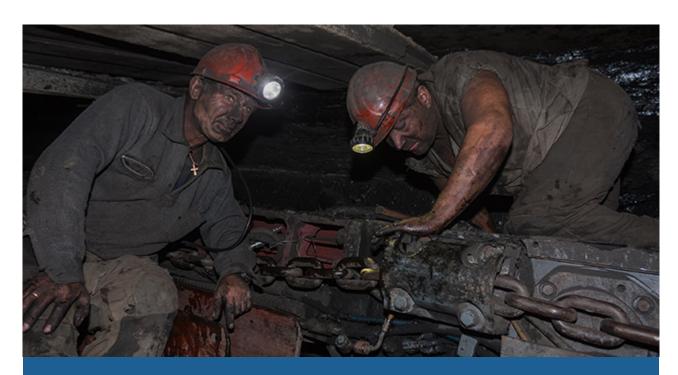


CLOUD PEAK ENERGY INC. BANKRUPTCY CASE STUDY

FILED ON 05/10/2019



CreditRiskMonitor's warning of Cloud Peak Energy Inc.'s ("Cloud Peak") bankruptcy risk was determined by a combination of factors:

Monthly Average FRISK® Score	Page 2
The FRISK® Score Components	3
Company Report Detail	4
FRISK® Deep Dive	5
FRISK® Stress Index	6
Peer Analysis on Alternate Suppliers and Customers	7
Quarterly Performance Ratios	8
Quarterly Leverage Ratios	9
Quarterly Liquidity Ratios and Rates of Return	10
News Alerts: A Timeline of Concerning News Items	11
Management Discussion and Analysis	12
About This Report/Contact CreditRiskMonitor	13

MONTHLY AVERAGE FRISK® SCORE

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

We issued a <u>Blog Post</u>, dated 12/10/18, informing that the company's financial condition was deteriorating and had become more troubling.

The company ultimately filed for bankruptcy on May 10, 2019.

Business Name	2018	2018	2018	2018	2018	2018	2018	2018	2019	2019	2019	2019	2019
Dusiliess Naille	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
Cloud Peak Energy Inc.	5	6	5	5	4	3	1	1	1	2	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.

	rnich ₀	Probability of bankru	ptcy within 12 months
	FKISK	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.

^{*} 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, Fitch, DBRS, & Morningstar

Crowdsourced CreditRiskMonitor Usage Data

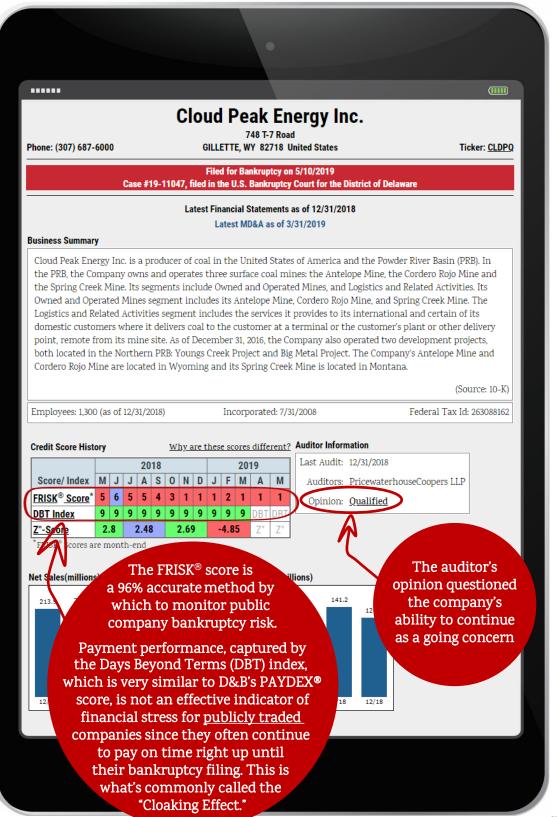
<u>Crowdsourcing</u> has enhanced the accuracy and timeliness of the FRISK® score. We collect and analyze data patterns from thousands of CreditRiskMonitor subscribers, including professionals from more than 35% of the Fortune 1000 and other large corporations worldwide.

