

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: Marathon Oil Permian LLC **OGRID Number:** 372098
Well Name: Cave Lion 5 Federal (2H, 6H, 8H, 9H, 12H, 15H) **API:** 30-025-45421; 30-025-45426; 30-025-45419; 30-025-45420; 30-025-45422; 30-025-45424 **+**
Pool: WC-025 G-08 S2535340; Bonespring & WC-025 G09 S263504N; Wolfcamp **Pool Code:** 97088 & 98117

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

1) TYPE OF APPLICATION: Check those which apply for [A]

A. Location – Spacing Unit – Simultaneous Dedication

☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD

B. Check one only for [I] or [II]

[I] Commingling – Storage – Measurement

☐ DHC ☐ CTB ☐ PLC ☒ PC ☐ OLS ☐ OLM

[II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

2) NOTIFICATION REQUIRED TO: Check those which apply.

- A. ☐ Offset operators or lease holders
 B. ☐ Royalty, overriding royalty owners, revenue owners
 C. ☐ Application requires published notice
 D. ☐ Notification and/or concurrent approval by SLO
 E. ☒ Notification and/or concurrent approval by BLM
 F. ☐ Surface owner
 G. ☒ For all of the above, proof of notification or publication is attached, and/or,
 H. ☐ No notice required

FOR OCD ONLY

- ☐ Notice Complete
☐ Application Content Complete

3) CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Adrian Covarrubias

Print or Type Name

Signature

1/10/2022

Date

713-296-3368

Phone Number

acovarrubias@marathonoil.com

e-mail Address

Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM
 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. Multiple
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Cave Lion 5 Federal
8. Well Number Multiple
9. OGRID Number 372098
10. Pool name or Wildcat Multiple

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☐ Other ☐

2. Name of Operator
Marathon Oil Permian LLC

3. Address of Operator
990 Town & Country Blvd. Houston, TX 77024

4. Well Location
 Unit Letter N : _____ feet from the _____ line and _____ feet from the _____ line
 Section 5 Township 26S Range 35E NMPM County LEA

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
DOWNHOLE COMMINGLE <input type="checkbox"/>	P AND A <input type="checkbox"/>
CLOSED-LOOP SYSTEM <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>
OTHER: SURFACE COMMINGLE <input checked="" type="checkbox"/>	OTHER: PC-1369 Amendment <input type="checkbox"/>

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Marathon Oil Permian LLC is requesting approval to surface commingle the wells listed below. This is an amendment to existing Admin Order PC-1369.

Name	Location	API	Pool
Cave Lion 5 WC Federal 2H	N-5-26S-35E (287' FSL 1811' FWL)	30-025-45421	WC-025 G-09 S5263504N; Wolfcamp (98117)
Cave Lion 5 WXY Federal 6H	N-5-26S-35E (287' FSL 1781' FWL)	30-025-45426	WC-025 G-09 S5263504N; Wolfcamp (98117)
Cave Lion 5 TB Federal 8H	N-5-26S-35E (287' FSL 1841' FWL)	30-025-45419	WC-025 G-08 S253534O; Bone Spring (97088)
Cave Lion 5 WA Federal 9H	N-5-26S-35E (287' FSL 1871' FWL)	30-025-45420	WC-025 G-09 S5263504N; Wolfcamp (98117)
Cave Lion 5 TB Federal 12H	P-5-26S-35E (450' FSL 1208' FEL)	30-025-45422	WC-025 G-08 S253534O; Bone Spring (97088)
Cave Lion 5 TB Federal 15H	P-5-26S-35E (450' FSL 1178' FEL)	30-025-45424	WC-025 G-08 S253534O; Bone Spring (97088)

The value of the oil and gas will not be affected with the approval of this commingle. Wells will be accurately measured with daily measurement at separation. Please see the attached commingle request.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Adrian Covarrubias TITLE Regulatory Specialist DATE 1/13/2022

Type or print name Adrian Covarrubias E-mail address: acovarrubias@marathonoil.com PHONE: 713-296-3368

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

SURFACE COMMINGLING
CAVE LION 5 FEDERAL 2H 6H 8H 9H 12H 15H

Marathon Oil Permian LLC is submitting application to amend existing surface commingle PC-1369 which will fall under 19.15.12.10(B) NMAC for Commingling with Identical Ownership.

The approval of this commingle will not affect the value of oil and gas.

Please see below for details:

19.15.12.10(B)(1) – Measurement and Allocation Methods

Marathon Oil Permian LLC will be using the metering method to measure and allocate production. Please see below for Method of Allocation.

19.15.12.10(B)(2)(a) - List of Leases and Pools to be Commingled:

WELL NAME	API #	LEASE	POOL (CODE)
Cave Lion 5 WC Federal 2H	30-025-45421	NMNM013647	WC-025 G-09 S5263504N; Wolfcamp (98117)
Cave Lion 5 WXY Federal 6H	30-025-45426	NMNM013647	WC-025 G-09 S5263504N; Wolfcamp (98117)
Cave Lion 5 TB Federal 8H	30-025-45419	NMNM013647	WC-025 G-08 S253534O; Bone Spring (97088)
Cave Lion 5 WA Federal 9H	30-025-45420	NMNM013647	WC-025 G-09 S5263504N; Wolfcamp (98117)
Cave Lion 5 TB Federal 12H	30-025-45422	NMNM013647	WC-025 G-08 S253534O; Bone Spring (97088)
Cave Lion 5 TB Federal 15H	30-025-45424	NMNM013647	WC-025 G-08 S253534O; Bone Spring (97088)

19.15.12.10(B)(2)(b) – Method of Allocation

Production from the Cave Lion 5 TB Federal 12H and Cave Lion 5 TB Federal 15H wells located at UL. P-Sec.5-T26S-R35E will be sent to the existing Facility Cave 5 Fed 26859 TB located at UL. N-Sec.5-T26S-R35E for storage and measurement.

