

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549**

**FORM S-4
REGISTRATION STATEMENT
S ^{UNDER} Ai
*THE SECURITIES ACT OF 1933***

CLEVELAND MAMMALS, INC.

Table of Co

Table of Contents

common share, as discussed in the section entitled “*Material U.S. F a ESM*”

Table of Contents

CLEVELAND-CLIFFS INC. NOTICE OF SPECIAL MEETING OF SHAREHOLDERS TO BE HELD ON [] , 2020 AT []

NOTICE IS HEREBY GIVEN that a special meeting of shareholders of Cleveland-Cliffs Inc., which is referred to as Cliffs, will be held on [], 2020, at [] Eastern Time at [], for the following purposes:

- to consider and vote on a proposal to approve the Merger

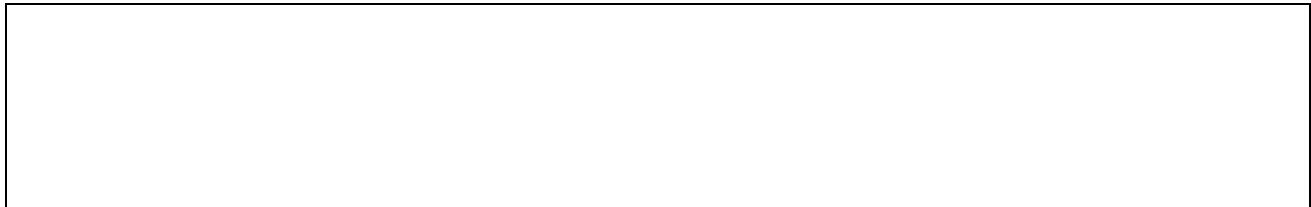


Tabela de Classificação da Cona

[Table of Contents](#)

Your vote is im

[Table of Contents](#)

AK Steel. AK Steel stockhâ

Table of Contents

to receive 0.400 Cliffs common shares, which is referred to as the merger consideration, and such ratio is referred to as the exchange ratio.

1. If you would otherwise be entitled to receive a fractional Cliffs common share, you will receive cash in lieu of such fractional share, and you will not be entitled to dividends, voting rights or any other rights in respect of such fractional share.

For more information regarding the merger consideration to be provided to AK Steel stockholders, see the section entitled “*The Merger Consideration to AK Steel Stockholders*” beginning on page []. For more information regarding exchange pro

Table of Contents

your proxy card in the enclosed postage-paid envelope, you d ~ M

[Table of Contents](#)

Q: What should I do if I receive more than one set of voting materials?

A:
At your

Table of Contents

Q: Who will solicit and pay the cost of soliciting proxies?

A: *Cliffs*. The Cliffs board is soliciting proxies from Cliffs shareholders in connection with the Cliffs special meeting. Cliffs will bear the cost of
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[**Table of Contents**](#)

