

FORMER DUNES OF KERMIT FRACKING SAND OPPORTUNITY

This site, in the heart of the former Dunes of Kermit, is one of the most well known fracking reservoirs in the Permian Basin.

SITE DETAILS

Acres Approx. 2,970

Location Near SH 115 and FM 874

City Kermit, Texas

County Winkler

Current Ownership Three Amigos Property

Estimated Quantity Est. 200Mil Tons

Sale Price: \$45,000,000

For Additional Information Contact HW Kirk 214-842-1390

*See Exhibits for reservoir study.

CONFIDENTIAL

CURRENT PLANTS AND INVESTORS

CURRENT PLANTS	BACKED BY	SIZE/PRODUCTION
(entered since July 2017) Hi-Crush Partners Badger Atlas **High Roller Alpine Black Mountain *Covia	PUBLIC: HCLP PRIVATE- FAMILY OWNED (WI) BLACKGOLD CAPITAL MANAGEMENT CSL CAPITAL MANAGEMENT PRIVATE NATURAL GAS PARTNERS (DALLAS) PUBLIC: CVIA	3 MIL TONS/YEAR 3 MIL TONS/YEAR 4 MIL TONS/YEAR 4MIL TONS/YEAR 3 MIL TONS/YEAR 5MIL TONS/YEAR 5MIL TONS/YEAR W/ 2 PLANTS 3MIL TONS/YEAR

^{*}The newco by merger of U.S. Silica Holdings and Emerge Energy Services

CIZE /DDODLICTION

Together the above players will mine and ship approximately 22Mil tons of sand this year to shale drillers in the Permian Basin, the hottest oil patch on Earth. It is a staggering sum of sand, equal to almost a quarter of total U.S. supply. And within a couple years, industry experts say, the figure could climb to over 50 million tons.

^{**}The original High Roller Sand Kermit 1218 plant was sold to Wisconsin Proppants in mid-2018 and our transition obligations were fulfilled at year end.

^{***5,000} AC 100+ years of sand production (325mm+ tons of resource identified).

HOW AND WHY

The West Texas sand isn't nearly as big or as sturdy. And it's oddly shaped too -- more like a jelly bean than a marble. So for years, it was ignored. (No one was even interested in it for use in other industries, like cement or microchips.) But then, in the summer of 2014, the price of oil plunged. Suddenly, cost-cutting was all the rage. And there was no cheaper place to pump shale oil than in the Permian.

As drillers piled into the region, they began to wonder if they really needed to have sand shipped from Wisconsin, some 1,300 miles away by rail when this "stuff" was all around them. Shipping costs from Wisconsin is about \$90/Ton of sand. That's triple the \$25/Ton or so it costs to truck in the Texas sand.

SAVINGS

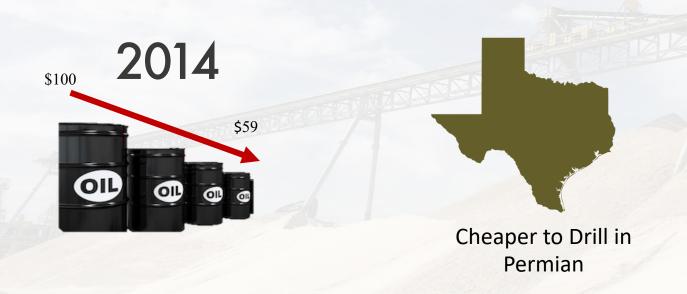
Up to \$500,000 savings per well when using in-basin frac sand!

THE IMPACT

OPPORTUNITY

2018 Haul Production Value =\$2B

WHY THE SHIFT TO THE PERMIAN?





Up to \$500,000 savings per well when using in-basin frac sand!

WHY THE SHIFT TO IN-BASIN SAND?



Changing Technology

Shift to slickwater frac designs

Structural Cost Transformation Potential savings of up to \$500,000 PER WELL

\$3.5 Billion in savings per year in the Permian¹

In-Basin Delivered **Cost Advantage**

50% savings over cost of Northern White

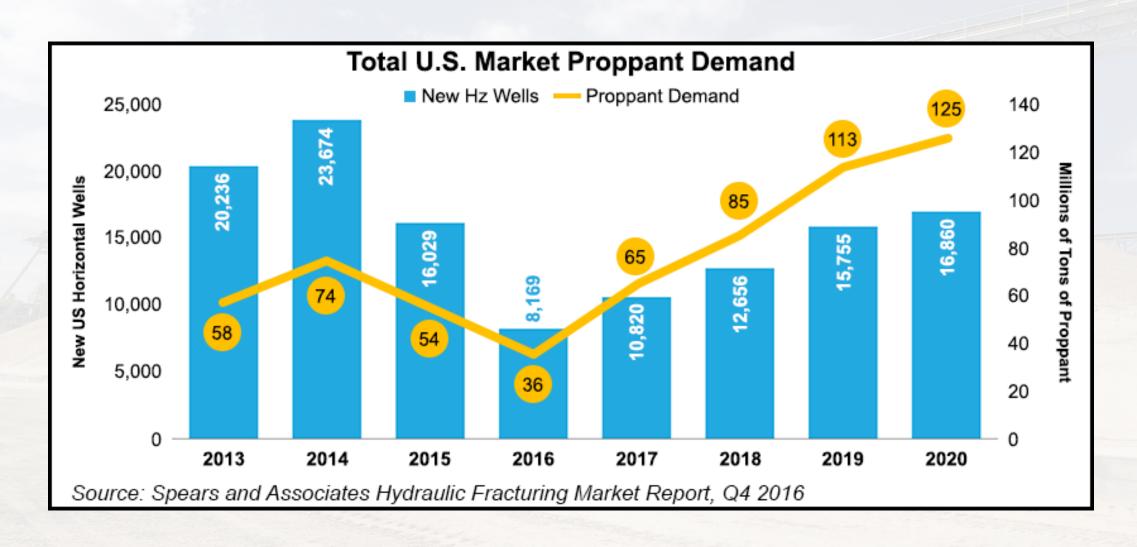
Simplified Logistics

Shorter supply chain (~1,200 miles to <~200)

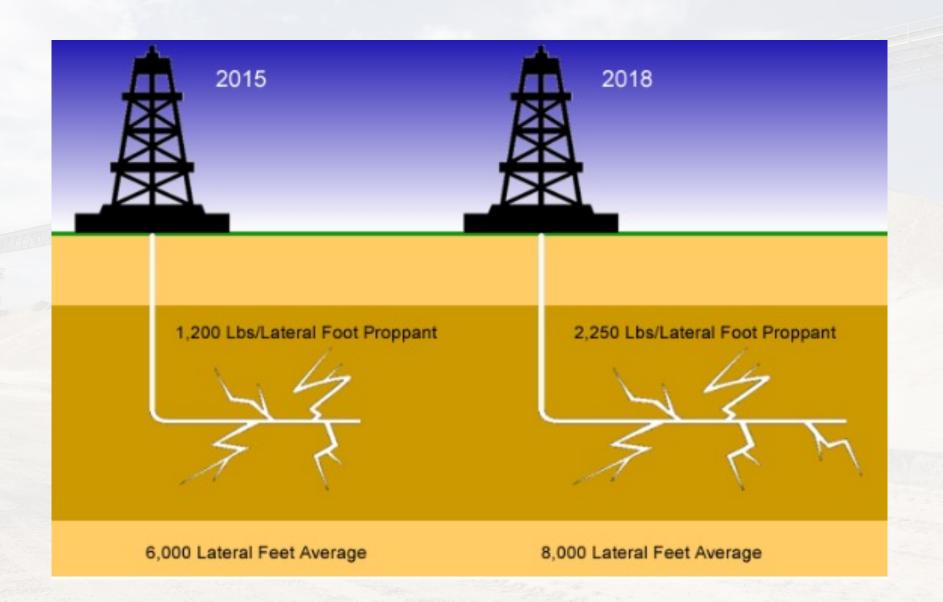
Turnkey delivery available from mine to wellsite