OIL ALLOCATION METHODOLOGY

Each well has a Coriolis meter at the three-phase separator that measures oil produced by the well. This volume is used to determine the theoretical percentage each well produced and is used to allocate Calculated Production and Total Sales Volumes back to each well.

- A. Theoretical % of production for each well is calculated by dividing each oil meter volume by the sum of the oil meters.
- B. Total Production of the facility is calculated by adding Ending Inventory plus LACT Sales Meter minus Beginning Inventory.
- C. Total Available Sale is calculated by adding Total Production plus Beginning Inventory.
- D. Theoretical % for each well is multiplied by the Total Production and Total Available Sales.

SURFACE COMMINGLING
CAVE LION 5 FEDERAL 2H 6H 8H 9H 12H 15H

- E. Total Oil Sales is oil measured through the LACT meter. Volumes are verified with the LACT tickets.
- F. Beginning Inventory comes from previous accounting period's Closing Inventory for each well.
- G. Ending Inventory is calculated by measuring the height of oil in the tanks. Ending Inventory for each well is calculated by multiplying the Theoretical % of Production by total of ending inventory.

GAS ALLOCATION METHODOLOGY

Each well has an orifice meter and a gas lift meter. The facility has a Sales meter that measures volume of gas before it leaves the facility.

- A. Net Well Production is base amount of production not used for gas lift and is calculated by subtracting Gas Lift (GL) metered volume from the Orifice meter readings.
- B. Theoretical % used for the allocation is calculated by dividing the Net Well Production Volume for each well into the sum of the total Net Well Production.
- C. Net Facility Gas is volume of gas sold for royalty purposes and is measured with a meter as it leaves the facility. This volume is verified with purchaser statements.
- D. Theoretical % for each well is multiplied by the Net Facility Gas to determine Sales, Lease Fuel for each well.
- E. Lease Use is the volume of gas used by the equipment on the facility.
- F. Gas used to run other equipment is measured via an orifice meter. Total Lease Use gas is allocated to the well based on the wells Theoretical %.
- G. HP Flare is volume of gas flared from the facility, allocated to wells by Theoretical % for each well times the Flare Meter volume.
- H. Individual Compressor usage is based on manufacturer's usage rate applied to compressor run time. Total Compressor Use is calculated by adding Individual Compressor Usage and allocated to wells by Theoretical %.
- I. Allocated Production is all gas produced by the facility and is calculated by adding Net Facility Gas plus HP Flare plus Lease Use.

WATER ALLOCATION METHODOLOGY

Each well has a mag meter at the three-phase separator that measures the volume of water produced by the well.

- A. Water Production is the volume of water measured at the mag meter.

19.15.12.10(B)(2)(c) – Certification by a licensed attorney or qualified petroleum landman that ownership in the pools and leases to be commingled are identical.

See attached.

19.15.12.10(B)(2)(d) – Evidence of notice to the State Land or the BLM, if required.

Please see attached Sundry to the BLM. State Land Office notification not required.

Jeff Broussard
Land Professional



Marathon Oil Permian LLC
990 Town & Country Blvd.
Houston, TX 77024
Telephone: 713.296.3159 Mobile: 409.351.2656
jbroussard1@marathonoil.com

January 11, 2022

Mr. Dean McClure
Petroleum Specialist
New Mexico Oil Conservation Division
1220 South Francis Drive
Santa Fe, NM 87505

Re: Marathon Oil Permian LLC - Surface Commingling
Cave Lion 2H, 6H, 8H, 9H, 12H & 15H Wells
Section 5, T26S-R35E
Lea County, New Mexico

Mr. McClure,

Marathon Oil Permian LLC ("Marathon") has filed the attached application with the New Mexico Oil Conservation Division ("Division") for administrative approval to surface lease commingle production according to the provisions of NMAC 19.15.12.10.B from the Cave Lion 5 WC Federal #002H well (API# 30-025-45421), Cave Lion 5 WXY Federal #006H well (API# 30-025-45426), Cave Lion 5 TB Federal #008H well (API# 30-025-45419), the Cave Lion 5 WA Federal #009H well (API# 30-025-45420), the Cave Lion 5 TB Federal #012H well (API# 30-025-45422), and the Cave Lion 5 TB Federal #015H well (API# 30-025-45419) located in Section 5, T26S-R35E, Lea County, New Mexico. There was no compulsory pooling completed for these wells. The working, royalty and overriding royalty interests and owners in these six wells are identical.

Should you have any questions please do not hesitate to contact me at 713-296-3159 or by email at jbroussard1@marathonoil.com.