Q: I

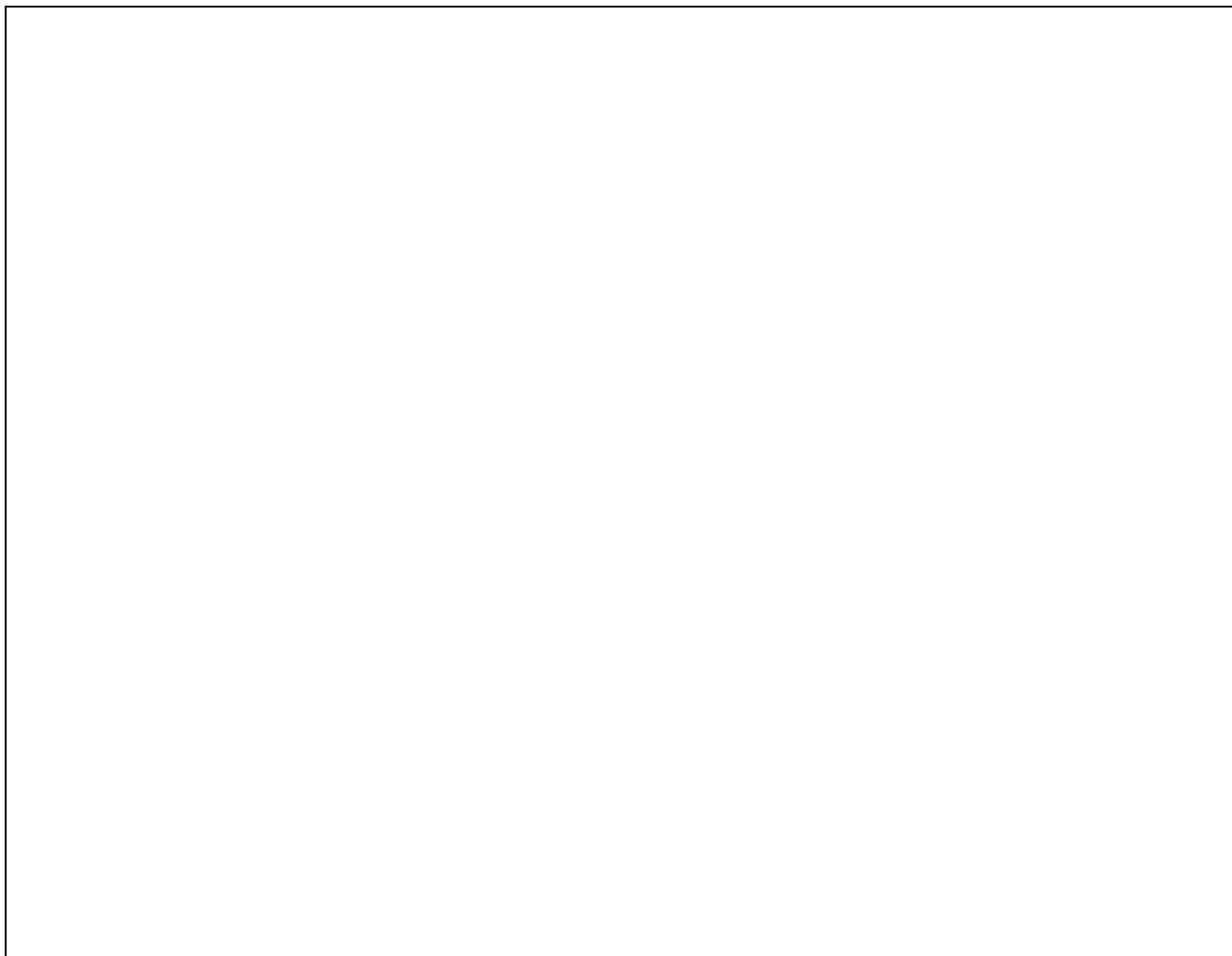


Table of Contents

Approval of the CI

[Table of Contents](#)

Directors of Cliffs Following the Merger

The Cliffs board is currently

Table of Contents

AK Steel Restrictions on Changes of Recommendation

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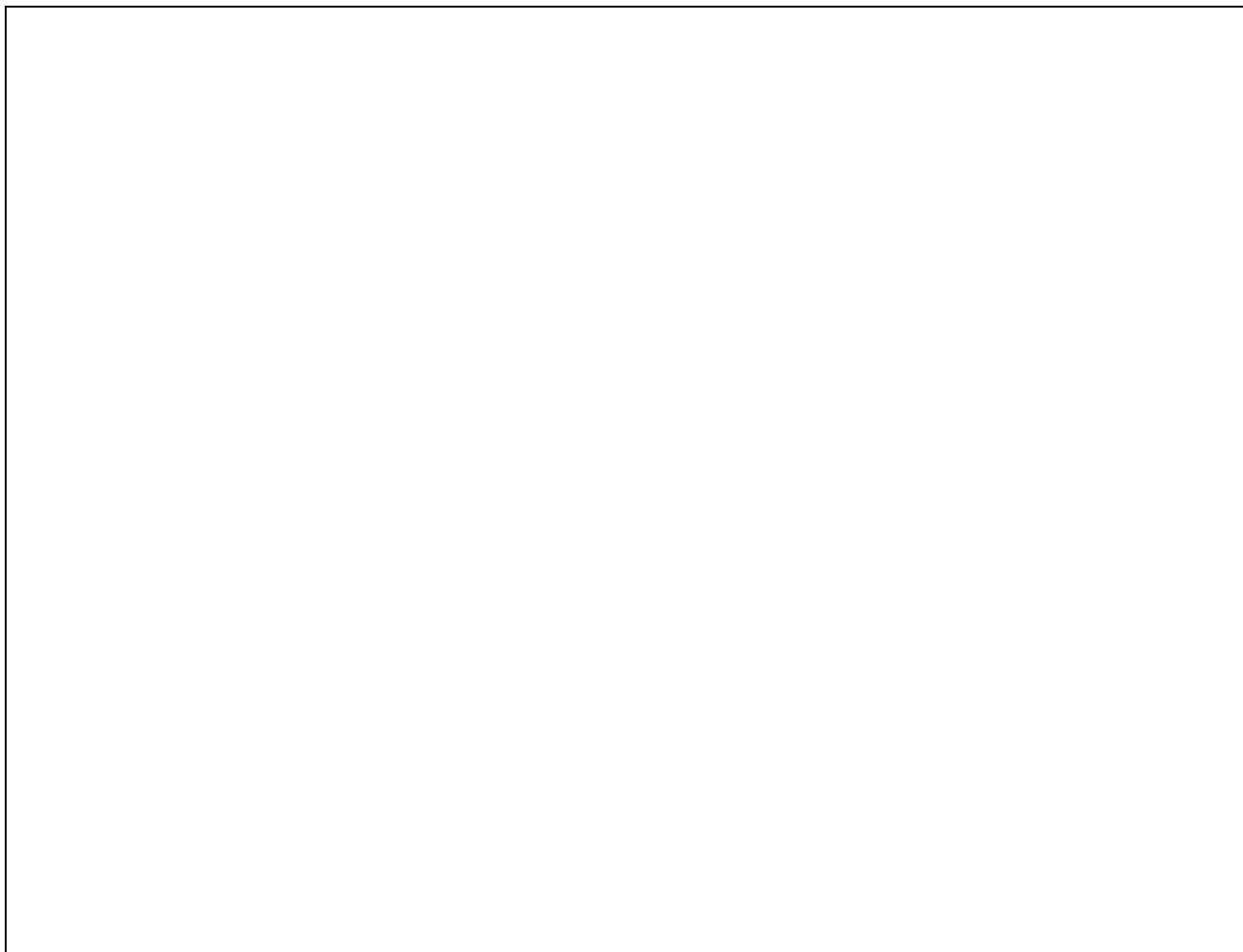


Table of Contents

- if there is a breach of any representation, warranty, covenant or agreement made by Cliffs or Merger Sub in the Merger Agreement, or any such representation and warranty ovsonty c

Table of Contents

notification forms and a joint request for an Advance Ruling Certificate with the Canadian Commissioner of Competition. On January 6, 2020, Cliffs and AK Steel su