¹ Economic Impact Study, Infill Thinking, January 3, 2018

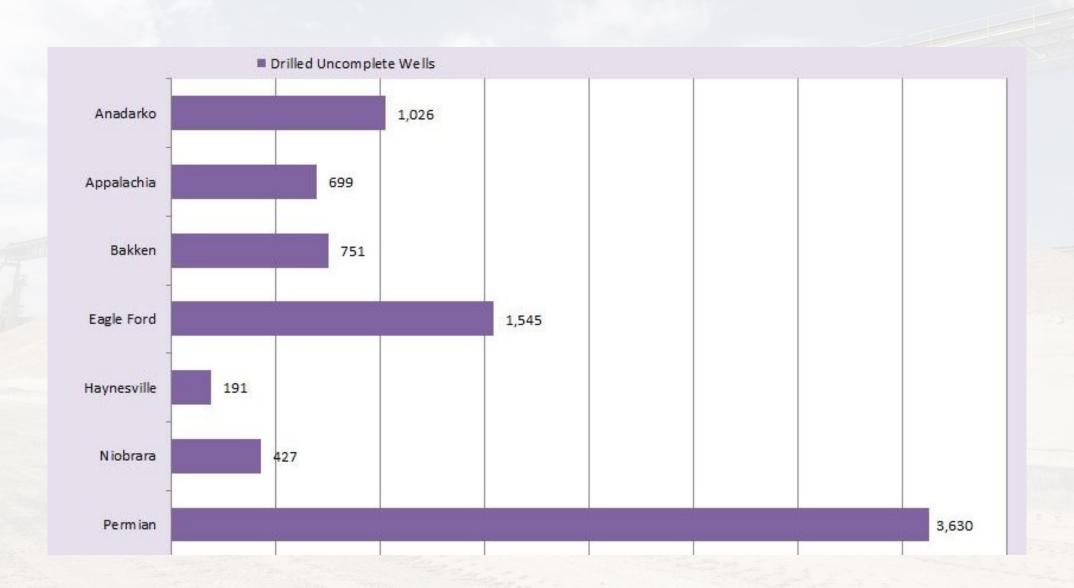
FRAC SAND DEMAND PROJECTIONS



PERMIAN FRAC SAND PERSPECTIVE ON SINGLE WELL DEMAND



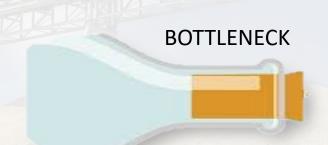
FUTURE DEMAND WILL CHANGE



PERIAN BASIN -PIPELINE PERSPECTIVE

Pipeline Infrastructure Challenge

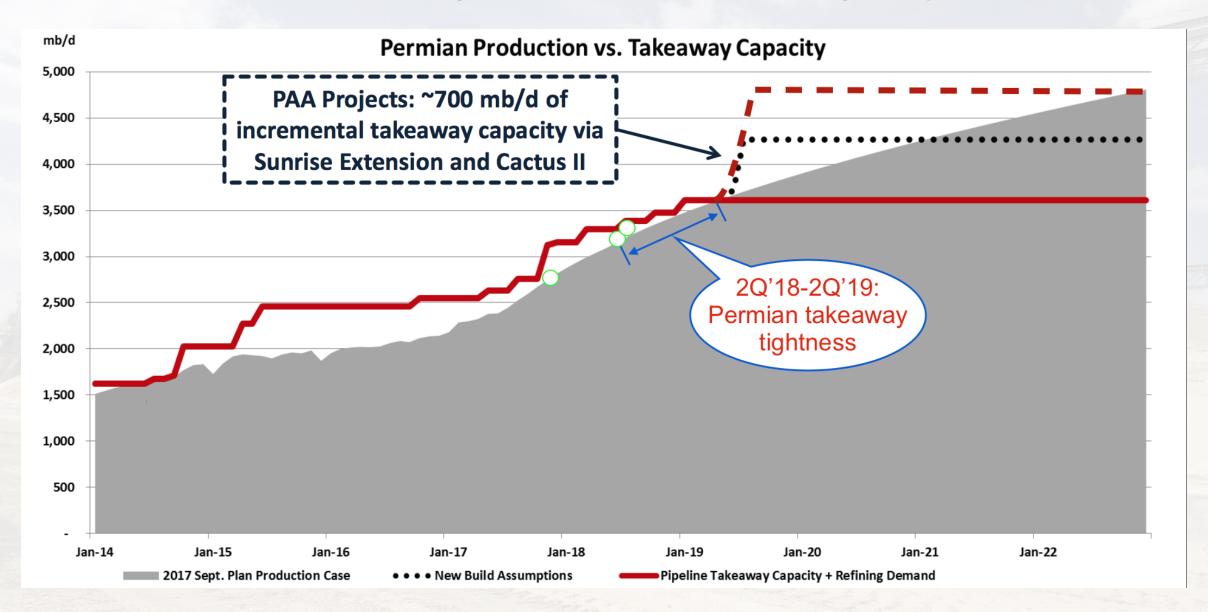
Daily Capacity 3.1 Mil B/day
Daily Production 3.4 Mil B/day



This bottleneck has stunted the growth of crude production as well as frac sand demand. However, that is about to change.

THERE ARE ENOUGH <u>PIPELINE PROJECTS</u> CURRENTLY UNDERWAY AND ON THE DRAWING BOARD TO POTENTIALLY MORE THAN DOUBLE THE CRUDE OIL TAKEAWAY CAPACITY OF THE PERMIAN BASIN.

PERMIAN BASIN -PIPELINE PERSPECTIVE



PERIAN BASIN -PIPELINE PERSPECTIVE

Permian Basin Crude Oil Pipeline Projects

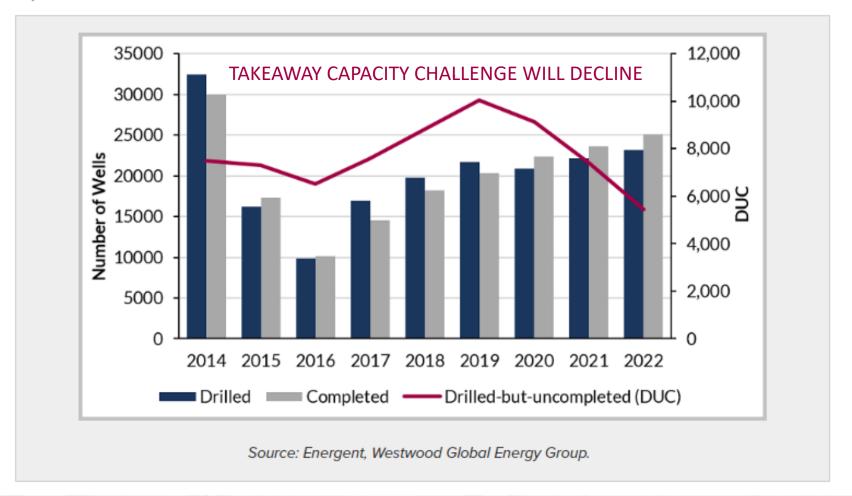
Companies	Pipeline	Capacity	In-Service Date
Plains All American Pipeline LP	Sunrise Expansion	200,000	Q4 2018
Plains All American Pipeline LP, Magellan Midstream			
Partners LP, OMERS Infrastructure	BridgeTex Expansion	40,000	Early 2019
Epic Midstream Holdings LP	Epic	590,000	Late 2019
Plains All American Pipeline LP, Wester Gas Partners LP	Cactus II	525,000	Q3 2019
Phillips 66 Partners LP, Andeavor	Gray Oak	700,000	Q4 2019
Energy Transfer Partners LP	N/A	600,000	2020
Plains All American Pipeline LP, Exxon Mobile Corp.	N/A	> 1,000,000	N/A
As of September, 2018			
N/A = Not Available			
Sources: S&P Global			

PERMIAN BASIN-TRENDS

Typical Permian Wells

- 10,000-foot lateral requires about 12,500 tons of frac sand enough sand to fill more than 500 large sand trucks.
- 7,500 foot lateral and
 11 million pounds of frac sand

Activity levels in the Permian Basin have been more balanced ever since production overtook takeaway capacity last year. "That issue will be mostly solved by late 2019," said Jang, as new oil and gas pipelines come on stream with combined capacities of 1.4 million B/D and 4 bcf/D.



PERMIAN BASIN- TRENDS

Sourcing Change

- There is an increase in E&Ps managing their frac sand supply chain.
- Traditionally, responsibility was on the integrated oilfield services companies or pressure-pumping specialists that E&Ps contract with to provide completionrelated services.
- In the past two or three years, E&Ps want more control to enhance reliability, maximize efficiency and minimize costs.
- Increasing number of E&Ps were taking to become more involved in sand procurement.

The Frac Sand Industry Going Forward Recent trends have shown that Permian Basin:

- 1. Wells have gotten longer with more proppant used per lateral foot.
- 2. Record numbers of DUC wells needing sand for completion, points to a continued rise in frac sand demand.
- 3. New pipelines in the works, potentially doubling the takeaway capacity in the Permian.

Add it all up, and the numbers look very positive for frac sand demand in the Permian Basin and a <u>new production boom is or the horizon.</u>

Q1 2019 Sand Financials

"Industry muddling along with overcapacity, 40/70 sand prices firming"

By Joel Schneyer (Managing Director Oilfield Minerals – Capstone Headwaters) May 21, 2019

Not all sand is the same....

20/40 and 30/50, which remains difficult to place and in many cases is viewed as a waste product today.

40/70, commands a premium and some mines are having some difficulty producing enough to meet demand.

Pricing for NWS 40/70 firmed up by end of quarter to the low-to-mid 30's per ton mine gate pricing with 100 mesh a few dollars less. 40/70 pricing held up pretty well for In-Basin Permian sand, but we are seeing continued pricing pressure on In-Basin Permian 100 mesh.

PERMIAN BASIN FUTRE PERSPECTIVE

Forbes Dec. 2018

63,422 views | Dec 27, 2018, 10:01am

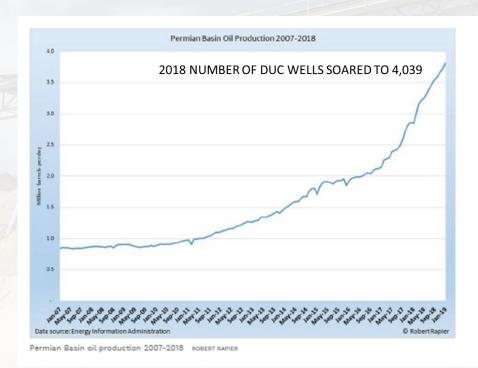
Why The Permian Basin May Become The World's Most Productive Oil Field



Forbes April 2019

27,086 views | Apr 5, 2019, 08:00am

The Permian Basin Is Now The World's Top Oil Producer



Many people will tell you that the production rate of Saudi <u>Arabia's Ghawar oil field</u>, which has yielded 5 million barrels of petroleum per day for decades, will never be surpassed. In fact, no other oil field has ever come close to topping the production rate of Ghawar, and up until recently I would have agreed its production would never be topped.....

