SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

SCHEDULE 13D

Under the Securities Exchange Act of 1934

(Amendment No. 1)

Mach Natural Resources LP

(Name of Issuer)

Common units representing limited partner interests

(Title of Class of Securities)

55445L100

(CUSIP Number)

William Wallace McMullen
2229 San Felipe Street, Suite 1075
Houston, TX, 77019
713-400-8200

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

11/20/2026

(Date of Event Which Requires Filing of This Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of §§ 240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box. ☑

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

SCHEDULE 13D

CUSIP Number(s):	55445L100

1	**Name of reporting person** BCE-Mach Aggregator LLC
2	**Check the appropriate box if a member of a Group (See Instructions)** ☐ (a) ☐ (b)
3	**SEC use only**

4	Source of funds (See Instructions) OO	
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) ☐	
6	Citizenship or place of organization DELAWARE	
Number of Shares Beneficially Owned by Each Reporting Person With:	7	Sole Voting Power 0.00
	8	Shared Voting Power 74,835,939.00
	9	Sole Dispositive Power 0.00
	10	Shared Dispositive Power 74,835,939.00
11	Aggregate amount beneficially owned by each reporting person 74,835,939.00	
12	Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) ☐	
13	Percent of class represented by amount in Row (11) 43.9 %	
14	Type of Reporting Person (See Instructions) OO	

Comment for Type of Reporting Person: Based on 170,395,787 common units representing limited partner interests ("Common Units") outstanding as of October 30, 2026, as reported by Mach Natural Resources LP (the "Issuer") on its Form 10-Q filed with the U.S. Securities and Exchange Commission (the "Commission") on November 5, 2026.

SCHEDULE 13D

CUSIP Number(s):	55445L100

1	Name of reporting person Bayou City Energy Management LLC
2	Check the appropriate box if a member of a Group (See Instructions) ☐ (a) ☐ (b)
3	SEC use only
4	Source of funds (See Instructions) OO
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) ☐

6	Citizenship or place of organization DELAWARE	
Number of Shares Beneficially Owned by Each Reporting Person With:	7	Sole Voting Power 0.00
	8	Shared Voting Power 74,872,307.00
	9	Sole Dispositive Power 0.00
	10	Shared Dispositive Power 74,872,307.00
11	Aggregate amount beneficially owned by each reporting person 74,872,307.00	
12	Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) ☐	
13	Percent of class represented by amount in Row (11) 43.9 %	
14	Type of Reporting Person (See Instructions) OO	

Comment for Type of Reporting Person: Based on 170,395,787 Common Units outstanding as of October 30, 2026, as reported by the Issuer on its Form 10-Q filed with the Commission on November 5, 2026.

SCHEDULE 13D

CUSIP Number(s):	55445L100

1	Name of reporting person William Wallace McMullen	
2	Check the appropriate box if a member of a Group (See Instructions) ☐ (a) ☐ (b)	
3	SEC use only	
4	Source of funds (See Instructions) OO	
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) ☐	
6	Citizenship or place of organization UNITED STATES	
Number of Shares Beneficially Owned by Each Reporting Person With:	7	Sole Voting Power 46,924.00
	8	Shared Voting Power 74,872,307.00

	9	**Sole Dispositive Power** 46,924.00
	10	**Shared Dispositive Power** 74,872,307.00
11	**Aggregate amount beneficially owned by each reporting person** 74,919,231.00	
12	**Check if the aggregate amount in Row (11) excludes certain shares (See Instructions)** ☐	
13	**Percent of class represented by amount in Row (11)** 44.0 %	
14	**Type of Reporting Person (See Instructions)** IN	

Comment for Type of Reporting Person: Based on 170,395,787 Common Units outstanding as of October 30, 2026, as reported by the Issuer on its Form 10-Q filed with the Commission on November 5, 2026.

SCHEDULE 13D

Item 1. Security and Issuer

(a) Title of Class of Securities:

Common units representing limited partner interests

(b) Name of Issuer:

Mach Natural Resources LP

(c) Address of Issuer's Principal Executive Offices:

14201 Wireless Way, Suite 300, Oklahoma City, OKLAHOMA , 73134.

Item 1 Comment: This Amendment No. 1 ("Amendment No. 1") amends and supplements the statement on Schedule 13D filed with the Securities and Exchange Commission (the "SEC") on June 17, 2025 (the "Original 13D"). Except as specifically provided herein, this Amendment No. 1 does not modify any of the information previously reported on the Original 13D. Unless otherwise indicated herein, capitalized terms used but not defined in this Amendment No. 1 shall have the same meanings herein as are ascribed to such terms in the Original 13D.

Item 4. Purpose of Transaction

Item 4 is hereby amended and restated as follows:

Prior to the closing of the Issuer's initial public offering (the "IPO"), the Reporting Persons acquired 68,226,633 Common Units in exchange for equity securities of the predecessor of the Issuer. In connection with the IPO, the following agreements were entered into governing certain rights of the Reporting Persons:

(i) the Amended and Restated Agreement of Limited Partnership of Mach Natural Resources LP, which among other things, provided the Reporting Persons (i) customary registration rights and (ii) through its controlling interest in the Issuer's general partner, certain governance rights; and

(ii) the Amended and Restated Limited Liability Company Agreement of Mach Natural Resources GP, LLC (the "GP LLCA"), which governs the board of directors (the "Board") that controls the Issuer. The Reporting Persons have the right to appoint a majority of the Board.