Table of Contents

2 AK Steel Corporation	Year Ended December 31,					Nine Months Ended	
	2018	2017	2016	2015	2014	September 30,	2019
	(in millions, except for per share amounts or as otherwise noted)						
Cash dividends declared to AK Steel stockholders							
- Per share	\$—	\$—	\$—	\$—	\$—	\$—	\$—
- Total	\$—	\$—	\$—	\$—	\$—	\$—	\$—b0, oo a che

(a) In the nine months ended September 30, 2019, AK Steel recorded a charge of \$77.4 million (\$0j

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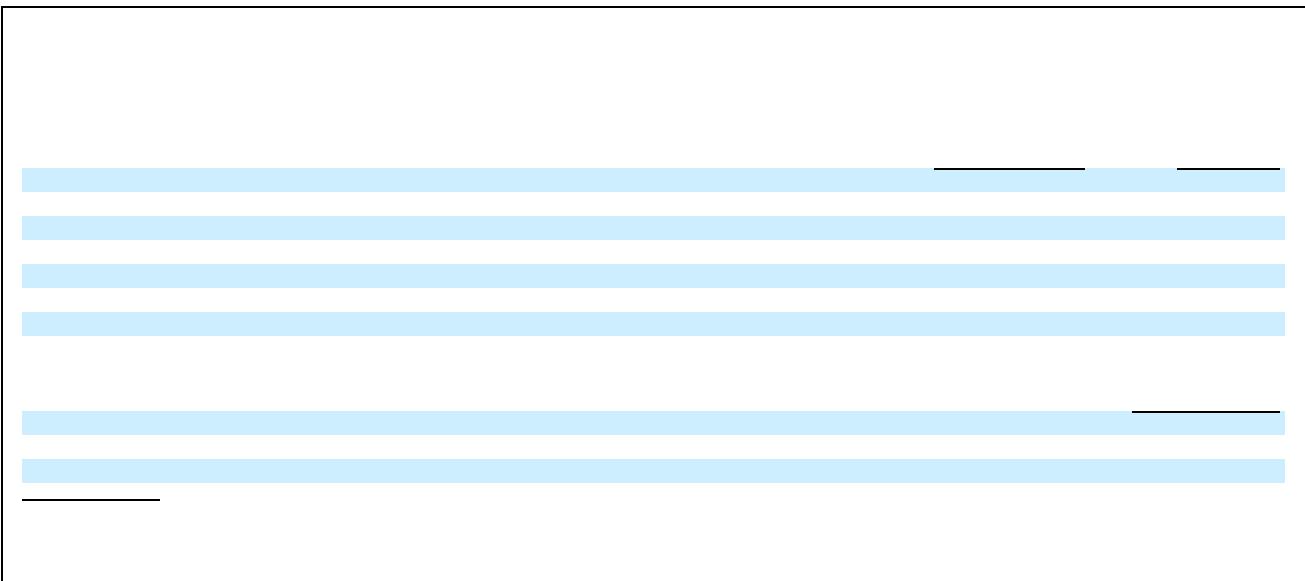
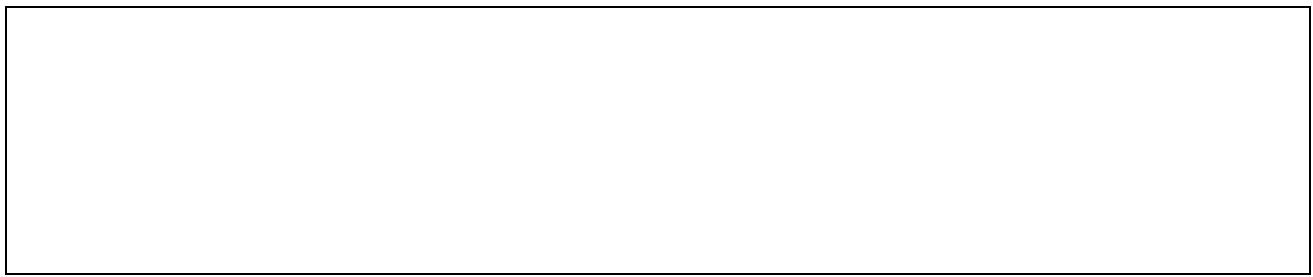


Table of Contents

**Comparative Historical and Unaudited Pro Forma Statement of Schedule and Total
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Parameter	Value
Sample Size	1000
Mean	50
Standard Deviation	10
Min Value	10
Max Value	90



[Table of Contents](#)

Former AK Steel stockholders will have a lesser ownership and vot

Table of Contents

proxy statement/prospectus. In addition, the assumptions used

[Table of Contents](#)

The ability to use AK Steel's " "

Table of Contents**SPECIAL MEETING OF CLIFFS SHAREHOLDERS*****Date, Time and Place***

The Cliffs special meeting will be held at [] Eastern Time on [], 2020, at [].

Purpose of the Cliffs Special Meeting

The purpose of the Cliffs special meeting is as fo m

[**Table of Contents**](#)

Table of Contents

[Table of Contents](#)

Over the past several

[Table of Contents](#)

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Table of Contents

During early October 2019, Cliffs informed its legal counsel, Jones Day, that Cliffs was considering the potential acquisition of AK Steel in its entity. Cliffs also informed Moelis of, and commenced working with Moelis in connection with, the potential transaction. Cliffs subsequently entered into an engagement letter with Moelis dated November 27, 2019.