PERMIAN BASIN FUTRE PERSPECTIVE

Forbes Dec. 2018

But...in December 2018

- Permian Basin production 3.8 million BPD
- #2 in world oil field production
- Up 3 million BPD since 2000 due to fracking
- Not even completing all wells drilled
- Soaring inventory of drilled but uncompleted (DUC) oil wells.
- Oil producers have drilled an average of 5,316 wells per year in the Permian over
- the past five years, but have only completed an average of 4,620 wells per year.
- USGS new estimated mean of undiscovered, technically recoverable resources in the Permian basin are 46.3
- billion barrels of oil

Forbes April 2019

- Saudi Aramco -- the national oil company of Saudi Arabia and the world's largest oil company -- lifted a veil of secrecy - 2018 production 3.8million BPD.
- So, it is quite possible that Ghawar is simply not operating at full capacity.
- The Energy Information Administration reports that the Permian Basin is now producing 4.2 million BPD.
- Marks the first time in decades that Ghawar wasn't the topproducing oil field in the world.



Robert Rapier has over 25 years of experience in the energy industry as an engineer and an investor. Follow him on Twitter @rrapier or at Investing Daily.

PERMIAN IS KEY FOR GROWTH

Exxon Mobil's Permian Focus

- ✓ Oct. 2017 ExxonMobil Acquires Crude Oil Terminal to Serve Growing Permian Basin Production
- ✓ Establishes ExxonMobil as key midstream provider in the rapidly growing Permian Basin
- ✓ Permitted for 100,000 BPD of throughput with the ability to expand
- ✓ Provides transportation and storage options for Permian Basin producers
- ✓ Plans to spend more than \$2 billion on transportation infrastructure to support its Permian operations, including expanding its Acquired Crude Oil Terminal in Wink, Texas.
- ✓ Also in 2017, acquired the Permian acreage of Fort Worth's prominent Bass family to more than double its Permian acreage holdings paying over \$6Bil.
- ✓ March 5, 2019 ExxonMobil announced it will produce 1 million BPD from the Permian by 2024, while Chevron is targeting 900,000 BPD over the next five years.

PERMIAN IS KEY FOR GROWTH

ExxonMobil's

First quarter Permian Basin output climbed 36,000 boe/d from 4Q 2018 to 226,000 boe/d, and ExxonMobil revised its Permian growth expectations to more than 1 million boe/d "as early as 2024," the company said.

"The size of the company's resource base in the Permian is approximately 10 billion oil-equivalent barrels and is likely to grow further as analysis and development activities continue," the company said.

This acquisition marks
ExxonMobil's first terminal
in the Permian Basin to be
anchored by the
corporation's newly
acquired Delaware Basin
acreage, previously
announced in January.

WHITE OAK MATERIALS SYNOPSIS PERMIAN BASIN KERMIT TEXAS

This is a proposal to purchase the 3 Amigos acreage that encompasses the existing sand production adjacent to property currently held by High Roller, Hi Crush, Atlas, Covia, Badger etc.

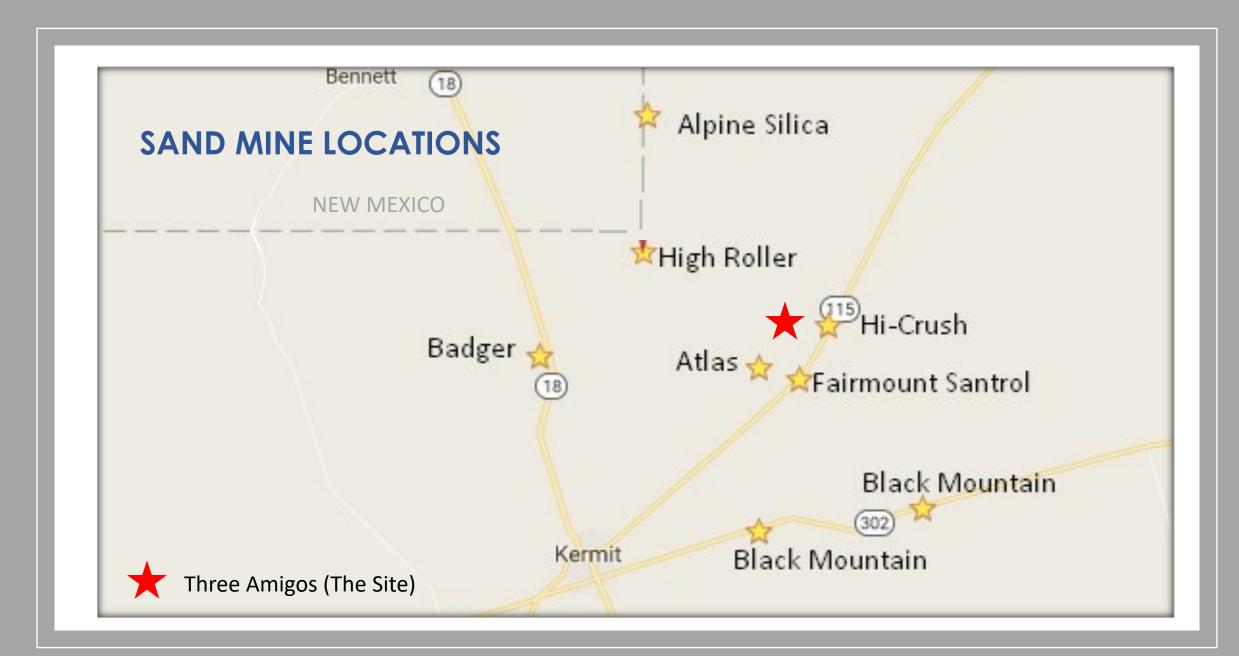
This particular property which is approximately 2,970 acres with existing cores show currently over 300 million tons of high quality frack sand that will enable us for over 50 years production in the heart of the "giant" Permian oil and gas play.

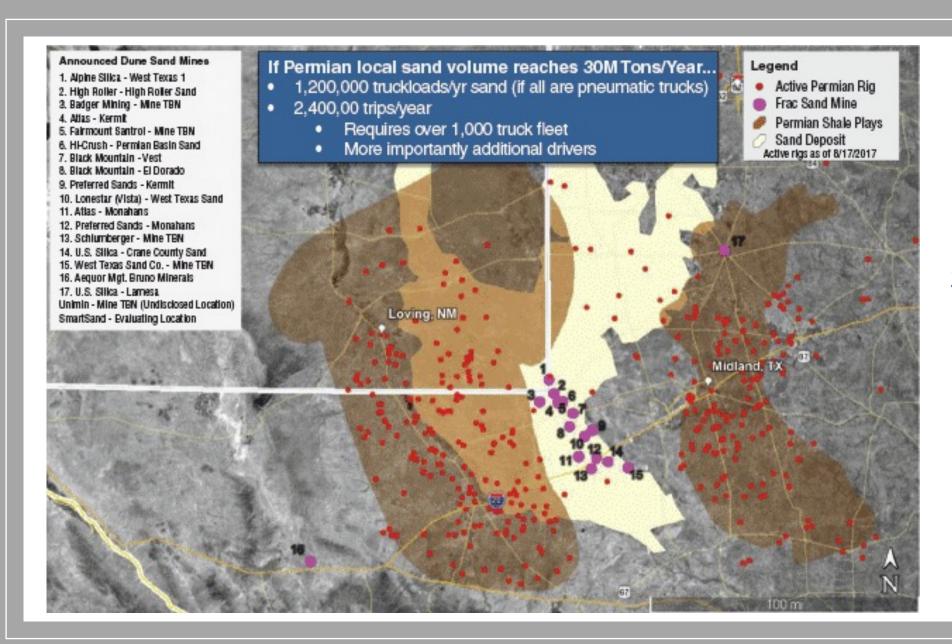
This acquisition will facilitate 3 separate plants that can produce annually 4 million tons each which would constitute the premier facility in the basin. White Oak Materials along with its associates are working on developing the first plant that should start production by September 2019. This first venture will produce annually 2 million tons of frack sand. The plant is being designed to increase production after only 6 months to increase production to 4 million tons. We should see that increase no later than mid September of 2020.

Water is being purchased and piped to the facility directly which will provide for 2 benefits for the opportunity:

- 1. The ability to sell water directly
- 2. The ability to sell the products of the 3 sand plants
- Annual production estimated at 12million tons

White Oak Materials, is currently in negotiations on sand contracts to purchase all of the sand production the first plant will produce over the next 3-5 years. Current Market Value of each plant is \$350 million dollars. The production and construction teams are assembled and look to start the first plant mid July 2019.





PERMIAN SAND MINES

OPERATING COST ESTIMATE PER TON

This is an estimate on a worst condition basis and developed by two of the leading experts that have built and operated existing plants.