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

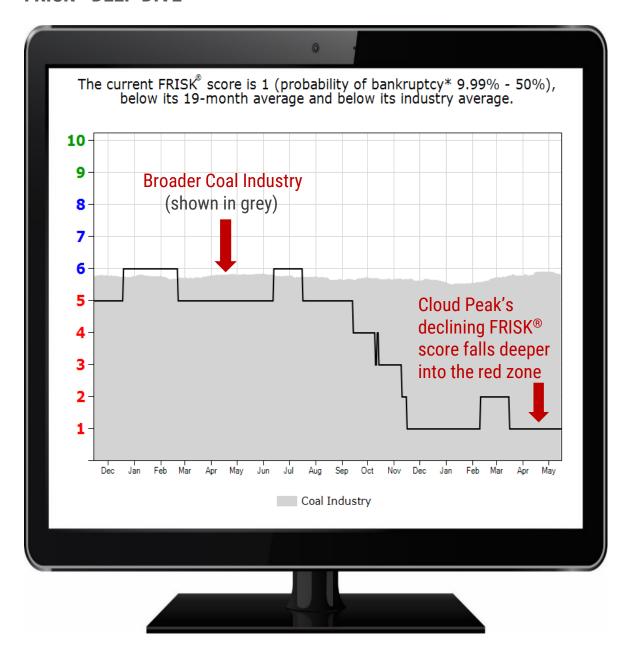
- Credit managers control one of the largest sources of working capital going into a company
- They are not held to the same "Fair Disclosure" restrictions that prevent nondisclosed information sharing on public companies
- Credit managers use a variety of non-public information sources such as their 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

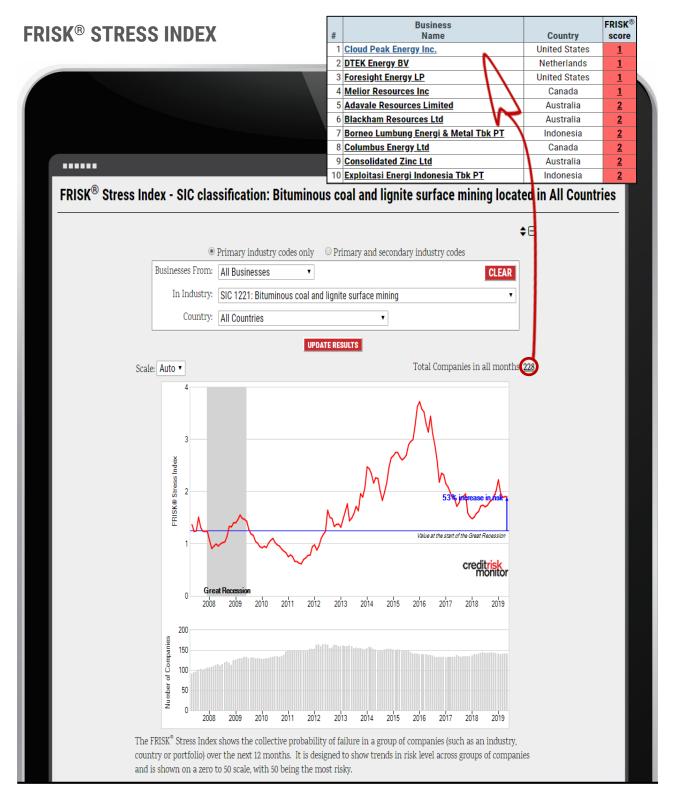


FRISK® DEEP DIVE



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

MAKING IMMEDIATE ATTENTION REQUIRED.



The average probability of failure for SIC code 1221 (Bituminous coal and lignite surface mining) has increased 53% since 2007. Cloud Peak 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