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Table of Contents

transaction. During the meeting, members of AK Steel management also discussed with the AK Steel board their preliminary synergy assessments as well as certain considerations with respect to AK Steel's and the combined company's indebtedness. Representatives of Goldman Sachs also reviewed with the AK Steel board a comparison of Cliffs' and AK Steel's relative trading and market performance. Following these discussions, the AK Steel board agreed that a transaction with Cliffs could be beneficial to AK Steel stockholders, but that the proposed exchange ratio was too low for the board to conclude that such a combination would be in the best interests of AK Steel stockholders. After receiving and considering advice from its advisors, the AK Steel board discussed its initial view that an appropriate pro forma ownership for the combined company would involve AK Steel stockholders owning in the mid-30 percent range of the outstanding stock.

Table of Contents

Cliffs board reviewed and discussed Cliffs' five-year business plan. Follo

Table of Contents

During a follow-up call on the morning of November 22, 2019, Messrs. Newport and

Table of Contents

On November 25, 2019, Mr. Goncalves sent Messrs. Michael and Newport a reva

Table of Contents

During the evening of November 26, Messrs. Newport and Michael held a teleconference call with Mr. Goncalves to provide a response to the November 13, 2013 letter from Mr. Goncalves. At the end of the call, Mr. Goncalves indicated that he would be willing to consider the potential transaction if the AK Steel board were willing to consider a potential transaction with an exchange ratio of 0.400, which would result in AK Steel stockholders having approximately a 32% pro forma ownership interest in the combined company. Messrs. Newport and Michael also expressed the AK Steel board's ongoing interest in Cliffs including a cash component in the consideration or otherwise providing greater certainty in value to AK Steel stockholders through a combination and exchange ratios but Mr. Goncalves indicated that the concepts of a cash component or exchange ratio had no real value in Cliffs' view. Messrs. Newport and Michael

[Table of Contents](#)

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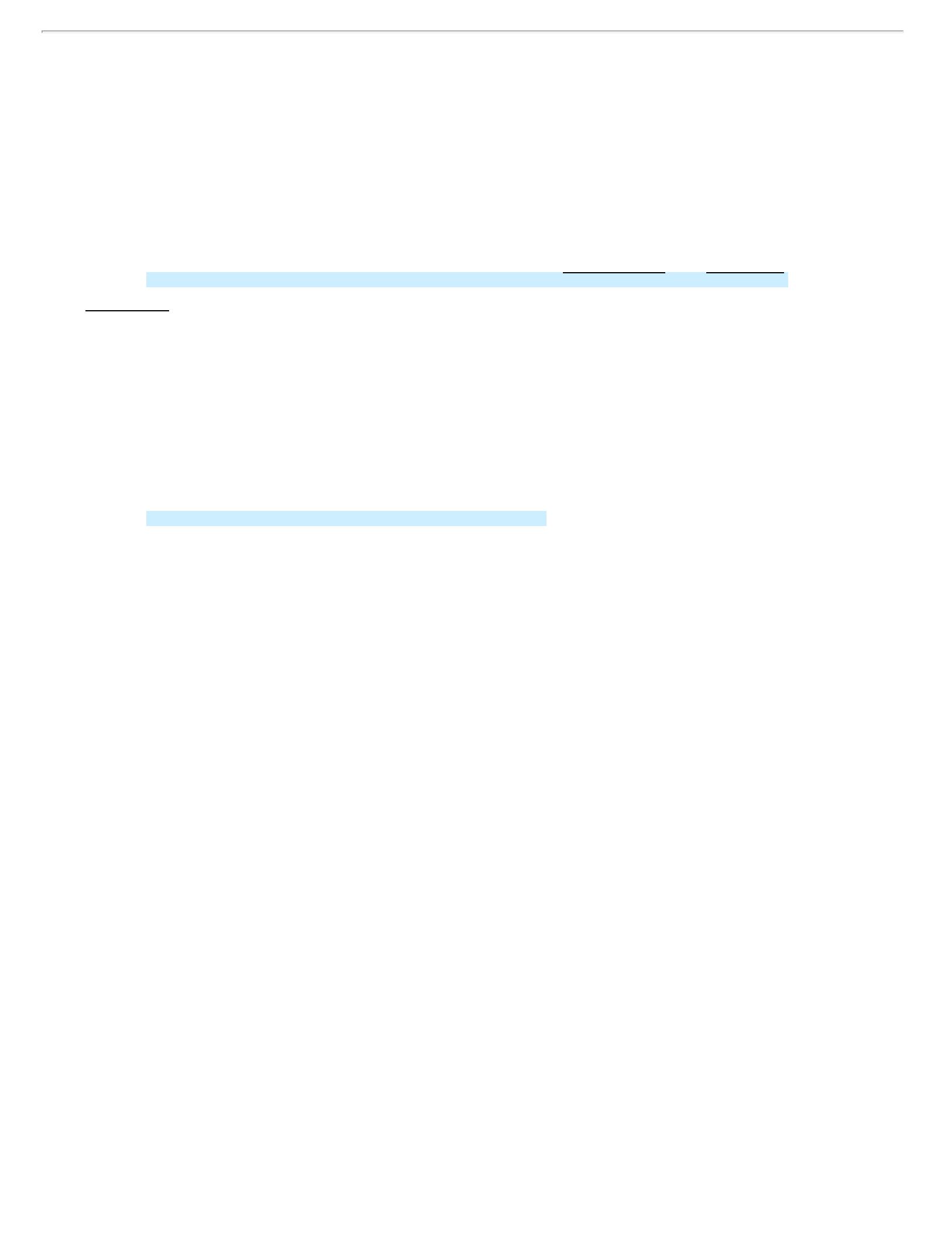


