

CASE NOS. 21940 and 21949 - 21951

**APPLICATIONS OF TAP ROCK RESOURCES, LLC FOR COMPULSORY POOLING,
LEA COUNTY, NEW MEXICO**

EXHIBITS

- A. Applications and Proposed Notices
- B. Landman's Affidavit (Erica Hixson)
- C. Geologist's Affidavit (Emily Lange)
- D. Affidavit of Notice
- F. Pooling Checklists

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

**APPLICATION OF TAP ROCK RESOURCES,
LLC FOR COMPULSORY POOLING, LEA
COUNTY, NEW MEXICO.**

Case No. 21940

APPLICATION

Tap Rock Resources, LLC applies for an order pooling all uncommitted mineral interest owners in the Wolfbone formation (WC-025 G-09 S243532M; Wolfbone, Pool Code 98098) underlying a horizontal spacing unit comprised of the E/2W/2 of Section 34, Township 24 South, Range 35 East, NMPM, and the E/2NW/4 of Section 3, Township 25 South, Range 35 East, NMPM, Lea County, New Mexico, and in support thereof, states:

1. Applicant is a working interest owner in the E/2W/2 of Section 34 and the E/2NW/4 of Section 3, and has the right to drill a well or wells thereon.
2. Applicant proposes to drill the Mulva Fed. Com. Well Nos. 132H, 212H, and 217H to depths sufficient to test the Wolfbone formation, and to dedicate the E/2W/2 of Section 34 and the E/2NW/4 of Section 3 to the wells. The wells have first take points in the NE/4NW/4 of Section 34 and last take points in the SE/4NW/4 of Section 3.
3. Applicant has in good faith sought to obtain voluntary joinder of all other mineral interest owners in the E/2W/2 of Section 34 and the E/2NW/4 of Section 3.
4. Although applicant attempted to obtain to obtain voluntary agreements from all mineral interest owners to participate in the drilling of the well or to otherwise commit their interests to the well, certain interest owners have failed or refused to join in dedicating their interests. Therefore, applicant seeks an order pooling all mineral interest owners in the Wolfbone

EXHIBIT

A


formation underlying the E/2W/2 of Section 34 and the E/2NW/4 of Section 3, pursuant to NMSA 1978 §70-2-17.

5. The pooling of mineral interest owners in the Wolfbone formation underlying the E/2W/2 of Section 34 and the E/2NW/4 of Section 3 will avoid the drilling of unnecessary wells, prevent waste, and protect correlative rights.

WHEREFORE, applicant requests that, after notice and hearing, the Division enter its order:

- A. Pooling all uncommitted mineral interest owners in the Wolfbone formation underlying the E/2W/2 of Section 34 and the E/2NW/4 of Section 3;
- B. Designating Tap Rock Operating, LLC as operator of the wells;
- C. Considering the cost of drilling, completing, and equipping the wells, and allocating the costs thereof among the wells' working interest owners;
- D. Approving actual operating charges and costs charged for supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedure; and
- E. Setting a 200% charge for the risk assumed by applicant in drilling, completing, and equipping the wells in the event a working interest owner elects not to participate in the wells.

Respectfully submitted,



James Bruce
Post Office Box 1056
Santa Fe, New Mexico 87504
(505) 982-2043

jamesbruc@aol.com

Attorney for Tap Rock Resources, LLC

Application of Tap Rock Resources, LLC for a compulsory pooling, Lea County, New Mexico.

Tap Rock Resources, LLC seeks an order pooling all mineral interest owners in the Wolfbone formation underlying a horizontal spacing unit comprised of the E/2W/2 of Section 34, Township 24 South, Range 35 East, NMPM, and the E/2NW/4 of Section 3, Township 25 South, Range 35 East, NMPM, Lea County, New Mexico. The unit will be dedicated to the Mulva Fed. Com. Well Nos. 132H, 212H, and 217H, which have first take points in the NE/4NW/4 of Section 34 and last take points in the SE/4NW/4 of Section 3. Also to be considered will be the cost of drilling, completing, and equipping the wells and the allocation of the cost thereof, as well as actual operating costs and charges for supervision, designation of Tap Rock Operating, LLC as operator of the wells, and a 200% charge for the risk involved in drilling, completing, and equipping the wells. The unit is located approximately 10-1/2 miles northwest of Jal, New Mexico.

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

**APPLICATION OF TAP ROCK RESOURCES,
LLC FOR COMPULSORY POOLING, LEA
COUNTY, NEW MEXICO.**

Case No. 21949

APPLICATION

Tap Rock Resources, LLC applies for an order pooling all uncommitted mineral interest owners in the Bone Spring formation underlying a horizontal spacing unit comprised of the E/2W/2 of Section 34, Township 24 South, Range 35 East, NMPM, and the E/2NW/4 of Section 3, Township 25 South, Range 35 East, NMPM, Lea County, New Mexico, and in support thereof, states:

1. Applicant is a working interest owner in the E/2W/2 of Section 34 and the E/2NW/4 of Section 3, and has the right to drill a well thereon.
2. Applicant proposes to drill the Mulva Fed. Com. Well No. 112H to a depth sufficient to test the Bone Spring formation, and to dedicate the E/2W/2 of Section 34 and the E/2NW/4 of Section 3 to the well. The well has a first take point in the NE/4NW/4 of Section 34 and a last take point in the SE/4NW/4 of Section 3.
3. Applicant has in good faith sought to obtain voluntary joinder of all other mineral interest owners in the E/2W/2 of Section 34 and the E/2NW/4 of Section 3.
4. Although applicant attempted to obtain to obtain voluntary agreements from all mineral interest owners to participate in the drilling of the well or to otherwise commit their interests to the well, certain interest owners have failed or refused to join in dedicating their interests. Therefore, applicant seeks an order pooling all mineral interest owners in the Bone

Spring formation underlying the E/2W/2 of Section 34 and the E/2NW/4 of Section 3, pursuant to NMSA 1978 §70-2-17.

5. The pooling of mineral interest owners in the Bone Spring formation underlying the E/2W/2 of Section 34 and the E/2NW/4 of Section 3 will avoid the drilling of unnecessary wells, prevent waste, and protect correlative rights.

WHEREFORE, applicant requests that, after notice and hearing, the Division enter its order:

- A. Pooling all uncommitted mineral interest owners in the Bone Spring formation underlying the E/2W/2 of Section 34 and the E/2NW/4 of Section 3;
- B. Designating Tap Rock Operating, LLC as operator of the well;
- C. Considering the cost of drilling, completing, and equipping the well, and allocating the costs thereof among the well's working interest owners;
- D. Approving actual operating charges and costs charged for supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedure; and
- E. Setting a 200% charge for the risk assumed by applicant in drilling, completing, and equipping the well in the event a working interest owner elects not to participate in the well.

Respectfully submitted,

COPY

James Bruce
Post Office Box 1056
Santa Fe, New Mexico 87504
(505) 982-2043

jamesbruc@aol.com

Attorney for Tap Rock Resources, LLC

Application of Tap Rock Resources, LLC for a compulsory pooling, Lea County, New Mexico.

Tap Rock Resources, LLC seeks an order pooling all mineral interest owners in the Bone Spring formation underlying a horizontal spacing unit comprised of the E/2W/2 of Section 34, Township 24 South, Range 35 East, NMPM, and the E/2NW/4 of Section 3, Township 25 South, Range 35 East, NMPM, Lea County, New Mexico. The unit will be dedicated to the Mulva Fed. Com. Well No. 112H, which has a first take point in the NE/4NW/4 of Section 34 and a last take point in the SE/4NW/4 of Section 3. Also to be considered will be the cost of drilling, completing, and equipping the well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision, designation of Tap Rock Operating, LLC as operator of the well, and a 200% charge for the risk involved in drilling, completing, and equipping the well. The unit is located approximately 10-1/2 miles northwest of Jal, New Mexico.

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

**APPLICATION OF TAP ROCK RESOURCES,
LLC FOR COMPULSORY POOLING, LEA
COUNTY, NEW MEXICO.**

Case No. 21950

APPLICATION

Tap Rock Resources, LLC applies for an order pooling all uncommitted mineral interest owners in the Wolfbone formation (WC-025 G-09 S243532M; Wolfbone, Pool Code 98098) underlying a horizontal spacing unit comprised of the W/2W/2 of Section 34, Township 24 South, Range 35 East, NMPM, and the W/2NW/4 of Section 3, Township 25 South, Range 35 East, NMPM, Lea County, New Mexico, and in support thereof, states:

1. Applicant is a working interest owner in the W/2W/2 of Section 34 and the W/2NW/4 of Section 3, and has the right to drill a well or wells thereon.
2. Applicant proposes to drill the Mulva Fed. Com. Well Nos. 131H, 211H, and 215H to depths sufficient to test the Wolfbone formation, and to dedicate the W/2W/2 of Section 34 and the W/2NW/4 of Section 3 to the wells. The wells have first take points in the NW/4NW/4 of Section 34 and last take points in the SW/4NW/4 of Section 3.
3. Applicant has in good faith sought to obtain voluntary joinder of all other mineral interest owners in the W/2W/2 of Section 34 and the W/2NW/4 of Section 3.
4. Although applicant attempted to obtain to obtain voluntary agreements from all mineral interest owners to participate in the drilling of the well or to otherwise commit their interests to the well, certain interest owners have failed or refused to join in dedicating their interests. Therefore, applicant seeks an order pooling all mineral interest owners in the Wolfbone

formation underlying the W/2W/2 of Section 34 and the W/2NW/4 of Section 3, pursuant to NMSA 1978 §70-2-17.

5. The pooling of mineral interest owners in the Wolfbone formation underlying the W/2W/2 of Section 34 and the W/2NW/4 of Section 3 will avoid the drilling of unnecessary wells, prevent waste, and protect correlative rights.

WHEREFORE, applicant requests that, after notice and hearing, the Division enter its order:

- A. Pooling all uncommitted mineral interest owners in the Wolfbone formation underlying the W/2W/2 of Section 34 and the W/2NW/4 of Section 3;
- B. Designating Tap Rock Operating, LLC as operator of the wells;
- C. Considering the cost of drilling, completing, and equipping the wells, and allocating the costs thereof among the wells' working interest owners;
- D. Approving actual operating charges and costs charged for supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedure; and
- E. Setting a 200% charge for the risk assumed by applicant in drilling, completing, and equipping the wells in the event a working interest owner elects not to participate in the wells.

Respectfully submitted,

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Attorney for Tap Rock Resources, LLC

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

**APPLICATION OF TAP ROCK RESOURCES,
LLC FOR COMPULSORY POOLING, LEA
COUNTY, NEW MEXICO.**

Case No. 21951

APPLICATION

Tap Rock Resources, LLC applies for an order pooling all uncommitted mineral interest owners in the Bone Spring formation underlying a horizontal spacing unit comprised of the W/2W/2 of Section 34, Township 24 South, Range 35 East, NMPM, and the W/2NW/4 of Section 3, Township 25 South, Range 35 East, NMPM, Lea County, New Mexico, and in support thereof, states:

1. Applicant is a working interest owner in the W/2W/2 of Section 34 and the W/2NW/4 of Section 3, and has the right to drill a well thereon.
2. Applicant proposes to drill the Mulva Fed. Com. Well No. 111H to a depth sufficient to test the Bone Spring formation, and to dedicate the W/2W/2 of Section 34 and the W/2NW/4 of Section 3 to the well. The well has a first take point in the NW/4NW/4 of Section 34 and a last take point in the SW/4NW/4 of Section 3.
3. Applicant has in good faith sought to obtain voluntary joinder of all other mineral interest owners in the W/2W/2 of Section 34 and the W/2NW/4 of Section 3.
4. Although applicant attempted to obtain to obtain voluntary agreements from all mineral interest owners to participate in the drilling of the well or to otherwise commit their interests to the well, certain interest owners have failed or refused to join in dedicating their interests. Therefore, applicant seeks an order pooling all mineral interest owners in the Bone

Spring formation underlying the W/2W/2 of Section 34 and the W/2NW/4 of Section 3, pursuant to NMSA 1978 §70-2-17.

5. The pooling of mineral interest owners in the Bone Spring formation underlying the W/2W/2 of Section 34 and the W/2NW/4 of Section 3 will avoid the drilling of unnecessary wells, prevent waste, and protect correlative rights.

WHEREFORE, applicant requests that, after notice and hearing, the Division enter its order:

- A. Pooling all uncommitted mineral interest owners in the W/2W/2 of Section 34 and the W/2NW/4 of Section 3;
- B. Designating Tap Rock Operating, LLC as operator of the well;
- C. Considering the cost of drilling, completing, and equipping the well, and allocating the costs thereof among the well's working interest owners;
- D. Approving actual operating charges and costs charged for supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedure; and
- E. Setting a 200% charge for the risk assumed by applicant in drilling, completing, and equipping the well in the event a working interest owner elects not to participate in the well.

Respectfully submitted,

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Attorney for Tap Rock Resources, LLC

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Tap Rock Resources, LLC seeks an order pooling all mineral interest owners in the Bone Spring formation underlying a horizontal spacing unit comprised of the W/2W/2 of Section 34, Township 24 South, Range 35 East, NMPM, and the W/2NW/4 of Section 3, Township 25 South, Range 35 East, NMPM, Lea County, New Mexico. The unit will be dedicated to the Mulva Fed. Com. Well No. 111H, which has a first take point in the NW/4NW/4 of Section 34 and a last take point in the SW/4NW/4 of Section 3. Also to be considered will be the cost of drilling, completing, and equipping the well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision, designation of Tap Rock Operating, LLC as operator of the well, and a 200% charge for the risk involved in drilling, completing, and equipping the well. The unit is located approximately 10-1/2 miles northwest of Jal, New Mexico.

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

**APPLICATION OF TAP ROCK OPERATING, LLC
FOR A STANDARD HORIZONTAL SPACING
AND PRORATION UNIT AND COMPULSORY POOLING,
LEA COUNTY, NEW MEXICO**

**Case Nos. 21951,
21949, 21950, and
21940**

AFFIDAVIT OF ERICA HIXSON

I, being duly sworn on oath, state the following:

1. I am over the age of eighteen years and have the capacity to execute this Affidavit, which is based on my personal knowledge.
2. I am employed as a Landman with Tap Rock Operating, LLC ("Tap Rock"), and I am familiar with the subject application and the lands involved.
3. This affidavit is submitted in connection with the filing by Tap Rock of the above-referenced compulsory pooling applications pursuant to 19.15.4.12.A(1) NMAC.
4. I have previously testified before the New Mexico Oil Conservation Division as an expert witness in petroleum land matters. My credentials as a petroleum landman have been accepted by the Division and made a matter of record.
5. The purpose of this application is to force pool potentially unleased mineral interest owners into the horizontal spacing units ("HSUs") described below, and in the wells to be drilled in the units.
6. No opposition is expected. The New Mexico Department of Transportation ("NMDOT") received the well proposals, to which they did not respond. Tap Rock seeks these

applications out of an abundance of caution as there is a title dispute and NMDOT may or may not own a valid mineral interest in the HSUs.

7. Tap Rock seeks an order pooling all mineral interests in the [98294] WC-025 G-07 S243517D; Middle Bone Spring pool underlying the W/2W/2 of Section 34, Township 24 South, Range 35 East, and the W/2NW/4 of Section 3, Township 25 South, Range 35 East, NMPM, Lea County, New Mexico. The proposed 240.81 acre spacing unit will be dedicated to the Mulva Fed Com #111H well as the defining well for the unit.

8. Tap Rock also seeks an order pooling all mineral interests in the [98294] WC-025 G-07 S243517D; Middle Bone Spring pool underlying the E/2W/2 of Section 34, Township 24 South, Range 35 East, and the E/2NW/4 of Section 3, Township 25 South, Range 35 East, NMPM, Lea County, New Mexico. The proposed 240.85 acre spacing unit will be dedicated to the Mulva Fed Com #112H well as the defining well for the unit.

9. Tap Rock also seeks an order pooling all mineral interests in the [98098] WC-025 G-09 S243532M; Wolfbone pool underlying the W/2W/2 of Section 34, Township 24 South, Range 35 East, and the W/2NW/4 of Section 3, Township 25 South, Range 35 East, NMPM, Lea County, New Mexico. The proposed 240.81 acre spacing unit will be dedicated to the Mulva Fed Com #131H, #211H, and #215H wells, with the Mulva Fed Com #211H well as the defining well for the unit.

10. Tap Rock also seeks an order pooling all mineral interests in the [98098] WC-025 G-09 S243532M; Wolfbone pool underlying the E/2W/2 of Section 34, Township 24 South, Range 35 East, and the E/2NW/4 of Section 3, Township 25 South, Range 35 East, NMPM, Lea County, New Mexico. The proposed 240.85 acre spacing unit will be dedicated to the Mulva Fed Com

#132H, #212H, and #217H wells, with the Mulva Fed Com #212H well as the defining well for the unit.

11. A proposed C-102 for each well is attached as **Exhibit 1**. The wells will develop the WC-025 G-07 S243517D; Middle Bone Spring and WC-025 G-09 S243532M; Wolfbone pools, which are oil pools.

12. The proposed surface hole, bottom hole, and first take point for each well can be found in the attached **Exhibit 1**. The proposed total vertical depth for each well can be found in the attached **Exhibit 5**.

13. A tract map containing the composition of the HSUs is attached hereto as **Exhibit 2** and shows that the HSUs are comprised of fee, state and federal interests.

14. The parties being pooled and the nature of their interest are found in **Exhibit 4** attached hereto. **Exhibit 4** also includes information regarding the interest owners.

15. There are no depth severances in the Bone Spring or Wolfcamp formation in the proposed HSUs.

16. I have conducted a diligent search of the public records in Lea County, New Mexico, where the wells will be located, and conducted phone directory and computer searches to obtain contact information for parties entitled to notification. I mailed all parties well proposals, including an Authorization for Expenditure ("AFE").

17. Tap Rock has made a good faith effort to obtain voluntary joinder of the working interest owners in the proposed wells.

18. **Exhibit 5** is a sample proposal letter and an AFE for each of the proposed wells. The estimated cost of each of the wells set forth in the AFE is fair, reasonable, and comparable to the costs of other wells of similar depths and lengths drilled in this area of New Mexico.

19. Tap Rock requests overhead and administrative rates of \$7000/month for drilling a well and \$700/month for a producing well. These rates are fair and comparable to the rates charged by other operators for wells of this type in this area of southeastern New Mexico. Tap Rock requests that these rates be adjusted periodically as provided in the COPAS Accounting Procedure.

20. Tap Rock requests the maximum cost, plus 200% risk charge be assessed against non-consenting unleased mineral owners and/or working interest owners.

21. Tap Rock requests that it be designated operator of the wells.

22. The Exhibits to this Affidavit were prepared by me, or compiled from Tap Rock's company business records.

23. The granting of this Application is in the interests of conservation, the prevention of waste, and the protection of correlative rights.

24. The foregoing is correct and complete to the best of my knowledge and belief.

FURTHER AFFIANT SAYETH NAUGHT

Erica Hixson
Erica Hixson

STATE OF COLORADO)
)ss
COUNTY OF JEFFERSON)

Subscribed to and sworn before me this 27 day of May, 2021.

EMILY KASA
Notary Public
State of Colorado
Notary ID # 20184039277
My Commission Expires 10-04-2022

Emily Kasa
Notary Public

My Commission expires 10-4-2022.

