

# REX ENERGY CORPORATION BANKRUPTCY CASE STUDY

FILED ON 05/18/2018



CreditRiskMonitor's warning of Rex Energy Corporation's ("Rex Energy") bankruptcy risk was determined by a combination of factors:

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## MONTHLY AVERAGE FRISK® SCORE

CreditRiskMonitor's FRISK® score had been warning of financial stress at Rex Energy (OTC: REXXQ) for more than a year.

We issued a special High Risk Report, dated April 30, 2018, as conditions continued to deteriorate and become more troubling.

The company ultimately filed for bankruptcy on May 18, 2018.

	2017	2017	2017	2017	2017	2017	2017	2017	2018	2018	2018	2018	2018
Business Name	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY
Rex Energy Corporation	2	2	2	1	2	1	1	1	1	1	1	1	1

BANKRUPT!

The FRISK® score is
96% accurate\* in
predicting the risk of
corporate failure/bankruptcy
over a 12-month horizon.
All FRISK® scores are
recalculated every night
for each subsequent
12-month period.

	Pro Pro	bability of bankru	ptcy within 12 months
	LKISK	From	То
Best	10	0.00%	0.12%
	9	0.12%	0.27%
	8	0.27%	0.34%
	7	0.34%	0.55%
	6	0.55%	0.87%
	5	0.87%	1.40%
	4	1.40%	2.10%
	3	2.10%	4.00%
	2	4.00%	9.99%
Worst	1	9.99%	50.00%

While the percentage risk of bankruptcy varies at each FRISK® score, 96% of public companies that eventually go bankrupt enter the FRISK® "red zone" prior to filing. A FRISK® score of 5 or less is an important warning sign.

<sup>\*</sup> FRISK® score accuracy of 96% is based on backtesting of U.S. public companies; results may vary by country.

## THE FRISK® SCORE COMPONENTS

At the core of the CreditRiskMonitor process is our 96% accurate FRISK® score, which indicates a company's level of financial stress on a scale of 1 to 10, based on the probability of bankruptcy over a 12-month horizon. When available, the FRISK® score incorporates a number of powerful risk indicators including:

A "Merton" type model using stock market capitalization and volatility Financial ratios, including those used in the Altman Z"-Score Model

Bond agency ratings from Moody's and Fitch

## Crowdsourced CreditRiskMonitor Usage Data

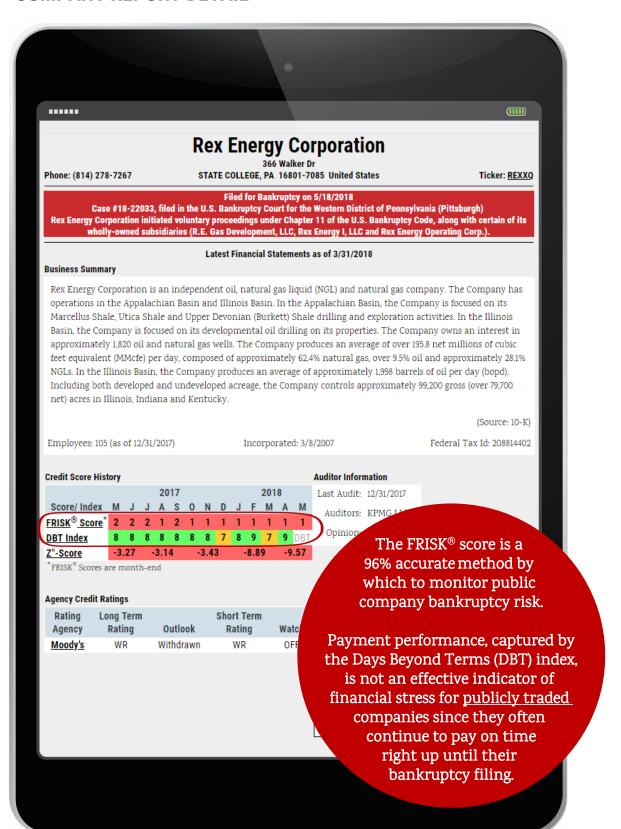
<u>Crowdsourcing</u> has enhanced the accuracy and timeliness of the FRISK® score. We collect and analyze data patterns from thousands of CreditRiskMonitor subscribers, including professionals from more than 35% of the Fortune 1000 and other large corporations worldwide.