Table of Contents

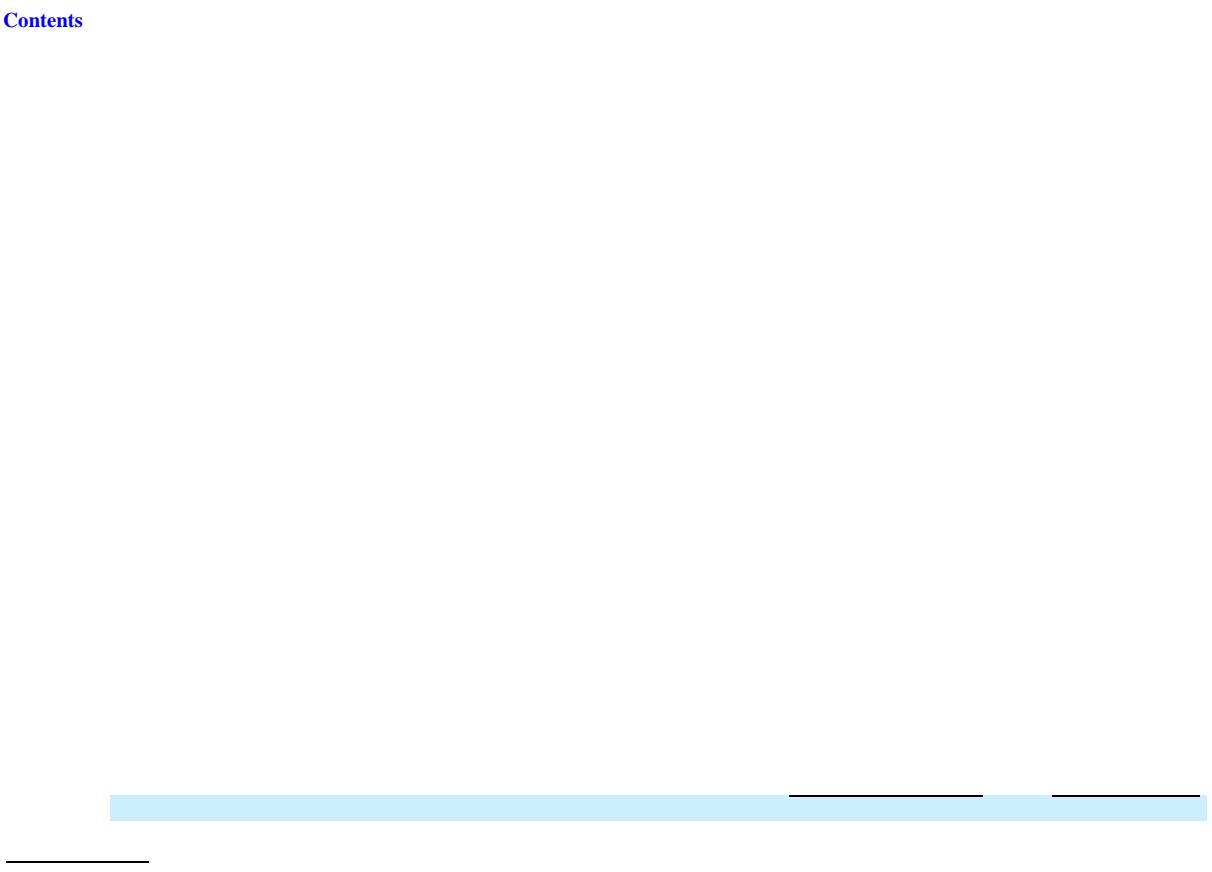




Table of Contents

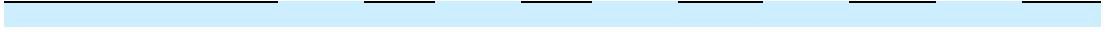
- Moelis reviewed the average implied exchange ratio implied by the trading prices of the Cliffs common shares and AK Steel common stock over the five-year, three-year, one-year, six-months and three-months periods ended November 29, 2019 as well as for the period since the meeting of the Cliffs board on October 18, 2019 as set forth in the fth
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Table of Contents

Interests of AK Steel Directors and Executive Officers in the Merger—Merger-Related Compensation for AK Steel's Named Executive Officers" beginning **Item 1B**

Table of Contents

- annual reports to stockholders and Annual Reports on Form 10-K of AK Steel and Cliffs for the five years ended December 31, 2

Table of Contents

- \$2.50, the VWVWA's onprac



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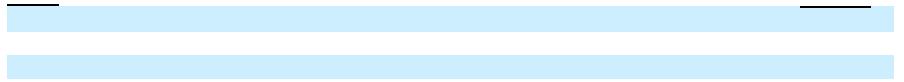


Table of Contents

the prices at which businesses or securities actually may be sold. Analyses based upon projections of future results are not necessarily indicative of actual future results, which may be significantly more or less favorable than suggested by these analyses. Because these analyses are inherently subject to uncertainty, being based upon numerous factors or events beyond the control of the parties or their respective advisors, none of AK Steel, Cliffs, Goldman Sachs or any other person assumes responsibility if future results are materially different from those forecast.

