

NORTHWEST NATURAL GAS COMPANY  
 AFFILIATED INTEREST REPORT  
 FOR THE CALENDAR YEAR ENDING DECEMBER 31, 2017

**WAC 480-90-264 (1)**

***An organization chart of the utility and its affiliated interests and subsidiaries.***

See the Organizational Chart 1 of Northwest Natural Gas Company (“NWN”) attached to this Affiliated Interest Report. As reflected in Organizational Chart 1, in December 2017, NWN formed a wholly-owned subsidiary “NW Natural Water Company, LLC,” and its wholly owned subsidiary “FWC Merger Sub, Inc.”, for purposes of completing the acquisition of one or more water companies.

**WAC 480-90-264 (2)**

**The name of the affiliated interest or subsidiary participating in the transaction and the total dollar amounts of the transactions.**

(A) Total service payments by the utility to the affiliate:

<b>Name of Affiliate</b>	<b>Total Service Payments</b>	<b>Washington Service Payments</b>
<b>NNGFC &amp; KB Pipeline</b>	224,258	24,220
<b>Gill Ranch</b>	656	71
<b>NWN Gas Storage</b>	430,162	46,457

(B) Total service payments by the affiliate to the utility:

<b>Name of Affiliate</b>	<b>Total Service Payments</b>	<b>Washington Service Payments</b>
<b>NNGFC &amp; KB Pipeline</b>	40,437	4,367
<b>NWN Energy</b>	70,596	7,625
<b>NWN Gas Storage</b>	923,001	99,684
<b>Gill Ranch Storage</b>	618,964	66,848
<b>Trail West Holdings</b>	11,880	1,283

**WAC 480-90-264 (2)(a)**

**A balance sheet and income statement for such affiliated interest.  
[Transactions that equal or exceed \$100,000]**

See NWN's affiliated interest financial statements ("Confidential Exhibit A") attached to this Affiliated Interest Report.

**WAC 480-90-264 (2)(b)**

**A description of the products or services provided to or from the utility and each such affiliated interest or subsidiary. [Transactions that equal or exceed \$100,000]**

In addition to the information provided immediately above, see also the discussions under the section entitled WAC 480-90-264(2)(f) below, and the Cost Allocation Manual ("Appendix A") included as an appendix to this Affiliated Interest Report.

**WAC 480-90-264 (2)(c)**

**A description of the pricing basis or costing method, and procedures for allocating costs for such products or services, and the amount and accounts charged during the year. [Transactions that equal or exceed \$100,000]**

In addition to the information provided below, see the Cost Allocation Manual ("Appendix A") included as an appendix to this Affiliated Interest Report for further descriptions of the pricing basis or costing method of each affiliated interest or subsidiary with which NWN has transactions.

**WAC 480-90-264 (2)(d)**

**A description of the terms of any loans between the utility and each such affiliated interest or subsidiary and a listing of the year-end loan amounts and maximum loan amounts outstanding during the year. [Transactions that equal or exceed \$100,000]**

Short-term loans:

None.

Long-term loans:

None.

**WAC 480-90-264 (2)(e)**

**A description of the terms and total amount of any obligation or liability assumed by the utility for each such affiliated interest or subsidiary. [Transactions that equal or exceed \$100,000]**

Description of basis of tax pricing, when applicable:

NWN files and pays taxes on a consolidated basis with its subsidiaries. For any taxable year, these subsidiaries have income and expenses, which cause NWN's consolidated tax liability to increase or decrease. Monthly payments are made to or from NWN to the extent the operations have income or losses.

Transfer of Obligation (Right) or Liability (Asset) Assumed by the Utility:

<b>Name of Affiliate</b>	<b>Total Transfer</b>	<b>Washington Allocation of Transfer</b>
<b>NNGFC &amp; KB Pipeline</b>	132,956	14,359
<b>NWN Energy</b>	(135,000)	(14,580)
<b>NWN Gas Storage</b>	(19,000)	(2,052)
<b>Gill Ranch Storage</b>	(1,809,000)	(195,372)

**WAC 480-90-264 (2)(f)**

**A description of the activities of each such affiliated interest or subsidiary with which the utility has transactions. [Transactions that equal or exceed \$100,000]**

In addition to the information provided below, see the Cost Allocation Manual ("Appendix A") included as an appendix to this Affiliated Interest Report for further descriptions of the activities of each affiliated interest or subsidiary with which NWN has transactions.

**NNG Financial Corporation**

NNG Financial Corporation ("NNGFC") owns 100% of the stock of KB Pipeline Company ("KBPC"). See KBPC activities described below.

Affiliated transactions between NWN and NNGFC generally include:

- Allocations of NWN's payroll and administrative expense for NNGFC's use of NWN staff;
- Vendor payments made by NWN on behalf of NNGFC, which are then subsequently charged to NNGFC and reimbursed to NWN through intercompany billings;
- Equity distributions/contributions between NWN and NNGFC
- Payments between NWN and NNGFC for NNGFC's current tax expense or benefit; and
- Payments from NWN to NNGFC for KBPC demand and commodity transportation charges.

### **KB Pipeline Company**

KB Pipeline Company (“KBPC”) is a wholly-owned subsidiary of NNG Financial Corporation (“NNGFC”). KBPC owns a 10% interest in, and is the former operator of, an interstate natural gas pipeline known as the Kelso-Beaver Pipeline. The pipeline runs between Kelso, Washington and Clatskanie, Oregon, and is regulated by the Federal Energy Regulatory Commission (“FERC”). The other owners of the Kelso-Beaver Pipeline are Portland General Electric Company (“PGE”) (79.5%) and B-R Pipeline Company (10.5%). Each of the co-owners has a separate FERC certificate regarding the ownership and transportation of gas on its share of the pipeline. Pursuant to a memorandum from the Public Utility Commission of Oregon, dated October 15, 1992, KBPC is not required to file a separate affiliated interest report to the OPUC under OAR 860-27-040.

In 1991, FERC issued KBPC a certificate of public convenience and necessity under Part 157 of its regulations to construct, own, and transport gas for NWN using its 10% share of the capacity of the Kelso-Beaver Pipeline at FERC-approved rates. See, *Portland General Electric Co.*, 57 FERC ¶ 61,095 (1991), amended, 57 FERC ¶ 61,312 (1991). Currently, KBPC’s share of the pipeline is not open access so it may only provide transportation service to NWN. NWN and KBPC are parties to a gas transportation agreement with respect to such transportation service, whereby the Kelso-Beaver Pipeline is obligated to receive and deliver a specified amount of natural gas from NWN in exchange for a demand charge and a volumetric fee.

KBPC has no separate employees of its own. It uses employees shared with NWN to accomplish its *de minimus* business functions. In terms of the FERC Standards of Conduct (“SOC”) regulations that apply to relationships between transmission providers and their marketing and energy affiliates, since 2008, in Order No. 717, FERC concluded that the revised SOC rules do not apply to non-open access interstate pipelines that are certificated only under Part 157 of FERC’s regulations, such as KBPC’s share of the Kelso-Beaver Pipeline. Given this, KBPC is not required to comply with the current FERC SOC regulations with respect to its affiliated relationship with NWN, and KBPC and NWN may continue to share employees as necessary to conduct the business of KBPC.

Effective December 1, 2004, KBPC resigned as operator of the Kelso-Beaver Pipeline. Since that date, certain operator responsibilities were handled under contract by Cascade Natural Gas Corporation (“Cascade”), which is not affiliated with any of the co-owners. Cascade resigned as the operator effective December 31, 2010, and since that time, co-owner Portland General Electric (“PGE”) has assumed the operator responsibilities for the pipeline.

### **Northwest Energy Corporation**

NWN wholly owns Northwest Energy Corporation (“NW Energy Corp”), which was formed in 2001 to serve as the holding company for NWN and PGE in the event that the proposed acquisition of PGE was completed. However, the acquisition effort was terminated in May 2002, and the corporation remained dormant until 2013. Since 2013, NW Energy Corp has served as the holding company for NWN Gas Reserves LLC.

Affiliated transactions between NWN and NW Energy Corp generally include:

- Equity distributions/contributions between NWN and NW Energy Corp; and
- Payments between NWN and NW Energy Corp for NW Energy Corp’s current tax expense or benefit.

### **Northwest Energy Sub Corporation**

Northwest Energy Sub Corporation (“NW Energy Sub”) is a subsidiary of Northwest Energy Corporation, and was formed in 2001 to be a holding company in the event that the acquisition of PGE was completed. The corporation has remained dormant since its foundation, and Articles of Dissolution were filed with respect to the Corporation on March 6, 2018.

### **NWN Gas Reserves LLC**

NWN Gas Reserves LLC (“NWN Gas Reserves”) is a wholly owned subsidiary of Northwest Energy Corporation and was formed in December 2012. In 2013, NWN’s working interest in the Jonah gas field was transferred to this entity. The agreements related to the working interest were amended in 2014 to facilitate Encana Oil & Gas (USA) Inc.’s sale of its interest in the Jonah Field to an affiliate of TPG Capital. The agreements related to the working interest were again amended in 2016 to further clarify the terms related to additional well development and capital expenditures.

Affiliated transactions between NWN, NW Energy Corp and NWN Gas Reserves generally include:

- Equity distributions/contributions between NWN and NW Energy Corp and/or NWN Gas Reserves LLC

### **Northwest Biogas, LLC**

NWN owns a 50% membership interest in NW Biogas. NWN also serves as the Managing Member. The other 50% membership interest is owned by BEF Renewable Incorporated. NW Biogas previously developed and operates a demonstration biodigester located at Three Mile Canyon Farms in Boardman, Oregon. In 2017, NW Biogas began leasing the previously used demonstration biodigester to an unaffiliated third party.

### **NW Natural Energy, LLC**

NWN wholly owns NW Natural Energy, LLC (“NWN Energy”) which was formed in 2009 to own NW Natural Gas Storage, LLC (“NWN Gas Storage”) and other non-utility businesses.

Affiliated transactions between NWN and NWN Energy generally include:

- NWN Energy’s use of NWN’s administrative and operating staff;
- Vendor payments made by NWN on behalf of NWN Energy, which are then subsequently charged to NWN Energy and reimbursed to NWN through intercompany billings;
- Equity distributions/contributions between NWN and NWN Energy; and
- Payments between NWN and NWN Energy for NWN Energy’s current tax expense or benefit.

### **NW Natural Gas Storage, LLC**

NWN Energy wholly owns NWN Gas Storage, which was formed in 2009. The entity owns and manages non-utility gas storage interests.