Asset					
impairment					
narges adversely					
npacted Q4 2018					
perating margin					
& net income Perform	mance Ratios		ial Quartei	rs	
	`	of U.S. Dollars)			0
Period Ended	3 mos 12/31/2018	3 mos 9/30/2018	3 mos 6/30/2018	3 mos 3/31/2018	3 mos 12/31/2017
Net Sales \$	\$177,318	\$233,080	\$205,698	\$216,309	\$213,893
% change	-23.92%	13.31%	-4.91%	1.13%	-14.06%
Gross Margin \$	\$9,226	\$24,576	\$9,288	\$23,775	\$27,459
% change	-62.46%	164.60%	-60.93%	-13.42%	-36.52%
% of sales	5.20%	10.54%	4.52%	10.99%	12.84%
change as % of incremental sales	n/m	55.83%	n/m	-152.48%	n/m
SG&A \$	\$4,442	\$5,101	\$12,975	\$7,318	\$14,667
% change	-12.92%	-60.69%	77.30%	-50.11%	12.31%
% of sales	2.51%	2.19%	6.31%	3.38%	6.86%
change as % of incremental sales Operating margin \$	n/m (\$685,616)	-28.76% \$717	n/m (\$20,649)	-304.18%	n/m (\$4,031)
% change	-95,722,87%	103.47%	-5,465.77%	(\$371) 90.80%	-139.30%
% of sales	-386.66%	0.31%	-10.04%	-0.17%	-1.88%
change as % of incremental sales	n/m	78.03%	n/m	151.49%	n/m
EBITDA \$	(\$677,980)	\$37,462	(\$4,966)	\$15,974	\$12,378
% change	-1,909.78%	854.37%	-131.09%	29.05%	-58.32%
% of sales	-382.35%	16.07%	-2.41%	7.38%	5.79%
change as % of incremental sales	n/m	154.95%	n/m	148.84%	n/m
EBIT \$	(\$680,234)	\$20,070	(\$19,366)	\$978	(\$3,209)
% change	-3,489.31%	203.64%	-2,080.16%	130.48%	-129.41%
% of sales	-383.62%	8.61%	-9.41%	0.45%	-1.50%
change as % of incremental sales	n/m	144.02%	n/m	173.30%	n/m
Pre-tax income \$	(\$695,273)	\$12,693	(\$29,633)	(\$7,947)	(\$11,609)
% change % of sales	-5,577.61% -392.11%	142.83% 5.45%	-272.88% -14.41%	31.54% -3.67%	-599.53% -5.43%
change as % of incremental sales	-392.11% n/m	154.58%	-14.41% n/m	151.57%	-5.43 % n/m
Net income (loss) \$	(\$693,044)	\$12,691	(\$29,872)	(\$7,738)	\$17,839
% change	-5,560.91%	142.48%	-286.04%	-143.38%	592.24%
% of sales	-390.85%	5.44%	-14.52%	-3.58%	8.34%
change as % of incremental sales	n/m	155.44%	n/m	-1,058.65%	n/m
Tax expense \$	(\$2,219)	\$5	\$234	\$63	(\$29,506)
Effective tax rate	0.32%	0.04%	-0.79%	-0 -	Q.
Depreciation expense \$	\$2,254	\$17,392	\$14,401	\$	
% of sales	1.27%	7.46%	7.00%		er er
% of Capital expenses	32.08%	745.16%	659.08%	Ins	sufficient
% of PP&E, net (annualized) Capital expenditures \$	0.91%	5.20%	4.27%		free
% change	\$7,026 201.03%	\$2,334 6.82%	\$2,185 -17.42%	C	ash flow
% of PP&E, net (annualized)	2.83%	0.70%	0.65%		**************************************
% of working capital (annualized)	21.20%	7.54%	6.89%		
Interest coverage ratio	(43.97)	4.45	(0.47)		
% change	-1,087.17%	1,045.43%	-127.10%	26.56%	35.72%
Free cash flow \$	(\$14,995)	\$18,166	(\$22,693)	\$21,430	(\$6,766)
% change	-182.54%	180.05%	-205.89%	416.73%	-116.48%
Source:	10-K	10-Q	10-Q	10-Q	10-K

QUARTERLY LEVERAGE RATIOS

Impairment
charges significantly
reduced equity
and leverage
ratios increased
accordingly

Leverage Ratios - Sequential Quarters

(Thousands of U.S. Dollars)