The merger consideration was determined through arm's-length negotiations between AK Steel and Cliffs and the Merger Agreement, including AK through

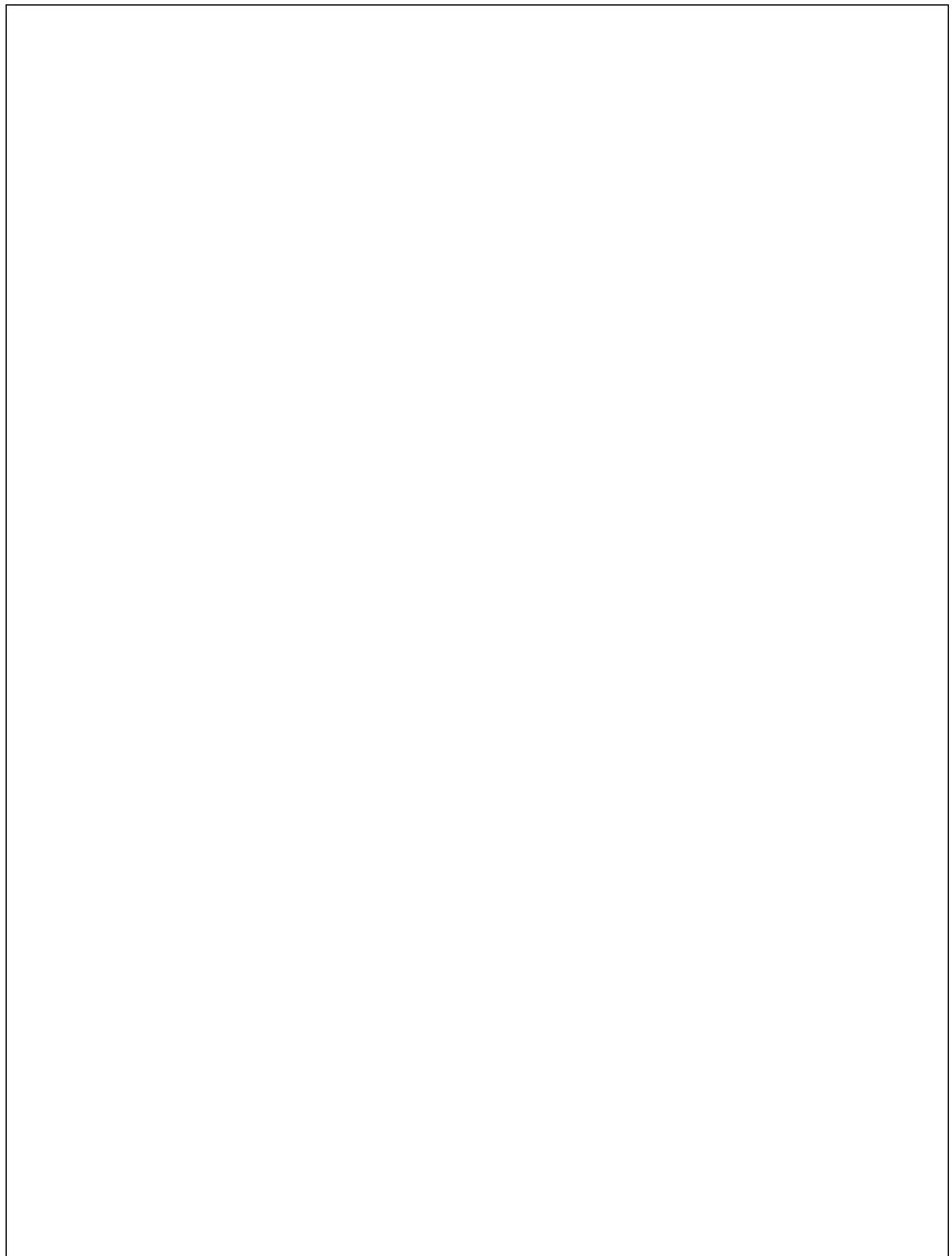


Table of Contents



[Table of Contents](#)

The AK Steel RSUs gra

Table of Contents

inconsistent with the executive's qualifications to perform such duties or a demotion from the executive's status as an executive officer of AK Steel; (2) diminution in job responsibilities, authorities, title, position, or reporting relationships as re

[Table of Contents](#)

The “named exec

[Table of Contents](#)

closing of the Merli



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[Table of Contents](#)

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[Table of Contents](#)

- validit

Table of Contents

- real and personal property;
- intellectual property matters; and
- the absence of any undisclosed broker's orhy

Table of Contents

Table of Contents

- forgive any loans, or issue any loans (other than routine advances issued in the ordinary course of business) to any of its or its
subsidiar r its or i lt

Table of Contents

In addition to the operational reports, the following information is included:

[Table of Contents](#)

connection with th â

[Table of Contents](#)

- any acquisition by a third party re

Table of Contents

required supplement or amendment to this joint proxy statement/prospectus is provided to Cliffs shareholders within a reasonable amount of time.

[Table of Contents](#)

contemplated by thÂtemp

Table III

Table of Contents

Cliffs will, or will cause the surviving corporation or their applicable subsidiarie

Table of Contents

Steel special meeting (in the case of an AK Steel stockholder approval termination event) and (iii) within 12 months after such termination:

- the AK Steel board recommends that AK Steel stockholders vote in favor of or tend sōt an AK Steeft¹ h

[Table of Contents](#)

The indemnif

Table of Contents

MATERIAL U.S. FEDERAL INCOME TAX CONSEQUENCES OF THE MERGER

This section is the opinion of Weil, legal counsel to AK Steel, as to the material United States federal income tax consequences of the Merger to U.S. holders (as defined below) of shares of AK Steel common stock.