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

X AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-47341		² Pool Code 98294		³ Pool Name WC-025 G-07 S243517D; MIDDLE BONE SPRING	
⁴ Property Code 328302		⁵ Property Name MULVA FED COM		⁶ Well Number 111H	
⁷ OGRID No. 372043		⁸ Operator Name TAP ROCK OPERATING, LLC.		⁹ Elevation 3279'	

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	27	24-S	35-E	-	13'	SOUTH	760'	WEST	LEA

¹¹Bottom 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
E	3	25-S	35-E	-	2638'	SOUTH	658'	WEST	LEA

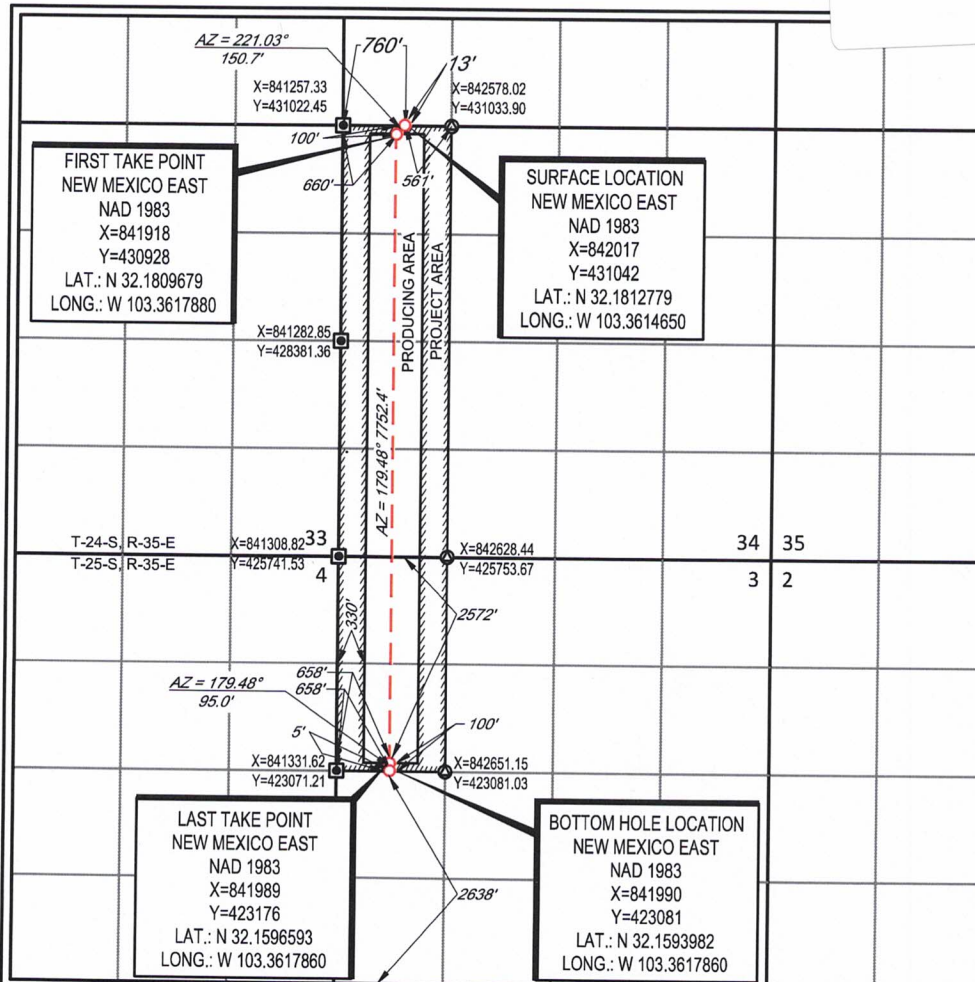
¹² Dedicated Acres 240.81	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated.

EXHIBIT

B-1

vision.



¹⁷OPERATOR 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.

Bill Ramsey
Signature
02/23/2021
Date

Bill Ramsey
Printed Name

bramsey@taprk.com
E-mail Address

¹⁸SURVEYOR 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 to the best of my belief.

07/25/2019
Date of Survey
Signature and Seal of Professional Surveyor

NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
11401
M. Ramsey
Certificate Number

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 30-025-47740	² Pool Code 98294	³ Pool Name WC-025 G-07 S243517D; MIDDLE BONE SP
⁴ Property Code 328302	⁵ Property Name MULVA FED COM	
⁷ OGRID No. #372043	⁸ Operator Name TAP ROCK OPERATING, LLC.	⁶ Well Number 112H ⁹ Elevation 3281'

¹⁰Surface Location

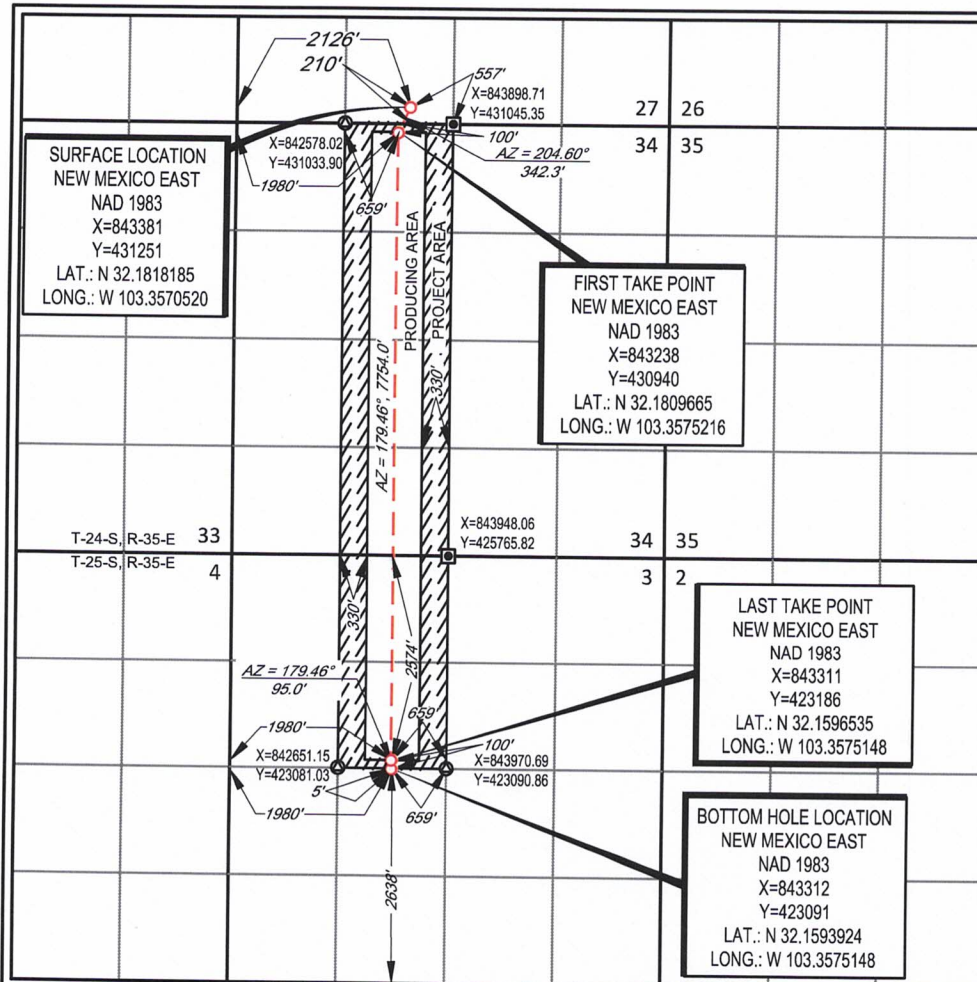
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	27	24-S	35-E	-	210'	SOUTH	2126'	WEST	LEA

¹¹Bottom 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
F	3	25-S	35-E	-	2638'	SOUTH	1980'	WEST	LEA

¹² Dedicated Acres 240.85	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.



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 _____

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 to the best of my belief.

Date of Survey 10/24/2019
Signature and Seal of Professional Surveyor

Certificate Number _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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Phone: (575) 748-1283 Fax: (575) 748-9720
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Phone: (505) 476-3460 Fax: (505) 476-3462

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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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-47342		² Pool Code 98098	³ Pool Name WC-025 G-09 S243532M; WOLFBONE
⁴ Property Code 328302	⁵ Property Name MULVA FED COM		⁶ Well Number 131H
⁷ OGRID No.	⁸ Operator Name TAP ROCK OPERATING, LLC.		⁹ Elevation 3281'

¹⁰Surface Location

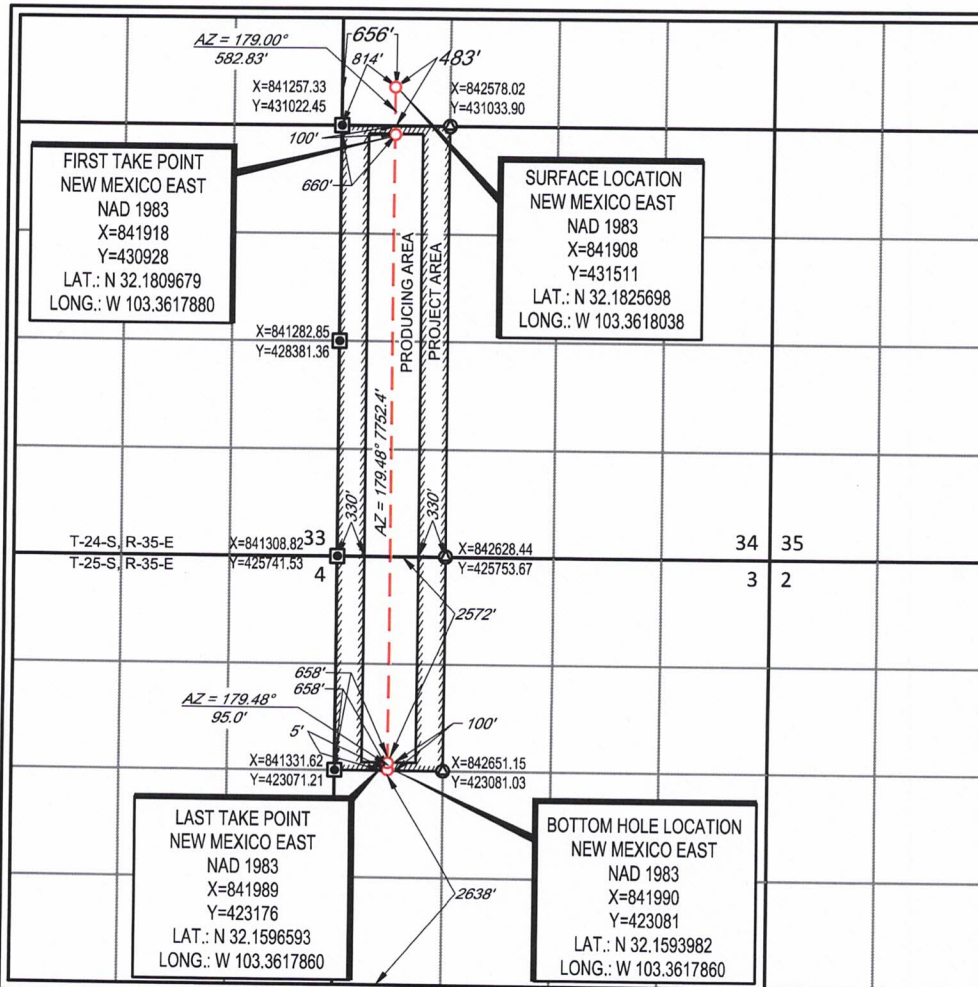
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	27	24-S	35-E	-	483'	SOUTH	656'	WEST	LEA

¹¹Bottom 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
E	3	25-S	35-E	-	2638'	SOUTH	658'	WEST	LEA

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
-------------------------------	-------------------------------	----------------------------------	-------------------------

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.



¹⁷OPERATOR 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 _____

¹⁸SURVEYOR 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 to the best of my belief.

Date of Survey: 07/25/2019
Signature and Seal of Professional Surveyor: [Seal of John A. Mangie, Registered Professional Surveyor, No. 11401]

Certificate Number _____

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 30-025-47343		² Pool Code 98098		³ Pool Name WC-025 G-09 S243532M; WOLFBONE	
⁴ Property Code 328302		⁵ Property Name MULVA FED COM		⁶ Well Number 211H	
⁷ OGRID No. 372043		⁸ Operator Name TAP ROCK OPERATING, LLC.		⁹ Elevation 3280'	

¹⁰Surface Location

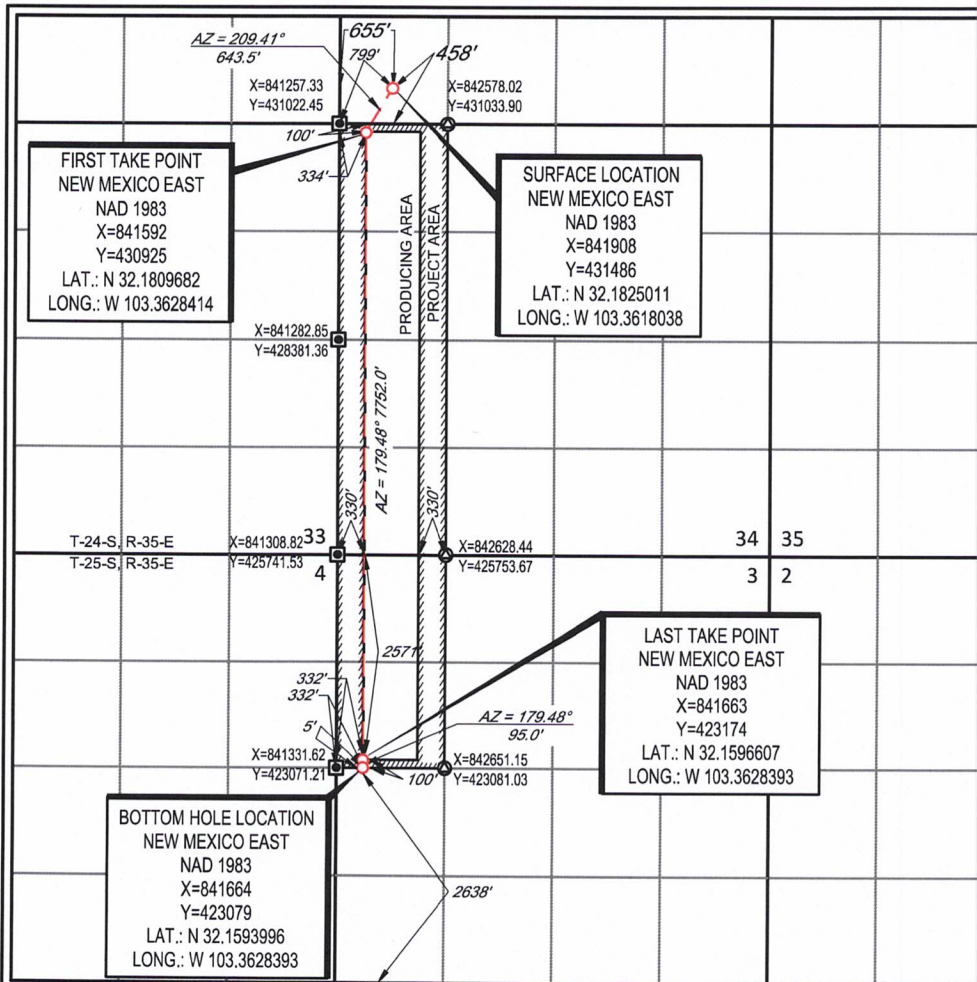
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	27	24-S	35-E	-	458'	SOUTH	655'	WEST	LEA

¹¹Bottom 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
E	3	25-S	35-E	-	2638'	SOUTH	332'	WEST	LEA

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.

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¹⁷OPERATOR 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 _____

¹⁸SURVEYOR CERTIFICATION
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07/25/2019
Date of Survey _____
Signature and Seal of Professional Surveyor _____
Certificate Number _____

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WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-47344		² Pool Code 98098		³ Pool Name WC-025 G-09 S243532M; WOLFBONE	
⁴ Property Code 328302		⁵ Property Name MULVA FED COM			⁶ Well Number 215H
⁷ OGRID No. 372043		⁸ Operator Name TAP ROCK OPERATING, LLC.			⁹ Elevation 3280'

¹⁰Surface Location

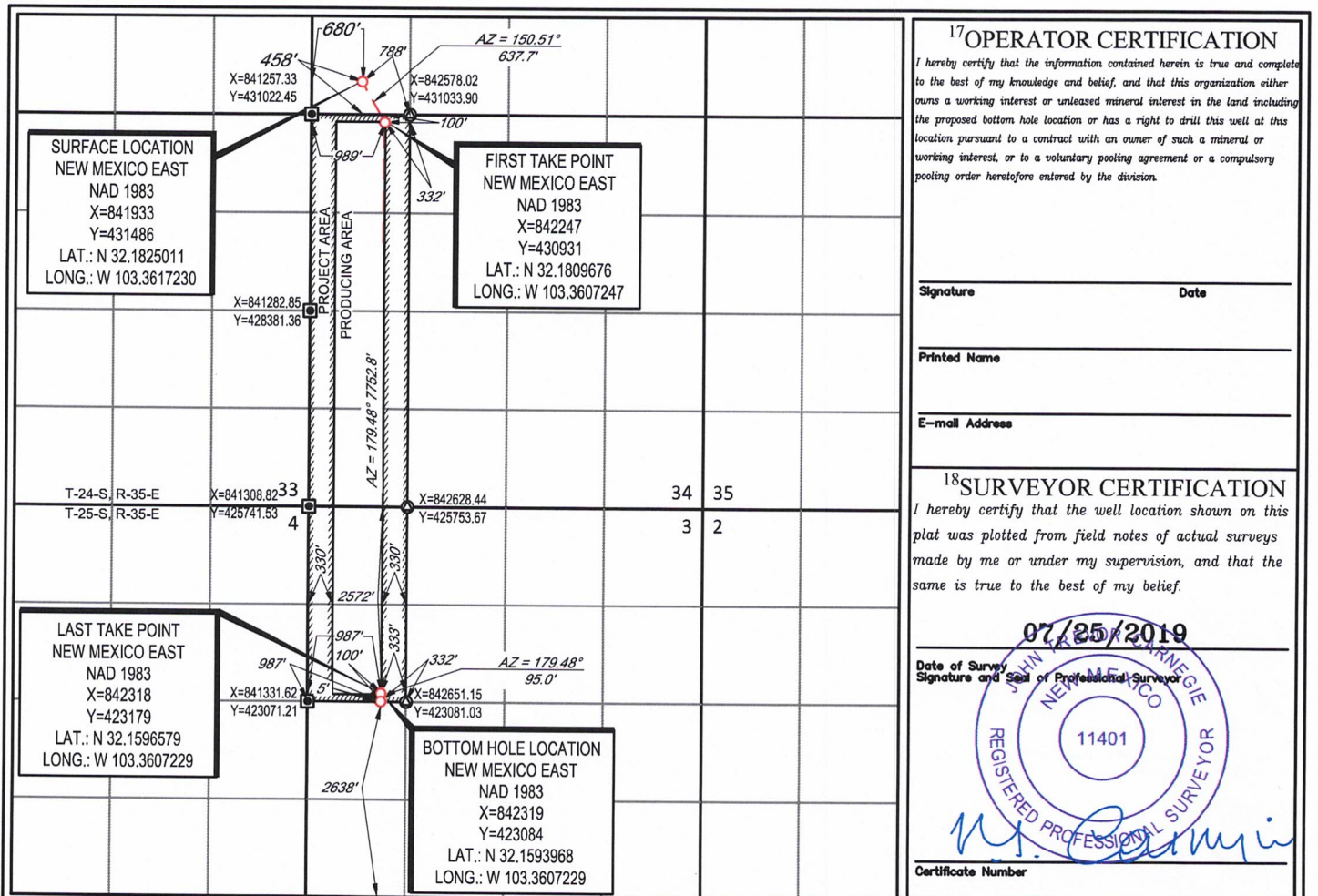
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	27	24-S	35-E	-	458'	SOUTH	680'	WEST	LEA

¹¹Bottom 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
E	3	25-S	35-E	-	2638'	SOUTH	987'	WEST	LEA

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.