	(THOUSAHUS OF)				
Period Ended	12/31/2018	9/30/2018	6/30/2018	3/31/2018	12/31/2017
Total debt \$	\$398,156	\$403,697	\$402,724	\$408,044	\$405,266
% change	-1.37%	0.24%	-1.30%	0.69%	-1.24%
Stockholders' equity \$	\$293,674	\$986,815	\$968,142	\$998,833	\$1,007,809
% change	-70.24%	1.93%	-3.07%	-0.89%	1.70%
Total debt to equity ratio	1.36	0.41	0.42	0.41	0.40
% change	231.41%	-1.66%	1.84%	1.59%	-2.90%
Tangible net worth \$	\$293,674	\$984,535	\$965,862	\$996,553	\$1,005,529
% change	-70.17%	1.93%	-3.08%	-0.89%	1.70%
Total debt to tangible net worth	1.36	0.41	0.42	0.41	0.40
% change	230.68%	-1.68%	1.83%	1.61%	-2.92%
Total assets \$	\$928,656	\$1,670,396	\$1,649,509	\$1,689,135	\$1,698,701
% change	-44.41%	1.27%	-2.35%	-0.56%	-0.90%
Total debt to assets ratio	0.43	0.24	0.24	0.24	0.24
% change	77.37%	-0.98%	1.03%	1.26%	-0.33%
Tangible assets \$	\$928,656	\$1,668,116	\$1,647,229	\$1,686,855	\$1,696,421
% change	-44.33%	1.27%	-2.35%	-0.56%	-0.90%
Short-term debt \$	\$379	\$379	\$379	\$379	n/a
Short-term debt % of total debt	0.10%	0.09%	0.09%	0.09%	n/a
% change	1.38%	-0.21%	1.29%	n/a	n/a
Short-term debt % of working capital	0.31%	0.27%	0.36%	0.26%	n/a
% change	13.82%	-24.54%	38.07%	n/a	n/a
Total liabilities \$	\$634,982	\$683,581	\$681,367	\$690,302	\$690,892
% change	-7.11%	0.32%	-1.29%	-0.09%	-4.46%
Total liabilities to equity ratio	2.16	0.69	0.70	0.69	0.69
% change	212.14%	-1.58%	1.84%	0.82%	-6.07%
Total liabilities to tangible net worth ratio	2.16	0.69	0.71	0.69	0.69
% change	211.42%	-1.57%	1.83%	0.82%	-6.06%
Total debt to EBITDA ratio (annualized)	n/a	2.69	n/a	6.39	8.19
% change	n/a	n/a	n/a	-21.98%	136.96%
Source:	10-K 3/15/2019	10-Q 10/26/2018	10-Q 7/27/2018	10-Q 4/27/2018	10-K 2/16/2018

QUARTERLY LIQUIDITY RATIOS AND RATES OF RETURN

	Liquidity Rati	os - Sequenusands of U.S. Doll		ca ca de	orking apital & ash had creased harply
Period Ended	3/31/2019	12/31/2018	9/30/2018	6/30/2018	3/31/2018
Current assets \$	\$188,133	\$242,303	\$279,391	\$230,886	\$267,971
% change	-22.36%	-13.27%	21.01%	-13.84%	-0.76%
% of short-term debt	9,163.81%	63,932.19%	73,717.94%	60,919.79%	70,704.75%
Current liabilities \$	\$116,029	\$118,296	\$138,228	\$124,365	\$120,929
% change	-1.92%	-14.42%	11.15%	2.84%	1.27%
Working capital \$	\$72,104	\$124,007	\$141,163	\$106,521	\$147,042
% change	-41.85%	-12.15%	32.52%	-27.56%	-2.38%
% of sales (annualized)	12.43%	17.48%	15.14%	12.95%	16.99%
Cash \$	\$43,633	\$91,196	\$109,459	\$90,174	\$127,796
% change	-52.15%	-16.68%	21.39%	-29.44%	18.39%
% of short-term debt	2,125.33%	24,062.27%	28,881.00%	23,792.61%	33,719.26%
Cash ratio	0.38	0.77	0.79	0.73	1.06
% change	-51.21%	-2.65%	9.21%	-31.39%	16.90%
Quick assets \$	\$68,447	\$124,259	\$172,959	\$132,848	\$172,821
% change	-44.92%	-28.16%	30.19%	-23.13%	9.28%
% of short-term debt	3,334.00%	32,786.02%	45,635.62%	35,052.24%	45,599.21%
Quick ratio	0.59	1.05	1.25	1.07	1.43
% change	-43.84%	-16.06%	17.14%	-25.25%	7.91%
Current ratio	1.62	2.05	2.02	1.86	2.22
% change	-20.84%	1.34%	8.87%	-16.22%	-2.01%
Source:	10-Q 5/10/2019	10-K 3/15/2019	10-Q 10/26/2018	10-Q 7/27/2018	10-Q 4/27/2018