Affiliated transactions between NWN and NWN Gas Storage generally include:

- NWN Gas Storage’s use of NWN’s administrative and operating staff;
- Vendor payments made by NWN on behalf of NWN Gas Storage, which are then subsequently charged to NWN Gas Storage and reimbursed by NWN Gas Storage’s subsidiary, Gill Ranch Storage, LLC (“GRS”);

- Primarily D&O fiduciary and workers' compensation insurance is purchased by NWN, and is subsequently charged to NWN Gas Storage and reimbursed to NWN through intercompany billings; and
- Payments between NWN and NWN Gas Storage for NWN Gas Storage's current tax expense or benefit.

### **Gill Ranch Storage, LLC**

GRS was formed in 2007. In 2007, GRS entered into a Joint Project Agreement with Pacific Gas & Electric Company ("PG&E") to develop and own the Gill Ranch underground natural gas storage facility near Fresno, California. Currently, GRS owns 75% undivided ownership interest in this facility and is the sole operator of the facility. PG&E owns 25% undivided ownership interest. Ownership in the facility is structured as tenants in common. GRS owns rights of 75% of the available storage capacity at the facility. GRS's share is designed to provide 15 Bcf of working gas capacity. The facility began operations in the fourth quarter of 2010.

GRS is subject to California Public Utility Commission ("CPUC") regulation with respect to the gas storage services it provides, but it has market-based rate authority with respect to the rates for its services offered in the California market. In addition, GRS is subject to regulation by the CPUC for certain activities, including but not limited to the issuance of securities, operation of the facility, certain terms of customer services, systems of accounts, the nature of investments it may make, safety standards, and transactions with affiliated interests. Accounting records and practices of its regulated business conform to the requirements and uniform system of accounts prescribed by its regulatory authority in accordance with U.S. GAAP.

Affiliated transactions between NWN and GRS generally include:

- GRS's use of NWN's administrative and operating staff;
- Vendor payments made by NWN on behalf of GRS and subsequently reimbursed by GRS through intercompany billings;
- Primarily general liability and D&O insurance is purchased by NWN, and is subsequently charged to GRS and reimbursed to NWN through intercompany billings; and
- Payments between NWN and GRS for GRS's current tax expense or benefit.

### **Trail West Holdings, LLC (TWH)**

NW Natural Energy, LLC (“NWN Energy”) and TransCanada American Investment Ltd. (“TAIL”) each own a fifty percent (50%) membership interest in TWH. TWH wholly owns Trail West Pipeline, LLC (TWP), which is developing the cross-Cascades natural gas pipeline. See below for description of TWP.

Affiliated transactions between NWN/NWN Energy and TWH generally include:

- TWH’s use of NWN administrative and operating staff; and
- Because accounting is based on the equity method, TWH has no separate set of accounts except for dedicated nominal accounts in other income and expense on NWN Energy’s Income Statement, which includes non-billable expenses to TWH. The investment is tracked as “Other Investments” (124059);

### **Trail West Pipeline, LLC (TWP)**

TWP is a wholly-owned subsidiary of TWH, and has been pursuing the development of a proposed FERC-regulated cross-Cascades natural gas pipeline.

### **BL Credit Holdings, LLC**

BL Credit Holdings, LLC is a wholly-owned subsidiary of TWP.

### **NW Natural Water Company, LLC**

NW Natural Water Company, LLC (“NW Water”) is a subsidiary of NWN, and was formed in December 2017 to be a holding company in the event that NWN completes the acquisition of one or more water companies. The company has been dormant since its foundation.

### **FWC Merger Sub, Inc.**

FWC Merger Sub, Inc. is a subsidiary of NW Water, and was formed in December 2017 to be a merger subsidiary in the event that NWN completes the acquisition of an Idaho-based water company. The company has been dormant since its foundation.

**WAC 480-90-264 (2)(g)**

***A list of all common officers and directors between the gas utility and each such affiliated interest or subsidiary, along with their titles in each organization. [Transactions that equal or exceed \$100,000]***

**NORTHWEST NATURAL GAS COMPANY<sup>1</sup>**

**DIRECTORS**

Tod R. Hamachek, Chair	C. Scott Gibson
Timothy P. Boyle	David H. Anderson
Martha L. (“Stormy”) Byorum	Jane L. Peverett
John D. Carter	Kenneth Thrasher
Mark S. Dodson	Malia H. Wasson

**OFFICERS**

<u>Names</u>	<u>2017</u>
David H. Anderson	President and Chief Executive Officer
Frank H. Burkhartsmeier	Senior Vice President and Chief Financial Officer <sup>2</sup>
Lea Anne Doolittle	Senior Vice President and Chief Administrative Officer
MardiLyn Saathoff	Senior Vice President, Regulation and General Counsel
Grant M. Yoshihara	Senior Vice President, Utility Operations <sup>3</sup>
James Downing	Vice President and Chief Information Officer <sup>4</sup>
Shawn M. Filippi	Vice President, Corporate Secretary and Chief Compliance Officer

<sup>1</sup> Directors and Officers as of December 31, 2017. Changes that occurred during 2017 or after December 31, 2017, have been noted.

<sup>2</sup> Frank H. Burkhartsmeier was appointed Senior Vice President and Chief Financial Officer as of May 17, 2017.

<sup>3</sup> Mr. Yoshihara resigned as Senior Vice President, Utility Operations as of March 31, 2018. Upon Mr. Yoshihara’s retirement, Ms. Heiting became Senior Vice President, Operations and Chief Marketing Officer and Mr. Jon Huddleston was appointed as Vice President, Engineering and Utility Operations.

<sup>4</sup> Mr. Ngoni Murandu resigned as Vice President and Chief Information Officer as of April 28, 2017. Mr. Downing was appointed Vice President and Chief Information Officer as of September 18, 2017.

Kimberly A. Heiting	Vice President, Operations and Chief Marketing Officer <sup>5,3</sup>
Thomas J.M. Imeson	Vice President, Public Affairs
Justin Palfreyman	Vice President, Strategy and Business Development <sup>6</sup>
Lori L. Russell	Vice President, Utility Services
Brody J. Wilson	Vice President, Chief Accounting Officer, Controller, and Treasurer <sup>7</sup>

### **NNG FINANCIAL CORPORATION**

Wholly-owned subsidiary of Northwest Natural Gas Company  
 Type of operations: Financial  
 Year Created: 1984

#### BOARD OF DIRECTORS

David H. Anderson, Chair\*  
 MardiLyn Saathoff\*  
 Frank H. Burkhartsmeier\*

(\*Officer of NWN)

#### CHANGES IN MEMBERS OF THE BOARD

- Frank Burkhartsmeier replaced Brody J. Wilson as a director as of May 17, 2017.

#### OFFICERS OF THE CORPORATION

David H. Anderson*	President and Chief Executive Officer
Brody J. Wilson*	Treasurer and Controller
Shawn M. Filippi*	Corporate Secretary
Alison M. Pear	Assistant Corporate Secretary

(\*Officer of NWN)

#### CHANGES IN OFFICERS

- No changes.

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<sup>5</sup> Ms. Heiting was appointed Senior Vice President, Communications and Chief Marketing Officer as of January 1, 2018.

<sup>6</sup> Mr. Palfreyman was appointed Vice President, Strategy and Business Development as of February 23, 2017. Mr. Palfreyman had been previously serving as Vice President of Business Development.

<sup>7</sup> Mr. Wilson was appointed Vice President, Chief Accounting Officer, Controller, and Treasurer as of May 17, 2017. Mr. Wilson had been previously serving as Chief Financial Officer (interim), Treasurer (interim), Controller and Chief Accounting Officer.

## **KB PIPELINE COMPANY**

Wholly-owned subsidiary of NNG Financial Corporation  
Type of Operations: Gas Pipeline, Owner  
Year Created: 1991

### BOARD OF DIRECTORS

David H. Anderson, Chair\*  
Frank H. Burkhartsmeier\*  
MardiLyn Saathoff\*

(\*Officer of NWN)

### CHANGES IN MEMBERS OF THE BOARD

- Frank Burkhartsmeier replaced Brody J. Wilson as a director as of May 17, 2017.

### OFFICERS OF THE COMPANY

Grant M. Yoshihara*	President
Randolph S. Friedman	Vice President
Brody J. Wilson*	Treasurer and Controller
Shawn M. Filippi*	Corporate Secretary
Alison M. Pear	Assistant Corporate Secretary

(\*Officer of NWN)

### CHANGES IN OFFICERS

- J. Keith White resigned as President as of February 1, 2017.
- Grant M. Yoshihara was appointed President as of February 1, 2017 and retired effective March 31, 2018.
- David A. Weber was appointed President as of March 31, 2018.

## **NORTHWEST ENERGY CORPORATION**

Wholly-owned subsidiary of Northwest Natural Gas Company  
Type of Operations: Non-Operating Holding Company  
Year Created: 2001

### BOARD OF DIRECTORS

David H. Anderson, Chair\*  
Frank H. Burkhartsmeier\*  
MardiLyn Saathoff\*

(\*Officer of NWN)

### CHANGES IN MEMBERS OF THE BOARD

- Frank Burkhartsmeyer replaced Brody J. Wilson as a director as of May 17, 2017.

### OFFICERS OF THE CORPORATION

David H. Anderson*	President and Chief Executive Officer
Brody J. Wilson*	Treasurer and Controller
Shawn M. Filippi*	Corporate Secretary
Alison M. Pear	Assistant Corporate Secretary

(\*Officer of NWN)

### CHANGES IN OFFICERS

- No changes.

## **NORTHWEST ENERGY SUB CORPORATION**

Wholly-owned subsidiary of Northwest Energy Corporation  
Type of Operations: Non-Operating Merger Sub Corporation  
Year Created: 2001  
Articles of Dissolution Filed: March 6, 2018

### BOARD OF DIRECTORS

David H. Anderson, Chair\*  
Frank H. Burkhartsmeyer\*  
MardiLyn Saathoff\*

(\*Officer of NWN)

### CHANGES IN MEMBERS OF THE BOARD

- Frank Burkhartsmeyer replaced Brody J. Wilson as a director as of May 17, 2017.

### OFFICERS OF THE CORPORATION

David H. Anderson*	President and Chief Executive Officer
Brody J. Wilson*	Treasurer and Controller
Shawn M. Filippi*	Corporate Secretary
Alison M. Pear	Assistant Corporate Secretary

(\*Officer of NWN)

### CHANGES IN OFFICERS

- No changes.