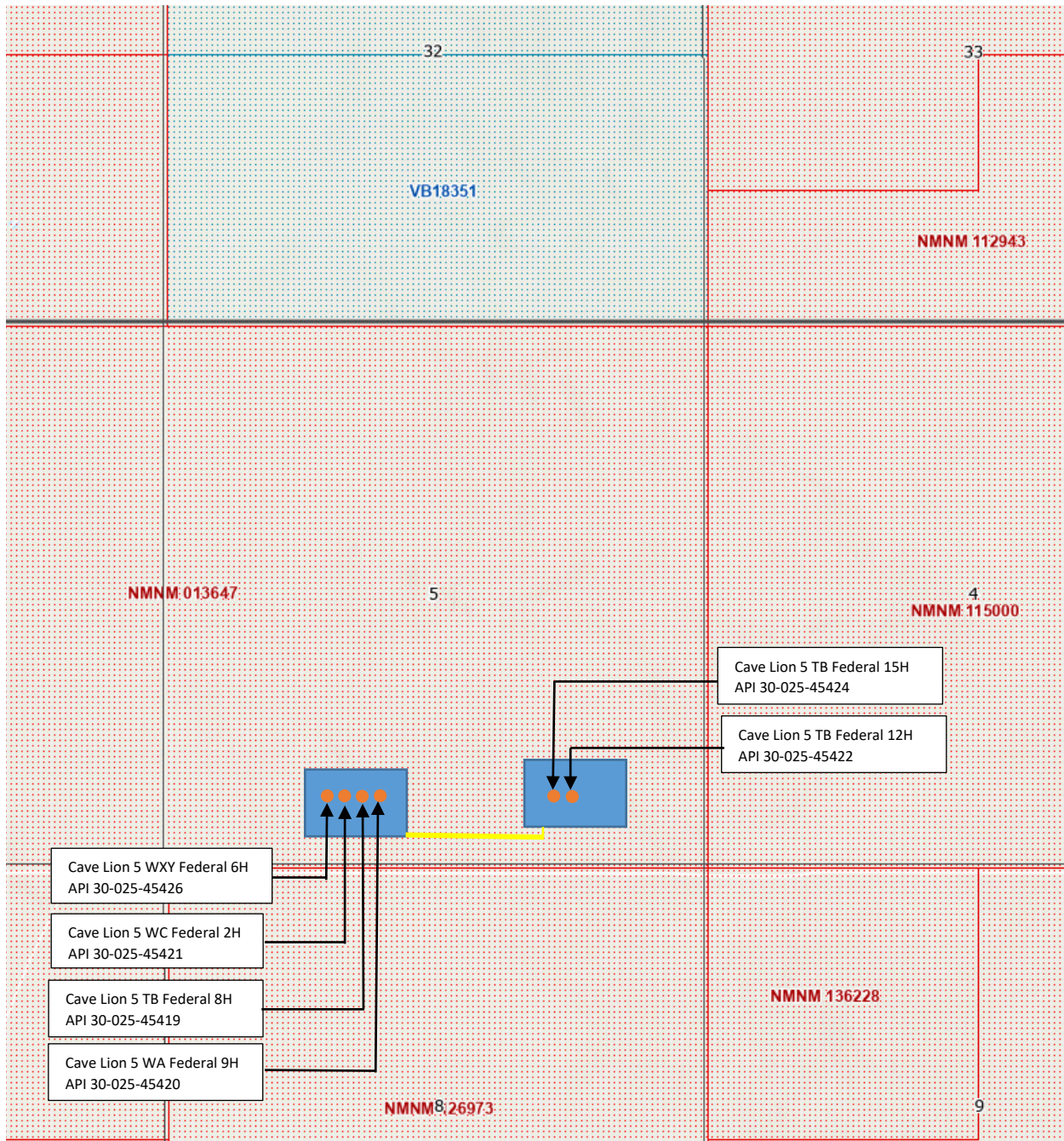
Sincerely,

A handwritten signature in blue ink, appearing to read 'J. Broussard', with a stylized flourish at the end.

Jeff Broussard
Land Professional
Lea County, New Mexico

SURFACE COMMINGLING
CAVE LION 5 FEDERAL 2H 6H 8H 9H 12H 15H

LEASE MAP



Well Name	Well Number	US Well Number	Lease Number	Case Number	Operator
CAVE LION 5 WXY	6H	3002545426	NMNM13647	NMNM13647	MARATHON OIL
CAVE LION 5 WA	9H	3002545420	NMNM13647	NMNM13647	MARATHON OIL
CAVE LION 5 TB	8H	3002545419	NMNM13647	NMNM13647	MARATHON OIL
CAVE LION 5 WC	2H	3002545421	NMNM13647	NMNM13647	MARATHON OIL
CAVE LION 5 TB	12H	3002545422	NMNM13647	NMNM13647	MARATHON OIL
CAVE LION 5 TB	15H	3002545424	NMNM13647	NMNM13647	MARATHON OIL

Subsequent Report

Sundry ID: 2653042

Type of Submission: Subsequent Report

Date Sundry Submitted: 01/18/2022

Date Operation Actually Began: 01/18/2022

Type of Action: Other

Time Sundry Submitted: 10:51

Actual Procedure: Marathon Oil Permian LLC has submitted request to pool commingle with the NMOCD and notifying BLM per regulations. All wells are within the same Federal lease and not considered commingled wells per e-CFR.

SR Attachments

Actual Procedure

OCD_Submittal_Package___Commingle___Cave_Lion_2H_6H_8H_9H_12H_15H_20220118105114.pdf

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: ADRIAN COVARRUBIAS

Signed on: JAN 18, 2022 10:51 AM

Name: MARATHON OIL PERMIAN LLC

Title: regulatory Compliance Representative

Street Address: 990 TOWN & COUNTRY BLVD

City: HOUSTONState: TX

Phone: (713) 296-3368

Email address: acovarrubias@marathonoil.com

Field Representative

Representative Name:

Street Address:

City:State:Zip:

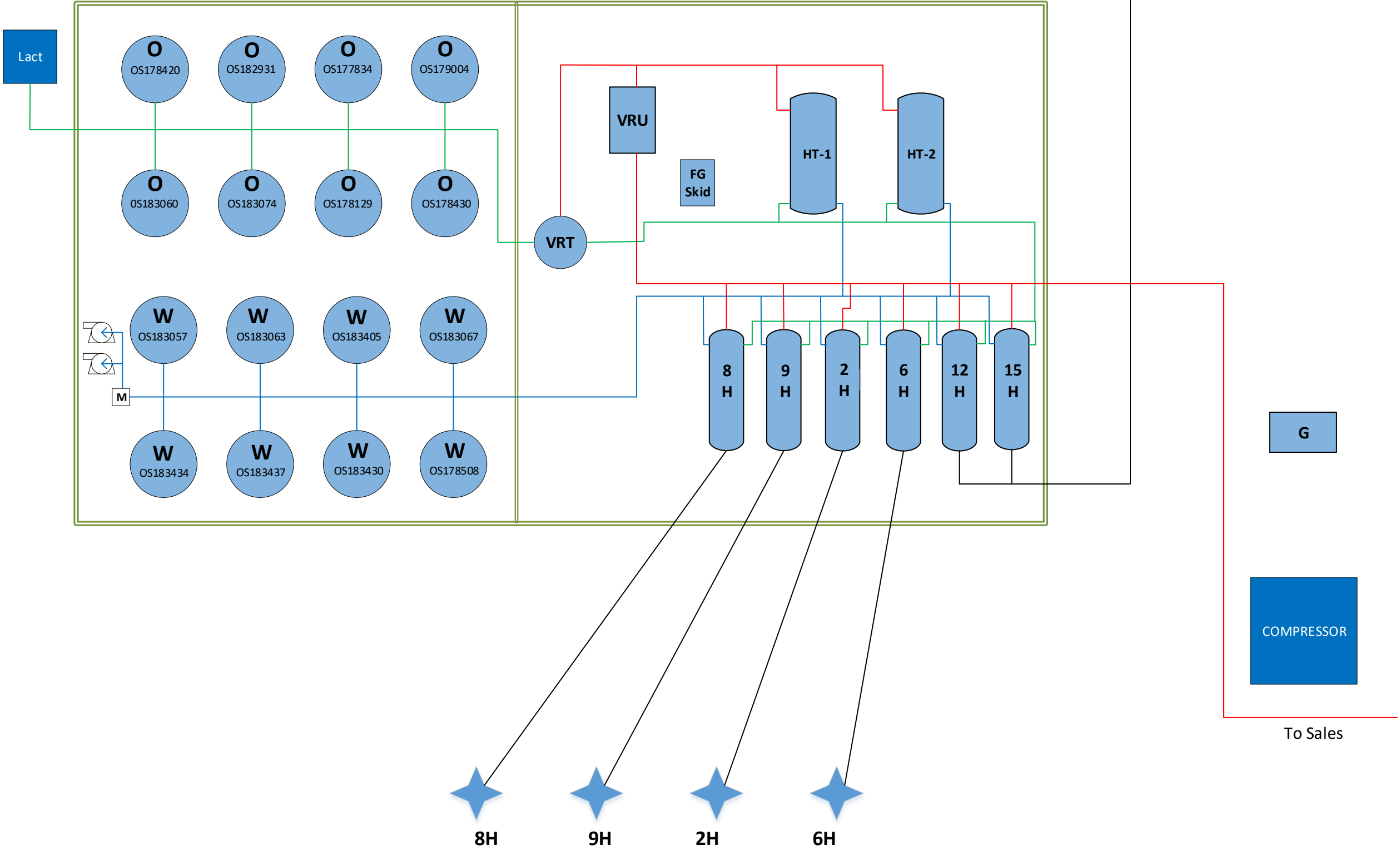
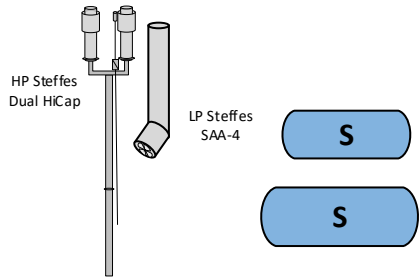
Phone:

Email address:

CAVE LION 26-35-5
2-6-8-9-12-15H CTB



Cave Lion 12H 15H Pad



LEGEND

- W = Water Storage Tank
- O = Oil Storage Tank
- GB = Gun Barrel Tank
- S = Separator
- HT = Heater Treater
- ★ = Well Head
- G = Generator
- P = Pump

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 3002545422	² Pool Code 97088	³ Pool Name WC-025 G-08 S2535340; BONE SPRING
⁴ Property Code	⁵ Property Name CAVE LION 5 TB FEDERAL	⁶ Well Number 12H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3228'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	5	26S	35E		450	SOUTH	1238	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	5	26S	35E		100	NORTH	330	EAST	LEA

¹² Dedicated Acres 160.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<p>CORNER COORDINATES NAD 83, SPCS NM EAST</p> <p>A - X: 835038.03' / Y: 388702.32' B - X: 835012.04' / Y: 391342.22' C - X: 834984.08' / Y: 393986.54' D - X: 836304.47' / Y: 393995.08' E - X: 836332.35' / Y: 391350.69' F - X: 836356.33' / Y: 388711.16'</p> <p>CORNER COORDINATES NAD 27, SPCS NM EAST</p> <p>A - X: 793850.36' / Y: 388644.71' B - X: 793824.48' / Y: 391284.54' C - X: 793796.64' / Y: 393928.78' D - X: 795117.01' / Y: 393937.31' E - X: 795144.78' / Y: 391292.99' F - X: 795168.64' / Y: 388653.54'</p>	<p>17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>	
		<p>18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>OCTOBER 27, 2020 Date of Survey</p> <p>Signature and Seal of Professional Surveyor _____</p> <p>Certificate Number DAVID W. MYERS 11403</p>

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99985058 Convergence Angle: 00°29'34.80475"

District I

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210
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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 3002545424	² Pool Code 97088	³ Pool Name WC-025 G-08 S2535340; BONE SPRING
⁴ Property Code	⁵ Property Name CAVE LION 5 TB FEDERAL	⁶ Well Number 15H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3228'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	5	26S	35E		450	SOUTH	1268	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	5	26S	35E		100	NORTH	1485	EAST	LEA