Operation	Cost
Sand Royalty	Not applicable
Water	\$0.10 included
Drying	\$2.80
Mining (to plant)	\$1.50
Washing	\$1.95
Fuel	\$1.50
Sand to Dryer	\$1.00
Load Out/Labor	\$3.00
Total	\$11.85/ton
After permanent electrical hook up fuel cost drops \$1.00	
New Cost	\$10.85/ton

ARTICLES

Dunes of Kermit Sold 3/2016

Hi-Crush Partners LP (NYSE: HCLP) 1,200- acre acquisition of former Dunes at Kermit. 3-16/2017

Atlas Sand Opening Kermit Frac Sand Facility 7/2018

The New Texas Gold Rush: Buying Sand for Fracking WSJ 9/2017

High Roller Sand - Will This Young Buck Become a Trophy? InfillThinking 9/2017

Worthless Just Two Years Ago, West Texas Sand Now Brings in Billions Bloomberg 7/2018

Hi-Crush Converts from MLP to conventional C-Corp The Motley Fool 1/2019

Central Texas Sand Mines Shuttering 11/2018

Covia Holdings Corp CVIA Q3 Earnings Call Motley Fool 11/2018

Covia Sheds Light on the New Look Frack Sand Industry Seeking Alpha 11/2018

Note: The above links will take you directly to the article.

DISCLAIMER

This information has been obtained from sources believed reliable. We have not verified it and make no guarantee, warranty or representation about it. Any projections, opinions, assumptions or estimates used are for example only and do not represent the current or future performance of the project. You and your advisors should conduct a careful, independent investigation of the property to determine to your satisfaction the suitability of the project for your needs.

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ARTICLES

Yesterday's Fire-Sale Prices Have Become Today's Leading Edge Rates...

What would have been considered fire-sale prices a year ago have become today's leading edge spot rates in the Permian Basin.

We talked with multiple sand miners last week who told us they have picked a level they won't sell below. We think that breakpoint for some producers trying to be disciplined is about \$20/ton.

We think a reasonable range for Permian market sand prices today is \$17-\$24.

That said, we heard of at least one mine selling 100-mesh FOB mine near Monahans for \$10/ton. And we know that several others have been undisciplined and dipped down into the \$12-\$15/ton range on 100 mesh for "flash sales" – a handful of aggressive sellers are leading the way down to the bottom, which is applying lots of pressure on mines already running at sub-optimal utilization rates.

Some mines seem to be trying to just clear out their 100-mesh (even if it goes for a loss) hoping to make up the margin with higher volumes of 40/70 (which is still commanding a decent premium).



Building a Better World for All of Us® **MEMORANDUM**

TO:

Tony Underwood

FROM:

Darrell Reed PG

DATE:

July 28, 2017

RE:

Three Amigos Property - Sand Resource Assessment

SEH No. 142571 14.00

SEH has performed a resource quantity calculation from sand sample sieve results received from 20 soil borings performed on the approximate 3,800 acre Three Amigos property, Winkler Co., Texas (site). The sieve results were reviewed using a pay cut off criteria of a minimum 80% cumulative retained on the No. 140 sieve. A cutoff criteria of 60% cumulative retained on the 70 mesh and 50% cumulative retained on the 50 mesh were also used to analyze the sieve results for the presence of coarser sand fractions.

Net pay calculations were performed for the 30/50, 40/70 and 70/140 ("100 mesh") sand fractions. Net pay contour maps were generated and acreages between contour lines calculated using GIS methods. Resource quantities for each sand fraction were calculated and tabulated. A discussion of each sand fraction analysis follows:

Three Amigos Property - Sand Resource Assessment July 28, 2017

30/50 sand fraction:

- Minor quantity of sand fraction on site compared to 40/70 and 40/140 fraction quantities.
- Maximum of 11 feet net pay sand indicated.
- Net Pay map indicates a general net pay thickness increase from the southeast to northwest area of the site.
- The thinnest net pay quantity is located in the southeast area of the site.
- Total sand resources over 3,768 acres = 59,877,576 tons.

40/70 sand fraction:

- Considerable quantity of sand fraction present on the site.
- Maximum of 42 feet net pay sand indicated.
- Net Pay map indicates a general net pay thickness increase from the southeast to northwest area of the site.
- A thin net pay quantity is located in the southeast area of the site.
- Total sand resources over 3,768 acres = 196,849,818 tons.

70/140 sand fraction:

- Considerable quantity of sand fraction present on site.
- Maximum of 44 feet net pay sand indicated.
- Net Pay map indicates a general net pay thickness increase from the southeast to northwest area of the site.
- A thin net pay quantity is located in the southeast area of the site.
- Total sand resources over 3,768 acres = 187,003,080 tons.

Three Amigos Property - Sand Resource Assessment July 28, 2017 Page 2

Total Sand fraction resource quantities for the Three Amigos site are summarized below:

Fraction	Net Sand
	Resource
	(ton)

40/70	196,849,818
70/140	187,003,080

Total Quantity (40/140) 383,852,898 tons

30/50 Fraction Only = 59,877,576 tons

A considerable sand resource quantity exists at the site. Additional laboratory sand parameter testing details are not provided or discussed in this memo.

If you have any questions regarding the contents of this memo, please contact me at 715.720.6222.

Daniel R. Rued

DRR/dr/

Enc.

c: Jack Mitchell, Wisconsin Proppants, LLC

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Table 2 - "Three Amigos - Sand Resource Calculation" 30/50 Fraction Winkler County, Texas

Date: 6/20/17

					Est. Inf. Sand		
Property Three Amigos	Contour Line	Ave Net Pay (feet)	Acres (between contours)	Area (sq. ft)	Resource (cv)	Cubic yard to ton conversion	Net Sand Resource (ton)
30/50 fraction	10+	10	348	15,158,880.00	5,614,400.00	1.35	7,579,440
30/50 fraction	8 -10	9	913	39,770,280.00	13,256,760.00	1.35	17,896,626
30/50 fraction	6-8	7	1817	79,148,520.00	20,519,986.67	1.35	27,701,982
30/50 fraction	4-6	5	503	21,910,680.00	4,057,533.33	1.35	5,477,670
30/50 fraction	0-4	3	187	8,145,720.00	905,080.00	1.35	1,221,858
		Total	3,768	164,134,080	44,353,760		59,877,576

ons

Notes:

Net Sand Resource = Total Net sand quantity on sand only passing 30 mesh and retained on 50 mesh

Based on: Others sieve results, USGS topo maps,

using a min. sand resource cutoff of 80% cumulative retained on No. 140 standard mesh sieve

assumption that resource meets API Spec for frac sand, no property, or utility

setbacks-



Table 2 - "Three Amigos - Sand Resource Calculation" 40/70 Fraction Winkler County, Texas

Date: 6/20/17

					Est. Inf. Sand		
Property	Contour Line	Ave Net Pay	Acres	Area	Resource	Cubic yard to ton	Net Sand
El Dorado		(feet)	(between contours)	(sq. ft)	(cy)	conversion	Resource (ton)
40/70 fraction	40+	42	123	5,357,880.00	8,334,480.00	1.35	11,251,548
40/70 fraction	30 - 40	35	590	25,700,400.00	33,315,333.33	1.35	44,975,700
40/70 fraction	20 - 30	25	2,000	87,120,000.00	80,666,666.67	1.35	108,900,000
40/70 fraction	10 - 20	15	929	40,467,240.00	22,481,800.00	1.35	30,350,430
40/70 fraction	0 - 10	5	126	5,488,560.00	1,016,400.00	1.35	1,372,140
		Total	3,768	164,134,080	145,814,680		196,849,818

tons

Notes:

Net Sand Resource of Total Net sand quantity on sand only passing 40 mesh and retained on 70 mesh

Based on: Others sieve results, USGS topo maps,

using a min. sand resource cutoff of 80% cumulative retained on No. 140 standard mesh sieve

assumption that resource meets API Spec for frac sand, no property, or utility

setbacks.



Table 2 - "Three Amigos - Sand Resource Calculation" 70/140 Fraction Winkler County, Texas

Date: 6/20/17

					Est. Inf. Sand			
Property	Contour Line	Ave Net Pay	Acres	Area	Resource	Cubic yard to ton	Net Sand	Comments
Three Amigos		(feet)	(between contours)	(sq. ft)	(cv)	conversion	Resource (ton)	
70/140 fraction	40+	40	158	6,882,480.00	10,196,266.67	1.35	13,764,960	
70/140 fraction	30 - 40	35	402	17,511,120.00	22,699,600.00	1.35	30,644,460	
70/140 fraction	20 - 30	25	1901	82,807,560.00	76,673,666.67	1.35	103,509,450	
70/140 fraction	10 - 20	15	1141	49,701,960.00	27,612,200.00	1.35	37,276,470	
70/140 fraction	0-10	5	166	7,230,960.00	1,339,066.67	1.35	1,807,740	
		Total	3,768	164,134,080	138,520,800		187,003,080	tons

Net Sand Resource = Total Net sand quantity on sand only passing 70 mesh and retained on 140 mesh Based on: Others sieve results, USGS topo maps, using a min. sand resource cutoff of 80% cumulative retained on No. 140 standard mesh sleve assumption that resource meets API Spec for frac sand, no property, or utility setbacks.