## **NWN GAS RESERVES LLC**

Wholly-owned subsidiary of Northwest Energy Corporation  
Type of Operations: Natural Gas Reserves Development  
Year Created: 2013

### MANAGEMENT

Manager-managed  
Manager: Board of Directors

### BOARD OF DIRECTORS

David H. Anderson\*  
Frank H. Burkhartsmeier\*  
MardiLyn Saathoff\*  
Grant M. Yoshihara\*

(\*Officer of NWN)

### CHANGES IN MEMBERS OF THE BOARD

- Frank Burkhartsmeier replaced Brody J. Wilson as a director as of May 17, 2017.
- Grant Yoshihara retired effective March 31, 2018.
- David A. Weber was appointed as a director effective March 31, 2018.

### OFFICERS OF THE LIMITED LIABILITY COMPANY

David H. Anderson*	President and Chief Executive Officer
Brody J. Wilson*	Treasurer and Controller
Shawn M. Filippi*	Corporate Secretary
Alison M. Pear	Assistant Corporate Secretary

(\*Officer of NWN)

### CHANGES IN OFFICERS

- No changes.

## **TRAIL WEST HOLDINGS, LLC**

50% membership interest owned by NW Natural Energy, LLC  
50% membership interest owned by TransCanada American Investment Ltd.  
Type of Operations: Gas Pipeline Owner  
Year created: 2006

### MANAGEMENT

Management is by Management Committee consisting of: Russell Mahan, TransCanada and Justin Palfreyman\*.  
(\*Officer of NWN)

## **TRAIL WEST PIPELINE, LLC**

Wholly-owned subsidiary of Trail West Holdings, LLC  
Type of Operations: Gas Pipeline Owner and Operator  
Year Created: 2006

### MANAGEMENT

Management is by Management Committee of Trail West Holdings, LLC.

## **BL CREDIT HOLDINGS, LLC**

Wholly-owned subsidiary of Trail West Pipeline, LLC.  
Type of Operations: Gas Transportation  
Year Created: 2009

### MANAGEMENT

BL Credit Holdings, LLC is member-managed.

### OFFICERS OF THE LIMITED LIABILITY COMPANY

No officers of NWN are officers of the limited liability company.

## **NW NATURAL ENERGY, LLC**

Wholly-owned subsidiary of Northwest Natural Gas Company  
Type of Operations: Holding Company  
Year Created: 2009

### MANAGEMENT

NW Natural Energy, LLC is manager-managed  
Manager: Board of Directors

### BOARD OF DIRECTORS

David H. Anderson\*  
Lea Anne Doolittle\*  
Frank H. Burkhartsmeyer\*  
MardiLyn Saathoff\*

(\*Officer of NWN)

### CHANGES IN MEMBERS OF THE BOARD

- Frank Burkhartsmeyer replaced Brody J. Wilson as a director as of May 17, 2017.

### OFFICERS OF THE LIMITED LIABILITY COMPANY

David H. Anderson*	President and Chief Executive Officer
Justin Palfreyman*	Vice President
Brody J. Wilson*	Treasurer and Controller
Shawn M. Filippi*	Corporate Secretary
Alison M. Pear	Assistant Corporate Secretary

(\*Officer of NWN)

### CHANGES IN OFFICERS

- Justin Palfreyman was appointed Vice President as of February 1, 2017.

### **NW NATURAL GAS STORAGE, LLC**

Wholly-owned subsidiary of NW Natural Energy, LLC  
Type of Operations: Natural Gas Storage Development and Holding Company  
Year Created: 2009

### MANAGEMENT

NW Natural Gas Storage, LLC is manager-managed  
Manager: Board of Directors

### BOARD OF DIRECTORS

David H. Anderson\*  
Lea Anne Doolittle\*  
Frank H. Burkhartsmeier\*  
MardiLyn Saathoff\*

(\*Officer of NWN)

### CHANGES IN MEMBERS OF THE BOARD

- Frank Burkhartsmeier replaced Brody J. Wilson as a director as of May 17, 2017.

### OFFICERS OF THE LIMITED LIABILITY COMPANY

David A. Weber	President and Chief Executive Officer
Justin Palfreyman*	Vice President
Brody J. Wilson*	Treasurer and Controller
Shawn M. Filippi*	Corporate Secretary
Alison M. Pear	Assistant Corporate Secretary

(\*Officer of NWN)

### CHANGES IN OFFICERS

- Justin Palfreyman was appointed Vice President as of February 1, 2017.

## **GILL RANCH STORAGE, LLC**

Wholly-owned subsidiary of NW Natural Gas Storage, LLC  
Type of Operations: Natural Gas Storage  
Year Created: 2007

### MANAGEMENT

Gill Ranch Storage, LLC is manager-managed  
Manager: Board of Directors

### BOARD OF DIRECTORS

David H. Anderson\*  
Lea Anne Doolittle\*  
Frank H. Burkhartsmeier\*  
MardiLyn Saathoff\*  
(\*Officer of NWN)

### CHANGES IN MEMBERS OF THE BOARD

- Frank Burkhartsmeier replaced Brody J. Wilson as a director as of May 17, 2017.

### OFFICERS OF THE LIMITED LIABILITY COMPANY

David A. Weber	President and Chief Executive Officer
Justin Palfreyman*	Vice President
Brody J. Wilson*	Treasurer and Controller
Shawn M. Filippi*	Corporate Secretary
Alison M. Pear	Assistant Corporate Secretary

(\*Officer of NWN)

### CHANGES IN OFFICERS

- Justin Palfreyman was appointed Vice President as of February 1, 2017.

## **NW Natural Water Company, LLC**

Wholly-owned subsidiary of Northwest Natural Gas Company  
Type of Operations: Non-Operating Holding Company  
Year Created: 2017

### BOARD OF DIRECTORS

David H. Anderson, Chair\*  
Frank H. Burkhartsmeier\*  
MardiLyn Saathoff\*  
(\*Officer of NWN)

### CHANGES IN MEMBERS OF THE BOARD

No changes – created in 2017.

OFFICERS OF THE CORPORATION

David H. Anderson*	President and Chief Executive Officer
Brody J. Wilson*	Treasurer and Controller
Shawn M. Filippi*	Corporate Secretary

(\*Officer of NWN)

CHANGES IN OFFICERS

No changes – created in 2017.

**FWC Merger Sub, Inc.**

Wholly-owned subsidiary of NW Natural Water Company, LLC  
Type of Operations: Non-Operating Merger Sub Corporation  
Year Created: 2017 (Idaho)

BOARD OF DIRECTORS

David H. Anderson, Chair\*  
Frank H. Burkhartsmeyer\*  
MardiLyn Saathoff\*

(\*Officer of NWN)

CHANGES IN MEMBERS OF THE BOARD

No changes – created in 2017.

OFFICERS OF THE CORPORATION

David H. Anderson*	President and Chief Executive Officer
Brody J. Wilson*	Treasurer and Controller
Shawn M. Filippi*	Corporate Secretary

(\*Officer of NWN)

CHANGES IN OFFICERS

No changes – created in 2017.

## **NORTHWEST BIOGAS, LLC**

50% membership interest owned by Northwest Natural Gas Company  
50% membership interest owned by BEF Renewable Incorporated  
Type of Operations: Biodigester Owner  
Year Created: 2008

Northwest Biogas, LLC is member-managed  
Managing Member: Northwest Natural Gas Company

### MANAGEMENT

Northwest Biogas, LLC is member-managed  
Managing Member: Northwest Natural Gas Company

### OFFICERS OF THE LIMITED LIABILITY COMPANY

Angus Duncan**	President
Barbara Summers	Vice President
Joanna Gilson**	Secretary

\*\* Not employees of NWN or its affiliates.

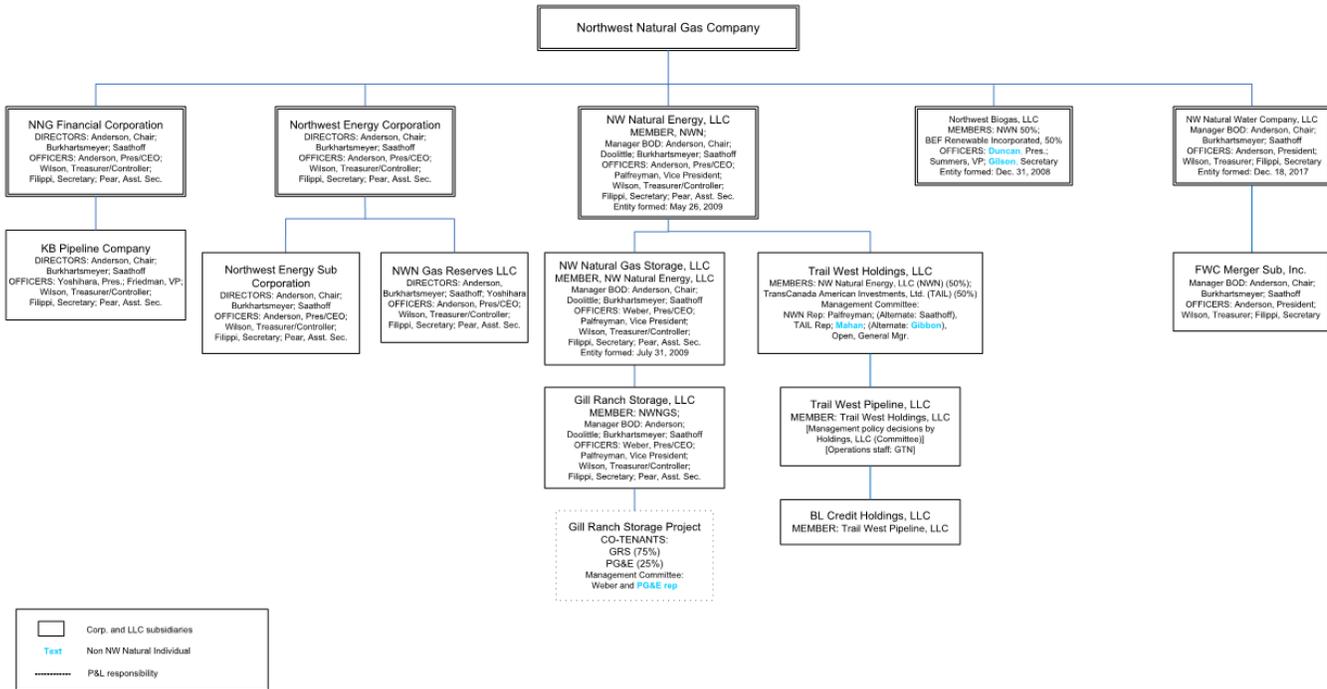
### CHANGES IN OFFICERS

- No changes.