The crowdsourcing advantage is even more powerful in our FRISK® score since many of the professionals who use our service are credit managers:

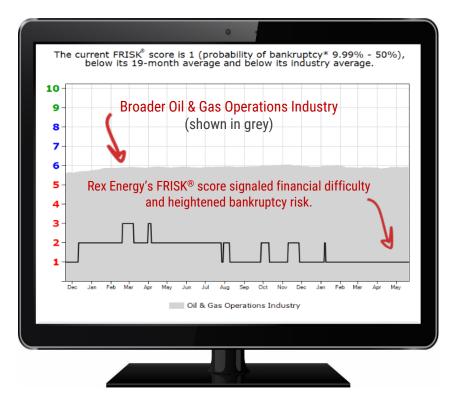
- Credit managers control one of the largest sources of working capital going into a company
- They are not held to the same "Fair Disclosure" restrictions that prevent nondisclosed information sharing on public companies
- Credit managers use a variety of non-public information sources such as their own company's management and sales representatives to be alerted to concerns in a public company's performance
- It is commonly known credit managers confidentially share information with other credit managers, thus collectively, their behavior helps to provide advanced insight to financial problems in public companies

Read more in Credit Research Foundation's quarterly journal article, "Assessing Public Company Financial Risk by Crowdsourcing the Research of Credit Professionals"

#### **COMPANY REPORT DETAIL**



#### FRISK® DEEP DIVE



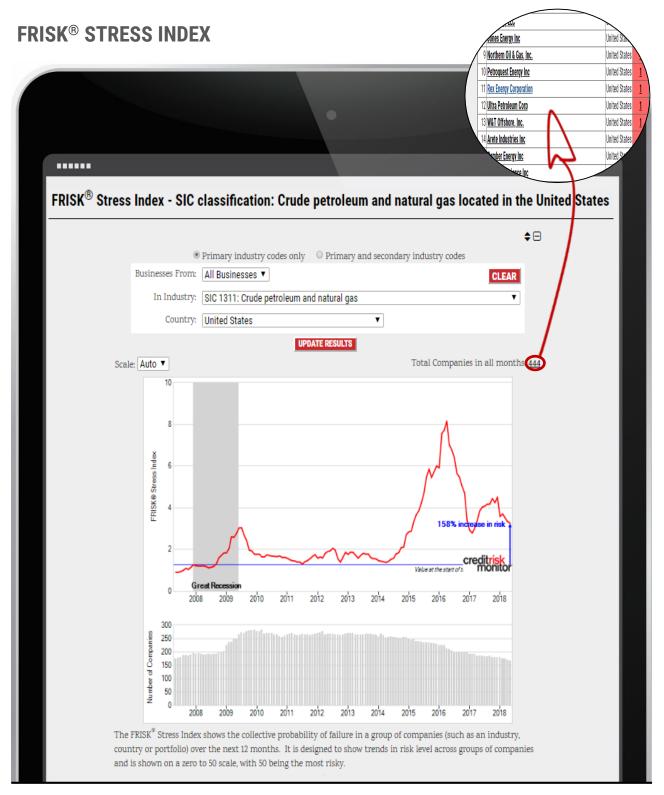
The FRISK® score relative to the broader Oil and Gas Operations industry raised an additional red flag signaling heightened risk relative to peers, as well...

MAKING IMMEDIATE ATTENTION REQUIRED.