Table 3 - "Three Amigos - Sand Resource Quantity Summary" Winkler County, Texas

Date: 6/20/17

Fraction	Net Sand	
	Resource (ton)	
40/70 Fraction	196,849,818	
70/140 Fraction	187,003,080	
Total Quantity (40/140)	383,852,898	tons
30/50 Fraction	59,740,362	tons

Based on: Others sieve results, USGS topo maps, using a min. sand resource cutoff of 80% cumulative retained on No. 140 standard mesh sieve assumption that resource meets API Spec for frac sand



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AND SEE	9.5	CB	60	1.4	0.9	0.0	80	12	. 01	1	02		6.9	1.1	0.8	0.1	0.2	0.1	0.8	0.1	0.2	-
10	9.9	1.1	D1	1.8	0.0	0.6	60	1.5	5.0	1.0		1.4	10	1.1	9.5	61 _	0.1	8.1	- 14	04	- 20.	-
20	- 11	1.2	0.1	2.0	0.0	4.1	60	1.6	0.0	6.0	0.5		7.5	14	1/1	0.5	0.1	0.2	12	0.5	0.0	۰
25	1.5	14	0.5	2.2	8.1	11	0.3	1.8	0.1	6.1	0.4	16	1.0	50	1.4	1.1	0.8	0.6	14	0.9	5.3	-
20	1.8	17	44	17	6.5	64	0.5	2.5	0.9	8.5	0.9	1.1	1.0	13	1.1	3.5	2.4	2.1	3.8	1.1	1.7	-
.10	2.5	2.0	- 44	4.1	1.9	16	1.6	4.2	14	1.9	2.5	3.7	- 55	77	7.1	9.5	4.1	6.1	10	62	6.7	-
40	3.5	2.8	- 11	TH	1.0	6.5	5.1	8.7	5.7	5.0	5.7	8.3	8.1	143	150	15.0	13.1	14.4	149	26.0	34.5	-
4)	7.2	6.1	4.9	0.5	11.0	15.7	10.1	26.5	13.5	19.3	14.3	12.2	18.7	124	126	35.6	903	260	29.7	30.8	35.3	1
50	75.4	NLO	315	107	30.7	12.4	26.6	11.3	38.5	19.1	36.6	10.1	36.9	262	345	45.7	361	374	18.6	60.4	26.0	L
60	30.7	31.4	26.1	21.6		10.4	25.0	40.3	32.2	10.1	XE5 :	42.1	36.7	30.5	423	NLI	46.2	455	61.0	34.3	421	Е
67.9	19.1	34.4	27/0	40.4	173	45.4	41.6	49.9	47.6	664	46.2	10.1	41.6	39.5	-	64.1	52.5	01.8	Vi.4	80.1	55.4	Е
70	473	41.9	467	50.0	82,4	the same of the sa	10.6	10.8	52.1	163	16.0	41.1	56.3	46.5	503	75.1	68.6	66.9	64.6	71.6	10.4	Е
75	10.5	11.4	26.3	59,1	57.4	54.7		60.6	66.T	85.5	46.5	70.2	65.2	54.6	58.0	865	79.0	79.4	193.5	16.0	79.6	T
90	63.1	98.7	05.6	62.4	87.7	61.5	01.4	85.1	10.7	79.5	22.7	84.5	79.8	107	714		MAX	P0.1	14.7	95.4	86.6	Г
300	79-6	75.2	62.4	79.7	86.0	78.4	80.5	90.5	87.1	854	PL3	140	\$7.A	25.5	74.0	60.5	86.4	88.4	47.1	18.1	88.4	т
129	Wille.	86.2	94,6	15.4	10.4	ELA.	17.4	45.1	19.7	95.5	10.0	95.1	1.10	76.1	81.7	95.3	93.1	90.3	90.0	19.2	53.1	1
348	810	\$8.4	95.1	87.6	15.1	805	19.6	18.0	100	91.6	90.1	96.5	96.1	81.6	854	98.4	180	100.0	1000	200.8	500.0	۰
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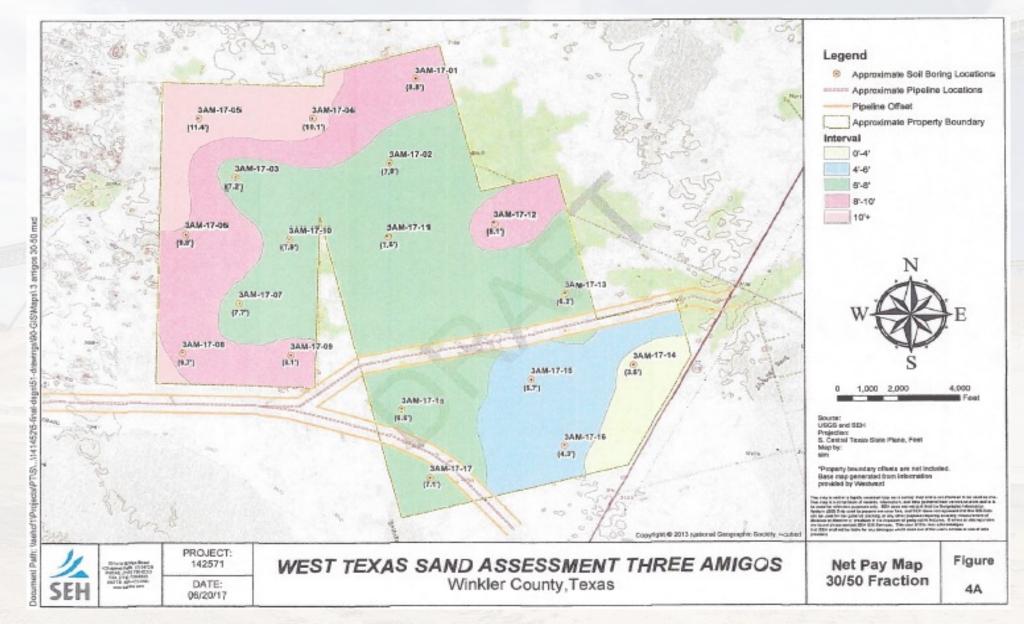
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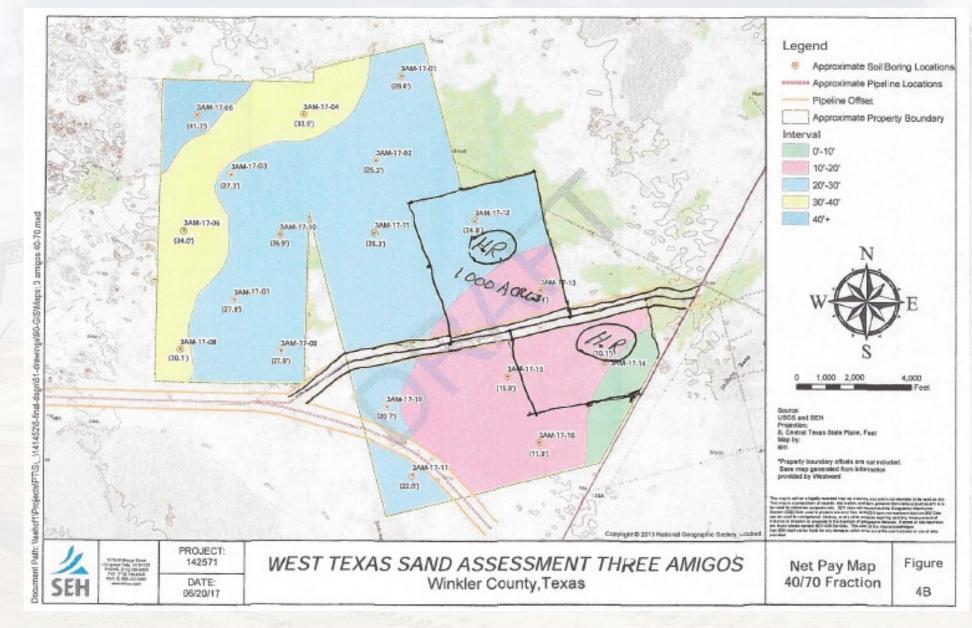
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Project	ModySeyff	- 12	11	13	1.6	2.5	3.5	7.3	15.4	30.7	10.1	42.5	55.5	29.7	71.2	68.2	67.4	63.1	1000		3,0	_
Amigns 7	6-67	- 63	1.1	1	1.4	1.7	2.4	4.1	18.0	38.4	14.4	42.8	55.4	64.6	41.6	61.6	95.1	94.5	100.0	100000000000000000000000000000000000000		-
Amigns 3	0-67	0.4	0.1	11	4.1	0.4	LE	44	11.5	28.1	85.0	44.7	55.3	92.4	16.7	BLA.	45.4	86.0	100.0		- 6	-
Uniger 1	0-67		1.0	130	3.1	1.5	41	7.0	15/9	10.1	40.6	50.0		42.3	94.9	NL4	95.8	94.9	130.0		61	1
Varigos-f	0.79	1.0	_	6.0	8.1	33	1.6	5.0	12.6	20.1	373	42.4	51.6	60.7	75.4	PL6	\$7.8	89.5	188.0		6,1	1
milgoer)	0.85	0.8	8.0	61	6.1	0.4	1.6	5.2	12.7	254	162	40.4	54.7		90.6	87.4	65.6	90.9	185.0		0	1
respons	8-79.6	0.6	0.0	64	- A1	0.5	3.6	5.1	122	264	16.9	414	55.6	65.4	85.1	81.5	96.5	94.0	186.0		- 6	1
wagoer!	947	0.0	1.0	177	1.6	- 53	4.2	2.7	16.5	#Li	46.1	45.0	29.6	94.6	10.9	87.1	89.2	99.4	100,0		- 4	1
rigon II	0.6F	2.1	1.5	0.8	61	93	1.0	5.7	13.3	38.5	10,3	414	57.3	66.7	79.0	86.6	54.6	90.0	205.0	STATE OF THE PARTY.		1
rigon F	94F	8.0	8.0	0.0	0.1	45	1.9	5.6	10.9	38.2	10.1	46.1	163	65.5	70.7	MI	87.6	96.1	1000	Francisco Contract	- 5	1
wipin 12	042	8.7	6.0	27	0.4	44	3.1	5.7	13.5	31.6	10.5	46.7	16.0	64.5	84.5	40.6	95.3	96.5	100.0			1
rigon (5	641	6.1	6.2	0.1	14	33	1.7	8.9	12.2	10.3	63	94.5	63.2	76.2	79.3	87.A	94.1	95.3	100.5	The second second	6	1
Streepen	0.50	0.9	14	-	1.4	18	5.5	8.1	14.7	10.8	98.7	47.0	36.3	95.2	42.7	75.1	79.1	63.6	100.0	100000000000000000000000000000000000000	6	1
rulges 13	0.40	0.7	0.5	10	- 1	10	3.1	7.1	34.3	76.0	315	50.5	46.9	34.6	11.4	34.0	40.7	85.4	109.6		6	1
niges 24	638	0.8	1.1	24	1.4	1.5	8.1	7.5	15.0	27,6	34.5	42.0	900	18.0	10.0	51.6	15.1	98.4	100.0		- 6	1
rigus 22	9-6	0.5	0.8	17	- 14	12	14	9.1	19:0	35.6	452	55.1	54.2	79.3	79.0	81.7	69.4	95.1	188.0	Darre or other	6	1
religion (36	9-25	0.0	0.1	63	65	0.8	7.4	6.8	15.3	30.6	29.1	46.2	Skii	15.8	78.4	44.1	86.4	20.7	1860			П
ndges (27	0.50	9.1	0.1	67	0.0	0.6	33	9.3	14.6	35/0	30.6	46.6	55.0	91.5		811	471	90.0	300.0		0	П
March 25	0.46	0.0	0.1	01	0.5	17	17	7.0	14.9	26.7	38.0	96.0	95-5	64.0	70.5	95.6	96.5	99.4	300.0	and the second	. 0	Т
rivigos IT	6.50	0.5	0.1	10	0.5	- 24	13	63	14.0	30.3	40.4	54.1	66.5	70.6	18.6	MA	20,4888	60.1	900.0	Total Control	6.04	1
PHIG04:30	9.46	01	9.1	0.6	0.5	0.5	Control of the last	8.7	14.5	29.3	94.6	471	36.4	10.4	70.6	-	0.	-	SAM		40/30	1
	Accrego	0.4	Dá	41	11	-	B		0		0			1 0	-	-						