# CHART 1 (As of December 31, 2017)

Updated  
January 30, 2018

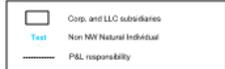
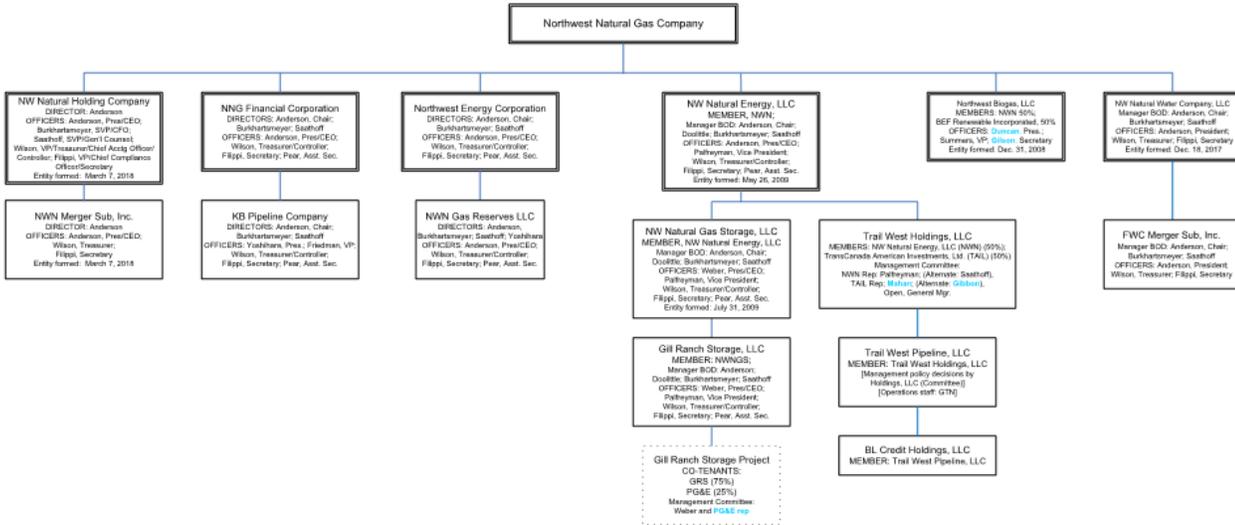
## NW Natural Organization Chart



# CHART 2 (As of March 21, 2018)

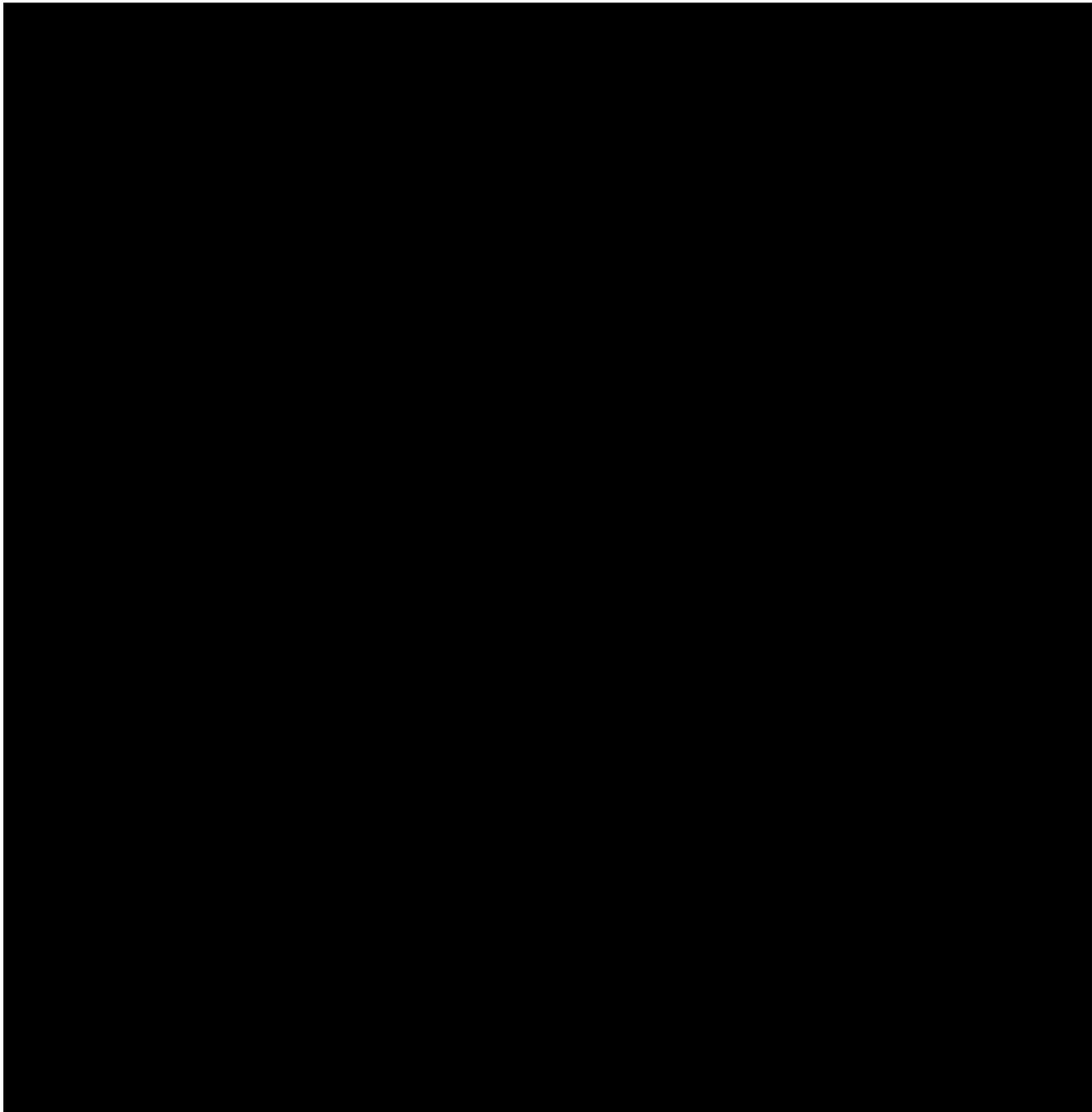
Updated  
March 21, 2018

## NW Natural Organization Chart

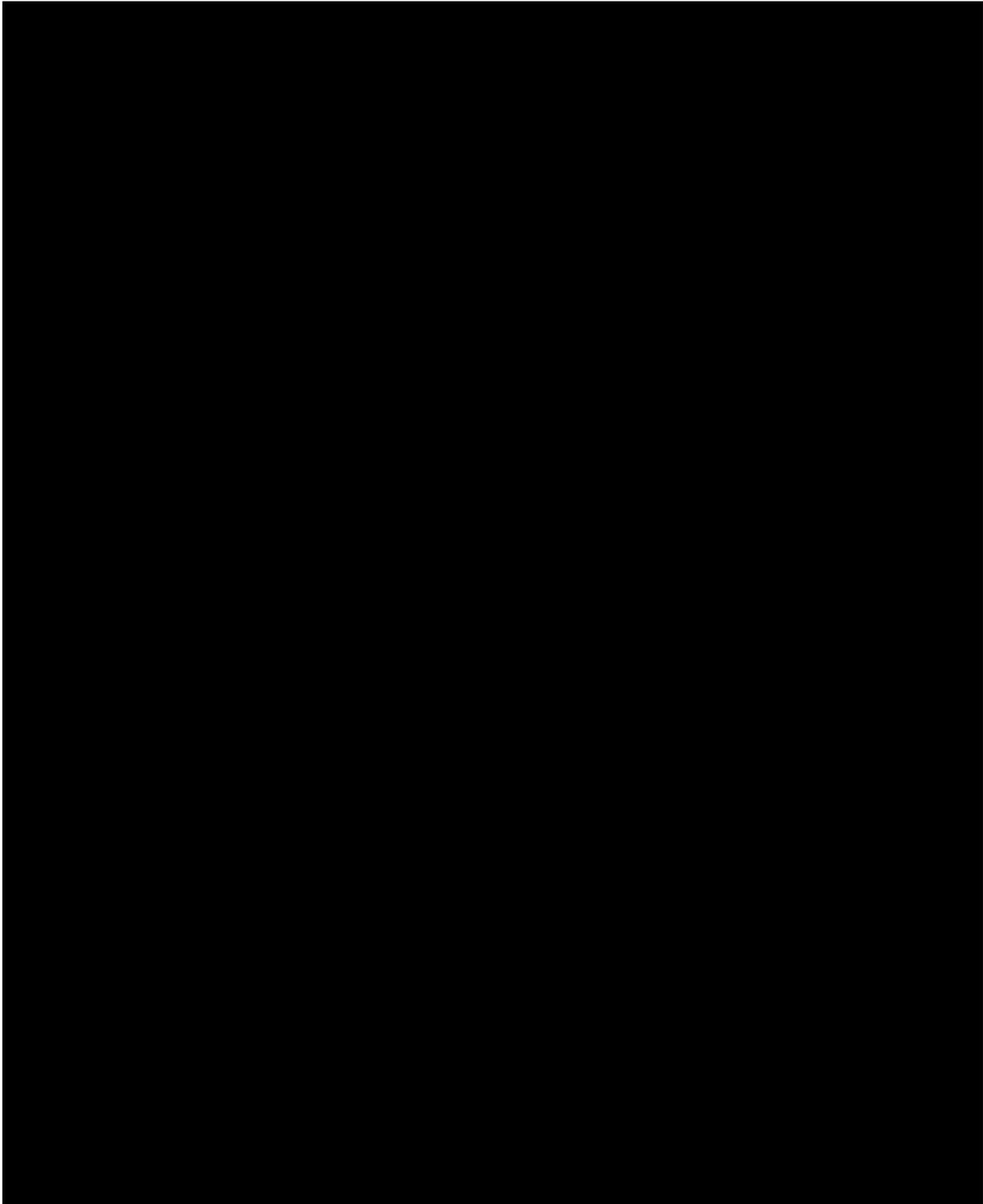


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NWN Subsidiary Structure - March 21, 2018