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.



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1220 South St. Francis Dr.
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FORM C-102
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WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-47743		² Pool Code 98098		³ Pool Name WC-025 G-09 S243532M; WOLFBONE	
⁴ Property Code 328302		⁵ Property Name MULVA FED COM			⁶ Well Number 132H
⁷ GRID No. #372043		⁸ Operator Name TAP ROCK OPERATING, LLC.			⁹ Elevation 3281'

¹⁰Surface Location

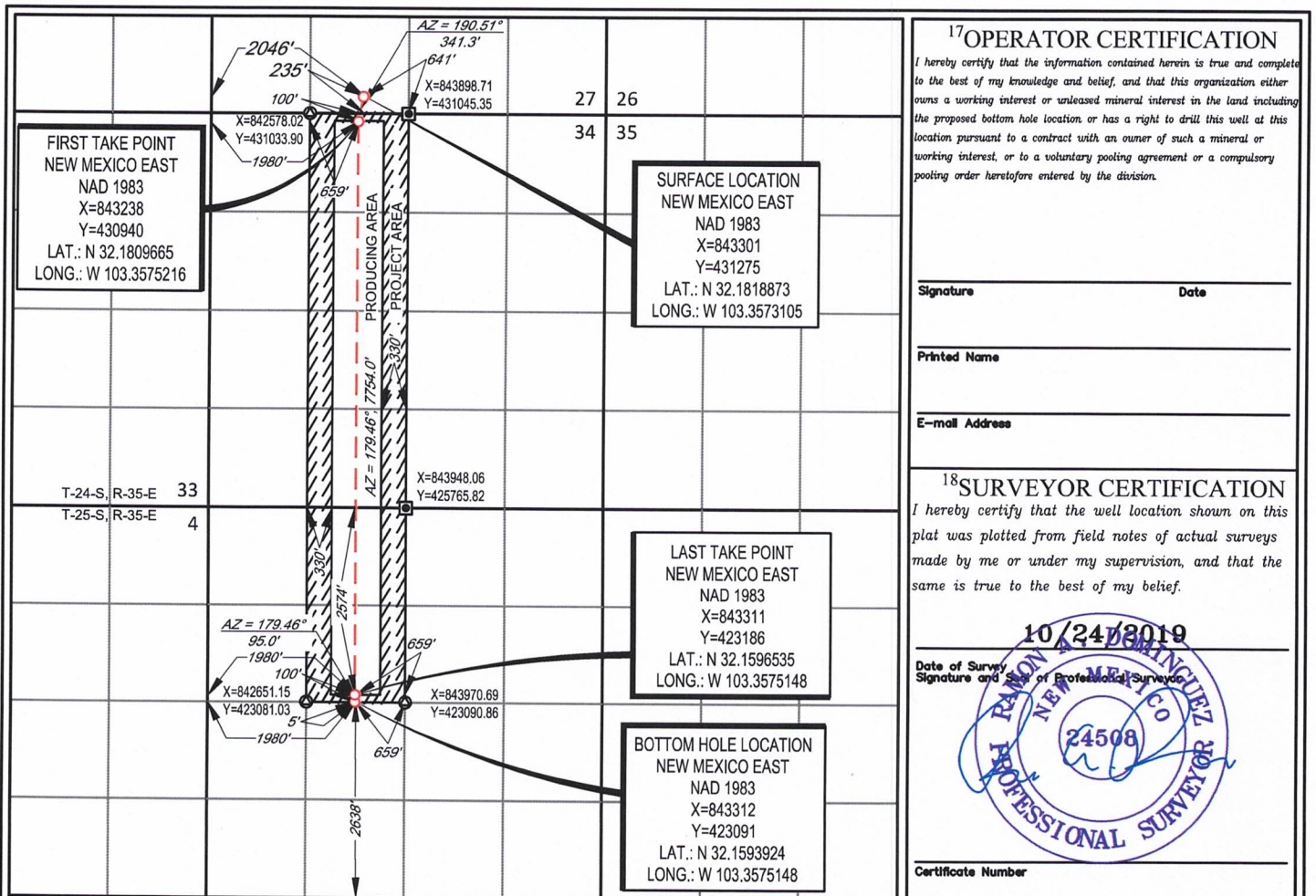
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	27	24-S	35-E	-	235'	SOUTH	2046'	WEST	LEA

¹¹Bottom 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
F	3	25-S	35-E	-	2638'	SOUTH	1980'	WEST	LEA

¹² Dedicated Acres 240.85	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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¹⁷OPERATOR 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 _____

¹⁸SURVEYOR 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 to the best of my belief.

10/24/2019
Date of Survey
Signature and Seal of Professional Surveyor

Signature and Seal of Professional Surveyor

Certificate Number _____

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WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-47787		² Pool Code 98098		³ Pool Name WC-025 G-09 S243532M; WOLFBONE	
⁴ Property Code 328302		⁵ Property Name MULVA FED COM			⁶ Well Number 212H
⁷ OGRID No. #372043		⁸ Operator Name TAP ROCK OPERATING, LLC.			⁹ Elevation 3282'

¹⁰Surface Location

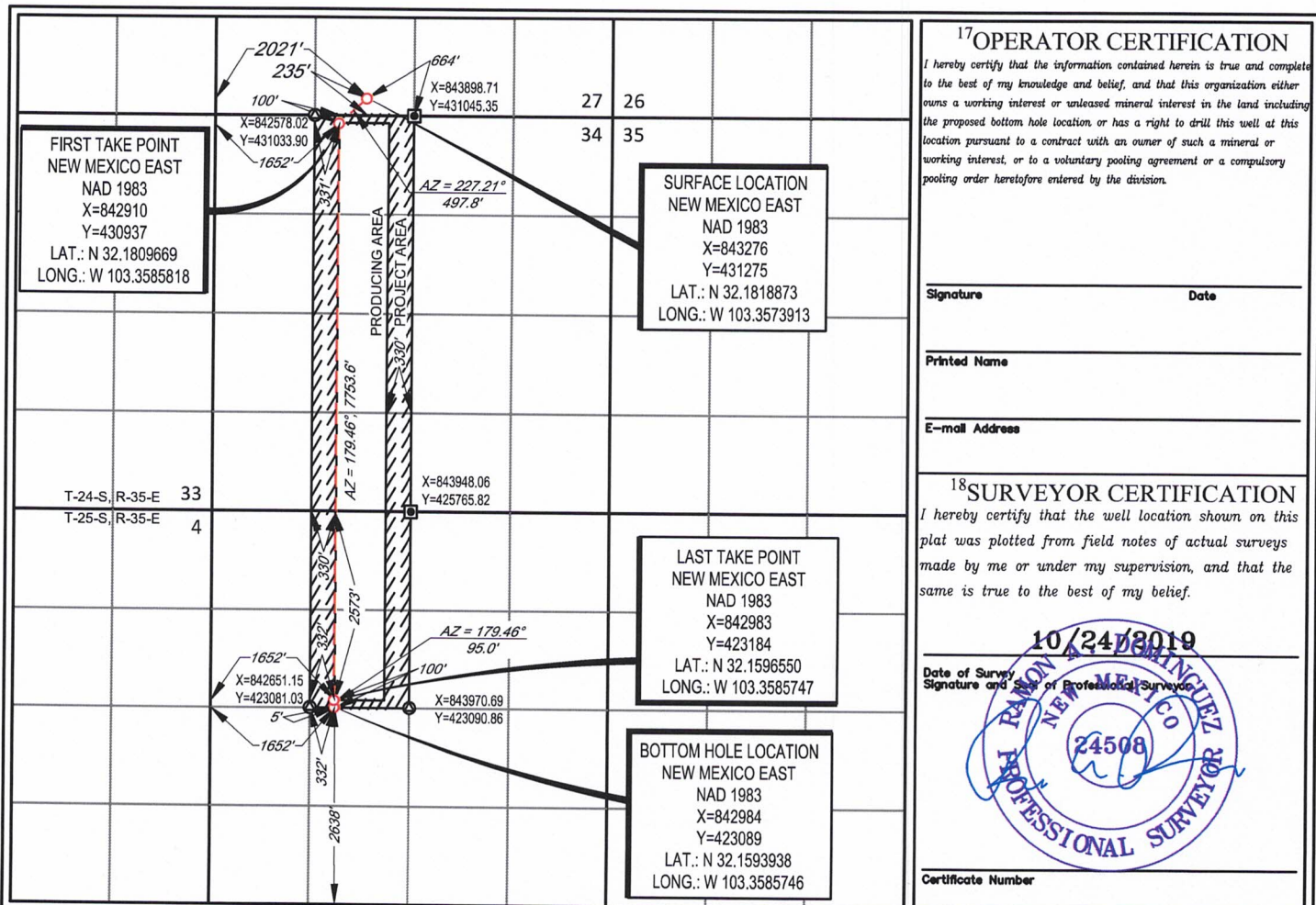
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	27	24-S	35-E	-	235'	SOUTH	2021'	WEST	LEA

¹¹Bottom 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
F	3	25-S	35-E	-	2638'	SOUTH	1652'	WEST	LEA

¹² Dedicated Acres 240.85	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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Signature _____ Date _____

Printed Name _____

E-mail Address _____

¹⁸SURVEYOR 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 to the best of my belief.

Date of Survey 10/24/2019
Signature and Title of Professional Surveyor _____

PROFESSIONAL SURVEYOR
NEW MEXICO
24508

Certificate Number _____

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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 30-025-47788	² Pool Code 98098	³ Pool Name WC-025 G-09 S243532M; WOLFBONE
⁴ Property Code 328302	⁵ Property Name MULVA FED COM	
⁷ OGRID No. #372043	⁸ Operator Name TAP ROCK OPERATING, LLC.	⁶ Well Number 217H ⁹ Elevation 3282'

¹⁰Surface Location

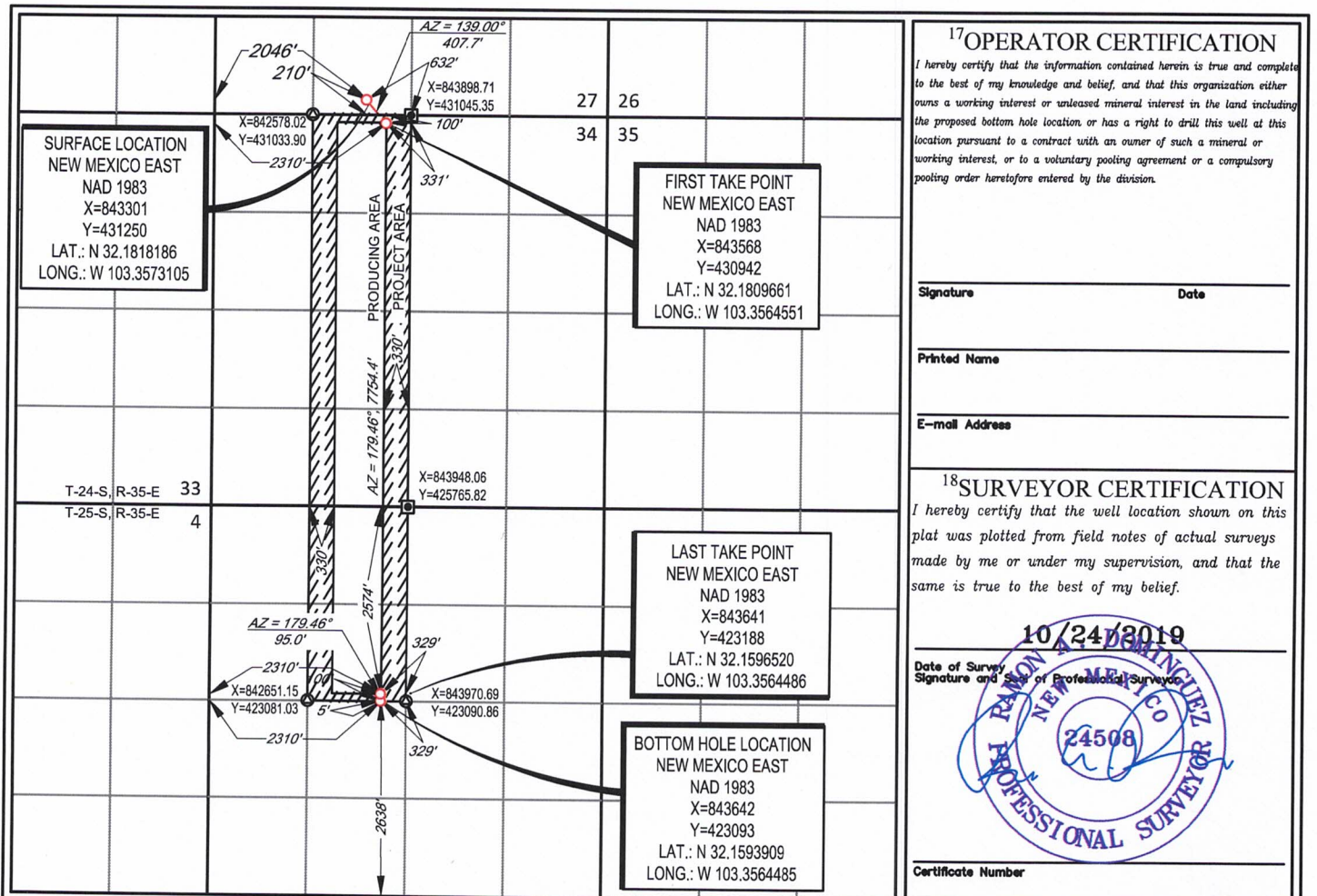
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	27	24-S	35-E	-	210'	SOUTH	2046'	WEST	LEA

¹¹Bottom 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
F	3	25-S	35-E	-	2638'	SOUTH	2310'	WEST	LEA

¹² Dedicated Acres 240.85	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.



Tract Map



- Tract 1 Fee
- Tract 2 Federal
- Tract 3 Federal
- Tract 4 State
- Mulva Horizontal Spacing Units

Tract List



Tract #	Legal	Mineral Ownership Type	Lease Number	Owner
1	T24S R35E Section 34: NE/4NW/4, S/2NW/4, NW/4SW/4, N/2SW/4	Fee	N/A	Tap Rock Resources, LLC
2	T25S R35E Section 3: NW/4 L&E Tract 4 T24S R35E Section 34: S/2SW/4	Federal	NM-138895	Franklin Mountain Energy LLC
3	T24S R35E Section 34: NW/4NW/4	Federal	NM-138893	Tap Rock Resources, LLC
4*	T25S R35E Section 3: Highway 128	State	Unleased	New Mexico Department of Transportation

The tract of land described as "Parcel 5-1" in the Stipulated Judgment filed July 1, 2010, under Cause No. D-0506-CV-2008-621M in the State of New Mexico, County of Lea, Fifth Judicial District, recorded in Book 1691, page 845, insofar and only insofar as it crosses NW/4 of Section 3, T25S R35E.

*final interest subject to division order title verification

W/2W/2 Unit Interest Breakdown*



Entity	Interest Type	Approximate Percentage
Tap Rock Resources, LLC	Working Interest	84.88%
Voluntary Joinder	Working Interest	13.68%
State of New Mexico, ex rel., New Mexico Department of Transportation	Uncommitted Working Interest	1.44%*

*final interest subject to division order title verification

E/2W/2 Unit Interest Breakdown*



Entity	Interest Type	Approximate Percentage
Tap Rock Resources, LLC	Working Interest	85.44%
Voluntary Joinder	Working Interest	13.78%
State of New Mexico, ex rel., New Mexico Department of Transportation	Uncommitted Working Interest	.78%*

*final interest subject to division order title verification



523 Park Point Dr, Suite 200
Golden, CO 80401

February 23, 2021

New Mexico Department of Transportation
1120 Cerrillos Road
Santa Fe, NM 87504-1149

**Re: Mulva Fed Com #111H, #112H, #131H, #132H, #211H, #212H, #215H, and #217H
Well Proposals
Township 24 South, Range 35 East, Section 34: W/2
Township 25 South, Range 35 East, Section 3: NW/4
Lea County, New Mexico (the "Wells")**

Tap Rock Operating, LLC (TRO), as Operator, proposes the following Wells:

Well Name	Surface Hole Location (SHL)	Bottom Hole Location (BHL)	Spacing Unit	Formation	True Vertical Depth	Measured Depth
Mulva Fed Com #111H	SW/4SW/4 of Section 27-T24S-R35E	SW/4NW/4 of Section 3-T25S-R35E	W/2W/2 of Section 34-T24S-R35E & W/2NW/4 of Section 3-T25S-R35E	1 st Bone Spring	~10,370'	~18,430'
Mulva Fed Com #112H	SE/4SW/4 of Section 27-T24S-R35E	SE/4NW/4 of Section 3-T25S-R35E	E/2W/2 of Section 34-T24S-R35E & E/2NW/4 of Section 3-T25S-R35E	1 st Bone Spring	~10,370'	~18,430'
Mulva Fed Com #131H	SW/4SW/4 of Section 27-T24S-R35E	SW/4NW/4 of Section 3-T25S-R35E	W/2W/2 of Section 34-T24S-R35E & W/2NW/4 of Section 3-T25S-R35E	Wolfcamp A	~12,242'	~20,302'
Mulva Fed Com #132H	SE/4SW/4 of Section 27-T24S-R35E	SE/4NW/4 of Section 3-T25S-R35E	E/2W/2 of Section 34-T24S-R35E & E/2NW/4 of Section 3-T25S-R35E	Wolfcamp A	~12,236'	~20,296'
Mulva Fed Com #211H	SW/4SW/4 of Section 27-T24S-R35E	SW/4NW/4 of Section 3-T25S-R35E	W/2W/2 of Section 34-T24S-R35E & W/2NW/4 of Section 3-T25S-R35E	Wolfcamp A	~12,398'	~20,458'
Mulva Fed Com #212H	SE/4SW/4 of Section 27-T24S-R35E	SE/4NW/4 of Section 3-T25S-R35E	E/2W/2 of Section 34-T24S-R35E & E/2NW/4 of Section 3-T25S-R35E	Wolfcamp A	~12,400'	~20,460'
Mulva Fed Com #215H	SW/4SW/4 of Section 27-T24S-R35E	SW/4NW/4 of Section 3-T25S-R35E	W/2W/2 of Section 34-T24S-R35E & W/2NW/4 of Section 3-T25S-R35E	Wolfcamp A	~12,385'	~20,445'

TAP ROCK RESOURCES

EXHIBIT

B5

Mulva Fed Com #217H	SE/4SW/4 of Section 27- T24S-R35E	SE/4NW/4 of Section 3- T25S-R35E	E/2W/2 of Section 34-T24S-R35E & E/2NW/4 of Section 3-T25S-R35E	Wolfcamp A	~12,400'	~20,460'
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A bonafide title dispute exists as to the mineral ownership in the NW/4 of Section 3, Township 25 South, Range 35 East, Lea County, New Mexico that affects your possible interest in the Wells. TRO is currently working to resolve this dispute and determine accurate mineral ownership. While it works to resolve the dispute, TRO is willing to offer the following lease terms to the New Mexico Department of Transportation :

- 3-year primary term, effective October 1, 2020
- Royalty equal to 20%
- \$500 per net acre bonus consideration

The proposed locations and drilling plans described above are subject to change depending on surface or subsurface issues that may be encountered. In the event you elect to participate in the proposed Wells, please execute the enclosed AFEs and return to me within 30 days.