¹² Dedicated Acres 160.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

Defining Well 	CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 833719.73' / Y: 388693.48' B - X: 833691.73' / Y: 391333.75' C - X: 833663.69' / Y: 393977.99' D - X: 834984.08' / Y: 393986.54' E - X: 835012.04' / Y: 391342.22' F - X: 835038.03' / Y: 388702.32'	CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 792532.07' / Y: 388635.88' B - X: 792504.19' / Y: 391276.08' C - X: 792476.27' / Y: 393920.25' D - X: 793796.64' / Y: 393928.78' E - X: 793824.48' / Y: 391284.54' F - X: 793850.36' / Y: 388644.71'	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ E-mail Address _____	
	LAST TAKE POINT/BOTTOM HOLE LOCATION 100' FNL 1485' FEL, SECTION 5 NAD 83, SPCS NM EAST X: 834820.54' / Y: 393885.47' LAT: 32.07932756N / LON: 103.38577962W NAD 27, SPCS NM EAST X: 793633.10' / Y: 393827.73' LAT: 32.07920127N / LON: 103.38531673W			¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. OCTOBER 27, 2020 Date of Survey Signature and Seal of Professional Surveyor:
	KICK OFF POINT/FIRST TAKE POINT 100' FSL 1485' FEL, SECTION 5 NAD 83, SPCS NM EAST X: 834870.45' / Y: 388801.20' LAT: 32.06535174N / LON: 103.38576266W NAD 27, SPCS NM EAST X: 793682.79' / Y: 388743.59' LAT: 32.06522538N / LON: 103.38530055W			Certificate Number DAVID W. MYERS 11403
	SURFACE HOLE LOCATION 450' FSL 1268' FEL, SECTION 5 NAD 83, SPCS NM EAST X: 835084.28' / Y: 389152.58' LAT: 32.06631239N / LON: 103.38506250W NAD 27, SPCS NM EAST X: 793896.63' / Y: 389094.96' LAT: 32.06618603N / LON: 103.38460036W			

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99985058 Convergence Angle: 00°29'34.80475"

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Received by OCD: 1/18/2022 10:59:38 AM
Released to Imaging: 4/5/2022 1:13:42 PM

District I
625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
311 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
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1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT
As-Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-45426	² Pool Code 98117	³ Pool Name WC-025 G-09 S263504N; WOLFCAMP
⁴ Property Code 323004	Property Name CAVE LION 5 WXY FEDERAL	⁶ Well Number 6H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3263'

¹⁰ Surface Location

UL or lot no. N	Section 5	Township T26S	Range R35E	Lot Idn	Feet from the 287	North/South line SOUTH	Feet from the 1781	East/West line WEST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. D	Section 5	Township T26S	Range R35E	Lot Idn	Feet from the 101	North/South line NORTH	Feet from the 965	East/West line WEST	County LEA
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¹² Dedicated Acres 160.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<p>¹⁶</p> <p>SECTION 31 A SECTION 32 B SECTION 6 SECTION 5 SECTION 7 D SECTION 8 C KIP</p>	<p>T-25-S T-26-S</p> <p>LAST TAKE POINT/BOTTOM HOLE LOCATION 17,503' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X:831986.66 / Y:393864.79' LAT:32.07933880N / LON:103.39492877W NAD 27, SPCS NM EAST X:790799.25' / Y:393807.07' LAT:32.07921262N / LON:103.39446554W</p> <p>FIRST TAKE POINT 12,617' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X:832036.37' / Y:389004.92' LAT:32.06597975N / LON:103.39490475W NAD 27, SPCS NM EAST X:790848.75' / Y:388947.33' LAT:32.06585351N / LON:103.39444228W</p> <p>KICK OFF POINT 11,653' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X:832066.55' / Y:388782.14' LAT:32.06536671N / LON:103.39481358W NAD 27, SPCS NM EAST X:790878.92' / Y:388724.55' LAT:32.06524045N / LON:103.39435116W</p> <p>SURFACE HOLE LOCATION 287' FSL 1781 FWL, SECTION 5 NAD 83, SPCS NM EAST X:832852.39' / Y:388974.69' LAT:32.06587713N / LON:103.39227170W NAD 27, SPCS NM EAST X:791664.75' / Y:388917.09' LAT:32.06575085N / LON:103.39180929W</p> <p>CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 831020.60' / Y: 393959.45' B - X: 832342.14' / Y: 393968.72' C - X: 832397.11' / Y: 388684.41' D - X: 831074.50' / Y: 388675.34'</p> <p>CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 789833.20' / Y: 393901.74' B - X: 791154.74' / Y: 393911.00' C - X: 791209.47' / Y: 388626.82' D - X: 789886.87' / Y: 388617.76'</p>	<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p> Signature 1/23/2020 Date Adrian Covarrubias Printed Name E-mail Address</p> <p>¹⁸ SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well surface location shown on this plat was plotted from field notes of the as-staked surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Data used for underground measurements were provided by others for reference only and does not constitute field measurements performed by R-Squared Global.</p> <p>DECEMBER 18, 2019 Date of Survey Signature and Seal of Professional Surveyor Certificate Number LLOYD P. SHORT 21653</p>
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DISTANCES/AREAS RELATIVE TO NAD83 COMBINED SCALE FACTOR: 1.000006454
CONVERGENCE: 0.4997137472; NOTE: ALL DIMENSIONS IN U.S. FEET

3	12/18/2019	DEF
REV.	DATE	BY

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (505) 393-6161 Fax: (575) 393-0720