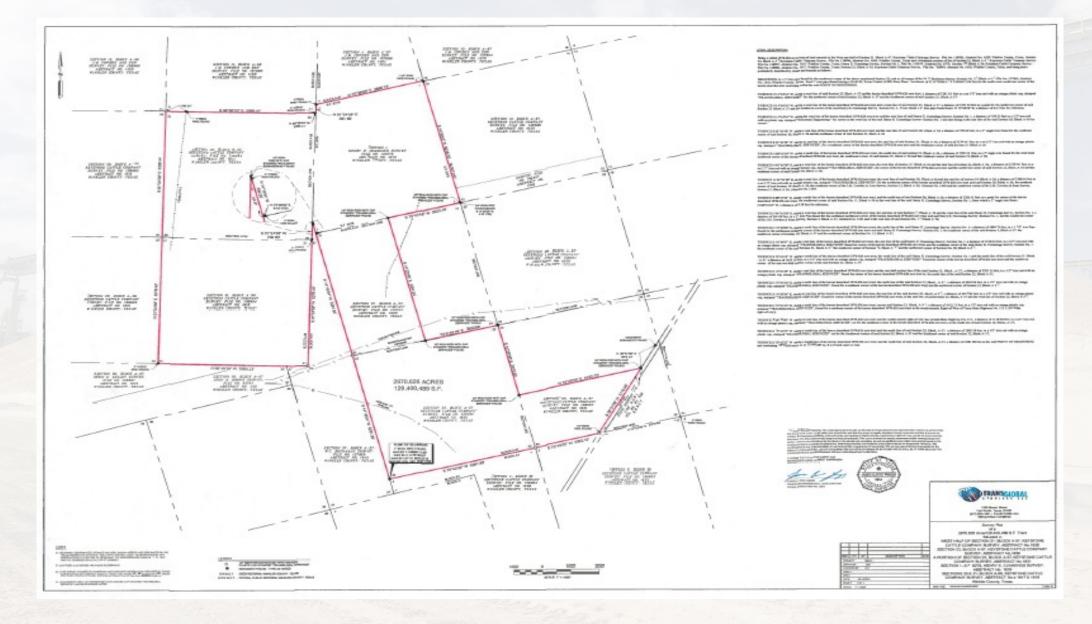
NeLPsy cutoff cases in a minimum ISBL constitution Internal on TRI, 340 mins.

additional analysis performed using cutoff of minimum CRIA considered cotaleged on No. 50 minimum CRIA reproductor reviewed in No. 50 min.

10.5







ENGINEERING REPORTS & RESERVES

ANDREWS



KERMIT



The AZFAB Super Custer Hydro-Cyclene uses centrifugal force sions to separate restorial by size and density. The centrifugal action inside the steel febricated body forces material to separate with newly particles failing to the bottom while the fine light material is pulled through the restricts.

- · All steel construction
- . No moving parts
- . Vertical cylinder with a conical bottom section
- . Internal lining of %" trick 40 durameter natural twitter
- . Operates with 5-10 ps Inlet pressure
- Extended Body Super Coffees are available to provide over outs in the material
- Eve different sizes of Super Curters (gallons per minufations per hour) 409,633

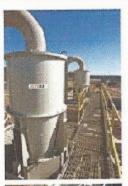
900/73 1200/90 2000/150

2000/150

 Operate asynthere from 0-100% of rated feed tons per hour















September 5, 2018

Jeff Flood Concrete Mobility 1207 Cardinal Avenue N. Glencoe, MN 55336

Quote #06062018Rev 1

Dear Jeff, Joe:

Thank you for allowing SWECO the opportunity to provide an equipment proposal for Concrete Machinery Below you will find our proposal for a SWECO Model AGS-26512 ATLAS Gyratory Sifter.

Baxed upon our understanding of your application, we are pleased to offer the following:

Material to be screened: Sand

Bulk density: 100 lbs/ft3

Maximum product temperature: 200-250°F Maximum plant production: 200 TPH

Maximum desired feed rate per sereener: 50-60 TPH

Moisture content: < 0.5%

Mesh: 46 TBC / 64 TBC

API fractions: 40/70 and 100 mesh

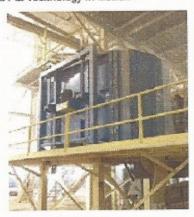




We Put Technology In Motion TH.



Sweco, A Business Unit of M-I LLE.

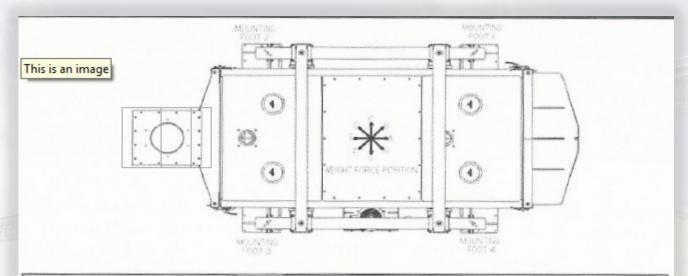


dustation photos

ITEM I:

SWECO Madel 4GS-26512, 6 Way Feed Splitter, Twelve Deck ATL 4S Gyzatory Sifter, 5.5' v 12', AR lined construction, complete with the following:

- A two screen configuration, seed of 400ft* of screening area per mesh. Total of 200gt.
- Eccentrie-weight drive system including sheaves, drive belt and guard, and maintenance-free bearing. The dynamically belonged design eliminates the need for an expensive transmission or graduax.
- Onlick-change screen design with access from either end of the sifter. Screens can be inspected or changed without removing the dux cover or ball tray. In multi-deck units, each screen or ball deck can he independently removed or registed without distribing the cover or scream (hall dicks at other levels.
- Mild shed those-mounted support stands no "optional" cables or suspension structures are required thanging me art option is also evailable. The siller is shapped assembled and ready for installation. Standers steel woven wire screens meantfactured in house by SWECO. They are of one piece design.
- require an elips, and are tensioned in place for long-term high-afficiency operation.
- Mild sized ball dock installed below each serien for soff-eleging action. Bell docks can be removed from either end of the sifter but do not have to be removed when changing screens. They are supplied in sections sized to allow manual handling when remarkal is required.
- 1011f, 1200 RPM. FEFC foot-mounted motor lacated on the side of the sitter for easy access.
- Welded mild sheel drive, heavy-duty tabular frame wift lifting logs, and screen basket.
- Contact parts (has ket liner, cover, inlet, inlet spreader, tension rails, and discharge assembly) fabricated from AR steel and painted. Itali docks and tension rails are not painted. Non-contact parts are pointed mile steel. SWECO's standard paint is a high-quality industrial epocy, finted blue.
- Guskets end seals ere sillicaue