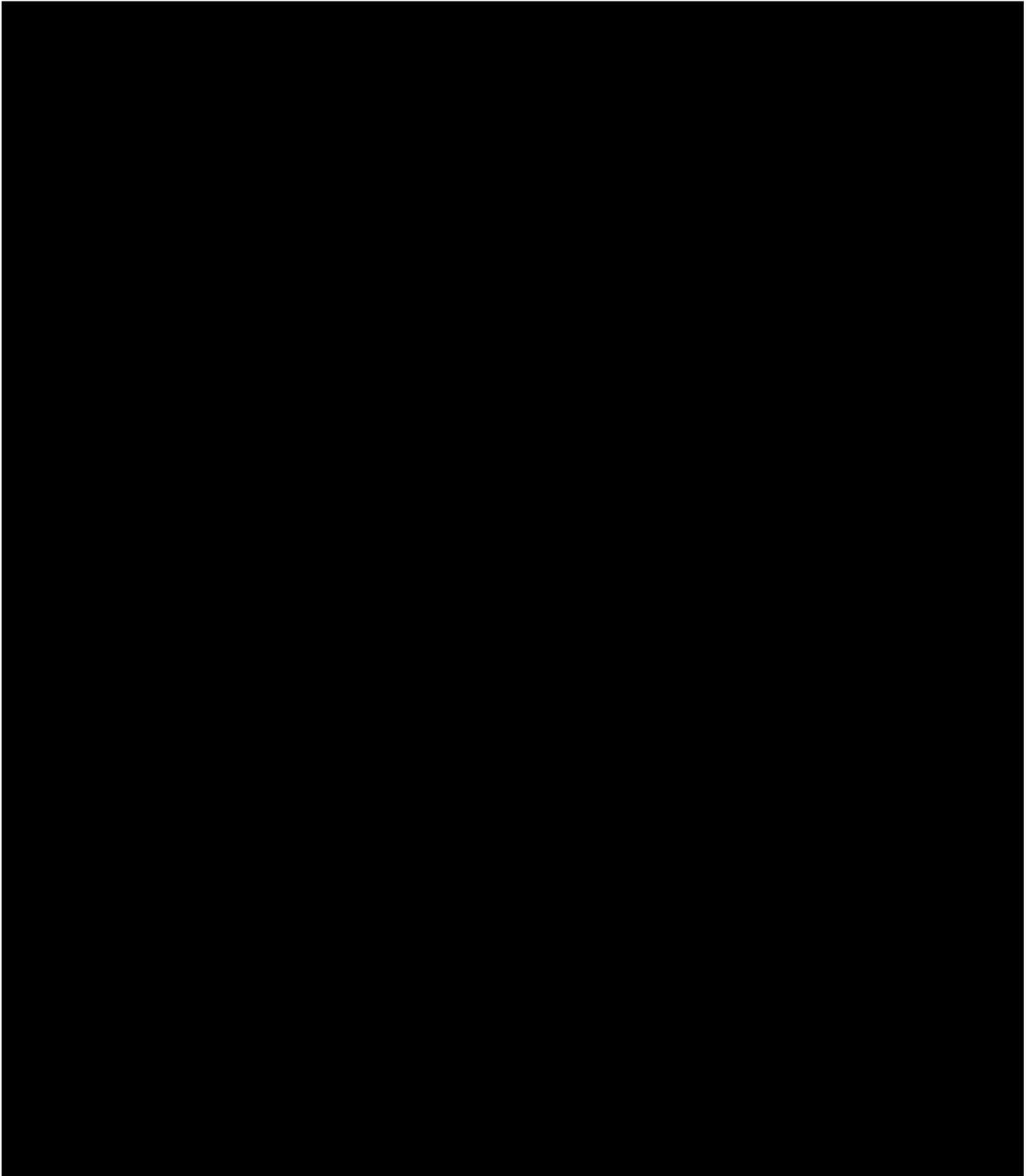
**EXHIBIT A**



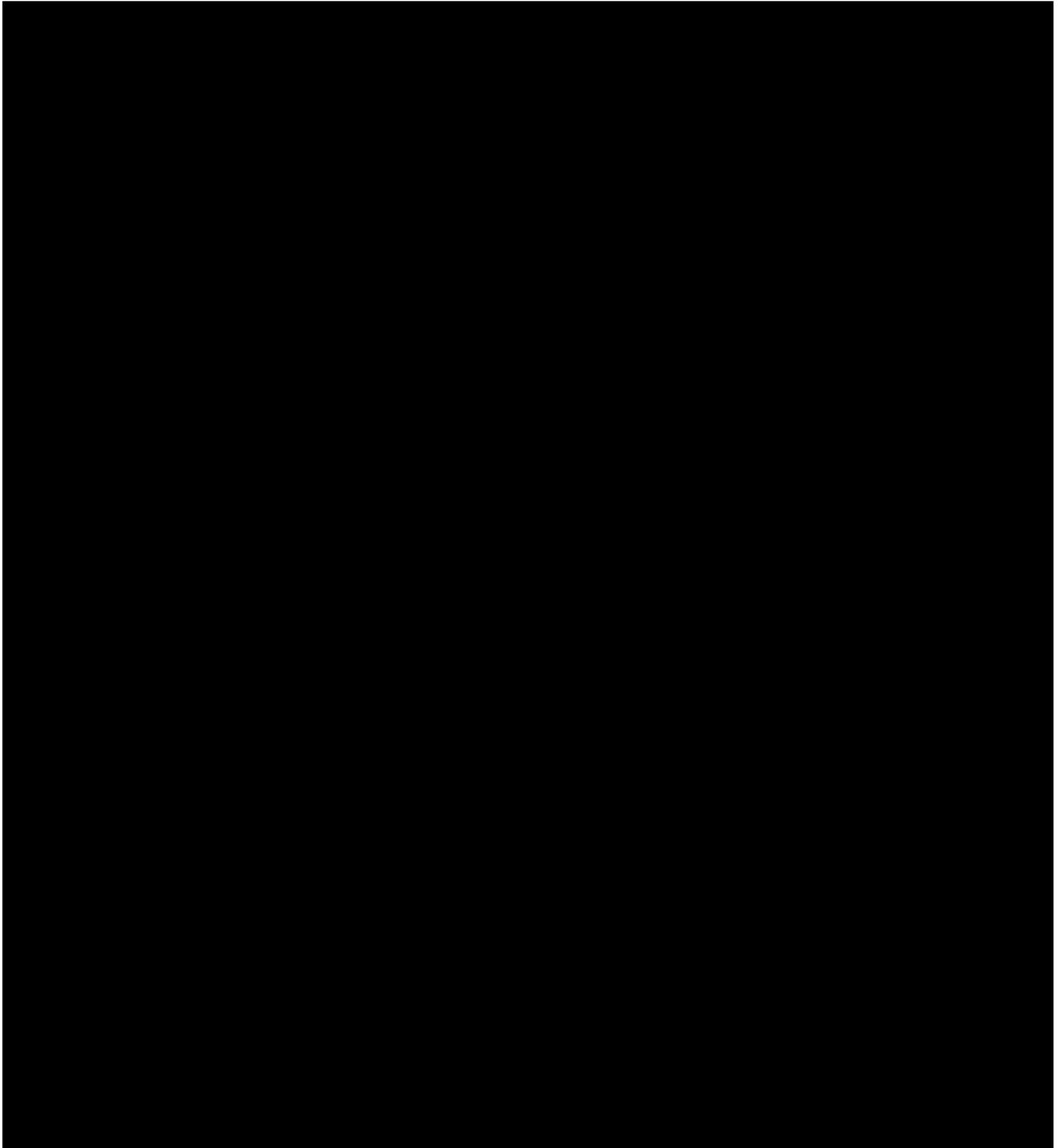
**EXHIBIT A**



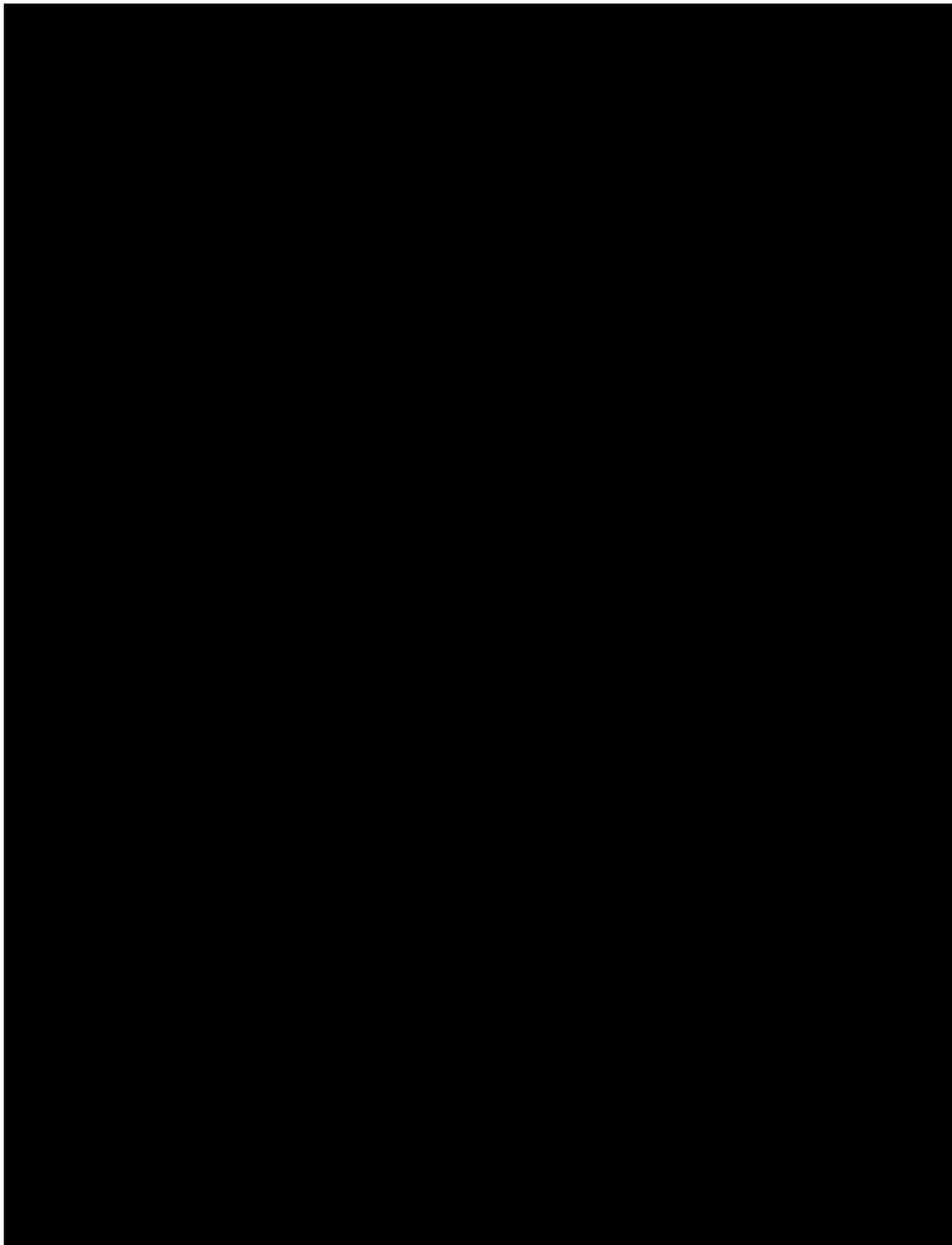
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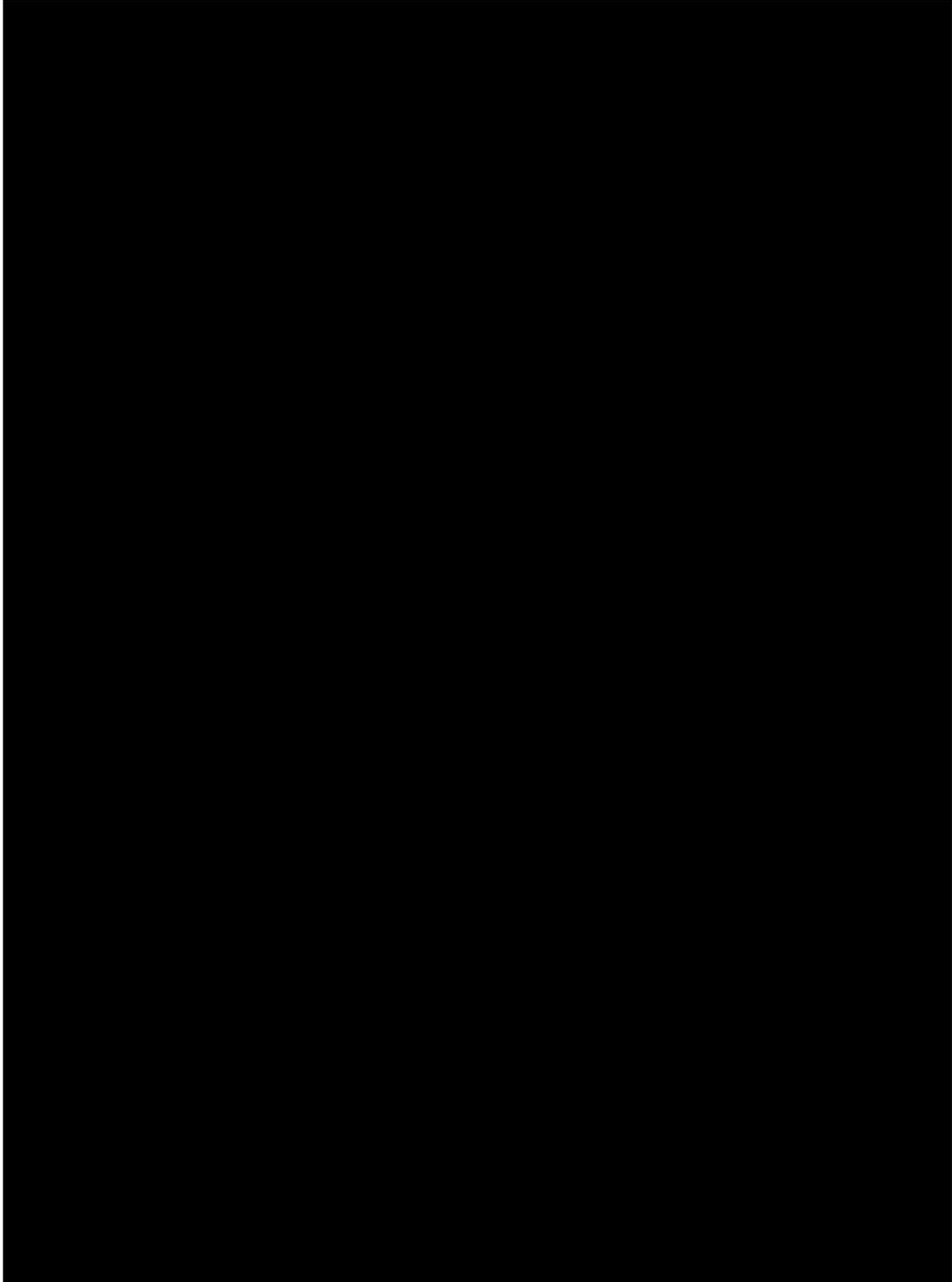