If we do not receive a response from you within 30 days of your receipt of this letter, TRO will apply to the New Mexico Oil Conservation Division for compulsory pooling of your possible interest in the Wells.

Should you have any questions regarding the above, please contact the undersigned.

Sincerely,

TAP ROCK OPERATING, LLC

Erica Hixson

Erica Hixson

Landman

Office: 720-460-3316

ehixson@taprk.com

New Mexico Department of Transportation hereby elects to:

_____ participate in the Mulva Fed Com #111H

_____ non-consent the Mulva Fed Com #111H

_____ participate in the Mulva Fed Com #112H

_____ non-consent the Mulva Fed Com #112H

_____ participate in the Mulva Fed Com #131H

_____ non-consent the Mulva Fed Com #131H

_____ participate in the Mulva Fed Com #132H

_____ non-consent the Mulva Fed Com #132H

_____ participate in the Mulva Fed Com #211H

_____ non-consent the Mulva Fed Com #211H

_____ participate in the Mulva Fed Com #212H

_____ non-consent the Mulva Fed Com #212H

_____ participate in the Mulva Fed Com #215H

_____ non-consent the Mulva Fed Com #215H

_____ participate in the Mulva Fed Com #217H

_____ non-consent the Mulva Fed Com #217H

By: _____

Name: _____

Title: _____

Date: _____

TAP ROCK OPERATING, LLC
 602 Park Point Dr, Golden, Colorado 80401
 Authorization For Expenditure

Name: **Mulva Fed Com #111H**
 AFE #: **0**
 County: **Lea**
 State: **NM**

Date: **February 22, 2021**
 MD/TVD: **18430 / 10370**
 Lateral Length: **7610**
 Geologic Target: **1st Bone Spring**

Well Description: **Drill, complete, and equip a horizontal 1st Bone Spring well with a 7610 foot lateral.**

INTANGIBLE DRILLING COSTS		
COST CODES	DESCRIPTION	AMOUNT
1 1	Land - Legal	10,000
1 2	Land - Regulatory	5,000
1 3	Land - Surface Damages	20,000
1 4	Land - Survey	10,000
1 5	Location/Pit Construction	140,000
1 6	Remedial Dirtwork	0
1 7	Reserve/Frac Pit Closing	0
1 8	Drilling - Contractor	501,159
1 9	Mob/Rig Up - Contractor/Trucking	123,250
1 10	Cementing Services	0
1 11	Cementing Equipment	0
1 12	Bits/Drill Out Assemblies	0
1 13	Fluid Circulation Equipment/Services	87,423
1 14	Fluids/Chemicals	50,000
1 15	WBM Cuttings/Wastewater Disposal	205,470
1 16	OBM Cuttings/Chemical Disposal	0
1 17	Fuel/Power	126,655
1 18	Water	0
1 19	Directional Drilling	213,475
1 20	Mud Logging	15,930
1 21	Open/Cased/Production Hole Logs	0
1 22	Coring	0
1 23	Geologic Supervision	0
1 24	Engineering Supervision	0
1 25	Consultant Supervision	113,989
1 26	Freight/Transportation	30,000
1 27	Labor	0
1 28	Supplies - Surface	2,500
1 29	Supplies - Living Quarters	1,000
1 30	Rentals - Surface	54,894
1 31	Rentals - Living Quarters	29,131
1 32	Rentals - Downhole	0
1 33	Rentals - Pipe & Handling Tools	0
1 34	Rentals - Frac Stack	0
1 35	Rentals - Frac Tanks	0
1 36	Coil Tubing Unit/Workover Rig	0
1 37	Wireline/Slickline/Perforating	0
1 38	Temporary Packers/Plugs	0
1 39	High Pressure Pump Truck	0
1 40	Stimulation	0
1 41	Rentals - Pressure Control	0
1 42	Flowback Services	0
1 43	Water Transfer Services	0
1 44	Flowback Water Trucking & Disposal	0
1 45	Permanent Equipment Installation	0
1 46	Pipeline Tapping Services	0
1 47	Plugging & Abandonment	0
1 53	Overhead	10,185
1 54	Insurance	33,174
1 55	Contingency	88,863
TOTAL INTANGIBLE DRILLING COSTS:		\$1,866,076

INTANGIBLE COMPLETION COSTS		
COST CODES	DESCRIPTION	AMOUNT
2 1	Land - Legal	0
2 2	Land - Regulatory	0
2 3	Land - Surface Damages	0
2 4	Land - Survey	0
2 5	Location/Pit Construction	0
2 6	Remedial Dirtwork	0
2 7	Reserve/Frac Pit Closing	0
2 8	Drilling - Contractor	0
2 9	Mob/Rig Up - Contractor/Trucking	0
2 10	Cementing Services	0
2 11	Cementing Equipment	0
2 12	Bits/Drill Out Assemblies	35,440
2 13	Fluid Circulation Equipment/Services	0
2 14	Fluids/Chemicals	25,313
2 15	WBM Cuttings/Wastewater Disposal	0
2 16	OBM Cuttings/Chemical Disposal	0
2 17	Fuel/Power	275,600
2 18	Water	370,724
2 19	Directional Drilling	0
2 20	Mud Logging	0
2 21	Open/Cased/Production Hole Logs	8,440
2 22	Coring	0
2 23	Geologic Supervision	0
2 24	Engineering Supervision	0
2 25	Consultant Supervision	66,000
2 26	Freight/Transportation	2,000
2 27	Labor	11,730
2 28	Supplies - Surface	2,000
2 29	Supplies - Living Quarters	2,000
2 30	Rentals - Surface	16,560
2 31	Rentals - Living Quarters	12,320
2 32	Rentals - Downhole	0
2 33	Rentals - Pipe & Handling Tools	0
2 34	Rentals - Frac Stack	81,894
2 35	Rentals - Frac Tanks	28,730
2 36	Coil Tubing Unit/Workover Rig	68,190
2 37	Wireline/Slickline/Perforating	188,798
2 38	Temporary Packers/Plugs	31,200
2 39	High Pressure Pump Truck	46,640
2 40	Stimulation	1,138,534
2 41	Rentals - Pressure Control	0
2 42	Flowback Services	41,231
2 43	Water Transfer Services	63,000
2 44	Flowback Water Trucking & Disposal	10,649
2 45	Permanent Equipment Installation	0
2 46	Pipeline Tapping Services	0
2 47	Plugging & Abandonment	0
2 53	Overhead	13,715
2 54	Insurance	0
2 55	Contingency	96,102
TOTAL INTANGIBLE COMPLETION COSTS:		\$2,587,400

INTANGIBLE PRODUCTION COSTS		
COST CODES	DESCRIPTION	AMOUNT
3 1	Land - Legal	0
3 2	Land - Regulatory	0
3 3	Land - Surface Damages	0
3 4	Land - Survey	0
3 5	Location/Pit Construction	5,000
3 6	Remedial Dirtwork	0
3 7	Reserve/Frac Pit Closing	0
3 8	Drilling - Contractor	0
3 9	Mob/Rig Up - Contractor/Trucking	0
3 10	Cementing Services	0
3 11	Cementing Equipment	0
3 12	Bits/Drill Out Assemblies	0
3 13	Fluid Circulation Equipment/Services	0
3 14	Fluids/Chemicals	0
3 15	WBM Cuttings/Wastewater Disposal	0
3 16	OBM Cuttings/Chemical Disposal	0
3 17	Fuel/Power	0
3 18	Water	0
3 19	Directional Drilling	0
3 20	Mud Logging	0
3 21	Open/Cased/Production Hole Logs	0
3 22	Coring	0
3 23	Geologic Supervision	0
3 24	Engineering Supervision	0
3 25	Consultant Supervision	15,000
3 26	Freight/Transportation	5,000
3 27	Labor	28,000
3 28	Supplies - Surface	0
3 29	Supplies - Living Quarters	0
3 30	Rentals - Surface	0
3 31	Rentals - Living Quarters	0
3 32	Rentals - Downhole	0
3 33	Rentals - Pipe & Handling Tools	0
3 34	Rentals - Frac Stack	0
3 35	Rentals - Frac Tanks	0
3 36	Coil Tubing Unit/Workover Rig	83,400
3 37	Wireline/Slickline/Perforating	0
3 38	Temporary Packers/Plugs	0
3 39	High Pressure Pump Truck	0
3 40	Stimulation	0
3 41	Rentals - Pressure Control	0
3 42	Flowback Services	38,500
3 43	Water Transfer Services	0
3 44	Flowback Water Trucking & Disposal	0
3 45	Permanent Equipment Installation	0
3 46	Pipeline Tapping Services	0
3 47	Plugging & Abandonment	0
3 53	Overhead	5,500
3 54	Insurance	0
3 55	Contingency	7,095
TOTAL INTANGIBLE PRODUCTION COSTS:		\$187,495

TANGIBLE DRILLING COSTS		
COST CODES	DESCRIPTION	AMOUNT
4 60	Conductor Casing	0
4 61	Surface Casing	42,599
4 62	1st Intermediate Casing	153,263
4 63	2nd Intermediate Casing	0
4 64	Production Casing	345,563
4 65	Tubing	0
4 66	Wellhead	0
4 67	Permanent Packers/Hangers/Plugs	0
4 68	Tanks	0
4 69	Production Vessels	0
4 70	Compressors	0
4 71	Surface Flowlines	0
4 72	Gathering Lines	0
4 73	Valves & Controllers	0
4 74	Artificial Lift Equipment	0
4 75	Instrumentation & Measurement	0
4 76	Electrical Grounding/Safety Equipment	0
4 77	Permanent Equipment Installation	0
4 80	Other - Surface	0
4 81	Other - Downhole	0
TOTAL TANGIBLE DRILLING COSTS:		\$541,424
TOTAL DRILLING COSTS:		\$2,407,500

TANGIBLE COMPLETION COSTS		
COST CODES	DESCRIPTION	AMOUNT
5 60	Conductor Casing	0
5 61	Surface Casing	0
5 62	1st Intermediate Casing	0
5 63	2nd Intermediate Casing	0
5 64	Production Casing	0
5 65	Tubing	0
5 66	Wellhead	0
5 67	Permanent Packers/Hangers/Plugs	0
5 68	Tanks	0
5 69	Production Vessels	0
5 70	Compressors	0
5 71	Surface Flowlines	0
5 72	Gathering Lines	0
5 73	Valves & Controllers	0
5 74	Artificial Lift Equipment	0
5 75	Instrumentation & Measurement	0
5 76	Electrical Grounding/Safety Equipment	0
5 77	Permanent Equipment Installation	0
5 80	Other - Surface	0
5 81	Other - Downhole	0
TOTAL TANGIBLE COMPLETION COSTS:		\$0
TOTAL COMPLETION COSTS:		\$2,587,400

TANGIBLE PRODUCTION COSTS		
COST CODES	DESCRIPTION	AMOUNT
6 60	Conductor Casing	0
6 61	Surface Casing	0
6 62	1st Intermediate Casing	0
6 63	2nd Intermediate Casing	0
6 64	Production Casing	0
6 65	Tubing	50,000
6 66	Wellhead	53,500
6 67	Permanent Packers/Hangers/Plugs	10,000
6 68	Tanks	0
6 69	Production Vessels	107,000
6 70	Compressors	0
6 71	Surface Flowlines	50,000
6 72	Gathering Lines	0
6 73	Valves & Controllers	0
6 74	Artificial Lift Equipment	15,000
6 75	Instrumentation & Measurement	0
6 76	Electrical Grounding/Safety Equipment	0
6 77	Permanent Equipment Installation	0
6 80	Other - Surface	0
6 81	Other - Downhole	0
TOTAL TANGIBLE PRODUCTION COSTS:		\$285,500
TOTAL PRODUCTION COSTS:		\$472,995

TOTAL WELL COST: \$5,467,895

TAP ROCK RESOURCES COMPANY APPROVAL:

CEO _____ VP - EXPLORATION _____

CFO _____ VP - OPERATIONS _____

VP - LAND & LEGAL _____ SENIOR GEOLOGIST _____

NON OPERATING PARTNER APPROVAL:

COMPANY NAME: _____

SIGNED BY: _____ TITLE: _____

WORKING INTEREST (%): _____ DATE: _____

TAX ID: _____ APPROVAL: _____

AFE is an estimate only. By signing this AFE, you agree to pay your proportionate share of the actual costs.

TAP ROCK OPERATING, LLC
 602 Park Point Dr, Golden, Colorado 80401
 Authorization For Expenditure

Name: **Muiva Fed Com #112H**
 AFE #: **0**
 County: **Lea**
 State: **NM**

Date: **February 22, 2021**
 MD/TVD: **18430 / 10370**
 Lateral Length: **7610**
 Geologic Target: **1st Bone Spring**

Well Description: **Drill, complete, and equip a horizontal 1st Bone Spring well with a 7610 foot lateral.**

INTANGIBLE DRILLING COSTS		
COST CODES	DESCRIPTION	AMOUNT
1 1	Land - Legal	10,000
1 2	Land - Regulatory	5,000
1 3	Land - Surface Damages	20,000
1 4	Land - Survey	10,000
1 5	Location/Pit Construction	140,000
1 6	Remedial Dirtwork	0
1 7	Reserve/Frac Pit Closing	0
1 8	Drilling - Contractor	501,159
1 9	Mob/Rig Up - Contractor/Trucking	123,250
1 10	Cementing Services	0
1 11	Cementing Equipment	0
1 12	Bits/Drill Out Assemblies	0
1 13	Fluid Circulation Equipment/Services	87,423
1 14	Fluids/Chemicals	50,000
1 15	WBM Cuttings/Wastewater Disposal	205,470
1 16	OBM Cuttings/Chemical Disposal	0
1 17	Fuel/Power	126,855
1 18	Water	0
1 19	Directional Drilling	213,475
1 20	Mud Logging	19,930
1 21	Open/Cased/Production Hole Logs	0
1 22	Coring	0
1 23	Geologic Supervision	0
1 24	Engineering Supervision	0
1 25	Consultant Supervision	113,989
1 26	Freight/Transportation	20,000
1 27	Labor	0
1 28	Supplies - Surface	2,500
1 29	Supplies - Living Quarters	1,000
1 30	Rentals - Surface	54,894
1 31	Rentals - Living Quarters	29,133
1 32	Rentals - Downhole	0
1 33	Rentals - Pipe & Handling Tools	0
1 34	Rentals - Frac Stack	0
1 35	Rentals - Frac Tanks	0
1 36	Coil Tubing Unit/Workover Rig	0
1 37	Wireline/Slickline/Perforating	0
1 38	Temporary Packers/Plugs	0
1 39	High Pressure Pump Truck	0
1 40	Stimulation	0
1 41	Rentals - Pressure Control	0
1 42	Flowback Services	0
1 43	Water Transfer Services	0
1 44	Flowback Water Trucking & Disposal	0
1 45	Permanent Equipment Installation	0
1 46	Pipeline Tapping Services	0
1 47	Plugging & Abandonment	0
1 53	Overhead	10,160
1 54	Insurance	33,174
1 55	Contingency	88,861
TOTAL INTANGIBLE DRILLING COSTS:		\$1,866,076

INTANGIBLE COMPLETION COSTS		
COST CODES	DESCRIPTION	AMOUNT
2 1	Land - Legal	0
2 2	Land - Regulatory	0
2 3	Land - Surface Damages	0
2 4	Land - Survey	0
2 5	Location/Pit Construction	0
2 6	Remedial Dirtwork	0
2 7	Reserve/Frac Pit Closing	0
2 8	Drilling - Contractor	0
2 9	Mob/Rig Up - Contractor/Trucking	0
2 10	Cementing Services	0
2 11	Cementing Equipment	0
2 12	Bits/Drill Out Assemblies	35,440
2 13	Fluid Circulation Equipment/Services	0
2 14	Fluids/Chemicals	25,313
2 15	WBM Cuttings/Wastewater Disposal	0
2 16	OBM Cuttings/Chemical Disposal	0
2 17	Fuel/Power	275,600
2 18	Water	370,724
2 19	Directional Drilling	0
2 20	Mud Logging	0
2 21	Open/Cased/Production Hole Logs	8,440
2 22	Coring	0
2 23	Geologic Supervision	0
2 24	Engineering Supervision	0
2 25	Consultant Supervision	66,000
2 26	Freight/Transportation	2,000
2 27	Labor	11,730
2 28	Supplies - Surface	2,000
2 29	Supplies - Living Quarters	2,000
2 30	Rentals - Surface	16,560
2 31	Rentals - Living Quarters	12,320
2 32	Rentals - Downhole	0
2 33	Rentals - Pipe & Handling Tools	0
2 34	Rentals - Frac Stack	91,894
2 35	Rentals - Frac Tanks	28,730
2 36	Coil Tubing Unit/Workover Rig	68,190
2 37	Wireline/Slickline/Perforating	168,798
2 38	Temporary Packers/Plugs	31,200
2 39	High Pressure Pump Truck	46,640
2 40	Stimulation	1,138,532
2 41	Rentals - Pressure Control	0
2 42	Flowback Services	41,231
2 43	Water Transfer Services	63,000
2 44	Flowback Water Trucking & Disposal	10,649
2 45	Permanent Equipment Installation	0
2 46	Pipeline Tapping Services	0
2 47	Plugging & Abandonment	0
2 53	Overhead	13,713
2 54	Insurance	0
2 55	Contingency	96,103
TOTAL INTANGIBLE COMPLETION COSTS:		\$2,587,398

INTANGIBLE PRODUCTION COSTS		
COST CODES	DESCRIPTION	AMOUNT
3 1	Land - Legal	0
3 2	Land - Regulatory	0
3 3	Land - Surface Damages	0
3 4	Land - Survey	0
3 5	Location/Pit Construction	5,000
3 6	Remedial Dirtwork	0
3 7	Reserve/Frac Pit Closing	0
3 8	Drilling - Contractor	0
3 9	Mob/Rig Up - Contractor/Trucking	0
3 10	Cementing Services	0
3 11	Cementing Equipment	0
3 12	Bits/Drill Out Assemblies	0
3 13	Fluid Circulation Equipment/Services	0
3 14	Fluids/Chemicals	0
3 15	WBM Cuttings/Wastewater Disposal	0
3 16	OBM Cuttings/Chemical Disposal	0
3 17	Fuel/Power	0
3 18	Water	0
3 19	Directional Drilling	0
3 20	Mud Logging	0
3 21	Open/Cased/Production Hole Logs	0
3 22	Coring	0
3 23	Geologic Supervision	0
3 24	Engineering Supervision	0
3 25	Consultant Supervision	15,000
3 26	Freight/Transportation	5,000
3 27	Labor	28,000
3 28	Supplies - Surface	0
3 29	Supplies - Living Quarters	0
3 30	Rentals - Surface	0
3 31	Rentals - Living Quarters	0
3 32	Rentals - Downhole	0
3 33	Rentals - Pipe & Handling Tools	0
3 34	Rentals - Frac Stack	0
3 35	Rentals - Frac Tanks	0
3 36	Coil Tubing Unit/Workover Rig	83,400
3 37	Wireline/Slickline/Perforating	0
3 38	Temporary Packers/Plugs	0
3 39	High Pressure Pump Truck	0
3 40	Stimulation	0
3 41	Rentals - Pressure Control	0
3 42	Flowback Services	38,500
3 43	Water Transfer Services	0
3 44	Flowback Water Trucking & Disposal	0
3 45	Permanent Equipment Installation	0
3 46	Pipeline Tapping Services	0
3 47	Plugging & Abandonment	0
3 53	Overhead	5,500
3 54	Insurance	0
3 55	Contingency	7,095
TOTAL INTANGIBLE PRODUCTION COSTS:		\$187,495