						STAND S	ATIC - DY	NAMIC	DAD AT I	HORMAL D	PHRAING	LOAD					
WEIGHT	MOUNTING FOOT 1				MEUNTING ROOT 3			MOUNTING FROM 3			MOUNTING HOOF 4				STANDS TATIC LCAD		
FORCE	Vertical	Horicantal	Torque (ft.		Vertical	Plante Mail	Timple (h-		Vertical	Hortomous	lipripar (t-		VETER	Horizontiii	Intole It-		NORMAL OPERATIONS
POSITION	Force (that	Force (this	itest	09.	Force (its)	Flarok (fits)	80	Dir.	Perice (Its)	Fange @lan6	195	Dir.	Folse (fac)	Force (lbs)	Rev E	59.	0.850
Α	59(9.8	299.0	1129.0	1 0	3538.9	268.6	2911.9		5746.5	20(1.0	39910	-	61213	321.6	3242.9	->	MOLATING (OUT)
.0	5971.4	801.1	1129.8	N.	\$658.7	279.0		.71	5685.0	218.9	2894.3	- 1	6003 \$	300.5	3323.0	×	9790.0
E	5938.7	296.0	\$57.7	1	5797.4	261.1	2995.5	*	5717.6	2014.0	2952.1	+	5864.7	1923	3037.3	4	MOUSTINGHOOT 2
D	5790.0	207,7	390.9	1 1	\$845.1	29 2	1548.3	56	5866.3	202.3	3084.3	1 4	1622.0	387.1	2584.5	15.	565(7
- 8	5670.1	279.8	973.5	1	5776.6	291.1	3026.6	4-	5586.2	301.4	3155.7	+	18916	389.2	10002	+	MOUNTING FOOT &
8	5668.6	271.3	2651.9	16	5658,7	279.8	2909.2	16	6647.7	305.6	3177.3	vć.	630(1.8	300.5	3133.6	1	\$866.3
6	3921.3	279.4	2904.6	4	5520.0	271.9	2523.0	4	6005.0	500.6	3124.6	+	6142.1	306.8	1209 8	÷	MOUNTING FOOR 4
26	5790.0	287,7	2990.9	100	\$477.5	266.5	2770.2	14	5866.3	210.8	3039.3	34	6100.0	323.8	1262.6	34	6008:4
MAX	5972.4	301-1	3119.8		5840.1	293.2	30MI-2		6647.7	305.6	127.		61848	313.8	1262.6		23338.4
						NOTE	- ALL VERE	CALL	DADSARE	COWN INT	DATHERAG	3					

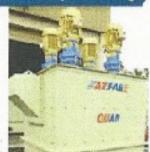
STANGETATIC - DINAMIC LOND AIR OVERLOWD (MACHINETULLY PILLISGED WITH PRODUCT)										
WEIGHT	MQUNDING FOOT 1	MIDUNING FOOT 2	K 100N INF NUCM	MOUNTING/6014	STAND STATIC LOAD					
FORCE	Vertical Pronument Turque ift:	Vertical Hisriaphibi Tenque (t)	Veltical Harlatinial Torpse R-	Vertical Horizontal Sulphel?h-	NORMAL OPERATIONS					
POSITION	Force (fold Force (b)) b)) Dr.	Force (bs) Norce (b)((bs) Dir.	Force (bal force (ba) (bb) (bir.	Force (bs) Force (bs) Bs) Dir.	(1,00)					
A	38719.3 299.0 3108.2 .a	30217.0 208.0 2793.9 9	1012 2 10 2921 0 o	11186.1 311.6 3230.9 → 11006.3 300.5 113.4 ≯	MICHAEL SOOF 1					
à	30280.0 301.3 3339.8 24	30936.9 279.6 2909.2 M	10032 2 201.0 29213 9 100303 3689 26988 A	T1005.3 300.5 31234 A	10099.4					
	3073年1 295.0 3077.1 中	20475/6 288.1 2885,5 T	10613.4 204.0 2952.5 +	10887.6 292-2 3037.3 4	MOUNTING FOOT 2					
3	32599.0 287.7 2990.9 0.	30538.2 219.2 3048.2 %	10752-1 292-3 3016.9 5	(0844.9 283.1 2988.6 1 T	10336.9					
	30479.5 278.4 2073.5 4	30056.7 201.1 10266 ←	30872.0 308.6 3135.7 +	(0906.4 281.2 9006.2 +	MOUNTING/POT 3					
	20416/0 274.3 205L9 /r	10836 9 279.8 25092 &	30933-3 309.6 3177.9 er	\$1026.8 300.5 \$1226 4	18752.1					
6	10460.7 279.4 2004.6 5	20198 2 271.5 2029 D &	\$0890.8 30(2.6 8124.6 ±	\$1165.0 SUR.M \$209.8 \$	MOUNTWO/COR4					
- 10	10550.6 287.7 2900.9 5	10156 5 166.5 2770 2 %	10752.1 292.3 30363 2	组於076 313.8 32626 ½	21026.3					
MAX	1078Q-8 301.1 3139.8	30518 2 39 2 348 3	(0933.5 30(0.0) 3177.3	11(27/6) 313.8 3262.6	42714.6					
NOTE: ALL VERTICAL LOADS ARE DOWN INTO THE PAGE										



Your SOLUTION

for fine material processing





Quad Attrition Mill

AZEAR QUAD Arrefon Milk were peopled to south serial professors. against and pholiner in differ to liberationals, and materials, Once the ultra fines are liberated they can easily be mised away miscong in a nonceable improvement of meterial territory

The AZYAS AR your Mill design was benned with our cosponer's roeds at Find.

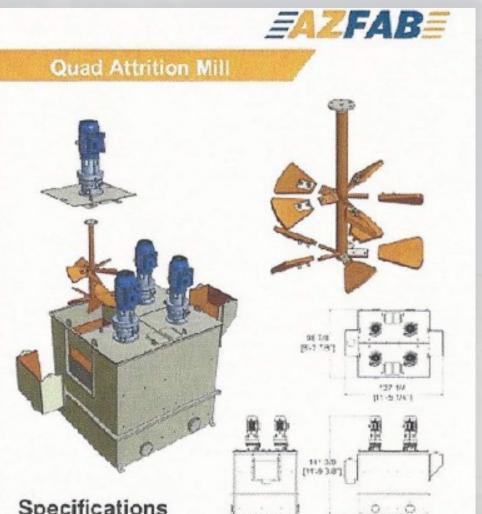
- Process 3001PH
- Mannage refer than lave to allow to best possible south
- Easy serviceable modules to maximus uptime
- Modular paddle shaftdasign with replaceable paddles.
- Removable internal nation costed west timers.
- Self-contained augo tubicating grantuces
- Top mounted inspection pans