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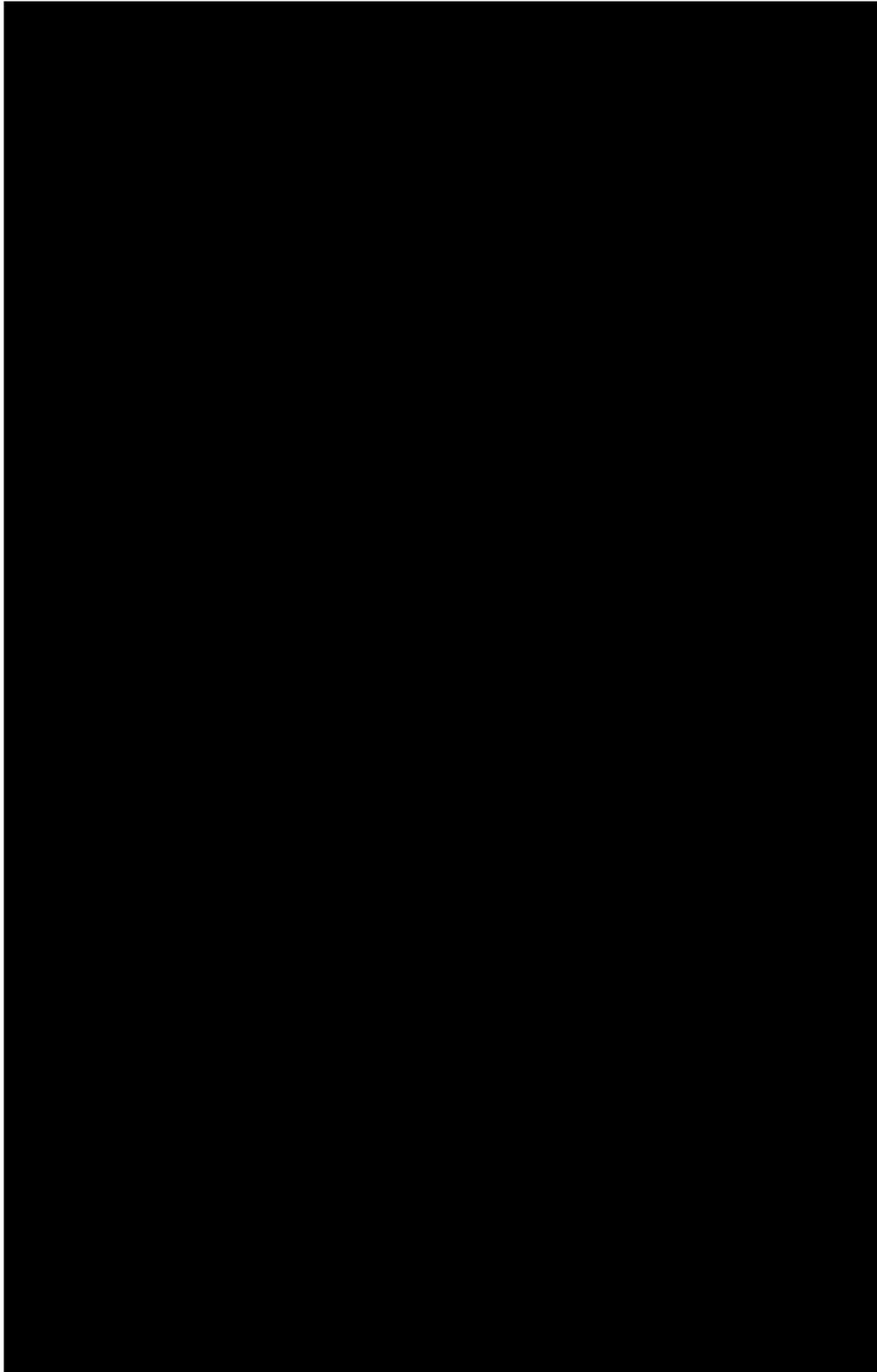
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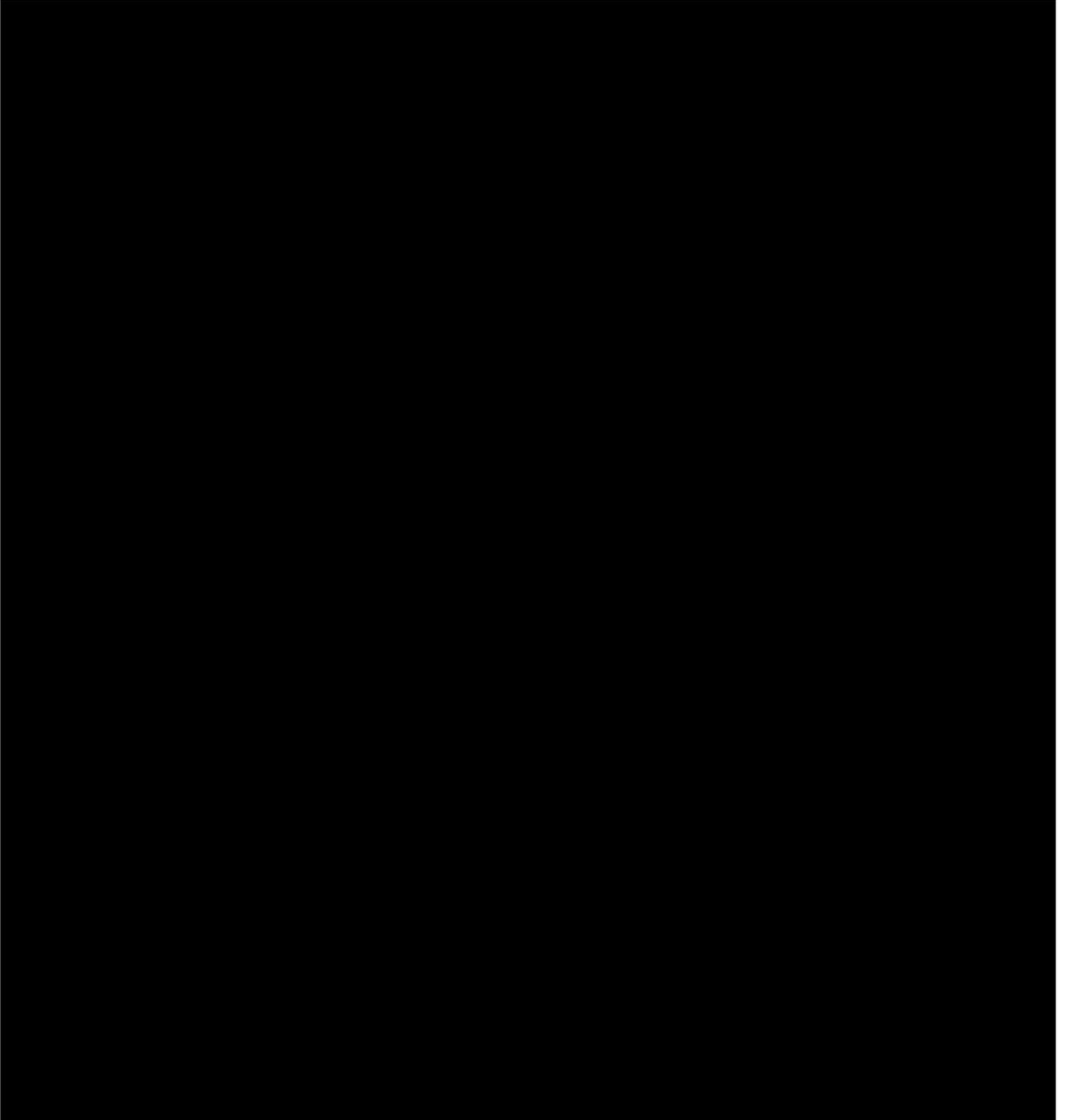
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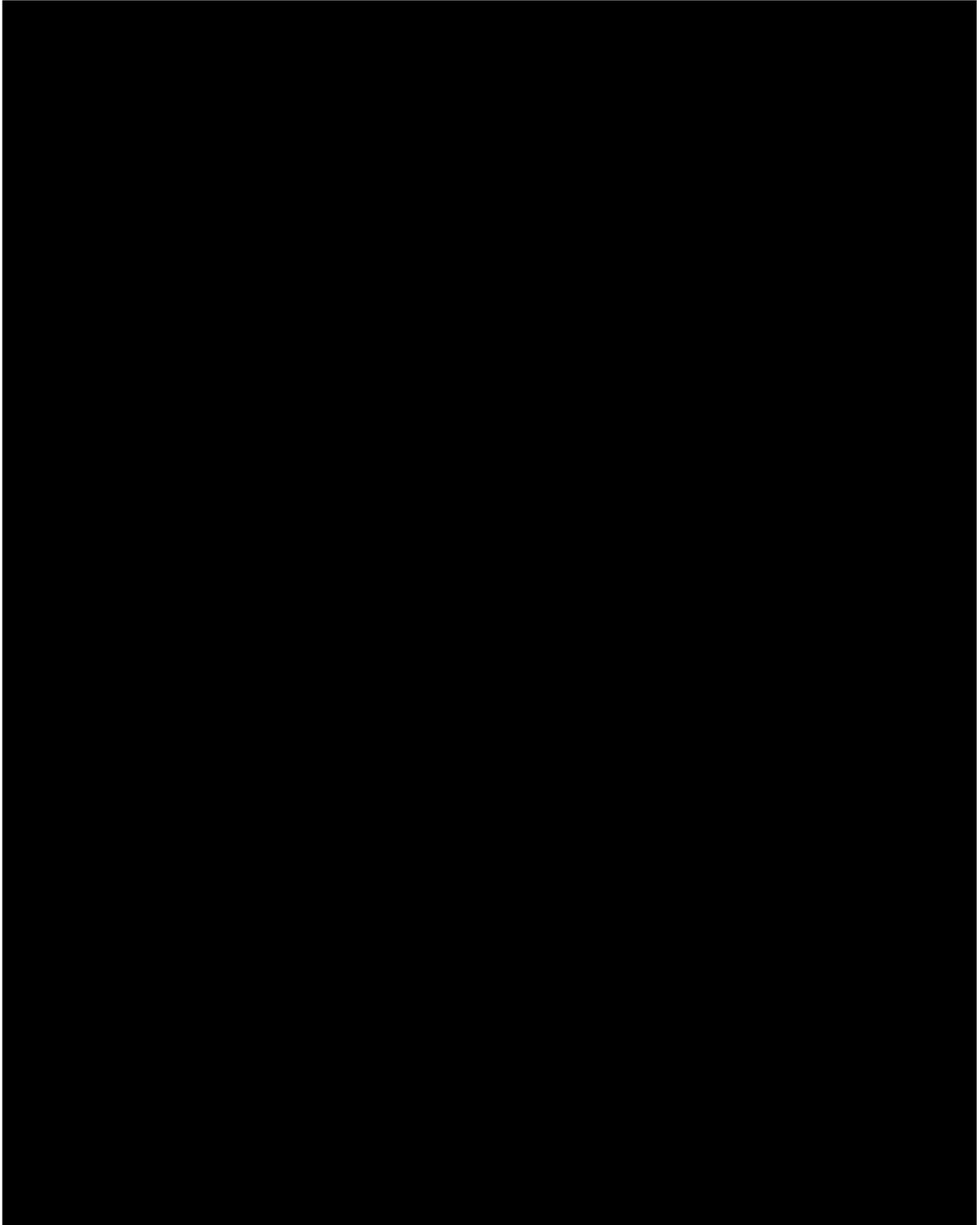