## **ADJUSTED MARKET CAP VOLATILITY**



One of the inputs of the FRISK® score is a company's market cap volatility, adjusted for dividends, over the course of a year. Incorporating this information allows us to capture the "wisdom of markets" on a daily basis. This ensures our subscribers are getting the most up to date view of the risks they face since stocks tend to be more liquid and faster moving than bond prices and ratings.



The average probability of failure for SIC code 1311 (Crude petroleum and natural gas) has increased 158% since 2007. Rex Energy was among the weakest names in the industry as evidenced by its FRISK® score of 1.

## PEER ANALYSIS ON ALTERNATE SUPPLIERS AND CUSTOMERS



# **QUARTERLY PERFORMANCE RATIOS**

Net losses in each of the last four fiscal quarters

Poor interest coverage ratio & negative free cash flow

#### Performance Ratios - Sequential Quarters

Performa		<ul> <li>Sequenti of U.S. Dollars)</li> </ul>	ai Quarters	5	
	3 mos	3 mos	3 mos	3 mos	3 mos
Period Ended	3/31/2018	12/31/2017	9/30/2017	6/30/2017	3/31/2017
Net Sales \$	\$65,029	\$57,759	\$47,975	\$47,462	\$52,071
% change	12.59%	20.39%	1.08%	-8.85%	8.42%
Gross Margin \$	\$31,183	\$25,847	\$17,401	\$18,088	\$23,137
% change	20.64%	48.54%	-3.80%	-21.82%	19.68%
% of sales	47.95%	44.75%	36.27%	38.11%	44.43%
change as % of incremental sales	73.40%	86.32%	-133.92%	n/m	94.07%
SG&A \$	\$6,525	\$4,414	\$4,617	\$4,294	\$4,534
% change	47.83%	-4.40%	7.52%	-5.29%	-15.79%
% of sales	10.03%	7.64%	9.62%	9.05%	8.71%
change as % of incremental sales	29.04%	-2.07%	62.96%	n/m	-21.02%
Operating margin \$	\$284	\$2,390	(\$14,512)	(\$7,887)	\$3,473
% change	-88.12%	116.47%	-84.00%	-327.09%	111.01%
% of sales	0.44%	4.14%	-30.25%	-16.62%	6.67%
change as % of incremental sales	-28.97%	172.75%	-1,291.42%	n/m	865.90%
EBITDA \$	\$14,408	\$15,764	(\$80)	\$7,634	\$18,913
% change	-8.60%	19,805.00%	-101.05%	-59.64%	209.91%
% of sales	22.16%	27.29%	-0.17%	16.08%	36.32%
change as % of incremental sales	-18.65%	161.94%	-1,503.70%	n/m	893.18%
EBIT \$	(\$720)	\$2,322	(\$14,697)	(\$7,867)	\$3,445
% change	-131.01%	115.80%	-86.82%	-328.36%	110.22%
% of sales	-1.11%	4.02%	-30.63%	-16.58%	6.62%
change as % of incremental sales	-41.84%	173.95%	-1,331.38%	n/m	918.79%
Pre-tax income \$	(\$69,793)	(\$13,516)	(\$46,534)	(\$9,603)	\$2,683
% change	-416.37%	70.95%	-384.58%	-457.92%	103.98%
% of sales	-107.33%	-23.40%	-97.00%	-20.23%	5.15%
change as % of incremental sales	-774.10%	337.47%	-7,199.03%	n/m	1,732.42%
Net income (loss) \$	(\$69,793)	(\$10,788)	(\$46,534)	(\$9,603)	
% change	-546.95%	76.82%	-384.58%	-457.92%	103.98%
% of sales	-107.33%	-18.68%	-97.00%	-20.23%	5.15%
change as % of incremental sales	-811.62%	365.35%	-7,199.03%	n/m	1,732.86%
Tax expense \$	\$0	(\$2,728)	\$0	\$0	\$0
Effective tax rate	0.00%	20.18%	0.00%	0.00%	0.00%
Depreciation expense \$	\$15,128	\$13,042	\$14,117	\$15,001	\$14,868
% of sales	23.26%	22.58%	29.43%	31.61%	28.55%
% of capital expenses	24.50%	38.01%	56.25%	52.58%	58.36%
% of PP&E, net (annualized)	6.81%	5.99%	6.61%	7.11%	7.03%
Capital expenditures \$	\$61,738	\$34,310	\$25,097	\$28,528	\$25,476
% change	79.94%	36.71%	-12.03%	11.98%	7,349.12%
% of PP&E, net (annualized)	27.81%	15.76%	11.75%	13.52%	12.05%
% of working capital (annualized)	-26.21%	-28.49%	-195.21%	-262.75%	-175.16%
Interest coverage ratio % change	<b>0.21</b> -79.04%	1.00 39,912.00%	0.00 -100.40%	<b>0.63</b> -69.55%	<b>2.07</b> 504.73%
Free cash flow \$	(\$35,820)	(\$18,227)	(\$26,002)	(\$15,740)	(\$14,954)
% change	-96.52%	29.90%	-65,20%	-5.26%	-208.94%
Source:	10-Q	10-K	10-Q	10-0	10-Q
554.56.	5/15/2018	4/13/2018	11/14/2017	8/9/2017	5/10/2017