District II
11 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT
As-Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-45421	² Pool Code 98117	³ Pool Name WC-025 G-09 S263504N; WOLFCAMP
⁴ Property Code 319729	Property Name CAVE LION 5 WC FEDERAL	
⁶ Well Number 2H		
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3263'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	5	T26S	R35E		287	SOUTH	1811	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	5	T26S	R35E		617	NORTH	1317	WEST	LEA

¹² Dedicated Acres 320.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

SECTION 31		SECTION 32		SECTION 32	
<p>SECTION 6</p>		<p>T-25-S</p> <p>T-26-S</p> <p>LAST TAKE POINT/BOTTOM HOLE LOCATION 17,593' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 832343.62' / Y: 393351.31' LAT: 32.07791891N / LON: 103.39379083W NAD 27, SPCS NM EAST X: 791156.19' / Y: 393293.60' LAT: 32.0777927N / LON: 103.39332773W</p> <p>KICK OFF POINT/FIRST TAKE POINT 12,803' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 832374.16' / Y: 388784.25' LAT: 32.06536515N / LON: 103.39382062W NAD 27, SPCS NM EAST X: 791186.52' / Y: 388726.66' LAT: 32.06523888N / LON: 103.39335823W</p> <p>SURFACE HOLE LOCATION 287' FSL 1811' FWL, SECTION 5 NAD 83, SPCS NM EAST X: 832882.34' / Y: 388974.66' LAT: 32.06587633N / LON: 103.39217497W NAD 27, SPCS NM EAST X: 791694.71' / Y: 388917.06' LAT: 32.06575005N / LON: 103.39171261W</p> <p>CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 831020.60' / Y: 393959.45' B - X: 833663.69' / Y: 393977.99' C - X: 833719.73' / Y: 388693.48' D - X: 831074.50' / Y: 388675.34'</p>		<p>SECTION 5</p>	
<p>SECTION 6</p> <p>SECTION 7</p>		<p>SECTION 8</p> <p>SECTION 8</p>		<p>SEC. 5</p> <p>SEC. 8</p>	

DISTANCES/AREAS RELATIVE TO NAD83 COMBINED SCALE FACTOR: 1.000006454
 CONVERGENCE: 0.4997137472; NOTE: ALL DIMENSIONS IN U.S. FEET

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

[Signature] **1/23/2020**

Signature _____ Date _____

Adrian Covarrubias

Printed Name _____

E-mail Address _____

18 SURVEYOR CERTIFICATION

I hereby certify that the well surface location shown on this plat was plotted from field notes of the as-staked surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Data used for underground measurements were provided by others for reference only and does not constitute field measurements performed by R-Squared Global.

DECEMBER 18, 2019

Date of Survey _____

Signature and Seal of Professional Surveyor _____

Certificate Number _____
LLOYD P. SHORT 21653

SHEET OF
JOB NO. R3767_0

Page 13 of 20
Received by OCD: 1/18/2022 10:59:38 AM
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OIL CONSERVATION DIVISION
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Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT
As-Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-45420	² Pool Code 98117	³ Pool Name WC-025 G-09 S263504N; WOLFCAMP
⁴ Property Code 323002	Property Name CAVE LION 5 WA FEDERAL	
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁶ Well Number 9H
		⁹ Elevation 3262'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	5	T26S	R35E		287	SOUTH	1871	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	5	T26S	R35E		100	NORTH	2293	WEST	LEA

¹² Dedicated Acres 160.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁶

¹⁷ OPERATOR CERTIFICATION

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[Signature] 1/23/2020
Signature Date
Adrian Covarrubias
Printed Name
E-mail Address

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well surface location shown on this plat was plotted from field notes of the as-staked surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Data used for underground measurements were provided by others for reference only and does not constitute field measurements performed by R-Squared Global. DECEMBER 18, 2019

Date of Survey
Signature and Seal of Professional Surveyor
[Signature]
LLOYD P. SHORT
NEW MEXICO
21653
PROFESSIONAL SURVEYOR

Certificate Number
LLOYD P. SHORT 21653

DISTANCES/AREAS RELATIVE TO NAD83 COMBINED SCALE FACTOR: 1.000006454
CONVERGENCE: 0.4997137472; NOTE: ALL DIMENSIONS IN U.S. FEET

2	12/18/19	DEF
REV.	DATE	BY

SHEET 1 OF 1
JOB No. R3757_005

Page 14 of 20
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Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT
As-Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-45419	² Pool Code 97088	³ Pool Name WC-025 G-08 S2535340; BONE SPRING
⁴ Property Code 319699	Property Name CAVE LION 5 TB FEDERAL	
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁶ Well Number 8H
		⁹ Elevation 3262'