Table of Contents

common shares received in the Merger, including any fractional Cliffs common shares for which cash is received, equal to such holder's aggregate
adv

Table of Contents

UNAUDITED PRO FORMA CONDENSED COMBINED FINANCIAL STATEMENTS

On December 2, 2019, Cliffs, Merger Sub a

Table of Contents

The unaudited

Table of

[**Table of Contents**](#)

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[**AK Steel Stockhold**](#)

[Table of Contents](#)

[AK St](#) _____

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[**AK Steel Stockhold**](#)

Table of Contents

AK Steel Stockholders

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Table of Contents

corporation, (ii) ib

AK Steel Stockholders**Cliffs Shareholders**

Table of Contents

APPRAISAL RIGHTS

In accordance with Section 262 of the DGCL and Section 1701.84 of the ORC, no appraisal rights will be available to the holder(s) of



[**Table of Contents**](#)

SHAREHOLDER ANR

Table of Contents

AGREEMENT AND PLAN OF MERGER

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[Table of Contents](#)

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[**Table of Contents**](#)

Table of Contents

Table

Table of Contents

(iii) Except as would not result in, indi

Table of Contents

(j) Takeover Statutes

[**Table of Contents**](#)

its Subsidiaries

Table of Contents

whistleblower hot line or equivalent system for receipt of employee concerns regarding possible violations of Law, that remain outstanding or unresolved.

(ii) Parent maintains disclosure controls and procedures required by Rule 13a-15, or 15d^b under the Securities Exchange Act. Such disclosure controls and procedures are reasonably designed to ensure that all material information required to be disclosed by Parent is recorded and reported on a timely basis. Such individuals responsible for the preparation of financial statements with the SEC and other public disclosure documents. Parent maintains internal control over financial reporting (as defined in and meeting the requirements of Rule 13a-15).

Table of Contents

(g) Litigation and Liabilities. There are no civil, criminal or administrative actions, suits, claims, hearings, arbitrations, in what

Table of Contents

(vii) enter into any agreement with respect to the h

Table of Contents

(xv) transfer, sell, lease, license, mortgage, pledge, surrender, encumbnrum

[**Table of Contents**](#)

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Table of Contents

- (iii) enter into any agreement in principle, letter of intent, term sheet, merger

Table of

Table of Contents

material terms and conditions of any such Company Acquisition Proposal or Parent Acquisition Proposal, inquiry, proposal, offer or request, copies of any material written communications and draft documentationls

Table of Contents

Company Benefit Plans in which such Company Employee participated immediately before the consummation of the transactions contemplated hereby (such plans, collectively, the “Old Plans”), and (ii) for purposes of each New Plan providing medical, dental, pharmaceutical or vision benefits to any Company Employee, Parent will cause all pre-existing condition exclusions and actively-at-work

Table of Contents

compensation or benefit plan, program, arrangement, policy or contract, or (iv) prevent Parent, the Company, or any of their Affiliates from amending or terminating any of their benefit plans in accordance with their terms. Notwithstanding any provision in this Agreement to the contrary, nothing in this Section 6.10 will create any third party beneficiary

Table of Contents

promptly notify the Company in writing and (B) Parent shall, and shall cause each of its Subsidiaries to, use its reasonable best efforts to obtain, as promptly as practicable following the occurrence of such event, alternative financing for any such portion from alternative sources (the “

Table of Contents

OR OTHERWISE, THAT SUCH OTHER PARTY ~ h

[**Table of Contents**](#)

of

Table of Contents

Corporation, as

Table of Contents

its Subsidiaries, taken as a whole, or (b) any acquisition by a Third Party resulting in, or proposal or offer (including any tender offer or exchange offer) from a Third Party that if consummated would result in, a Third Party becoming the beneficial owner of, directly or indirectly, in one transaction or a series of related transactions, (i) 50%ons, (try ions,