TANGIBLE DRILLING COSTS		
COST CODES	DESCRIPTION	AMOUNT
4 60	Conductor Casing	0
4 61	Surface Casing	42,599
4 62	1st Intermediate Casing	153,263
4 63	2nd Intermediate Casing	0
4 64	Production Casing	345,563
4 65	Tubing	0
4 66	Wellhead	0
4 67	Permanent Packers/Hangers/Plugs	0
4 68	Tanks	0
4 69	Production Vessels	0
4 70	Compressors	0
4 71	Surface Flowlines	0
4 72	Gathering Lines	0
4 73	Valves & Controllers	0
4 74	Artificial Lift Equipment	0
4 75	Instrumentation & Measurement	0
4 76	Electrical Grounding/Safety Equipment	0
4 77	Permanent Equipment Installation	0
4 80	Other - Surface	0
4 81	Other - Downhole	0
TOTAL TANGIBLE DRILLING COSTS:		\$541,424
TOTAL DRILLING COSTS:		\$2,407,500

TANGIBLE COMPLETION COSTS		
COST CODES	DESCRIPTION	AMOUNT
5 60	Conductor Casing	0
5 61	Surface Casing	0
5 62	1st Intermediate Casing	0
5 63	2nd Intermediate Casing	0
5 64	Production Casing	0
5 65	Tubing	0
5 66	Wellhead	0
5 67	Permanent Packers/Hangers/Plugs	0
5 68	Tanks	0
5 69	Production Vessels	0
5 70	Compressors	0
5 71	Surface Flowlines	0
5 72	Gathering Lines	0
5 73	Valves & Controllers	0
5 74	Artificial Lift Equipment	0
5 75	Instrumentation & Measurement	0
5 76	Electrical Grounding/Safety Equipment	0
5 77	Permanent Equipment Installation	0
5 80	Other - Surface	0
5 81	Other - Downhole	0
TOTAL TANGIBLE COMPLETION COSTS:		\$0
TOTAL COMPLETION COSTS:		\$2,587,398

TANGIBLE PRODUCTION COSTS		
COST CODES	DESCRIPTION	AMOUNT
6 60	Conductor Casing	0
6 61	Surface Casing	0
6 62	1st Intermediate Casing	0
6 63	2nd Intermediate Casing	0
6 64	Production Casing	0
6 65	Tubing	50,000
6 66	Wellhead	53,500
6 67	Permanent Packers/Hangers/Plugs	10,000
6 68	Tanks	0
6 69	Production Vessels	107,000
6 70	Compressors	0
6 71	Surface Flowlines	50,000
6 72	Gathering Lines	0
6 73	Valves & Controllers	0
6 74	Artificial Lift Equipment	15,000
6 75	Instrumentation & Measurement	0
6 76	Electrical Grounding/Safety Equipment	0
6 77	Permanent Equipment Installation	0
6 80	Other - Surface	0
6 81	Other - Downhole	0
TOTAL TANGIBLE PRODUCTION COSTS:		\$285,500
TOTAL PRODUCTION COSTS:		\$472,995

TOTAL WELL COST: \$5,467,893

TAP ROCK RESOURCES COMPANY APPROVAL:

CEO _____ VP - EXPLORATION _____

CFD _____ VP - OPERATIONS _____

VP - LAND & LEGAL _____ SENIOR GEOLOGIST _____

NON OPERATING PARTNER APPROVAL:

COMPANY NAME: _____

SIGNED BY: _____ TITLE: _____

WORKING INTEREST (%): _____ DATE: _____

TAX ID: _____ APPROVAL: _____

TAP ROCK OPERATING, LLC
 602 Park Point Dr, Golden, Colorado 80401
 Authorization For Expenditure

Name: **Mulva Fed Com #131H**
 AFE #: **0**
 County: **Lea**
 State: **NM**

Date: **February 22, 2021**
 MD/TVD: **20302 / 12242**
 Lateral Length: **7610**
 Geologic Target: **Wolfcamp A**

Well Description: **Drill, complete, and equip a horizontal Wolfcamp A well with a 7610 foot lateral.**

INTANGIBLE DRILLING COSTS		
COST CODES	DESCRIPTION	AMOUNT
1 1	Land - Legal	10,000
1 2	Land - Regulatory	5,000
1 3	Land - Surface Damages	20,000
1 4	Land - Survey	10,000
1 5	Location/Pit Construction	140,000
1 6	Remedial Dirtwork	0
1 7	Reserve/Frac Pit Closing	0
1 8	Drilling - Contractor	421,442
1 9	Mob/Rig Up - Contractor/Trucking	123,250
1 10	Cementing Services	0
1 11	Cementing Equipment	0
1 12	Bits/Drill Out Assemblies	0
1 13	Fluid Circulation Equipment/Services	72,911
1 14	Fluids/Chemicals	251,130
1 15	WBM Cuttings/Wastewater Disposal	205,470
1 16	OBM Cuttings/Chemical Disposal	76,100
1 17	Fuel/Power	109,780
1 18	Water	0
1 19	Directional Drilling	178,017
1 20	Mud Logging	15,543
1 21	Open/Cased/Production Hole Logs	0
1 22	Coring	0
1 23	Geologic Supervision	0
1 24	Engineering Supervision	0
1 25	Consultant Supervision	98,802
1 26	Freight/Transportation	20,000
1 27	Labor	0
1 28	Supplies - Surface	2,500
1 29	Supplies - Living Quarters	1,000
1 30	Rentals - Surface	45,781
1 31	Rentals - Living Quarters	25,249
1 32	Rentals - Downhole	0
1 33	Rentals - Pipe & Handling Tools	0
1 34	Rentals - Frac Stack	0
1 35	Rentals - Frac Tanks	0
1 36	Coil Tubing Unit/Workover Rig	0
1 37	Wireline/Slickline/Perforating	0
1 38	Temporary Packers/Plugs	0
1 39	High Pressure Pump Truck	0
1 40	Stimulation	0
1 41	Rentals - Pressure Control	0
1 42	Flowback Services	0
1 43	Water Transfer Services	0
1 44	Flowback Water Trucking & Disposal	0
1 45	Permanent Equipment Installation	0
1 46	Pipeline Tapping Services	0
1 47	Plugging & Abandonment	0
1 53	Overhead	8,478
1 54	Insurance	36,544
1 55	Contingency	93,851

TOTAL INTANGIBLE DRILLING COSTS: **\$1,970,867**

INTANGIBLE COMPLETION COSTS		
COST CODES	DESCRIPTION	AMOUNT
2 1	Land - Legal	
2 2	Land - Regulatory	
2 3	Land - Surface Damages	
2 4	Land - Survey	
2 5	Location/Pit Construction	
2 6	Remedial Dirtwork	
2 7	Reserve/Frac Pit Closing	
2 8	Drilling - Contractor	
2 9	Mob/Rig Up - Contractor/Trucking	
2 10	Cementing Services	
2 11	Cementing Equipment	
2 12	Bits/Drill Out Assemblies	35,440
2 13	Fluid Circulation Equipment/Services	
2 14	Fluids/Chemicals	25,913
2 15	WBM Cuttings/Wastewater Disposal	
2 16	OBM Cuttings/Chemical Disposal	
2 17	Fuel/Power	224,529
2 18	Water	393,894
2 19	Directional Drilling	
2 20	Mud Logging	
2 21	Open/Cased/Production Hole Logs	8,440
2 22	Coring	
2 23	Geologic Supervision	
2 24	Engineering Supervision	
2 25	Consultant Supervision	66,000
2 26	Freight/Transportation	2,000
2 27	Labor	11,720
2 28	Supplies - Surface	2,000
2 29	Supplies - Living Quarters	2,000
2 30	Rentals - Surface	16,560
2 31	Rentals - Living Quarters	12,320
2 32	Rentals - Downhole	0
2 33	Rentals - Pipe & Handling Tools	0
2 34	Rentals - Frac Stack	81,894
2 35	Rentals - Frac Tanks	28,730
2 36	Coil Tubing Unit/Workover Rig	68,190
2 37	Wireline/Slickline/Perforating	217,228
2 38	Temporary Packers/Plugs	43,407
2 39	High Pressure Pump Truck	46,640
2 40	Stimulation	1,236,648
2 41	Rentals - Pressure Control	
2 42	Flowback Services	41,231
2 43	Water Transfer Services	63,600
2 44	Flowback Water Trucking & Disposal	10,649
2 45	Permanent Equipment Installation	
2 46	Pipeline Tapping Services	
2 47	Plugging & Abandonment	
2 53	Overhead	13,715
2 54	Insurance	
2 55	Contingency	104,218

TOTAL INTANGIBLE COMPLETION COSTS: **\$2,856,864**

INTANGIBLE PRODUCTION COSTS		
COST CODES	DESCRIPTION	AMOUNT
3 1	Land - Legal	
3 2	Land - Regulatory	
3 3	Land - Surface Damages	
3 4	Land - Survey	
3 5	Location/Pit Construction	5,000
3 6	Remedial Dirtwork	
3 7	Reserve/Frac Pit Closing	
3 8	Drilling - Contractor	
3 9	Mob/Rig Up - Contractor/Trucking	
3 10	Cementing Services	
3 11	Cementing Equipment	
3 12	Bits/Drill Out Assemblies	
3 13	Fluid Circulation Equipment/Services	
3 14	Fluids/Chemicals	
3 15	WBM Cuttings/Wastewater Disposal	
3 16	OBM Cuttings/Chemical Disposal	
3 17	Fuel/Power	
3 18	Water	
3 19	Directional Drilling	
3 20	Mud Logging	
3 21	Open/Cased/Production Hole Logs	
3 22	Coring	
3 23	Geologic Supervision	
3 24	Engineering Supervision	
3 25	Consultant Supervision	22,500
3 26	Freight/Transportation	10,000
3 27	Labor	85,000
3 28	Supplies - Surface	
3 29	Supplies - Living Quarters	
3 30	Rentals - Surface	
3 31	Rentals - Living Quarters	
3 32	Rentals - Downhole	
3 33	Rentals - Pipe & Handling Tools	
3 34	Rentals - Frac Stack	
3 35	Rentals - Frac Tanks	
3 36	Coil Tubing Unit/Workover Rig	83,400
3 37	Wireline/Slickline/Perforating	
3 38	Temporary Packers/Plugs	
3 39	High Pressure Pump Truck	
3 40	Stimulation	
3 41	Rentals - Pressure Control	
3 42	Flowback Services	52,500
3 43	Water Transfer Services	
3 44	Flowback Water Trucking & Disposal	30,002
3 45	Permanent Equipment Installation	
3 46	Pipeline Tapping Services	
3 47	Plugging & Abandonment	
3 53	Overhead	5,500
3 54	Insurance	
3 55	Contingency	21,140

TOTAL INTANGIBLE PRODUCTION COSTS: **\$315,042**

TANGIBLE DRILLING COSTS		
COST CODES	DESCRIPTION	AMOUNT
4 60	Conductor Casing	0
4 61	Surface Casing	42,599
4 62	1st Intermediate Casing	153,263
4 63	2nd Intermediate Casing	341,472
4 64	Production Casing	378,050
4 65	Tubing	
4 66	Wellhead	0
4 67	Permanent Packers/Hangers/Plugs	
4 68	Tanks	
4 69	Production Vessels	
4 70	Compressors	
4 71	Surface Flowlines	
4 72	Gathering Lines	
4 73	Valves & Controllers	
4 74	Artificial Lift Equipment	
4 75	Instrumentation & Measurement	
4 76	Electrical Grounding/Safety Equipment	
4 77	Permanent Equipment Installation	
4 80	Other - Surface	
4 81	Other - Downhole	

TOTAL TANGIBLE DRILLING COSTS: **\$915,383**

TANGIBLE COMPLETION COSTS		
COST CODES	DESCRIPTION	AMOUNT
5 60	Conductor Casing	
5 61	Surface Casing	
5 62	1st Intermediate Casing	
5 63	2nd Intermediate Casing	
5 64	Production Casing	0
5 65	Tubing	
5 66	Wellhead	0
5 67	Permanent Packers/Hangers/Plugs	
5 68	Tanks	
5 69	Production Vessels	
5 70	Compressors	
5 71	Surface Flowlines	
5 72	Gathering Lines	
5 73	Valves & Controllers	
5 74	Artificial Lift Equipment	
5 75	Instrumentation & Measurement	
5 76	Electrical Grounding/Safety Equipment	
5 77	Permanent Equipment Installation	
5 80	Other - Surface	
5 81	Other - Downhole	

TOTAL TANGIBLE COMPLETION COSTS: **\$0**

TANGIBLE PRODUCTION COSTS		
COST CODES	DESCRIPTION	AMOUNT
6 60	Conductor Casing	
6 61	Surface Casing	
6 62	1st Intermediate Casing	
6 63	2nd Intermediate Casing	
6 64	Production Casing	
6 65	Tubing	50,000
6 66	Wellhead	43,500
6 67	Permanent Packers/Hangers/Plugs	10,000
6 68	Tanks	
6 69	Production Vessels	107,000
6 70	Compressors	
6 71	Surface Flowlines	50,000
6 72	Gathering Lines	10,000
6 73	Valves & Controllers	
6 74	Artificial Lift Equipment	15,000
6 75	Instrumentation & Measurement	
6 76	Electrical Grounding/Safety Equipment	
6 77	Permanent Equipment Installation	
6 80	Other - Surface	
6 81	Other - Downhole	

TOTAL TANGIBLE PRODUCTION COSTS: **\$285,500**

TOTAL DRILLING COSTS: **\$2,886,250**

TOTAL COMPLETION COSTS: **\$2,856,864**

TOTAL PRODUCTION COSTS: **\$600,542**

TOTAL WELL COST: **\$6,343,656**

TAP ROCK RESOURCES COMPANY APPROVAL:

CEO _____ VP - EXPLORATION _____

CFO _____ VP - OPERATIONS _____

VP - LAND & LEGAL _____ SENIOR GEOLOGIST _____

NON OPERATING PARTNER APPROVAL:

COMPANY NAME: _____

SIGNED BY: _____ TITLE: _____

WORKING INTEREST (%): _____ DATE: _____

TAX ID: _____ APPROVAL: _____

AFE is an estimate only. By signing this AFE, you agree to pay your proportionate share of the actual costs.

TAP ROCK OPERATING, LLC
 602 Park Point Dr, Golden, Colorado 80401
 Authorization For Expenditure

Name: **Mulva Fed Com #132H**
 AFE #: **0**
 County: **Lea**
 State: **NM**

Date: **February 22, 2021**
 MD/TVD: **20296 / 12236**
 Lateral Length: **7610**
 Geologic Target: **Wolfcamp A**

Well Description: **Drill, complete, and equip a horizontal Wolfcamp A well with a 7610 foot lateral.**

INTANGIBLE DRILLING COSTS		
COST CODES	DESCRIPTION	AMOUNT
1 1	Land - Legal	10,000
1 2	Land - Regulatory	5,000
1 3	Land - Surface Damages	20,000
1 4	Land - Survey	10,000
1 5	Location/Pit Construction	140,000
1 6	Remedial Dirtwork	0
1 7	Reserve/Frac Pit Closing	0
1 8	Drilling - Contractor	471,579
1 9	Mob/Rig Up - Contractor/Trucking	123,250
1 10	Cementing Services	0
1 11	Cementing Equipment	0
1 12	Bits/Drill Out Assemblies	0
1 13	Fluid Circulation Equipment/Services	72,894
1 14	Fluids/Chemicals	251,130
1 15	WBM Cuttings/Wastewater Disposal	205,470
1 16	OBM Cuttings/Chemical Disposal	76,100
1 17	Fuel/Power	109,807
1 18	Water	0
1 19	Directional Drilling	178,095
1 20	Mud Logging	15,550
1 21	Open/Cased/Production Hole Logs	0
1 22	Coring	0
1 23	Geologic Supervision	0
1 24	Engineering Supervision	0
1 25	Consultant Supervision	98,626
1 26	Freight/Transportation	20,000
1 27	Labor	0
1 28	Supplies - Surface	2,500
1 29	Supplies - Living Quarters	1,000
1 30	Rentals - Surface	45,796
1 31	Rentals - Living Quarters	25,256
1 32	Rentals - Downhole	0
1 33	Rentals - Pipe & Handling Tools	0
1 34	Rentals - Frac Stack	0
1 35	Rentals - Frac Tanks	0
1 36	Coil Tubing Unit/Workover Rig	0
1 37	Wireline/Slickline/Perforating	0
1 38	Temporary Packers/Plugs	0
1 39	High Pressure Pump Truck	0
1 40	Stimulation	0
1 41	Rentals - Pressure Control	0
1 42	Flowback Services	0
1 43	Water Transfer Services	0
1 44	Flowback Water Trucking & Disposal	0
1 45	Permanent Equipment Installation	0
1 46	Pipeline Tapping Services	0
1 47	Plugging & Abandonment	0
1 53	Overhead	8,481
1 54	Insurance	36,539
1 55	Contingency	93,865
TOTAL INTANGIBLE DRILLING COSTS:		\$1,971,171

INTANGIBLE COMPLETION COSTS		
COST CODES	DESCRIPTION	AMOUNT
2 1	Land - Legal	
2 2	Land - Regulatory	
2 3	Land - Surface Damages	
2 4	Land - Survey	
2 5	Location/Pit Construction	
2 6	Remedial Dirtwork	
2 7	Reserve/Frac Pit Closing	
2 8	Drilling - Contractor	
2 9	Mob/Rig Up - Contractor/Trucking	
2 10	Cementing Services	
2 11	Cementing Equipment	
2 12	Bits/Drill Out Assemblies	35,440
2 13	Fluid Circulation Equipment/Services	
2 14	Fluids/Chemicals	25,913
2 15	WBM Cuttings/Wastewater Disposal	
2 16	OBM Cuttings/Chemical Disposal	
2 17	Fuel/Power	225,600
2 18	Water	393,744
2 19	Directional Drilling	
2 20	Mud Logging	
2 21	Open/Cased/Production Hole Logs	8,440
2 22	Coring	
2 23	Geologic Supervision	
2 24	Engineering Supervision	
2 25	Consultant Supervision	66,000
2 26	Freight/Transportation	2,000
2 27	Labor	11,720
2 28	Supplies - Surface	2,000
2 29	Supplies - Living Quarters	2,000
2 30	Rentals - Surface	16,560
2 31	Rentals - Living Quarters	12,320
2 32	Rentals - Downhole	0
2 33	Rentals - Pipe & Handling Tools	0
2 34	Rentals - Frac Stack	81,894
2 35	Rentals - Frac Tanks	78,730
2 36	Coil Tubing Unit/Workover Rig	68,190
2 37	Wireline/Slickline/Perforating	205,898
2 38	Temporary Packers/Plugs	31,200
2 39	High Pressure Pump Truck	86,640
2 40	Stimulation	1,860,328
2 41	Rentals - Pressure Control	
2 42	Flowback Services	41,231
2 43	Water Transfer Services	63,600
2 44	Flowback Water Trucking & Disposal	10,649
2 45	Permanent Equipment Installation	
2 46	Pipeline Tapping Services	
2 47	Plugging & Abandonment	
2 53	Overhead	13,715
2 54	Insurance	
2 55	Contingency	103,653
TOTAL INTANGIBLE COMPLETION COSTS:		\$2,856,864