¹⁰ Surface Location

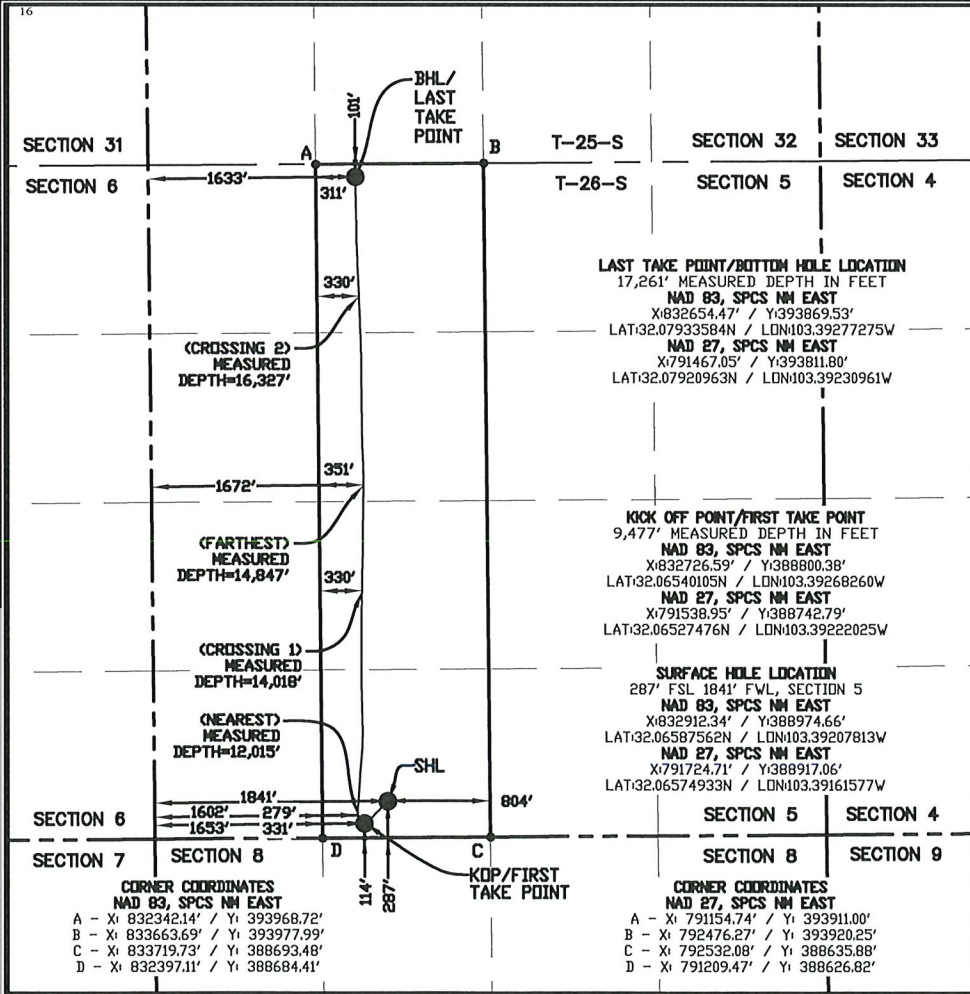

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	5	T26S	R35E		287'	SOUTH	1841'	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	5	T26S	R35E		101'	NORTH	1633'	WEST	LEA

¹² Dedicated Acres 160.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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¹⁶				¹⁷ OPERATOR CERTIFICATION			
				I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.			
				Signature Adrian Covarrubias		Date 1/23/2020	
				Printed Name			
				E-mail Address			
¹⁸ SURVEYOR CERTIFICATION				I hereby certify that the well surface location shown on this plat was plotted from field notes of the as-staked surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Data used for underground measurements were provided by others for reference only and does not constitute field measurements performed by R-Squared Global. DECEMBER 18, 2019			
Date of Survey				Signature and Seal of Professional Surveyor 			
Certificate Number LLOYD P. SHORT 21653							
DISTANCES/AREAS RELATIVE TO NAD83 COMBINED SCALE FACTOR: 1.000006454 CONVERGENCE: 0.4997137472; NOTE: ALL DIMENSIONS IN U.S. FEET				2 12/18/2019 DEF REV. DATE BY			

From: [McClure, Dean, EMNRD](#)
To: [Covarrubias, Adrian \(MRO\)](#)
Cc: [McClure, Dean, EMNRD](#); [Kautz, Paul, EMNRD](#); [Wrinkle, Justin, EMNRD](#); [Powell, Brandon, EMNRD](#); lisa@rwbyram.com; [Glover, James](#); [Paradis, Kyle O](#); [Walls, Christopher](#)
Subject: Approved Administrative Order PC-1369-A
Date: Tuesday, April 5, 2022 12:49:54 PM
Attachments: [PC1369A Order.pdf](#)

NMOCD has issued Administrative Order PC-1369-A which authorizes Marathon Oil Permian, LLC (372098) to surface commingle or off-lease measure, as applicable, the following wells:

Well API	Well Name	UL or Q/Q	S-T-R	Pool
30-025-45421	Cave Lion 5 WC Federal #2H	W/2	5-26S-35E	98117
30-025-45426	Cave Lion 5 WXY Federal #6H	W/2 W/2	5-26S-35E	98117
30-025-45419	Cave Lion 5 TB Federal #8H	E/2 W/2	5-26S-35E	97088
30-025-45420	Cave Lion 5 WA Federal #9H	E/2 W/2	5-26S-35E	98117
30-025-45422	Cave Lion 5 TB Federal #12H	E/2 E/2	5-26S-35E	97088
30-025-45424	Cave Lion 5 TB Federal #15H	W/2 E/2	5-26S-35E	97088

The administrative order is attached to this email and can also be found online at OCD Imaging.

Please review the content of the order to ensure you are familiar with the authorities granted and any conditions of approval. If you have any questions regarding this matter, please contact me.

Dean McClure
 Petroleum Engineer, Oil Conservation Division
 New Mexico Energy, Minerals and Natural Resources Department
 (505) 469-8211

**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

**APPLICATION FOR SURFACE COMMINGLING
SUBMITTED BY MARATHON OIL PERMIAN, LLC**

ORDER NO. PC-1369-A

ORDER

The Director of the New Mexico Oil Conservation Division (“OCD”), having considered the application and the recommendation of the OCD Engineering Bureau, issues the following Order.