## **QUARTERLY LEVERAGE RATIOS**

negative tangible net worth since 9/30/17 suggested that all loanable collateral had ..... been exhausted Leverage Ratios - Sequential Quarters (Thousands of U.S. Dollars) Period Ended 3/31/2017 3/31/2018 12/31/2017 9/30/2017 6/30/2017 Total debt \$ \$789,444 \$877,169 \$842,481 \$813,538 \$754,592 % change 4.12% 3.56% 3.05% 4.62% -0.20% Stockholders' equity \$ (\$122,335)(\$53,562) (\$43,038) \$3,698 \$13,250 % change -128.40% -24.45% -1,263.82% -72.09% 29.57% Total debt to equity ratio 213.48 56.95 n/a n/a n/a % change n/a 274.85% -22.98% n/a n/a Tangible net worth \$ (\$53,562) (\$122,335)(\$43,038) \$13,250 \$3,698 % change -128.40% -24.45% -1,263.82% -72.09% 29.57% Total debt to tangible net worth n/a n/a n/a 213.48 56.95 % change 274.85% -22.98% n/a n/a n/a Total assets \$ \$942,137 \$905,570 \$877.395 \$964,939 \$896,840 % change 5.05% -0.96% -1.85% 2.42% 3.21% Total debt to assets ratio 0.91 0.89 0.91 0.87 0.86 % change 1.66% -1.42% 4.05% 1.37% 1.68% Tangible assets \$ \$964,939 \$942,137 \$896,840 \$905,570 \$877,395 % change 2.42% 5.05% -0.96% 3.21% -1.85% Short-term debt \$ \$834,325 \$869,197 \$1,859 \$834 \$801 4.18% 44,780.31% 122.90% 4.12% 4.84% % change Short-term debt % of total debt 99.09% 99.03% 0.23% 0.11% 0.11% % change 0.06% 43,240.00% 116.38% -0.57% 5.15% Short-term debt % of working capital -88.38% -92.61% -2.98% -2.06% -1.73% -44.42% -57.94% % change 4.57% -3,009.30% -19.52% Total liabi \$1,087,274 \$995,699 \$939,878 \$901,872 \$864,145 4.21% 9.20% 5.94% 4.37% -2.21% 243.88 65.22 n/a n/a n/a Due to covenant 273.94% -24.53% n/a n/a n/a violations, the company's 243.88 65.22 n/a n/a n/a Term Loan and Senior Notes -24.53% 273.94% n/a n/a n/a were reclassified as current. 15.22 13.36 25.85 9.97 n/a Such a drastic jump in 13.92% n/a n/a 159.19% n/a short-term debt often 10-Q 10-K 10-0 10-0 10-0 5/15/2018 4/13/2018 11/14/2017 8/9/2017 5/10/2017 precedes a bankruptcy

Increasingly

filing.