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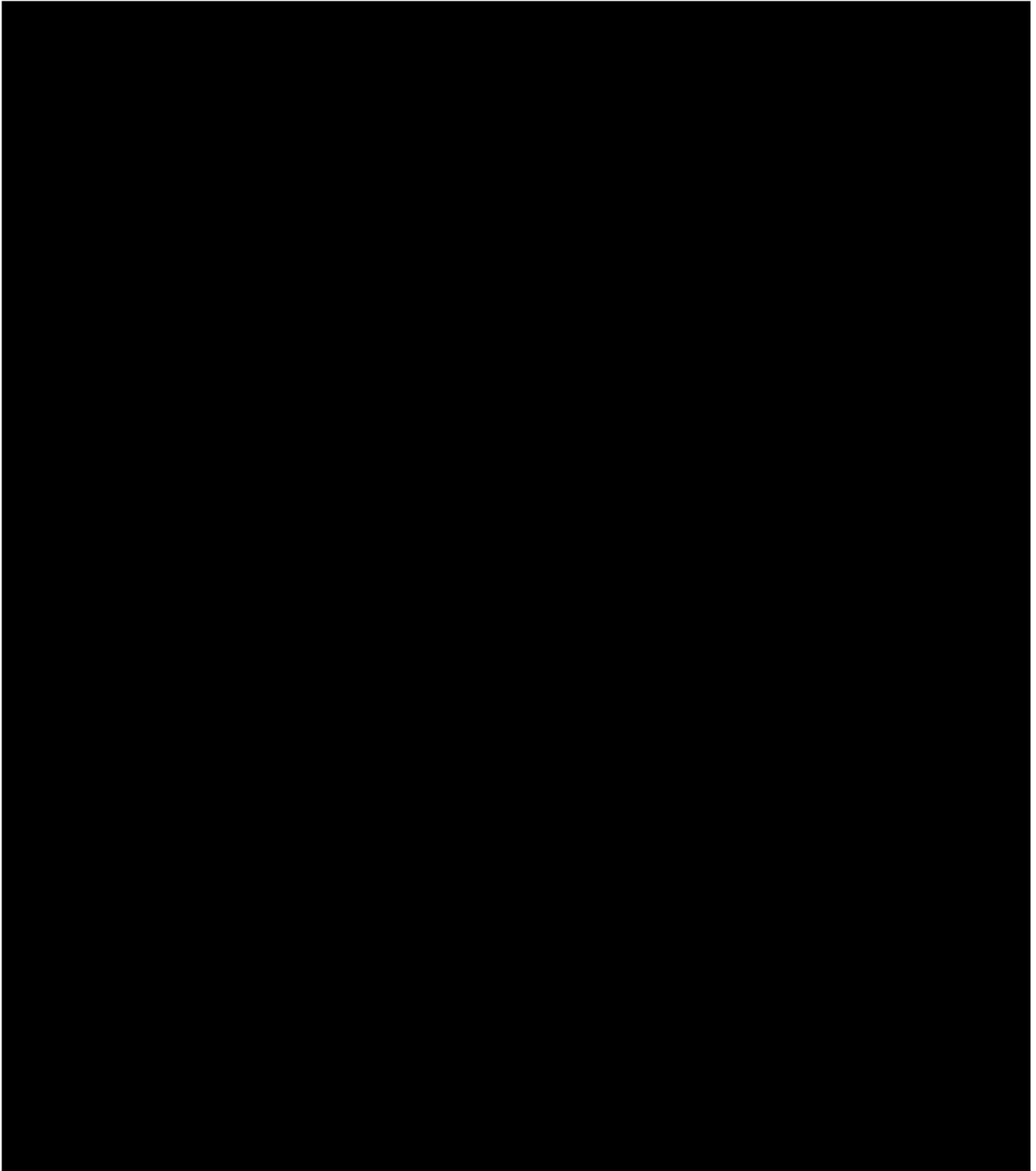
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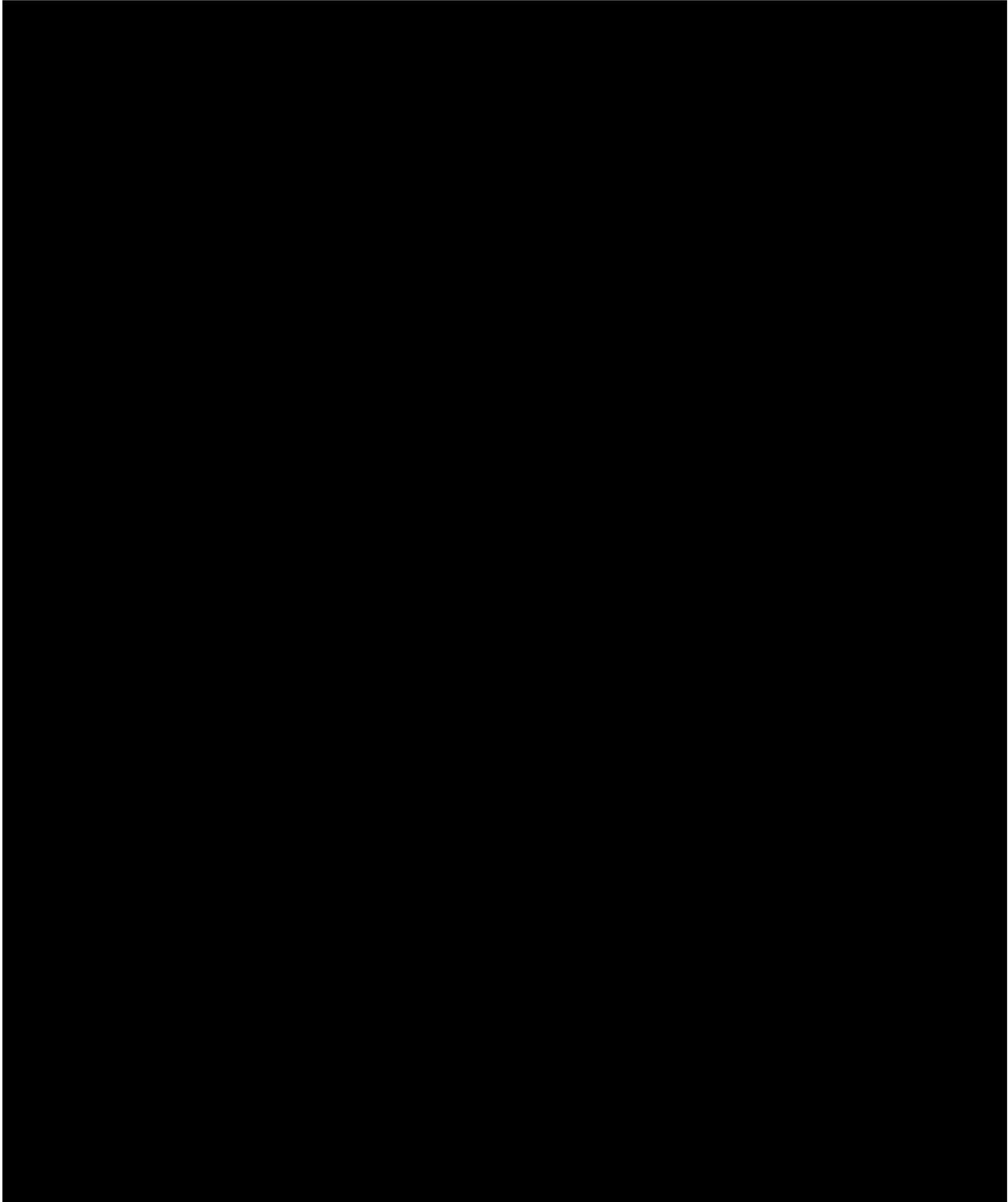