FINDINGS OF FACT

1. Marathon Oil Permian, LLC (“Applicant”) submitted a complete application to surface commingle the oil and gas production from the pools, leases, and wells identified in Exhibit A (“Application”).
2. Applicant proposed a method to allocate the oil and gas production to the pools, leases, and wells to be commingled.
3. To the extent that ownership is identical, Applicant submitted a certification by a licensed attorney or qualified petroleum landman that the ownership in the pools, leases, and wells to be commingled is identical as defined in 19.15.12.7.B. NMAC.
4. To the extent that ownership is diverse, Applicant provided notice of the Application to all persons owning an interest in the oil and gas production to be commingled, including the owners of royalty and overriding royalty interests, regardless of whether they have a right or option to take their interests in kind, and those persons either submitted a written waiver or did not file an objection to the Application.
5. Applicant provided notice of the Application to the Bureau of Land Management (“BLM”) or New Mexico State Land Office (“NMSLO”), as applicable.
6. Applicant certified the commingling of oil and gas production from the pools, leases, and wells will not in reasonable probability reduce the value of the oil and gas production to less than if it had remained segregated.

CONCLUSIONS OF LAW

7. OCD has jurisdiction to issue this Order pursuant to the Oil and Gas Act, NMSA 1978, §§ 70-2-6, 70-2-11, 70-2-12, 70-2-16, and 70-2-17, 19.15.12. NMAC, and 19.15.23. NMAC.
8. Applicant satisfied the notice requirements for the Application in accordance with 19.15.12.10.A.(2) NMAC, 19.15.12.10.C.(4)(c) NMAC, and 19.15.12.10.C.(4)(e) NMAC, as applicable.

9. Applicant satisfied the notice requirements for the Application in accordance with 19.15.23.9.A.(5) NMAC and 19.15.23.9.A.(6) NMAC, as applicable.
10. Applicant's proposed method of allocation, as modified herein, complies with 19.15.12.10.B.(1) NMAC or 19.15.12.10.C.(1) NMAC, as applicable.
11. Commingling of oil and gas production from state, federal, or tribal leases shall not commence until approved by the BLM or NMSLO, as applicable, in accordance with 19.15.12.10.B.(3) NMAC and 19.15.12.10.C.(4)(h) NMAC.
12. By granting the Application with the conditions specified below, this Order prevents waste and protects correlative rights, public health, and the environment.

ORDER

1. Applicant is authorized to surface commingle oil and gas production from the pools, leases, and wells identified in Exhibit A.
2. The oil and gas production for each well identified in Exhibit A shall be separated and metered prior to commingling.
3. Applicant shall measure and market the commingled oil at a central tank battery described in Exhibit A in accordance with this Order and 19.15.18.15. NMAC or 19.15.23.8. NMAC.
4. Applicant shall measure and market the commingled gas at a well pad, central delivery point, central tank battery, or gas title transfer meter described in Exhibit A in accordance with this Order and 19.15.19.9. NMAC, provided however that if the gas is vented or flared, and regardless of the reason or authorization pursuant to 19.15.28.8.B. NMAC for such venting or flaring, Applicant shall measure or estimate the gas in accordance with 19.15.28.8.E. NMAC.
5. Applicant shall calibrate the meters used to measure or allocate oil and gas production in accordance with 19.15.12.10.C.(2) NMAC.
6. If the commingling of oil and gas production from any pool, lease, or well reduces the value of the commingled oil and gas production to less than if it had remained segregated, no later than sixty (60) days after the decrease in value has occurred Applicant shall submit a new surface commingling application to OCD to amend this Order to remove the pool, lease, or well whose oil and gas production caused the decrease in value. If Applicant fails to submit a new application, this Order shall terminate on the following day, and if OCD denies the application, this Order shall terminate on the date of such action.
7. Applicant shall not commence commingling oil or gas production from state, federal, or tribal leases until approved by the BLM or NMSLO, as applicable.
8. If OCD determines that Applicant has failed to comply with any provision of this Order, OCD may take any action authorized by the Oil and Gas Act or the New Mexico Administrative Code (NMAC).

9. OCD retains jurisdiction of this matter and reserves the right to modify or revoke this Order as it deems necessary.

**STATE OF NEW MEXICO
OIL CONSERVATION DIVISION**



**ADRIENNE E. SANDOVAL
DIRECTOR**

DATE: 4/05/2022

State of New Mexico
Energy, Minerals and Natural Resources Department

Exhibit A

Order: **PC-1369-A**

Operator: **Marathon Oil Permian, LLC (372098)**

Central Tank Battery: **Cave 5 Federal 26859 Tank Battery**

Central Tank Battery Location: **UL N, Section 5, Township 26 South, Range 35 East**

Gas Title Transfer Meter Location: **UL N, Section 5, Township 26 South, Range 35 East**

Pools

Pool Name	Pool Code
WC-025 G-08 S2535340; BONE SPRING	97088
WC-025 G-09 S263504N; WOLFCAMP	98117

Leases as defined in 19.15.12.7(C) NMAC

Lease	UL or Q/Q	S-T-R
NMNM 013647	All	5-26S-35E

Wells

Well API	Well Name	UL or Q/Q	S-T-R	Pool
30-025-45421	Cave Lion 5 WC Federal #2H	W/2	5-26S-35E	98117
30-025-45426	Cave Lion 5 WXY Federal #6H	W/2 W/2	5-26S-35E	98117
30-025-45419	Cave Lion 5 TB Federal #8H	E/2 W/2	5-26S-35E	97088
30-025-45420	Cave Lion 5 WA Federal #9H	E/2 W/2	5-26S-35E	98117
30-025-45422	Cave Lion 5 TB Federal #12H	E/2 E/2	5-26S-35E	97088
30-025-45424	Cave Lion 5 TB Federal #15H	W/2 E/2	5-26S-35E	97088

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 73134

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 73134
	Action Type: [C-107] Surface Commingle or Off-Lease (C-107B)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	Please review the content of the order to ensure you are familiar with the authorities granted and any conditions of approval. If you have any questions regarding this matter, please contact me.	4/5/2022