Unfavorable					
rates of return	Rate of Return	- Sequentia nds of U.S. Dollars			
rod Ended	3 mos 3/31/2019	3 mos 12/31/2018	3 mos 9/30/2018	3 mos 6/30/2018	3 mos 3/31/2018
Return on equity	-16.94%	-70.23%	1.31%	-2.99%	-0.77%
% change	75.88%	-5,457.42%	143.83%	-289.52%	-142.65%
Return on net tangible equity	-16.94%	-70.39%	1.31%	-3.00%	-0.77%
% change	75.94%	-5,457.15%	143.84%	-289.54%	-142.65%
Return on total assets	-5.49%	-53.33%	0.76%	-1.79%	-0.46%
% change	89.70%	-7,075.87%	142.72%	-291.75%	-143.70%
Return on tangible assets	-5.49%	-53.38%	0.77%	-1.79%	-0.46%
% change	89.71%	-7,071.96%	142.73%	-291.76%	-143.70%
Source:	10-Q 5/10/2019	10-K 3/15/2019	10-Q 10/26/2018	10-Q 7/27/2018	10-Q 4/27/2018

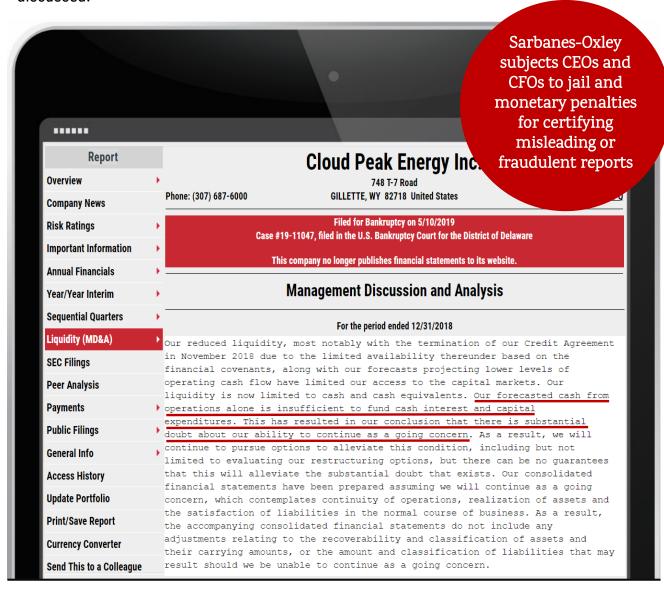
NEWS ALERTS: A TIMELINE OF CONCERNING NEWS ITEMS

4/28/2018	CRMZ News Service	Cloud Peak Energy Inc updated financials available
	aximum borrowing capac e previous maximum cap	city under the Amended Credit Agreement was reduced to \$150 acity of \$400 million.
5/24/2018	CRMZ News Service	CLOUD PEAK ENERGY INC. FILES (8-K) Disclosing Entry into a Material Definitive Agreement, Regulation FD Disclosure, Financial Statements and Exhibits
	B period, Cloud peak repo ame period last year.	rts a 330% increase in net loss to \$29.9M compared with net loss of
7/28/2018	CRMZ News Service	Cloud Peak Energy Inc updated financials available
		e period ended 9/30/18 revealed that gross profit decreased 44% to ble 9 month period last year.
10/27/2018	CRMZ News Service	Cloud Peak Energy Inc updated financials available
		team and legal and financial advisors, Cloud Peak commenced a ng a potential sale of the Company.
11/13/2018	Business Wire	Cloud Peak Energy Announces Its Election to Terminate Its Undrawn Credit Agreement
		ended 12/31/18, Cloud Peak informed that it had experienced a ed substantial doubt about its ability to continue as a going concern. Cloud Peak Energy Inc. Receives Going Concern Opinion
Claud Book onn	ounced that it was skinni	ing a \$1.8 million interest payment and could file for chapter 11
		ditors about restructuring its balance sheet.
3/15/2019 Net loss for the	CRMZ News Service Q4 2018 period was \$69 or the year-to-date period	ditors about restructuring its balance sheet.
nprotection as it 3/15/2019 Net loss for the year. Net loss for months last year 3/16/2019 Cloud Peak ann	CRMZ News Service Q4 2018 period was \$69 or the year-to-date period ar. CRMZ News Service	Coal Miner Cloud Peak Energy Skips Interest Payment 93.0M compared with net income of \$17.8M for the same period last d was \$718.0M compared with net loss of \$6.6M for the equivalent 12
nprotection as it 3/15/2019 Net loss for the year. Net loss for months last year 3/16/2019	CRMZ News Service Q4 2018 period was \$69 or the year-to-date period ar. CRMZ News Service	Coal Miner Cloud Peak Energy Skips Interest Payment 23.0M compared with net income of \$17.8M for the same period last dwas \$718.0M compared with net loss of \$6.6M for the equivalent 12 Cloud Peak Energy Inc updated financials available Inding and commencement of NYSE delisting procedures due to its low