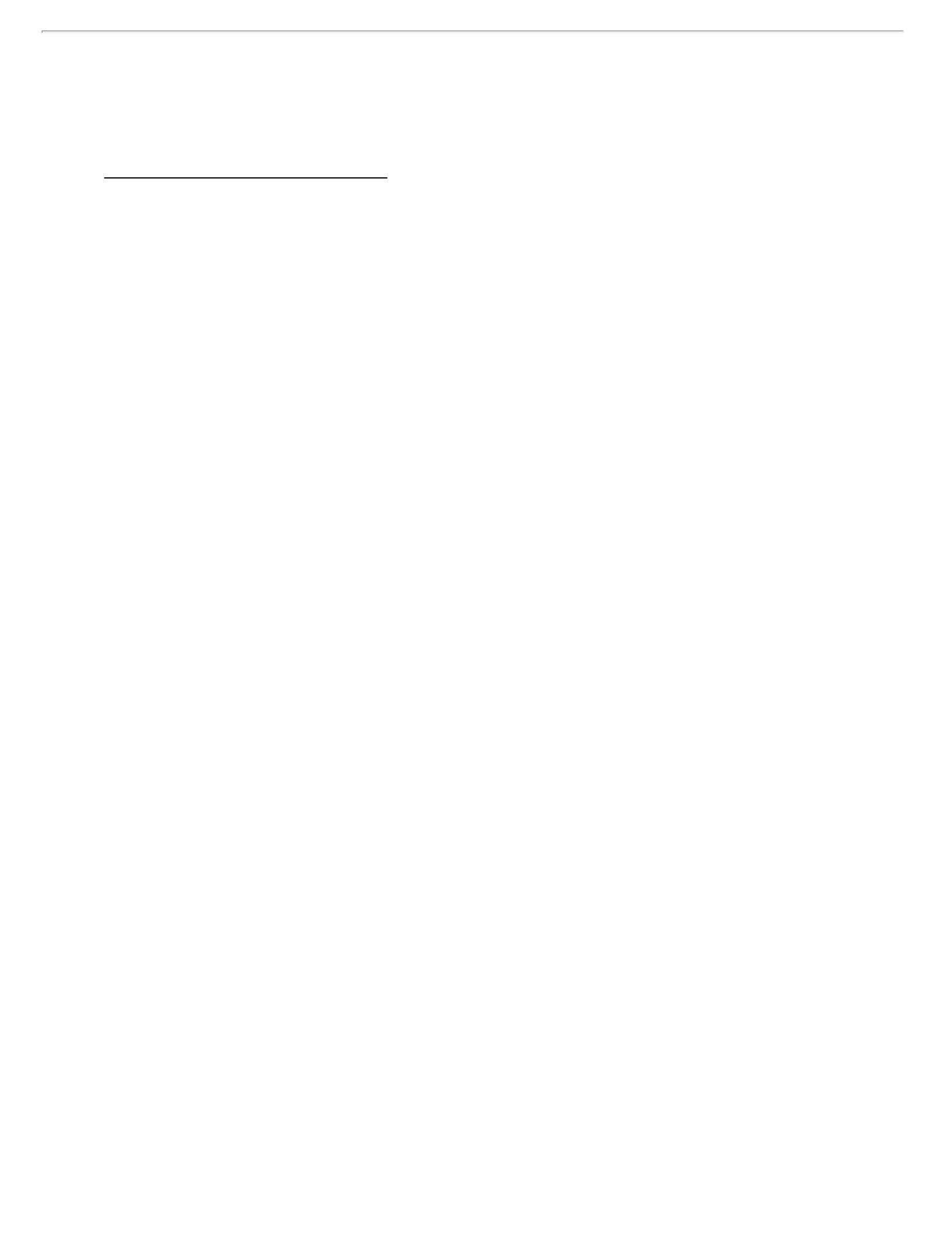


Table of Contents

IN WIT

ANNEX B

[REDACTED]

December 2, 2019

Board of Directors
Cleveland-Cliffs Inc.
200 Public Square, Suite 3300
Cleveland, Ohio 44114-2315

Ladies and Gentlemen:

You have requested our opinion as to the fairness, from a financial point of view, to Cleveland-Cliffs Inc. (“Parent”) of the Exchange Ratio (as defined below) pursuant to the Agreement and Plan of Merger (the “Agreement”) to be entered into among AK Steel Holding Corporation (the “Company”), Parent and Pepper Merger Sub Inc., a direct wholly owned subsidiary of Parent (“Merger Sub”). As more fully described in the Agreement, Merger Sub will be merged with and into the Company (the “Transaction”) and each issued and outstanding share of common stock, par value \$0.01 per share (“Company Common Stock”), of the Company (other than Company Restricted Shares (as defined [REDACTED] fine'd fine'd fine'uts' [REDACTED])

PERSONAL AND CONFIDENTIAL

December 2, 2019

Board of Directors
AK Steel Holding Corporation
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[**Table of Contents**](#)

[**Table of Contents**](#)

Signature

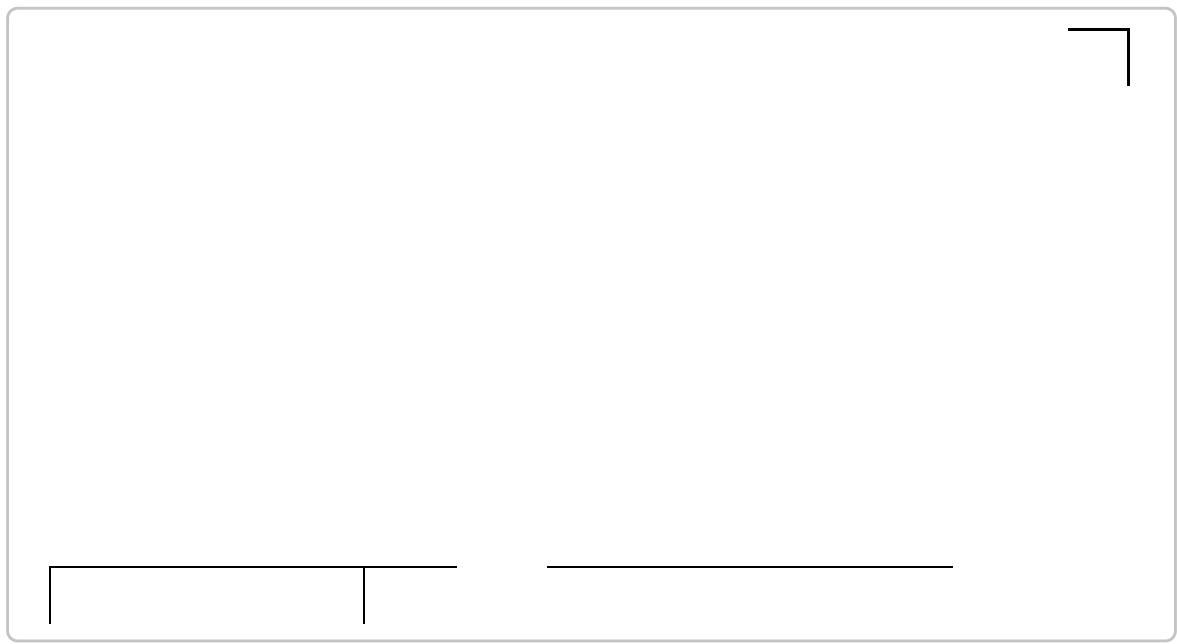
CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

[REDACTED]

January 8, 2

January 8, 2020

Board of Directors
AK Steel



PRELIMINARY -- SUM