INTANGIBLE PRODUCTION COSTS		
COST CODES	DESCRIPTION	AMOUNT
3 1	Land - Legal	
3 2	Land - Regulatory	
3 3	Land - Surface Damages	
3 4	Land - Survey	
3 5	Location/Pit Construction	5,000
3 6	Remedial Dirtwork	
3 7	Reserve/Frac Pit Closing	
3 8	Drilling - Contractor	
3 9	Mob/Rig Up - Contractor/Trucking	
3 10	Cementing Services	
3 11	Cementing Equipment	
3 12	Bits/Drill Out Assemblies	
3 13	Fluid Circulation Equipment/Services	
3 14	Fluids/Chemicals	
3 15	WBM Cuttings/Wastewater Disposal	
3 16	OBM Cuttings/Chemical Disposal	
3 17	Fuel/Power	
3 18	Water	
3 19	Directional Drilling	
3 20	Mud Logging	
3 21	Open/Cased/Production Hole Logs	
3 22	Coring	
3 23	Geologic Supervision	
3 24	Engineering Supervision	
3 25	Consultant Supervision	22,500
3 26	Freight/Transportation	10,000
3 27	Labor	65,000
3 28	Supplies - Surface	
3 29	Supplies - Living Quarters	
3 30	Rentals - Surface	
3 31	Rentals - Living Quarters	
3 32	Rentals - Downhole	
3 33	Rentals - Pipe & Handling Tools	
3 34	Rentals - Frac Stack	
3 35	Rentals - Frac Tanks	
3 36	Coil Tubing Unit/Workover Rig	83,400
3 37	Wireline/Slickline/Perforating	
3 38	Temporary Packers/Plugs	
3 39	High Pressure Pump Truck	
3 40	Stimulation	
3 41	Rentals - Pressure Control	
3 42	Flowback Services	52,500
3 43	Water Transfer Services	
3 44	Flowback Water Trucking & Disposal	30,002
3 45	Permanent Equipment Installation	
3 46	Pipeline Tapping Services	
3 47	Plugging & Abandonment	
3 53	Overhead	5,500
3 54	Insurance	
3 55	Contingency	21,140
TOTAL INTANGIBLE PRODUCTION COSTS:		\$315,042

TANGIBLE DRILLING COSTS		
COST CODES	DESCRIPTION	AMOUNT
4 60	Conductor Casing	0
4 61	Surface Casing	42,590
4 62	1st Intermediate Casing	153,263
4 63	2nd Intermediate Casing	341,280
4 64	Production Casing	977,937
4 65	Tubing	0
4 66	Wellhead	0
4 67	Permanent Packers/Hangers/Plugs	0
4 68	Tanks	0
4 69	Production Vessels	0
4 70	Compressors	0
4 71	Surface Flowlines	0
4 72	Gathering Lines	0
4 73	Valves & Controllers	0
4 74	Artificial Lift Equipment	0
4 75	Instrumentation & Measurement	0
4 76	Electrical Grounding/Safety Equipment	0
4 77	Permanent Equipment Installation	0
4 80	Other - Surface	0
4 81	Other - Downhole	0
TOTAL TANGIBLE DRILLING COSTS:		\$915,079
TOTAL DRILLING COSTS:		\$2,886,250

TANGIBLE COMPLETION COSTS		
COST CODES	DESCRIPTION	AMOUNT
5 60	Conductor Casing	
5 61	Surface Casing	
5 62	1st Intermediate Casing	
5 63	2nd Intermediate Casing	
5 64	Production Casing	0
5 65	Tubing	
5 66	Wellhead	0
5 67	Permanent Packers/Hangers/Plugs	
5 68	Tanks	
5 69	Production Vessels	
5 70	Compressors	
5 71	Surface Flowlines	
5 72	Gathering Lines	
5 73	Valves & Controllers	
5 74	Artificial Lift Equipment	
5 75	Instrumentation & Measurement	
5 76	Electrical Grounding/Safety Equipment	
5 77	Permanent Equipment Installation	
5 80	Other - Surface	
5 81	Other - Downhole	
TOTAL TANGIBLE COMPLETION COSTS:		\$0
TOTAL COMPLETION COSTS:		\$2,856,864

TANGIBLE PRODUCTION COSTS		
COST CODES	DESCRIPTION	AMOUNT
6 60	Conductor Casing	
6 61	Surface Casing	
6 62	1st Intermediate Casing	
6 63	2nd Intermediate Casing	
6 64	Production Casing	
6 65	Tubing	50,000
6 66	Wellhead	43,500
6 67	Permanent Packers/Hangers/Plugs	10,000
6 68	Tanks	
6 69	Production Vessels	107,000
6 70	Compressors	
6 71	Surface Flowlines	50,000
6 72	Gathering Lines	10,000
6 73	Valves & Controllers	
6 74	Artificial Lift Equipment	15,000
6 75	Instrumentation & Measurement	
6 76	Electrical Grounding/Safety Equipment	
6 77	Permanent Equipment Installation	
6 80	Other - Surface	
6 81	Other - Downhole	
TOTAL TANGIBLE PRODUCTION COSTS:		\$285,500
TOTAL PRODUCTION COSTS:		\$600,542

TOTAL WELL COST: \$6,343,656

TAP ROCK RESOURCES COMPANY APPROVAL:

CEO _____ VP - EXPLORATION _____

CFO _____ VP - OPERATIONS _____

VP - LAND & LEGAL _____ SENIOR GEOLOGIST _____

NON OPERATING PARTNER APPROVAL:

COMPANY NAME: _____

SIGNED BY: _____ TITLE: _____

WORKING INTEREST (%): _____ DATE: _____

TAX ID: _____ APPROVAL: _____

AFE is an estimate only. By signing this AFE, you agree to pay your proportionate share of the actual costs.

TAP ROCK OPERATING, LLC
602 Park Point Dr, Golden, Colorado 80401
Authorization For Expenditure

Name: **Mulva Fed Com #211H**
AFE #: **0**
County: **Lea**
State: **NM**

Date: **February 22, 2021**
MD/TVD: **20458 / 12398**
Lateral Length: **7610**
Geologic Target: **Wolfcamp A**

Well Description: **Drill, complete, and equip a horizontal Wolfcamp A well with a 7610 foot lateral.**

INTANGIBLE DRILLING COSTS		
COST CODES	DESCRIPTION	AMOUNT
1 1	Land - Legal	10,000
1 2	Land - Regulatory	5,000
1 3	Land - Surface Damages	20,000
1 4	Land - Survey	10,000
1 5	Location/Pit Construction	140,000
1 6	Remedial Dirtwork	0
1 7	Reserve/Frac Pit Closing	0
1 8	Drilling - Contractor	417,877
1 9	Mob/Rig Up - Contractor/Trucking	123,250
1 10	Cementing Services	0
1 11	Cementing Equipment	0
1 12	Bits/Drill Out Assemblies	0
1 13	Fluid Circulation Equipment/Services	72,301
1 14	Fluids/Chemicals	251,130
1 15	WBM Cuttings/Wastewater Disposal	205,470
1 16	OBM Cuttings/Chemical Disposal	76,100
1 17	Fuel/Power	109,071
1 18	Water	0
1 19	Directional Drilling	176,549
1 20	Mud Logging	15,358
1 21	Open/Cased/Production Hole Logs	0
1 22	Coring	0
1 23	Geologic Supervision	0
1 24	Engineering Supervision	0
1 25	Consultant Supervision	98,164
1 26	Freight/Transportation	20,000
1 27	Labor	0
1 28	Supplies - Surface	2,500
1 29	Supplies - Living Quarters	1,000
1 30	Rentals - Surface	45,398
1 31	Rentals - Living Quarters	25,086
1 32	Rentals - Downhole	0
1 33	Rentals - Pipe & Handling Tools	0
1 34	Rentals - Frac Stack	0
1 35	Rentals - Frac Tanks	0
1 36	Coil Tubing Unit/Workover Rig	0
1 37	Wireline/Slickline/Perforating	0
1 38	Temporary Packers/Plugs	0
1 39	High Pressure Pump Truck	0
1 40	Stimulation	0
1 41	Rentals - Pressure Control	0
1 42	Flowback Services	0
1 43	Water Transfer Services	0
1 44	Flowback Water Trucking & Disposal	0
1 45	Permanent Equipment Installation	0
1 46	Pipeline Tapping Services	0
1 47	Plugging & Abandonment	0
1 53	Overhead	8,407
1 54	Insurance	36,824
1 55	Contingency	93,474

TOTAL INTANGIBLE DRILLING COSTS: \$1,962,961

INTANGIBLE COMPLETION COSTS		
COST CODES	DESCRIPTION	AMOUNT
2 1	Land - Legal	0
2 2	Land - Regulatory	0
2 3	Land - Surface Damages	0
2 4	Land - Survey	0
2 5	Location/Pit Construction	0
2 6	Remedial Dirtwork	0
2 7	Reserve/Frac Pit Closing	0
2 8	Drilling - Contractor	0
2 9	Mob/Rig Up - Contractor/Trucking	0
2 10	Cementing Services	0
2 11	Cementing Equipment	0
2 12	Bits/Drill Out Assemblies	35,440
2 13	Fluid Circulation Equipment/Services	0
2 14	Fluids/Chemicals	25,313
2 15	WBM Cuttings/Wastewater Disposal	0
2 16	OBM Cuttings/Chemical Disposal	0
2 17	Fuel/Power	224,529
2 18	Water	393,894
2 19	Directional Drilling	0
2 20	Mud Logging	0
2 21	Open/Cased/Production Hole Logs	6,440
2 22	Coring	0
2 23	Geologic Supervision	0
2 24	Engineering Supervision	0
2 25	Consultant Supervision	66,000
2 26	Freight/Transportation	2,000
2 27	Labor	11,720
2 28	Supplies - Surface	2,000
2 29	Supplies - Living Quarters	2,000
2 30	Rentals - Surface	16,560
2 31	Rentals - Living Quarters	12,320
2 32	Rentals - Downhole	0
2 33	Rentals - Pipe & Handling Tools	0
2 34	Rentals - Frac Stack	81,894
2 35	Rentals - Frac Tanks	78,730
2 36	Coil Tubing Unit/Workover Rig	68,190
2 37	Wireline/Slickline/Perforating	217,728
2 38	Temporary Packers/Plugs	43,507
2 39	High Pressure Pump Truck	46,640
2 40	Stimulation	1,336,648
2 41	Rentals - Pressure Control	0
2 42	Flowback Services	41,231
2 43	Water Transfer Services	63,600
2 44	Flowback Water Trucking & Disposal	10,649
2 45	Permanent Equipment Installation	0
2 46	Pipeline Tapping Services	0
2 47	Plugging & Abandonment	0
2 53	Overhead	13,735
2 54	Insurance	0
2 55	Contingency	104,216

TOTAL INTANGIBLE COMPLETION COSTS: \$2,856,864

INTANGIBLE PRODUCTION COSTS		
COST CODES	DESCRIPTION	AMOUNT
3 1	Land - Legal	0
3 2	Land - Regulatory	0
3 3	Land - Surface Damages	0
3 4	Land - Survey	0
3 5	Location/Pit Construction	5,000
3 6	Remedial Dirtwork	0
3 7	Reserve/Frac Pit Closing	0
3 8	Drilling - Contractor	0
3 9	Mob/Rig Up - Contractor/Trucking	0
3 10	Cementing Services	0
3 11	Cementing Equipment	0
3 12	Bits/Drill Out Assemblies	0
3 13	Fluid Circulation Equipment/Services	0
3 14	Fluids/Chemicals	0
3 15	WBM Cuttings/Wastewater Disposal	0
3 16	OBM Cuttings/Chemical Disposal	0
3 17	Fuel/Power	0
3 18	Water	0
3 19	Directional Drilling	0
3 20	Mud Logging	0
3 21	Open/Cased/Production Hole Logs	0
3 22	Coring	0
3 23	Geologic Supervision	0
3 24	Engineering Supervision	0
3 25	Consultant Supervision	27,500
3 26	Freight/Transportation	10,000
3 27	Labor	65,000
3 28	Supplies - Surface	0
3 29	Supplies - Living Quarters	0
3 30	Rentals - Surface	0
3 31	Rentals - Living Quarters	0
3 32	Rentals - Downhole	0
3 33	Rentals - Pipe & Handling Tools	0
3 34	Rentals - Frac Stack	0
3 35	Rentals - Frac Tanks	0
3 36	Coil Tubing Unit/Workover Rig	83,400
3 37	Wireline/Slickline/Perforating	0
3 38	Temporary Packers/Plugs	0
3 39	High Pressure Pump Truck	0
3 40	Stimulation	0
3 41	Rentals - Pressure Control	0
3 42	Flowback Services	52,500
3 43	Water Transfer Services	0
3 44	Flowback Water Trucking & Disposal	30,002
3 45	Permanent Equipment Installation	0
3 46	Pipeline Tapping Services	0
3 47	Plugging & Abandonment	0
3 53	Overhead	5,500
3 54	Insurance	0
3 55	Contingency	21,140

TOTAL INTANGIBLE PRODUCTION COSTS: \$315,042

TANGIBLE DRILLING COSTS		
COST CODES	DESCRIPTION	AMOUNT
4 60	Conductor Casing	0
4 61	Surface Casing	42,599
4 62	1st Intermediate Casing	153,263
4 63	2nd Intermediate Casing	346,453
4 64	Production Casing	380,975
4 65	Tubing	0
4 66	Wellhead	0
4 67	Permanent Packers/Hangers/Plugs	0
4 68	Tanks	0
4 69	Production Vessels	0
4 70	Compressors	0
4 71	Surface Flowlines	0
4 72	Gathering Lines	0
4 73	Valves & Controllers	0
4 74	Artificial Lift Equipment	0
4 75	Instrumentation & Measurement	0
4 76	Electrical Grounding/Safety Equipment	0
4 77	Permanent Equipment Installation	0
4 80	Other - Surface	0
4 81	Other - Downhole	0

TOTAL TANGIBLE DRILLING COSTS: \$923,289

TANGIBLE COMPLETION COSTS		
COST CODES	DESCRIPTION	AMOUNT
5 60	Conductor Casing	0
5 61	Surface Casing	0
5 62	1st Intermediate Casing	0
5 63	2nd Intermediate Casing	0
5 64	Production Casing	0
5 65	Tubing	0
5 66	Wellhead	0
5 67	Permanent Packers/Hangers/Plugs	0
5 68	Tanks	0
5 69	Production Vessels	0
5 70	Compressors	0
5 71	Surface Flowlines	0
5 72	Gathering Lines	0
5 73	Valves & Controllers	0
5 74	Artificial Lift Equipment	0
5 75	Instrumentation & Measurement	0
5 76	Electrical Grounding/Safety Equipment	0
5 77	Permanent Equipment Installation	0
5 80	Other - Surface	0
5 81	Other - Downhole	0

TOTAL TANGIBLE COMPLETION COSTS: \$0

TANGIBLE PRODUCTION COSTS		
COST CODES	DESCRIPTION	AMOUNT
6 60	Conductor Casing	0
6 61	Surface Casing	0
6 62	1st Intermediate Casing	0
6 63	2nd Intermediate Casing	0
6 64	Production Casing	0
6 65	Tubing	50,000
6 66	Wellhead	43,500
6 67	Permanent Packers/Hangers/Plugs	10,000
6 68	Tanks	0
6 69	Production Vessels	107,000
6 70	Compressors	0
6 71	Surface Flowlines	50,000
6 72	Gathering Lines	10,000
6 73	Valves & Controllers	0
6 74	Artificial Lift Equipment	15,000
6 75	Instrumentation & Measurement	0
6 76	Electrical Grounding/Safety Equipment	0
6 77	Permanent Equipment Installation	0
6 80	Other - Surface	0
6 81	Other - Downhole	0

TOTAL TANGIBLE PRODUCTION COSTS: \$285,500

TOTAL DRILLING COSTS: \$2,886,250

TOTAL COMPLETION COSTS: \$2,856,864

TOTAL PRODUCTION COSTS: \$600,542

TOTAL WELL COST: \$6,343,656

TAP ROCK RESOURCES COMPANY APPROVAL:

CEO _____ VP - EXPLORATION _____

CFO _____ VP - OPERATIONS _____

VP - LAND & LEGAL _____ SENIOR GEOLOGIST _____

NON OPERATING PARTNER APPROVAL:

COMPANY NAME: _____

SIGNED BY: _____ TITLE: _____

WORKING INTEREST (%): _____ DATE: _____

TAX ID: _____ APPROVAL: _____

TAP ROCK OPERATING, LLC
 602 Park Point Dr, Golden, Colorado 80401
 Authorization For Expenditure

Name: **Mulva Fed Com #212H**
 AFE #: **0**
 County: **Lea**
 State: **NM**

Date: **February 22, 2021**
 MD/TVD: **20460 / 12400**
 Lateral Length: **7610**
 Geologic Target: **Wolfcamp A**

Well Description: **Drill, complete, and equip a horizontal Wolfcamp A well with a 7610 foot lateral.**

INTANGIBLE DRILLING COSTS		
COST CODES	DESCRIPTION	AMOUNT
1 1	Land - Legal	10,000
1 2	Land - Regulatory	5,000
1 3	Land - Surface Damages	20,000
1 4	Land - Survey	10,000
1 5	Location/Pit Construction	140,000
1 6	Remedial Dirtwork	0
1 7	Reserve/Frac Pit Closing	0
1 8	Drilling - Contractor	617,831
1 9	Mob/Rig Up - Contractor/Trucking	123,250
1 10	Cementing Services	0
1 11	Cementing Equipment	0
1 12	Bits/Drill Out Assemblies	0
1 13	Fluid Circulation Equipment/Services	72,293
1 14	Fluids/Chemicals	251,130
1 15	WBM Cuttings/Wastewater Disposal	205,470
1 16	OBM Cuttings/Chemical Disposal	76,100
1 17	Fuel/Power	109,062
1 18	Water	0
1 19	Directional Drilling	176,530
1 20	Mud Logging	15,356
1 21	Open/Cased/Production Hole Logs	0
1 22	Coring	0
1 23	Geologic Supervision	0
1 24	Engineering Supervision	0
1 25	Consultant Supervision	98,156
1 26	Freight/Transportation	20,000
1 27	Labor	0
1 28	Supplies - Surface	2,500
1 29	Supplies - Living Quarters	1,000
1 30	Rentals - Surface	45,393
1 31	Rentals - Living Quarters	25,084
1 32	Rentals - Downhole	0
1 33	Rentals - Pipe & Handling Tools	0
1 34	Rentals - Frac Stack	0
1 35	Rentals - Frac Tanks	0
1 36	Coil Tubing Unit/Workover Rig	0
1 37	Wireline/Slickline/Perforating	0
1 38	Temporary Packers/Plugs	0
1 39	High Pressure Pump Truck	0
1 40	Stimulation	0
1 41	Rentals - Pressure Control	0
1 42	Flowback Services	0
1 43	Water Transfer Services	0
1 44	Flowback Water Trucking & Disposal	0
1 45	Permanent Equipment Installation	0
1 46	Pipeline Tapping Services	0
1 47	Plugging & Abandonment	0
1 53	Overhead	8,406
1 54	Insurance	36,828
1 55	Contingency	93,470