# **QUARTERLY LIQUIDITY RATIOS AND RATES OF RETURN**

Recurring negative working capital

Meager cash and quick ratios

	Liquidity Rati			š	
	(Tho	ousands of U.S. Dolla	ars)		
Period Ended	3/31/2018	12/31/2017	9/30/2017	6/30/2017	3/31/2017
Current assets \$	\$70,014	\$55,892	\$35,877	\$45,984	\$35,941
% change	25.27%	55.79%	-21.98%	27.94%	6.41%
% of short-term debt	8.06%	6.70%	1,929.91%	5,513.67%	4,487.02%
Current liabilities \$	\$1,053,505	\$956,789	\$98,290	\$86,423	\$82,362
% change	10.11%	873.43%	13.73%	4.93%	-20.58%
Working capital \$	(\$983,491)	(\$900,897)	(\$62,413)	(\$40,439)	(\$46,421)
% change	-9.17%	-1,343.44%	-54.34%	12.89%	33.62%
% of sales (annualized)	-378.10%	-389.94%	-32.52%	-21.30%	-22.29%
Cash \$	\$25,090	\$15,247	\$3,234	\$12,855	\$5,075
% change	64.56%	371.46%	-74.84%	153.30%	37.27%
% of short-term debt	2.89%	1.83%	173.96%	1,541.37%	633.58%
Cash ratio	0.02	0.02	0.03	0.15	0.06
% change	49.69%	-51.67%	-77.87%	141.40%	73.03%
Quick assets \$	\$52,237	\$41,221	\$28,401	\$36,617	\$30,339
% change	26.72%	45.14%	-22.44%	20.69%	4.10%
% of short-term debt	6.01%	4.94%	1,527.76%	4,390.53%	3,787.64%
Quick ratio	0.05	0.04	0.29	0.42	0.37
% change	15.08%	-85.09%	-31.79%	15.01%	31.10%
Current ratio	0.07	0.06	0.37	0.53	0.44
% change	13.87%	-84.00%	-31.40%	21.93%	33.99%
Com	10-Q	10-K	10-Q	10-Q	10-Q
	5/15/2018	4/13/2018	11/14/2017	8/9/2017	5/10/2017

Unable to generate positive returns in the last four fiscal quarters	Rate of Return	- Sequentia		-	(1111)
Period Ended	3 mos 3/31/2018	3 mos 12/31/2017	3 mos 9/30/2017	3 mos 6/30/2017	3 mos 3/31/2017
Return on equity	n/a	n/a	-1,258.36%	-72.48%	26.24%
% change	n/a	n/a	-1,636.25%	-376.23%	129.64%
Return on net tangible equity	n/a	n/a	-1,258.36%	-72.48%	26.24%
% change	n/a	n/a	-1,636.25%	-376.23%	129.64%
Return on total assets	-7.32%	-1.17%	-5.16%	-1.08%	0.30%
% change	-523.83%	77.28%	-379.34%	-455.63%	104.09%
Return on tangible assets	-7.32%	-1.17%	-5.16%	-1.08%	0.30%
% change	-523.83%	77.28%	-379.34%	-455.63%	104.09%
Source:	10-Q 5/15/2018	10-K 4/13/2018	10-Q 11/14/2017	10-Q 8/9/2017	10-Q 5/10/2017