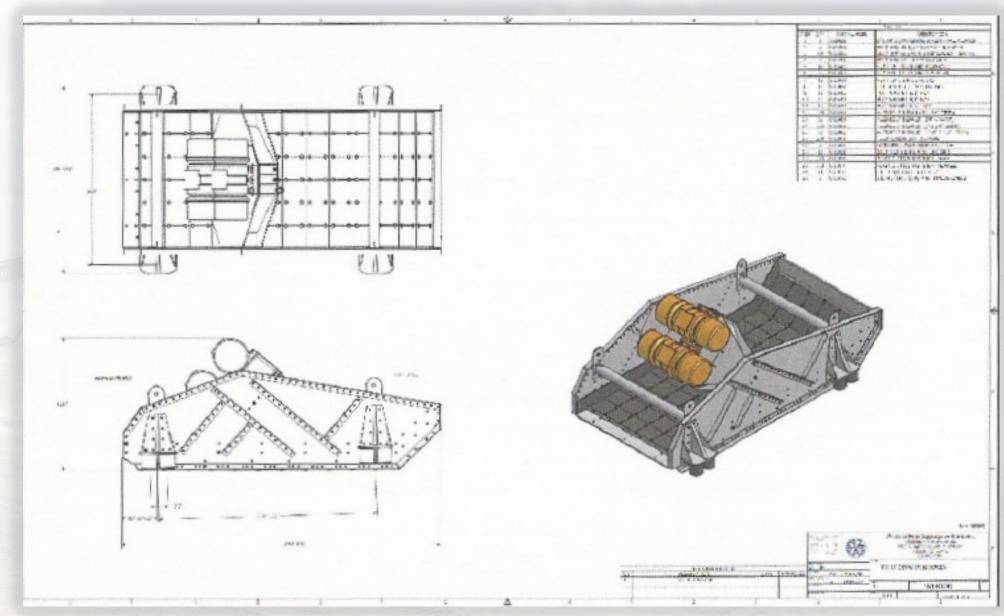


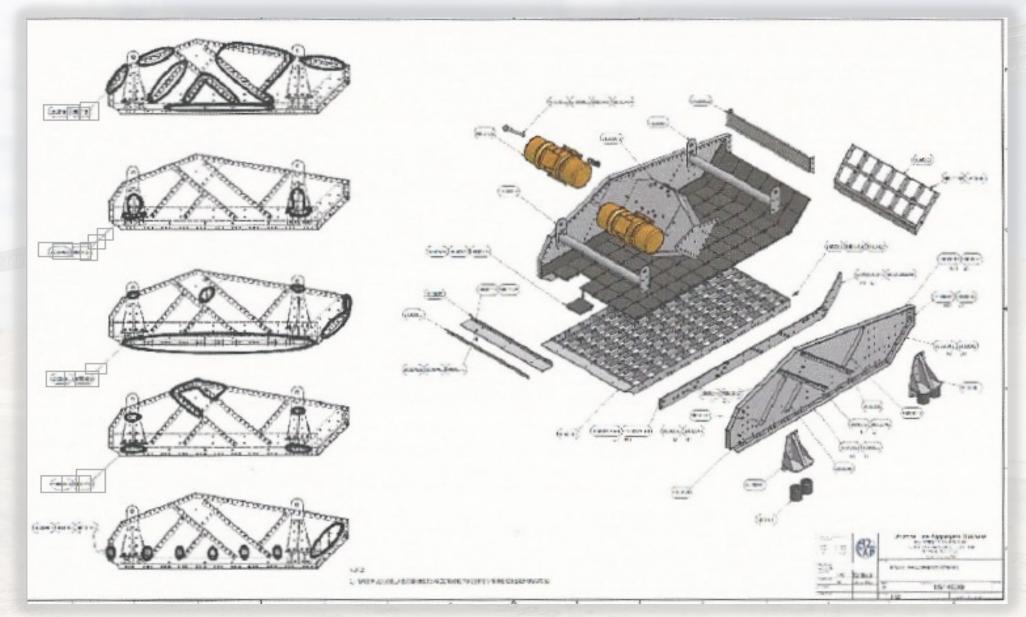
Specifications

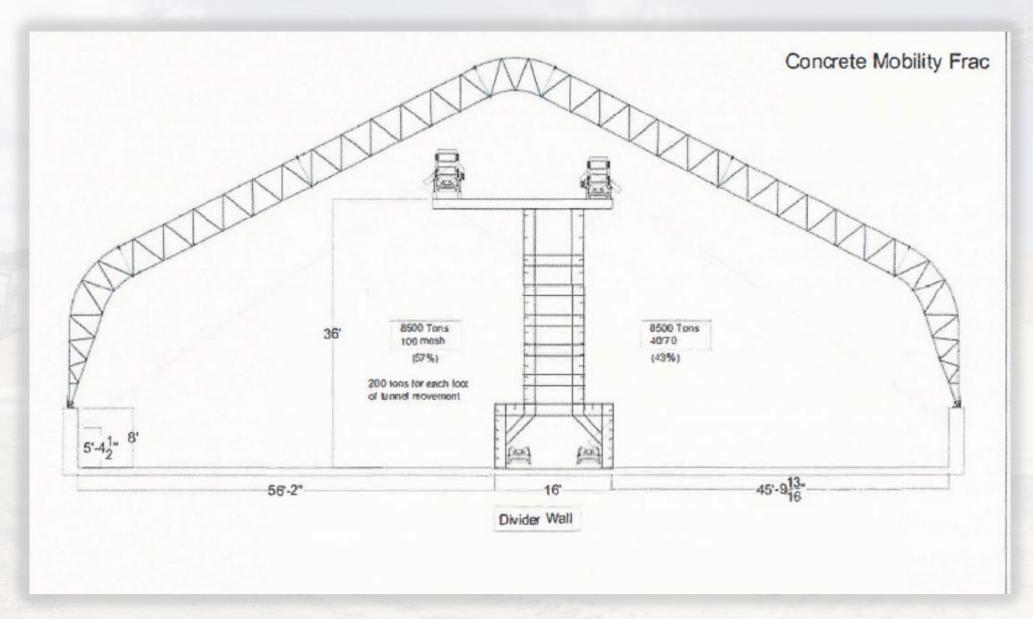
300 TPH

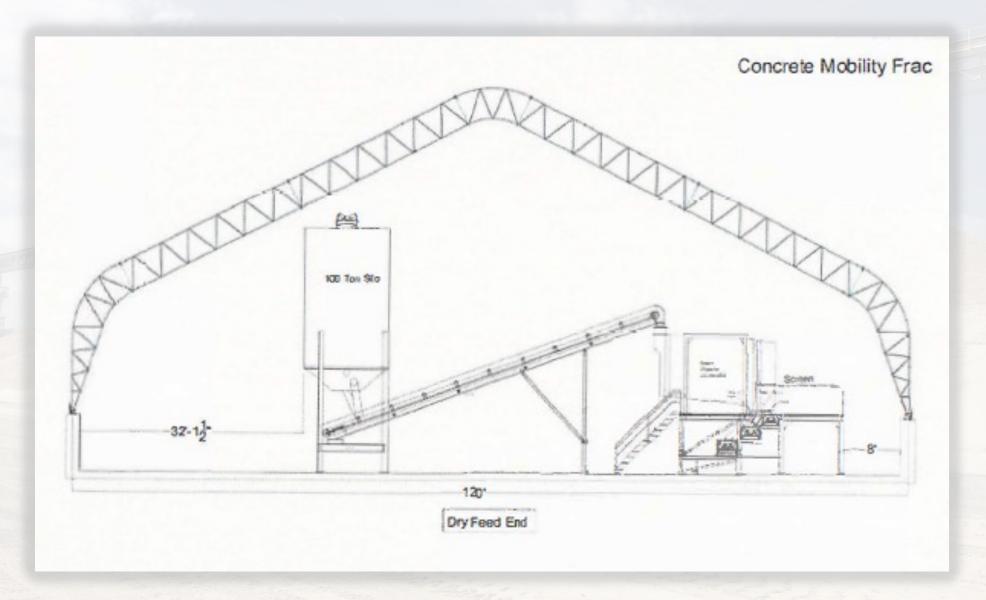
4 SHAFT WITH MOTOR / PLANETARY DRIVES REPLACEABLE PADDLES

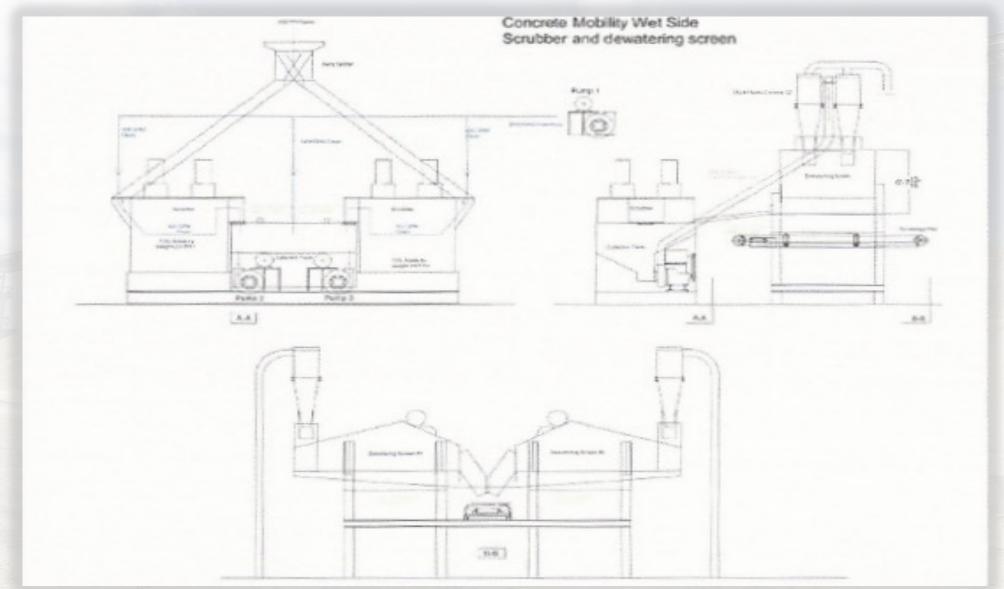


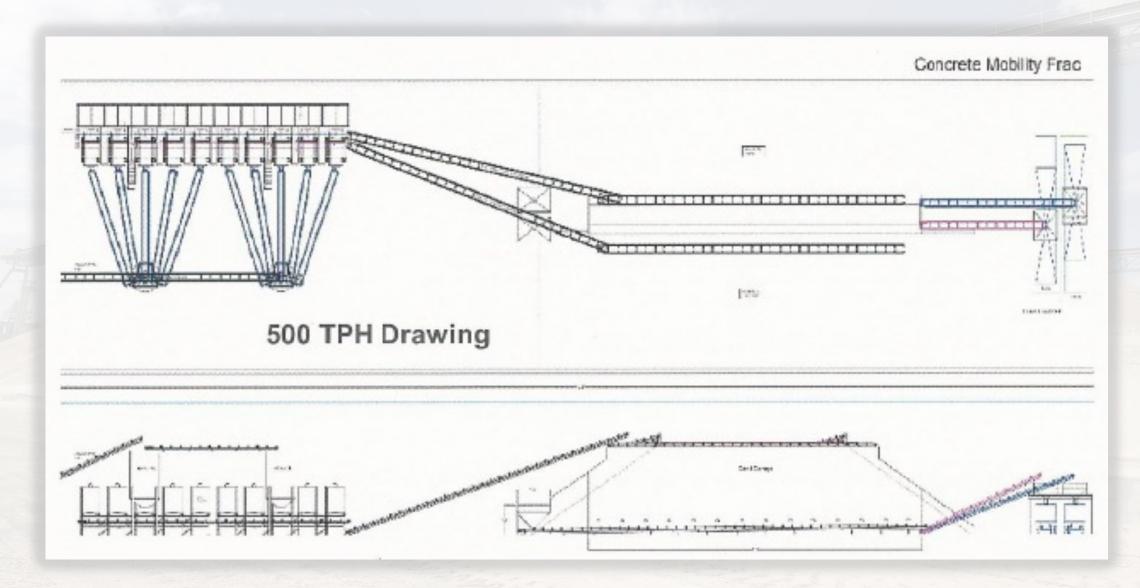














THANK YOU

Any and all questions can be forwarded and answered by the managing member HW Kirk 214-842-1390.