The foregoing descriptions of the Partnership Agreement and GP LLCA do not purport to be complete and are qualified in their entirety by the full text thereof, copies of which were attached as Exhibit 2 and Exhibit 3 to the Original 13D, respectively, and incorporated herein by reference.

In December 2024, the Reporting Persons purchased an additional 899,487 Common Units in open market transactions, at prices ranging from $14.61 to $15.75 per Common Unit. On February 7, 2025, the Reporting Persons purchased an additional 5,161,290 Common Units in an underwritten offering at a price of $15.50 per Common Unit. All such Common Units were previously reported on a Schedule 13G filed by the Reporting Persons on November 2, 2023, and as subsequently amended on May 13, 2025. In June 2025, the Reporting Persons purchased an additional 525,529 Common Units in open market transactions, at prices ranging from $13.48 to $15.00 per Common Unit. In August 2025, the Reporting Persons purchased an additional 3,085 Common Units in open market transactions, at a price of $14.39 per Common Unit. In November 2025, the Reporting Persons purchased an additional 4,608 Common Units in open market transactions, at prices ranging from $11.84 to $11.87 per Common Unit. In December 2025, the Reporting Persons purchased an additional 30,000 Common Units in open market transactions, at prices ranging from $12.30 to $12.67 per Common Unit. In March 2026, the Reporting Persons purchased an additional 9,285 Common Units in open market transactions, at prices ranging from $13.53 to $14.00 per Common Unit. The information set forth or incorporated by reference in

Item 5(c) of this Schedule 13D is incorporated by reference into this Item 4.

BCEM and its affiliated investment funds (the "BCE Funds") indirectly own all of the membership interests in BCE-Mach Aggregator. The BCE Funds have terms that extend multiple years beyond the date of this Amendment No. 1. The Reporting Persons regard their investment in the Issuer as a long-term investment. As of the date of this Amendment No. 1, the Reporting Persons have no present plan or intention to sell, or to distribute in kind to the partners or members of the BCE Funds, any of the Common Units beneficially owned by the Reporting Persons.

The Reporting Persons or their affiliates intend to review their investment in the Issuer on an ongoing basis and may seek to increase or decrease their position in the issuer including purchasing additional Common Units and/or other equity, debt, notes or other financial instruments related to the Issuer. In addition, the Reporting Persons or their affiliates may seek to sell or otherwise dispose of some or all securities of the Issuer, including the reported Common Units and/or other equity, debt, notes or other financial instruments related to the Issuer or Common Units (which may include rights or securities exercisable or convertible into securities of the Issuer), and/or acquire some or all of such Issuer securities or financial instruments (which may include distributing some or all of such securities to such Reporting Person's respective members, stockholders, partners or beneficiaries, as applicable, transferring shares of Common Units to affiliated transferees, or the entry into a total return swap, asset swap or repurchase transaction) from time to time, in each case, in open market or private transactions, block sales or otherwise. The Reporting Persons or their affiliates may engage from time to time in ordinary course transactions with financial institutions with respect to the securities described herein.

Any transaction that any of the Reporting Persons or their affiliates may pursue may be made at any time and from time to time without prior notice and will depend on a variety of factors, including, without limitation, the price and availability of the Issuer's securities or other financial instruments; an ongoing evaluation of the Issuer's business, financial condition, operations and prospects; general industry and economic conditions; the securities markets in general; tax considerations; the Reporting Persons' or such affiliates' trading and investment strategies, other investment and business opportunities, applicable legal and/or contractual restrictions and liquidity requirements; and other factors deemed relevant by such Reporting Persons and such affiliates.

Item 5. Interest in Securities of the Issuer

(b) Item 5(b) is hereby amended and restated as follows:

The information set forth on lines 7 through 10 of each of the cover pages hereto is incorporated by reference into this Item 5.

74,835,939 of the reported securities are directly held by BCE Aggregator, which is indirectly managed by BCEM. Mr. McMullen is the managing partner of BCEM. Accordingly, each of the Reporting Persons may be deemed to share voting and investment control, and therefore beneficial ownership, of the reported securities.

(c) Item 5(c) is hereby amended and supplemented as follows:

During the prior 60 days, the Reporting Persons have effected the following transactions related to the Common Units:

o November 20, 2026: purchased 12,300 Common Units at a weighted average price per unit of $8.16.
o November 23, 2026: purchased 12,500 Common Units at a weighted average price per unit of $7.91.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

BCE-Mach Aggregator LLC

Signature: **/s/ William W. McMullen**
Name/Title: **William W. McMullen, Authorized Signatory**
Date: **11/24/2026**

Bayou City Energy Management LLC

Signature: **/s/ William W. McMullen**
Name/Title: **William W. McMullen, Authorized Signatory**
Date: **11/24/2026**

William Wallace McMullen

Signature: **/s/ William W. McMullen**
Name/Title: **William W. McMullen**
Date: **11/24/2026**