nprotection as it 3/15/2019 Net loss for the year. Net loss for months last year 3/16/2019 Cloud Peak ann stock price. 3/27/2019 The Company fa	CRMZ News Service Q4 2018 period was \$69 or the year-to-date period ar. CRMZ News Service CRMZ News Service Ounced suspension of tra	Coal Miner Cloud Peak Energy Skips Interest Payment 23.0M compared with net income of \$17.8M for the same period last dwas \$718.0M compared with net loss of \$6.6M for the equivalent 12 Cloud Peak Energy Inc updated financials available Iding and commencement of NYSE delisting procedures due to its low CLOUD PEAK ENERGY INC. FILES (8-K) Disclosing Notice of Delisting or Failure Satisfy a Continued Listing Rule or Standard; Transfer of Listing, Regulation FD Disclosure, Financial Statements and Ex
nprotection as it 3/15/2019 Net loss for the year. Net loss for months last year 3/16/2019 Cloud Peak ann stock price. 3/27/2019 The Company fa	CRMZ News Service Q4 2018 period was \$69 or the year-to-date period ar. CRMZ News Service CRMZ News Service Ounced suspension of tra	Coal Miner Cloud Peak Energy Skips Interest Payment 23.0M compared with net income of \$17.8M for the same period last dwas \$718.0M compared with net loss of \$6.6M for the equivalent 12 Cloud Peak Energy Inc updated financials available Iding and commencement of NYSE delisting procedures due to its low CLOUD PEAK ENERGY INC. FILES (8-K) Disclosing Notice of Delisting or Failure Satisfy a Continued Listing Rule or Standard; Transfer of Listing, Regulation FD Disclosure, Financial Statements and Ex
nortection as it 3/15/2019 Net loss for the year. Net loss for months last year 3/16/2019 Cloud Peak ann stock price. 3/27/2019 The Company for agreement with 5/7/2019	CRMZ News Service Q4 2018 period was \$69 or the year-to-date period ar. CRMZ News Service OUNCED SERVICE CRMZ News Service CRMZ News Service CRMZ News Service ailed to make two interes a bondholder group that	Coal Miner Cloud Peak Energy Skips Interest Payment 23.0M compared with net income of \$17.8M for the same period last dwas \$718.0M compared with net loss of \$6.6M for the equivalent 12 Cloud Peak Energy Inc updated financials available Iding and commencement of NYSE delisting procedures due to its low CLOUD PEAK ENERGY INC. FILES (8-K) Disclosing Notice of Delisting or Failure Satisfy a Continued Listing Rule or Standard; Transfer of Listing, Regulation FD Disclosure, Financial Statements and Ex It payments on two separate notes and entered into a forbearance was extended to May 7. Cloud Peak Plans Bankruptcy Filing In Delaware

MANAGEMENT DISCUSSION AND ANALYSIS

One feature of the CreditRiskMonitor service is the ability to quickly access a Company's Management Discussion and Analysis (MD&A) history.

The MD&A represents the thoughts and opinions of management, and provides a forecast of future operations, and therefore these statements can't typically be falsified. According to the Financial Accounting Standards Board (FASB), "MD&A should provide a balanced presentation that includes both positive and negative information about the topics discussed."



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.

Request a Personalized Demo and Risk Assessment

Read more Bankruptcy Case Studies, High Risk Reports and other resources

Contact us at: 845.230.3000 creditriskmonitor.com/contact-us