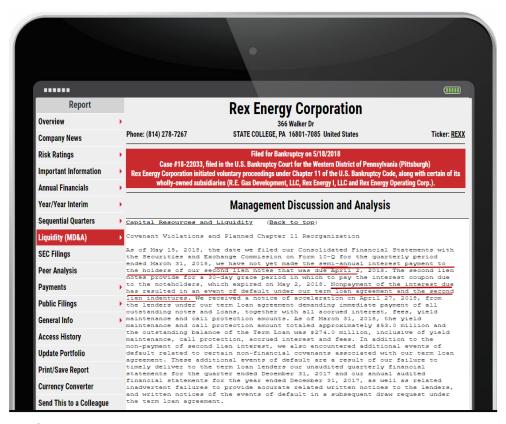
# **NEWS ALERTS: A TIMELINE OF CONCERNING HEADLINES**

11/16/2017	CRMZ News Service	Rex Energy Corporation updated financials available
tex Energy faile	d to make a semi-annua	l interest payment that was due on April 2 for its senior notes.
4/5/2018	CRMZ News	Rex Energy Defaults As Talks With Lenders Continue
		Rule 5550(b), failing to maintain stockholders' equity of greater that common stock from trading on Nasdaq on April 12, 2018.
4/9/2018	CRMZ News Service	REX ENERGY CORP FILES (8-K) Disclosing Notice of Delisting or Failure to Satisfy Continued Listing Rule or Standard; Transfer of Listing
		accelerated, the Company did not possess adequate liquidity to mee aised as to whether it would continue as a going concern.
4/16/2018	CRMZ News Service	Rex Energy Corporation Receives Going Concern Opinion
Working capital a	at 12/31/2017 of (\$901)	million decreased 1,188% from the prior year end's balance of (\$70
	CRMZ News Service	Rex Energy Corporation updated financials available
4/17/2018	ONNIZ IVEWS SELVICE	
Due to Rex Energ	gy's missed payment in (	early April, followed by a further failure to pay during a 30-day grace into default under the covenants of its loan agreement.
Due to Rex Energ	gy's missed payment in (	early April, followed by a further failure to pay during a 30-day grace
Due to Rex Energoeriod, the Comp	gy's missed payment in open on the control of the c	early April, followed by a further failure to pay during a 30-day grace into default under the covenants of its loan agreement.  REX ENERGY CORP FILES (8-K) Disclosing Triggering Events That Accelerate or Increase a Direct Financial Obligation or an Obligation under an Off-Balance Sheet Arrangement

#### MANAGEMENT DISCUSSION AND ANALYSIS

READING THE
MANAGEMENT
DISCUSSION AND
ANALYSIS,
WE NOTED:

Rex Energy's
management
explained, in its 2018
Q1 Form 10-Q filing,
that the Company had
missed a semi-annual
interest payment on
its second lien notes



due in early April. This was followed by a 30-day grace period in which the Company could still make the payment, but again the balance was left unpaid resulting in default. This event was combined with the Company's failure to deliver timely unaudited annual and quarterly financial statements to lenders at the close of Q4 2017, which also constituted a violation of its covenants. Consequently, Rex Energy's lenders sent a notice of acceleration to the Company, and all outstanding notes and loans were made due. While the Company entered into forbearance agreements with its lenders in an attempt to come to a deal, these efforts proved to be fruitless as the Company acknowledged that it did not possess the liquidity to meet these sizable obligations. While the forbearance agreements prevented the lenders from taking any enforcement actions during the specified period, the amounts owed were still nonetheless accelerated. The Company had been unsuccessful in negotiating an alternative restructuring with its various stakeholders, outside of a voluntary pre-arranged Chapter 11 bankruptcy filing. As such, the ability to conclude a successful negotiation with its lenders and note holders out of court was not expected to occur.

...and in May 2018, Rex Energy Corporation filed for bankruptcy...

## ABOUT THIS REPORT/CONTACT CREDITRISKMONITOR



CreditRiskMonitor is a financial risk analysis and news service that helps credit, supply chain and financial professionals stay ahead of and manage risk quickly, accurately and cost effectively. More than 35% of the Fortune 1000, plus over a thousand other large corporations worldwide, rely on our financial risk coverage of over 58,000 global public companies.

CreditRiskMonitor Bankruptcy Case Studies provide post-filing analyses of public company bankruptcies. Our case studies educate subscribers about methods they can apply to assess bankruptcy risk using CreditRiskMonitor's proprietary FRISK® score, robust financial database and timely news alerts.

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