$ in thousands)	Quarter ended				
	3/31/2018	6/30/2018	9/30/2018	12/31/2018	3/31/2019
Net income (loss)	\$975	\$10,021	\$12,125	(\$4,433)	\$4,033
Depreciation, depletion, accretion and amortization	3,160	4,296	4,929	5,780	6,303
Income tax expense (benefit)	232	2,413	4,612	(2,135)	974
Interest expense	219	509	760	832	981
Franchise taxes	220	109	54	59	85
EBITDA	\$4,806	\$17,348	\$22,480	\$103	\$12,376
Gain (loss) on sale of fixed assets	—	—	253	68	(25)
Equity compensation ⁽¹⁾	490	668	791	721	699
Acquisition and development costs ⁽²⁾	328	914	(1,723)	263	(947)
Non-cash impairment of goodwill and other intangible asset ⁽³⁾	—	—	—	17,835	—
Cash charges related to restructuring and retention	94	270	198	112	41
Accretion of asset retirement obligations	134	57	139	(356)	279
Adjusted EBITDA	\$5,852	\$19,257	\$22,138	\$18,746	\$12,423

(1) Represents the non-cash expenses for stock-based awards issued to our employees and employee stock purchase plan compensation expense.

(2) Represents costs incurred related to the business combinations and current development project activities.

(3) Relates primarily to the decline in our stock price in 2018 and the relationship between the resulting market capitalization and the equity recorded on our balance sheet.

Contribution Margin Reconciliation

(\$ in thousands)	Quarter ended				
	3/31/2018	6/30/2018	9/30/2018	12/31/2018	3/31/2019
Revenue	\$42,628	\$54,448	\$63,146	\$52,248	\$51,775
Cost of goods sold	35,413	34,678	40,595	34,217	40,605
Gross profit	7,215	19,770	22,551	18,031	11,170
Depreciation, depletion, and accretion of asset retirement obligations	3,106	3,878	4,567	4,746	5,906
Contribution margin	\$10,321	\$23,648	\$27,118	\$22,777	\$17,076
Contribution margin per ton	\$14.28	\$28.19	\$32.95	\$37.34	\$26.35

Note: Figures may not tie due to rounding.