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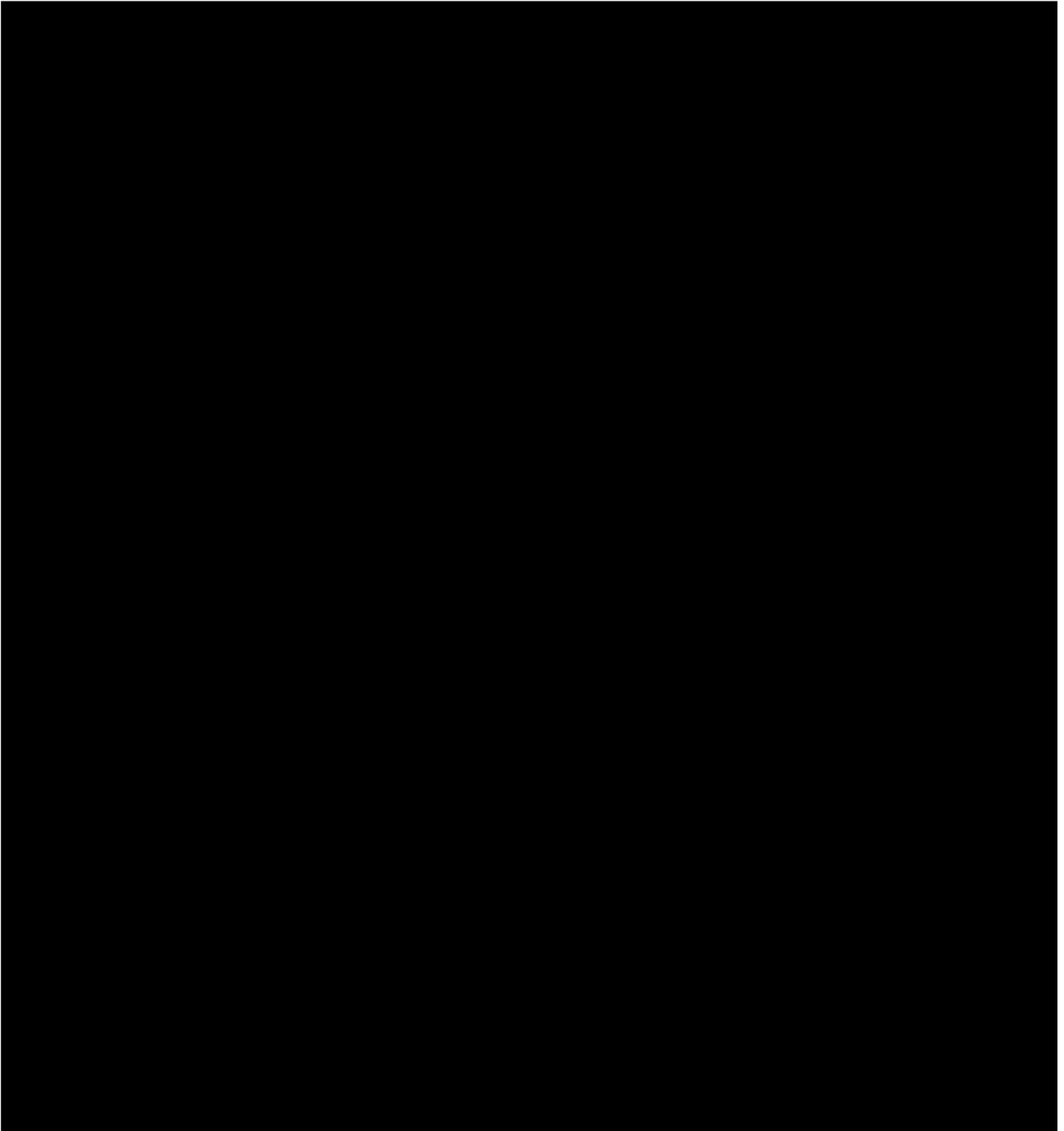
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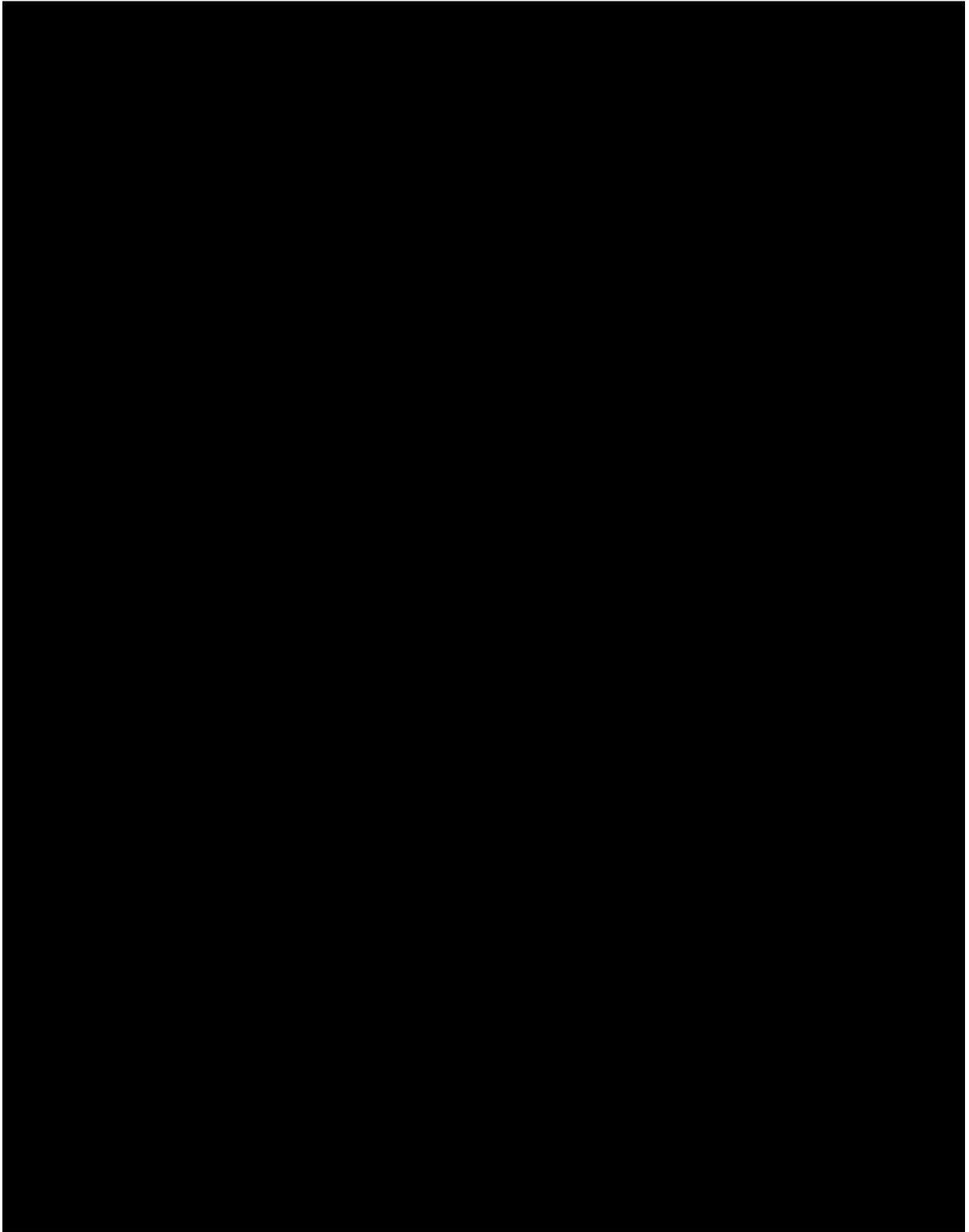
**EXHIBIT A**



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**EXHIBIT A**



**EXHIBIT A**