TOTAL INTANGIBLE DRILLING COSTS: \$1,962,860

INTANGIBLE COMPLETION COSTS		
COST CODES	DESCRIPTION	AMOUNT
2 1	Land - Legal	
2 2	Land - Regulatory	
2 3	Land - Surface Damages	
2 4	Land - Survey	
2 5	Location/Pit Construction	
2 6	Remedial Dirtwork	
2 7	Reserve/Frac Pit Closing	
2 8	Drilling - Contractor	
2 9	Mob/Rig Up - Contractor/Trucking	
2 10	Cementing Services	
2 11	Cementing Equipment	
2 12	Bits/Drill Out Assemblies	35,440
2 13	Fluid Circulation Equipment/Services	
2 14	Fluids/Chemicals	25,313
2 15	WBM Cuttings/Wastewater Disposal	
2 16	OBM Cuttings/Chemical Disposal	
2 17	Fuel/Power	225,600
2 18	Water	393,744
2 19	Directional Drilling	
2 20	Mud Logging	
2 21	Open/Cased/Production Hole Logs	8,440
2 22	Coring	
2 23	Geologic Supervision	
2 24	Engineering Supervision	
2 25	Consultant Supervision	66,000
2 26	Freight/Transportation	2,000
2 27	Labor	11,720
2 28	Supplies - Surface	2,000
2 29	Supplies - Living Quarters	2,000
2 30	Rentals - Surface	16,560
2 31	Rentals - Living Quarters	12,520
2 32	Rentals - Downhole	0
2 33	Rentals - Pipe & Handling Tools	0
2 34	Rentals - Frac Stack	81,894
2 35	Rentals - Frac Tanks	28,730
2 36	Coil Tubing Unit/Workover Rig	68,190
2 37	Wireline/Slickline/Perforating	205,898
2 38	Temporary Packers/Plugs	31,200
2 39	High Pressure Pump Truck	46,640
2 40	Stimulation	1,860,328
2 41	Rentals - Pressure Control	
2 42	Flowback Services	41,231
2 43	Water Transfer Services	63,600
2 44	Flowback Water Trucking & Disposal	10,649
2 45	Permanent Equipment Installation	
2 46	Pipeline Tapping Services	
2 47	Plugging & Abandonment	
2 53	Overhead	13,715
2 54	Insurance	
2 55	Contingency	103,653

TOTAL INTANGIBLE COMPLETION COSTS: \$2,856,864

INTANGIBLE PRODUCTION COSTS		
COST CODES	DESCRIPTION	AMOUNT
3 1	Land - Legal	
3 2	Land - Regulatory	
3 3	Land - Surface Damages	
3 4	Land - Survey	
3 5	Location/Pit Construction	5,000
3 6	Remedial Dirtwork	
3 7	Reserve/Frac Pit Closing	
3 8	Drilling - Contractor	
3 9	Mob/Rig Up - Contractor/Trucking	
3 10	Cementing Services	
3 11	Cementing Equipment	
3 12	Bits/Drill Out Assemblies	
3 13	Fluid Circulation Equipment/Services	
3 14	Fluids/Chemicals	
3 15	WBM Cuttings/Wastewater Disposal	
3 16	OBM Cuttings/Chemical Disposal	
3 17	Fuel/Power	
3 18	Water	
3 19	Directional Drilling	
3 20	Mud Logging	
3 21	Open/Cased/Production Hole Logs	
3 22	Coring	
3 23	Geologic Supervision	
3 24	Engineering Supervision	
3 25	Consultant Supervision	22,500
3 26	Freight/Transportation	10,000
3 27	Labor	65,000
3 28	Supplies - Surface	
3 29	Supplies - Living Quarters	
3 30	Rentals - Surface	
3 31	Rentals - Living Quarters	
3 32	Rentals - Downhole	
3 33	Rentals - Pipe & Handling Tools	
3 34	Rentals - Frac Stack	
3 35	Rentals - Frac Tanks	
3 36	Coil Tubing Unit/Workover Rig	83,400
3 37	Wireline/Slickline/Perforating	
3 38	Temporary Packers/Plugs	
3 39	High Pressure Pump Truck	
3 40	Stimulation	
3 41	Rentals - Pressure Control	
3 42	Flowback Services	52,500
3 43	Water Transfer Services	
3 44	Flowback Water Trucking & Disposal	30,002
3 45	Permanent Equipment Installation	
3 46	Pipeline Tapping Services	
3 47	Plugging & Abandonment	
3 53	Overhead	5,500
3 54	Insurance	
3 55	Contingency	21,140

TOTAL INTANGIBLE PRODUCTION COSTS: \$315,042

TANGIBLE DRILLING COSTS		
COST CODES	DESCRIPTION	AMOUNT
4 60	Conductor Casing	0
4 61	Surface Casing	42,599
4 62	1st Intermediate Casing	153,263
4 63	2nd Intermediate Casing	346,517
4 64	Production Casing	381,012
4 65	Tubing	0
4 66	Wellhead	0
4 67	Permanent Packers/Hangers/Plugs	0
4 68	Tanks	0
4 69	Production Vessels	0
4 70	Compressors	0
4 71	Surface Flowlines	0
4 72	Gathering Lines	0
4 73	Valves & Controllers	0
4 74	Artificial Lift Equipment	0
4 75	Instrumentation & Measurement	0
4 76	Electrical Grounding/Safety Equipment	0
4 77	Permanent Equipment Installation	0
4 80	Other - Surface	0
4 81	Other - Downhole	0

TOTAL TANGIBLE DRILLING COSTS: \$923,391

TOTAL DRILLING COSTS: \$2,886,250

TANGIBLE COMPLETION COSTS		
COST CODES	DESCRIPTION	AMOUNT
5 60	Conductor Casing	
5 61	Surface Casing	
5 62	1st Intermediate Casing	
5 63	2nd Intermediate Casing	
5 64	Production Casing	0
5 65	Tubing	0
5 66	Wellhead	0
5 67	Permanent Packers/Hangers/Plugs	
5 68	Tanks	
5 69	Production Vessels	
5 70	Compressors	
5 71	Surface Flowlines	
5 72	Gathering Lines	
5 73	Valves & Controllers	
5 74	Artificial Lift Equipment	
5 75	Instrumentation & Measurement	
5 76	Electrical Grounding/Safety Equipment	
5 77	Permanent Equipment Installation	
5 80	Other - Surface	
5 81	Other - Downhole	

TOTAL TANGIBLE COMPLETION COSTS: \$0

TOTAL COMPLETION COSTS: \$2,856,864

TANGIBLE PRODUCTION COSTS		
COST CODES	DESCRIPTION	AMOUNT
6 60	Conductor Casing	
6 61	Surface Casing	
6 62	1st Intermediate Casing	
6 63	2nd Intermediate Casing	
6 64	Production Casing	
6 65	Tubing	50,000
6 66	Wellhead	43,500
6 67	Permanent Packers/Hangers/Plugs	10,000
6 68	Tanks	
6 69	Production Vessels	107,000
6 70	Compressors	
6 71	Surface Flowlines	50,000
6 72	Gathering Lines	10,000
6 73	Valves & Controllers	
6 74	Artificial Lift Equipment	15,000
6 75	Instrumentation & Measurement	
6 76	Electrical Grounding/Safety Equipment	
6 77	Permanent Equipment Installation	
6 80	Other - Surface	
6 81	Other - Downhole	

TOTAL TANGIBLE PRODUCTION COSTS: \$285,500

TOTAL PRODUCTION COSTS: \$600,542

TOTAL WELL COST: \$6,343,656

TAP ROCK RESOURCES COMPANY APPROVAL:

CEO _____ VP - EXPLORATION _____
 CFO _____ VP - OPERATIONS _____
 VP - LAND & LEGAL _____ SENIOR GEOLOGIST _____

NON OPERATING PARTNER APPROVAL:

COMPANY NAME: _____
 SIGNED BY: _____ TITLE: _____
 WORKING INTEREST (%): _____ DATE: _____
 TAX ID: _____ APPROVAL: _____

TAP ROCK OPERATING, LLC
 602 Park Point Dr, Golden, Colorado 80401
 Authorization For Expenditure

Name: **Mulva Fed Com #215H**
 AFE #: **0**
 County: **Lea**
 State: **NM**

Date: **February 22, 2021**
 MD/VTD: **201445 / 12385**
 Lateral Length: **7610**
 Geologic Target: **Wolfcamp A**

Well Description: **Drill, complete, and equip a horizontal Wolfcamp A well with a 7610 foot lateral.**

INTANGIBLE DRILLING COSTS		
COST CODES	DESCRIPTION	AMOUNT
1 1	Land - Legal	10,000
1 2	Land - Regulatory	5,000
1 3	Land - Surface Damages	20,000
1 4	Land - Survey	10,000
1 5	Location/Pit Construction	140,000
1 6	Remedial Dirtwork	0
1 7	Reserve/Frac Pit Closing	0
1 8	Drilling - Contractor	418,174
1 9	Mob/Rig Up - Contractor/Trucking	123,250
1 10	Cementing Services	0
1 11	Cementing Equipment	0
1 12	Bits/Drill Out Assemblies	0
1 13	Fluid Circulation Equipment/Services	72,352
1 14	Fluids/Chemicals	251,130
1 15	WBM Cuttings/Wastewater Disposal	205,470
1 16	OBM Cuttings/Chemical Disposal	76,100
1 17	Fuel/Power	109,130
1 18	Water	0
1 19	Directional Drilling	176,673
1 20	Mud Logging	15,374
1 21	Open/Cased/Production Hole Logs	0
1 22	Coring	0
1 23	Geologic Supervision	0
1 24	Engineering Supervision	0
1 25	Consultant Supervision	98,717
1 26	Freight/Transportation	20,000
1 27	Labor	0
1 28	Supplies - Surface	2,500
1 29	Supplies - Living Quarters	1,000
1 30	Rentals - Surface	45,430
1 31	Rentals - Living Quarters	25,100
1 32	Rentals - Downhole	0
1 33	Rentals - Pipe & Handling Tools	0
1 34	Rentals - Frac Stack	0
1 35	Rentals - Frac Tanks	0
1 36	Coil Tubing Unit/Workover Rig	0
1 37	Wireline/Slickline/Perforating	0
1 38	Temporary Packers/Plugs	0
1 39	High Pressure Pump Truck	0
1 40	Stimulation	0
1 41	Rentals - Pressure Control	0
1 42	Flowback Services	0
1 43	Water Transfer Services	0
1 44	Flowback Water Trucking & Disposal	0
1 45	Permanent Equipment Installation	0
1 46	Pipeline Tapping Services	0
1 47	Plugging & Abandonment	0
1 53	Overhead	8,413
1 54	Insurance	36,801
1 55	Contingency	93,506

TOTAL INTANGIBLE DRILLING COSTS: **\$1,963,620**

INTANGIBLE COMPLETION COSTS		
COST CODES	DESCRIPTION	AMOUNT
2 1	Land - Legal	
2 2	Land - Regulatory	
2 3	Land - Surface Damages	
2 4	Land - Survey	
2 5	Location/Pit Construction	
2 6	Remedial Dirtwork	
2 7	Reserve/Frac Pit Closing	
2 8	Drilling - Contractor	
2 9	Mob/Rig Up - Contractor/Trucking	
2 10	Cementing Services	
2 11	Cementing Equipment	
2 12	Bits/Drill Out Assemblies	35,440
2 13	Fluid Circulation Equipment/Services	
2 14	Fluids/Chemicals	25,313
2 15	WBM Cuttings/Wastewater Disposal	
2 16	OBM Cuttings/Chemical Disposal	
2 17	Fuel/Power	224,529
2 18	Water	393,894
2 19	Directional Drilling	
2 20	Mud Logging	
2 21	Open/Cased/Production Hole Logs	8,440
2 22	Coring	
2 23	Geologic Supervision	
2 24	Engineering Supervision	
2 25	Consultant Supervision	66,000
2 26	Freight/Transportation	2,000
2 27	Labor	11,720
2 28	Supplies - Surface	2,000
2 29	Supplies - Living Quarters	2,000
2 30	Rentals - Surface	16,560
2 31	Rentals - Living Quarters	12,320
2 32	Rentals - Downhole	0
2 33	Rentals - Pipe & Handling Tools	0
2 34	Rentals - Frac Stack	81,894
2 35	Rentals - Frac Tanks	28,730
2 36	Coil Tubing Unit/Workover Rig	68,190
2 37	Wireline/Slickline/Perforating	217,728
2 38	Temporary Packers/Plugs	43,407
2 39	High Pressure Pump Truck	46,640
2 40	Stimulation	1,398,648
2 41	Rentals - Pressure Control	
2 42	Flowback Services	41,231
2 43	Water Transfer Services	63,000
2 44	Flowback Water Trucking & Disposal	10,649
2 45	Permanent Equipment Installation	
2 46	Pipeline Tapping Services	
2 47	Plugging & Abandonment	
2 53	Overhead	13,715
2 54	Insurance	
2 55	Contingency	108,218

TOTAL INTANGIBLE COMPLETION COSTS: **\$2,856,864**

INTANGIBLE PRODUCTION COSTS		
COST CODES	DESCRIPTION	AMOUNT
3 1	Land - Legal	
3 2	Land - Regulatory	
3 3	Land - Surface Damages	
3 4	Land - Survey	
3 5	Location/Pit Construction	5,000
3 6	Remedial Dirtwork	
3 7	Reserve/Frac Pit Closing	
3 8	Drilling - Contractor	
3 9	Mob/Rig Up - Contractor/Trucking	
3 10	Cementing Services	
3 11	Cementing Equipment	
3 12	Bits/Drill Out Assemblies	
3 13	Fluid Circulation Equipment/Services	
3 14	Fluids/Chemicals	
3 15	WBM Cuttings/Wastewater Disposal	
3 16	OBM Cuttings/Chemical Disposal	
3 17	Fuel/Power	
3 18	Water	
3 19	Directional Drilling	
3 20	Mud Logging	
3 21	Open/Cased/Production Hole Logs	
3 22	Coring	
3 23	Geologic Supervision	
3 24	Engineering Supervision	
3 25	Consultant Supervision	22,500
3 26	Freight/Transportation	10,000
3 27	Labor	85,000
3 28	Supplies - Surface	
3 29	Supplies - Living Quarters	
3 30	Rentals - Surface	
3 31	Rentals - Living Quarters	
3 32	Rentals - Downhole	
3 33	Rentals - Pipe & Handling Tools	
3 34	Rentals - Frac Stack	
3 35	Rentals - Frac Tanks	
3 36	Coil Tubing Unit/Workover Rig	83,400
3 37	Wireline/Slickline/Perforating	
3 38	Temporary Packers/Plugs	
3 39	High Pressure Pump Truck	
3 40	Stimulation	
3 41	Rentals - Pressure Control	
3 42	Flowback Services	52,500
3 43	Water Transfer Services	
3 44	Flowback Water Trucking & Disposal	30,002
3 45	Permanent Equipment Installation	
3 46	Pipeline Tapping Services	
3 47	Plugging & Abandonment	
3 53	Overhead	5,500
3 54	Insurance	
3 55	Contingency	21,140

TOTAL INTANGIBLE PRODUCTION COSTS: **\$315,042**

TANGIBLE DRILLING COSTS		
COST CODES	DESCRIPTION	AMOUNT
4 60	Conductor Casing	0
4 61	Surface Casing	42,599
4 62	1st Intermediate Casing	153,263
4 63	2nd Intermediate Casing	346,038
4 64	Production Casing	380,731
4 65	Tubing	0
4 66	Wellhead	0
4 67	Permanent Packers/Hangers/Plugs	0
4 68	Tanks	0
4 69	Production Vessels	0
4 70	Compressors	0
4 71	Surface Flowlines	0
4 72	Gathering Lines	0
4 73	Valves & Controllers	0
4 74	Artificial Lift Equipment	0
4 75	Instrumentation & Measurement	0
4 76	Electrical Grounding/Safety Equipment	0
4 77	Permanent Equipment Installation	0
4 80	Other - Surface	0
4 81	Other - Downhole	0

TOTAL TANGIBLE DRILLING COSTS: **\$922,630**

TOTAL DRILLING COSTS: **\$2,886,250**

TANGIBLE COMPLETION COSTS		
COST CODES	DESCRIPTION	AMOUNT
5 60	Conductor Casing	0
5 61	Surface Casing	0
5 62	1st Intermediate Casing	0
5 63	2nd Intermediate Casing	0
5 64	Production Casing	0
5 65	Tubing	0
5 66	Wellhead	0
5 67	Permanent Packers/Hangers/Plugs	0
5 68	Tanks	0
5 69	Production Vessels	0
5 70	Compressors	0
5 71	Surface Flowlines	0
5 72	Gathering Lines	0
5 73	Valves & Controllers	0
5 74	Artificial Lift Equipment	0
5 75	Instrumentation & Measurement	0
5 76	Electrical Grounding/Safety Equipment	0
5 77	Permanent Equipment Installation	0
5 80	Other - Surface	0
5 81	Other - Downhole	0

TOTAL TANGIBLE COMPLETION COSTS: **\$0**

TOTAL COMPLETION COSTS: **\$2,856,864**

TANGIBLE PRODUCTION COSTS		
COST CODES	DESCRIPTION	AMOUNT
6 60	Conductor Casing	0
6 61	Surface Casing	0
6 62	1st Intermediate Casing	0
6 63	2nd Intermediate Casing	0
6 64	Production Casing	0
6 65	Tubing	50,000
6 66	Wellhead	43,500
6 67	Permanent Packers/Hangers/Plugs	10,000
6 68	Tanks	0
6 69	Production Vessels	107,000
6 70	Compressors	0
6 71	Surface Flowlines	50,000
6 72	Gathering Lines	10,000
6 73	Valves & Controllers	0
6 74	Artificial Lift Equipment	15,000
6 75	Instrumentation & Measurement	0
6 76	Electrical Grounding/Safety Equipment	0
6 77	Permanent Equipment Installation	0
6 80	Other - Surface	0
6 81	Other - Downhole	0

TOTAL TANGIBLE PRODUCTION COSTS: **\$285,500**

TOTAL PRODUCTION COSTS: **\$600,542**

TOTAL WELL COST: **\$6,343,656**

TAP ROCK RESOURCES COMPANY APPROVAL:

CEO _____ VP - EXPLORATION _____

CFO _____ VP - OPERATIONS _____

VP - LAND & LEGAL _____ SENIOR GEOLOGIST _____

NON OPERATING PARTNER APPROVAL:

COMPANY NAME: _____

SIGNED BY: _____ TITLE: _____

WORKING INTEREST (%): _____ DATE: _____

TAX ID: _____ APPROVAL: _____

AFE is an estimate only. By signing this AFE, you agree to pay your proportionate share of

TAP ROCK OPERATING, LLC
602 Park Point Dr, Golden, Colorado 80401
Authorization For Expenditure

Name: **Mulva Fed Com #217H**
AFE #: **0**
County: **Lea**
State: **NM**

Date: **September 11, 2020**
MD/TVD: **20460 / 12400**
Lateral Length: **7610**
Geologic Target: **Wolfcamp A**

Well Description: **Drill, complete, and equip a horizontal Wolfcamp A well with a 7610 foot lateral.**

INTANGIBLE DRILLING COSTS		
COST CODES	DESCRIPTION	AMOUNT
1 1	Land - Legal	10,000
1 2	Land - Regulatory	5,000
1 3	Land - Surface Damages	20,000
1 4	Land - Survey	10,000
1 5	Location/Pit Construction	140,000
1 6	Remedial Dirtwork	0
1 7	Reserve/Frac Pit Closing	0
1 8	Drilling - Contractor	617,831
1 9	Mob/Rig Up - Contractor/Trucking	123,250
1 10	Cementing Services	0
1 11	Cementing Equipment	0
1 12	Bits/Drill Out Assemblies	0
1 13	Fluid Circulation Equipment/Services	72,293
1 14	Fluids/Chemicals	251,130
1 15	WBM Cuttings/Wastewater Disposal	205,470
1 16	OBM Cuttings/Chemical Disposal	76,100
1 17	Fuel/Power	109,062
1 18	Water	0
1 19	Directional Drilling	176,530
1 20	Mud Logging	15,356
1 21	Open/Cased/Production Hole Logs	0
1 22	Coring	0
1 23	Geologic Supervision	0
1 24	Engineering Supervision	0
1 25	Consultant Supervision	98,156
1 26	Freight/Transportation	20,000
1 27	Labor	0
1 28	Supplies - Surface	2,500
1 29	Supplies - Living Quarters	1,000
1 30	Rentals - Surface	45,393
1 31	Rentals - Living Quarters	25,084
1 32	Rentals - Downhole	0
1 33	Rentals - Pipe & Handling Tools	0
1 34	Rentals - Frac Stack	0
1 35	Rentals - Frac Tanks	0
1 36	Coil Tubing Unit/Workover Rig	0
1 37	Wireline/Slickline/Perforating	0
1 38	Temporary Packers/Plugs	0
1 39	High Pressure Pump Truck	0
1 40	Stimulation	0
1 41	Rentals - Pressure Control	0
1 42	Flowback Services	0
1 43	Water Transfer Services	0
1 44	Flowback Water Trucking & Disposal	0
1 45	Permanent Equipment Installation	0
1 46	Pipeline Tapping Services	0
1 47	Plugging & Abandonment	0
1 53	Overhead	8,406
1 54	Insurance	36,828
1 55	Contingency	93,470
TOTAL INTANGIBLE DRILLING COSTS:		\$1,962,860

INTANGIBLE COMPLETION COSTS		
COST CODES	DESCRIPTION	AMOUNT
2 1	Land - Legal	
2 2	Land - Regulatory	
2 3	Land - Surface Damages	
2 4	Land - Survey	
2 5	Location/Pit Construction	
2 6	Remedial Dirtwork	
2 7	Reserve/Frac Pit Closing	
2 8	Drilling - Contractor	
2 9	Mob/Rig Up - Contractor/Trucking	
2 10	Cementing Services	
2 11	Cementing Equipment	
2 12	Bits/Drill Out Assemblies	35,440
2 13	Fluid Circulation Equipment/Services	
2 14	Fluids/Chemicals	25,913
2 15	WBM Cuttings/Wastewater Disposal	
2 16	OBM Cuttings/Chemical Disposal	
2 17	Fuel/Power	225,600
2 18	Water	393,744
2 19	Directional Drilling	
2 20	Mud Logging	
2 21	Open/Cased/Production Hole Logs	8,440
2 22	Coring	
2 23	Geologic Supervision	
2 24	Engineering Supervision	
2 25	Consultant Supervision	66,000
2 26	Freight/Transportation	2,000
2 27	Labor	11,720
2 28	Supplies - Surface	2,000
2 29	Supplies - Living Quarters	2,000
2 30	Rentals - Surface	16,560
2 31	Rentals - Living Quarters	12,320
2 32	Rentals - Downhole	0
2 33	Rentals - Pipe & Handling Tools	0
2 34	Rentals - Frac Stack	81,994
2 35	Rentals - Frac Tanks	78,730
2 36	Coil Tubing Unit/Workover Rig	68,190
2 37	Wireline/Slickline/Perforating	205,898
2 38	Temporary Packers/Plugs	31,200
2 39	High Pressure Pump Truck	46,640
2 40	Stimulation	1,960,377
2 41	Rentals - Pressure Control	
2 42	Flowback Services	41,231
2 43	Water Transfer Services	63,600
2 44	Flowback Water Trucking & Disposal	10,649
2 45	Permanent Equipment Installation	
2 46	Pipeline Tapping Services	
2 47	Plugging & Abandonment	
2 53	Overhead	13,733
2 54	Insurance	
2 55	Contingency	103,693
TOTAL INTANGIBLE COMPLETION COSTS:		\$2,856,864

INTANGIBLE PRODUCTION COSTS		
COST CODES	DESCRIPTION	AMOUNT
3 1	Land - Legal	
3 2	Land - Regulatory	
3 3	Land - Surface Damages	
3 4	Land - Survey	
3 5	Location/Pit Construction	5,000
3 6	Remedial Dirtwork	
3 7	Reserve/Frac Pit Closing	
3 8	Drilling - Contractor	
3 9	Mob/Big Up - Contractor/Trucking	
3 10	Cementing Services	
3 11	Cementing Equipment	
3 12	Bits/Drill Out Assemblies	
3 13	Fluid Circulation Equipment/Services	
3 14	Fluids/Chemicals	
3 15	WBM Cuttings/Wastewater Disposal	
3 16	OBM Cuttings/Chemical Disposal	
3 17	Fuel/Power	
3 18	Water	
3 19	Directional Drilling	
3 20	Mud Logging	
3 21	Open/Cased/Production Hole Logs	
3 22	Coring	
3 23	Geologic Supervision	
3 24	Engineering Supervision	
3 25	Consultant Supervision	22,500
3 26	Freight/Transportation	10,000
3 27	Labor	85,000
3 28	Supplies - Surface	
3 29	Supplies - Living Quarters	
3 30	Rentals - Surface	
3 31	Rentals - Living Quarters	
3 32	Rentals - Downhole	
3 33	Rentals - Pipe & Handling Tools	
3 34	Rentals - Frac Stack	
3 35	Rentals - Frac Tanks	
3 36	Coil Tubing Unit/Workover Rig	83,400
3 37	Wireline/Slickline/Perforating	
3 38	Temporary Packers/Plugs	
3 39	High Pressure Pump Truck	
3 40	Stimulation	
3 41	Rentals - Pressure Control	
3 42	Flowback Services	52,500
3 43	Water Transfer Services	
3 44	Flowback Water Trucking & Disposal	30,002
3 45	Permanent Equipment Installation	
3 46	Pipeline Tapping Services	
3 47	Plugging & Abandonment	
3 53	Overhead	5,500
3 54	Insurance	
3 55	Contingency	21,140
TOTAL INTANGIBLE PRODUCTION COSTS:		\$315,042

TANGIBLE DRILLING COSTS		
COST CODES	DESCRIPTION	AMOUNT
4 60	Conductor Casing	0
4 61	Surface Casing	42,590
4 62	1st Intermediate Casing	153,263
4 63	2nd Intermediate Casing	346,517
4 64	Production Casing	381,012
4 65	Tubing	0
4 66	Wellhead	0
4 67	Permanent Packers/Hangers/Plugs	0
4 68	Tanks	0
4 69	Production Vessels	0
4 70	Compressors	0
4 71	Surface Flowlines	0
4 72	Gathering Lines	0
4 73	Valves & Controllers	0
4 74	Artificial Lift Equipment	0
4 75	Instrumentation & Measurement	0
4 76	Electrical Grounding/Safety Equipment	0
4 77	Permanent Equipment Installation	0
4 80	Other - Surface	0
4 81	Other - Downhole	0
TOTAL TANGIBLE DRILLING COSTS:		\$923,391

TANGIBLE COMPLETION COSTS		
COST CODES	DESCRIPTION	AMOUNT
5 60	Conductor Casing	
5 61	Surface Casing	
5 62	1st Intermediate Casing	
5 63	2nd Intermediate Casing	
5 64	Production Casing	0
5 65	Tubing	0
5 66	Wellhead	0
5 67	Permanent Packers/Hangers/Plugs	
5 68	Tanks	
5 69	Production Vessels	
5 70	Compressors	
5 71	Surface Flowlines	
5 72	Gathering Lines	
5 73	Valves & Controllers	
5 74	Artificial Lift Equipment	
5 75	Instrumentation & Measurement	
5 76	Electrical Grounding/Safety Equipment	
5 77	Permanent Equipment Installation	
5 80	Other - Surface	
5 81	Other - Downhole	
TOTAL TANGIBLE COMPLETION COSTS:		\$0

TANGIBLE PRODUCTION COSTS		
COST CODES	DESCRIPTION	AMOUNT
6 60	Conductor Casing	
6 61	Surface Casing	
6 62	1st Intermediate Casing	
6 63	2nd Intermediate Casing	
6 64	Production Casing	
6 65	Tubing	50,000
6 66	Wellhead	43,500
6 67	Permanent Packers/Hangers/Plugs	10,000
6 68	Tanks	
6 69	Production Vessels	107,000
6 70	Compressors	
6 71	Surface Flowlines	50,000
6 72	Gathering Lines	10,000
6 73	Valves & Controllers	
6 74	Artificial Lift Equipment	15,000
6 75	Instrumentation & Measurement	
6 76	Electrical Grounding/Safety Equipment	
6 77	Permanent Equipment Installation	
6 80	Other - Surface	
6 81	Other - Downhole	
TOTAL TANGIBLE PRODUCTION COSTS:		\$285,500

TOTAL DRILLING COSTS: \$2,886,250 **TOTAL COMPLETION COSTS: \$2,856,864** **TOTAL PRODUCTION COSTS: \$600,542**
TOTAL WELL COST: \$6,343,656

TAP ROCK RESOURCES COMPANY APPROVAL:

CEO _____ VP - EXPLORATION _____

CFO _____ VP - OPERATIONS _____

VP - LAND & LEGAL _____ SENIOR GEOLOGIST _____

NON OPERATING PARTNER APPROVAL:

COMPANY NAME: _____

SIGNED BY: _____ TITLE: _____

WORKING INTEREST (%): _____ DATE: _____

TAX ID: _____ APPROVAL: _____

AFE is an estimate only. By signing this AFE, you agree to pay your proportionate share of the actual costs.

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

**APPLICATION OF TAP ROCK OPERATING, LLC
FOR A STANDARD HORIZONTAL SPACING
AND PRORATION UNIT AND COMPULSORY POOLING,
LEA COUNTY, NEW MEXICO**

**Case Nos. 21951, 21949,
21950, and 21940**

AFFIDAVIT OF EMILY LANGE

I, being duly sworn on oath, state the following:

1. I am over the age of 18, and I have personal knowledge of the matters stated herein.
2. I am employed as a petroleum geologist for Tap Rock Operating, LLC (“Tap Rock”), and I am familiar with the subject applications and the geology involved.
3. This affidavit is submitted in connection with the filing by Tap Rock of the above-referenced compulsory pooling applications pursuant to 19.15.4.12.A(1) NMAC.
4. I have previously testified before the New Mexico Oil Conservation Division as an expert witness in petroleum geology matters. My credentials as a petroleum geologist have been accepted by the Division and made a matter of record.
5. **Exhibit 7** is a Project Locator Map depicting the location of the Horizontal Spacing Units (“HSUs”) within the Delaware Basin. Within the W/2W/2 of Section 34, Township 24 South, Range 35 East, and W/2NW/4 of Section 3, Township 25 South, Range 35 East, are the Mulva Fed Com #111H, #131H, #211H, and #215H. Within the E/2W/2 of Section 34, Township 24 South, Range 35 East, and E/2NW/4 of Section 3, Township 25 South, Range 35 East, are the Mulva Fed Com #112H, #132H, #212H, and #217H. The Mulva Fed Com #111H and #112H are

collectively referred to herein as the “Bone Spring Wells”. The Mulva Fed Com ##131H, #132H, #211H, #215H, #212H, and #217H are collectively referred to herein as the “Wolfcamp Wells”.

6. **Exhibit 8(a)** is a Gun Barrel Diagram showing the drilled Bone Spring horizontal spacing for the Bone Spring Wells. This diagram shows the development of the Bone Spring Wells spaced 1,320’ away from the nearest well in the same zone. A nearby type log has been included (for log descriptions, see Exhibit 10 below) to show approximate depths and reservoir quality of the selected landing zones.

7. **Exhibit 8(b)** is a Gun Barrel Diagram showing the drilled Wolfbone horizontal spacing for the Wolfcamp Wells. This diagram shows the development of the Wolfbone wells, with the Mulva Fed Com #211H, #212H, #215H and #217H spaced 660’ away from the nearest well in the same zone, and the Mulva Fed Com #131H and #132H spaced 1,320’ away from the nearest well in the same zone. A nearby type log has been included (for log descriptions, see Exhibit 10 below) to show approximate depths and reservoir quality of the selected landing zones.

8. **Exhibit 9(a)** is a Bone Spring Structure Map. This map shows the location of the HSUs outlined by the red boxes. The map is the top of the Bone Spring formation in sub-sea vertical depth. The contour intervals are 25 feet each. There is a monoclinial dip down to the southwest. The orientation of the Bone Spring Wells are approximately along strike. Wells indicated with a light blue circle have targeted a similar interval. All vertical wells that penetrate the Bone Spring horizon, and are controlling the map, are indicated with a small purple circle. The vertical wells controlling the structure map have the sub-sea vertical depth posted in red. The subsequent cross-section from A-A’ is also identified to locate our closest control on the reservoir properties for the Bone Spring Wells. I do not observe any faulting, pinch-outs, or other geologic impediments or hazards to developing this targeted interval with a horizontal well.

9. **Exhibit 9(b)** is a Wolfcamp Structure Map. This map shows the location of the HSUs outlined by the red boxes. The map is the top of the Wolfcamp formation in sub-sea vertical depth. The contour intervals are 25 feet each. There is a monoclinical dip down to the southwest. The orientation of the Wells is approximately along strike. Wells indicated with a green circle have targeted the Wolfcamp A Upper, and wells with a light blue circle have targeted the Wolfcamp A Lower. All vertical wells that penetrate the Wolfcamp horizon, and are controlling the map, are indicated with a small purple circle. The vertical wells controlling the structure map have the sub-sea vertical depth posted in red. The subsequent cross-section from A-A' is also identified to locate our closest control on the reservoir properties for the Wolfcamp Wells. I do not observe any faulting, pinch-outs, or other geologic impediments or hazards to developing this targeted interval with a horizontal well.

10. **Exhibit 10(a)** is a Bone Spring Stratigraphic Cross Section (flattened on the First Bone Spring surface). All wells have a triple combo log display. Track 1 has a gamma ray log with interpreted color fill for lithology and scaled from -50 to 150 api units. For gamma ray, the blue colors indicate carbonate, yellow to orange are sandstone/siltstones, and the darker browns are shale facies. Track 2 has the deep resistivity log, scaled from 0.2 ohmm to 2000 ohmm. The pink shading cutoff is at 10 ohmm or greater to help separate out high versus low water bearing rock. Track 3 is the porosity track and contains the blue neutron porosity curve and the red density porosity curve, both scaled from 0.25 to 0. The gray shading is where neutron is higher than density, indicating increased clay content. The purple shading on the density porosity curve highlights anything greater than 8% porosity. This cutoff indicates the best rock properties for reservoir evaluation. The cross-section identifies the key tops used to evaluate reservoirs and landing targets for the Bone Spring Wells. The peach circle on the depth track of Well 2 shows the

landing target interval for the Bone Spring Wells within in the green shaded box. The targeted reservoir has a thickness of approximately 3,100'.

11. **Exhibit 10(b)** is a Wolfcamp Structural Cross Section. All wells have a triple combo log display. Track 1 has a gamma ray log with interpreted color fill for lithology and scaled from -50 to 150 api units. For gamma ray, the blue colors indicate carbonate, yellow to orange are sandstone/siltstones, and the darker browns are shale facies. Track 2 has the deep resistivity log, scaled from 0.2 ohmm to 2000 ohmm. The pink shading cutoff is at 10 ohmm or greater to help separate out high versus low water bearing rock. Track 3 is the porosity track and contains the blue neutron porosity curve and the red density porosity curve, both scaled from 0.25 to 0. The gray shading is where neutron is higher than density, indicating increased clay content. The purple shading on the density porosity curve highlights anything greater than 8% porosity. This cutoff indicates the best rock properties for reservoir evaluation. The cross-section identifies the key tops used to evaluate reservoirs and landing targets for the Wolfcamp Wells. The peach circles on the depth track of Well 2 show the landing target intervals for the Wolfcamp Wells. The targeted reservoir has a total thickness of approximately 1,250'.

12. **Exhibit 11(a)** is an Isopach Map of the Gross Bone Spring interval. This map shows the location of the HSUs outlined by the red boxes. The anticipated gross thickness of the interval is ~3,100 feet throughout the HSUs. The contour intervals are 25 feet. Wells indicated with a light blue circle have targeted a similar interval. All wells that penetrate the entire Bone Spring interval, and are controlling the map, are indicated with a small purple circle. The vertical wells controlling the isopach map have the thicknesses posted in red. The location of the previous cross-section from A-A' is also shown on this map.

13. **Exhibit 11(b)** is an Isopach Map of the Gross Wolfcamp interval. This map shows the location of the HSUs outlined by the red boxes. The anticipated gross thickness of the interval is ~1,250 feet throughout the HSUs. The contour intervals are 25 feet. Wells indicated with a green circle have targeted the Wolfcamp A Upper, and wells with a light blue circle have targeted the Wolfcamp A Lower. All wells that penetrate the top of the Wolfcamp are indicated with a small purple circle. The vertical wells controlling the isopach map, and have penetrated through the entire Wolfcamp interval, have the thicknesses posted in red. The location of the previous cross-section from A-A' is also shown on this map.

14. Based on my geologic study of the area, I conclude the following:

- a. The horizontal spacing and proration units are justified from a geologic standpoint.
- b. There are no structural impediments or faulting that will interfere with horizontal development.
- c. Each quarter-quarter section in the unit will contribute more or less equally to production.
- d. The preferred well orientation in this area is south-north. This is because the inferred orientation of the maximum horizontal stress is roughly northwest-southeast.

15. The Exhibits to this Affidavit were prepared by me, or compiled from Tap Rock's company business records.

16. The granting of this Application is in the interests of conservation and the prevention of waste.

17. The foregoing is correct and complete to the best of my knowledge and belief.

FURTHER AFFIANT SAYETH NAUGHT

Emily Lange

EMILY LANGE

STATE OF COLORADO)
)ss
COUNTY OF JEFFERSON)

Subscribed to and sworn before me this 27 day of May, 2021.

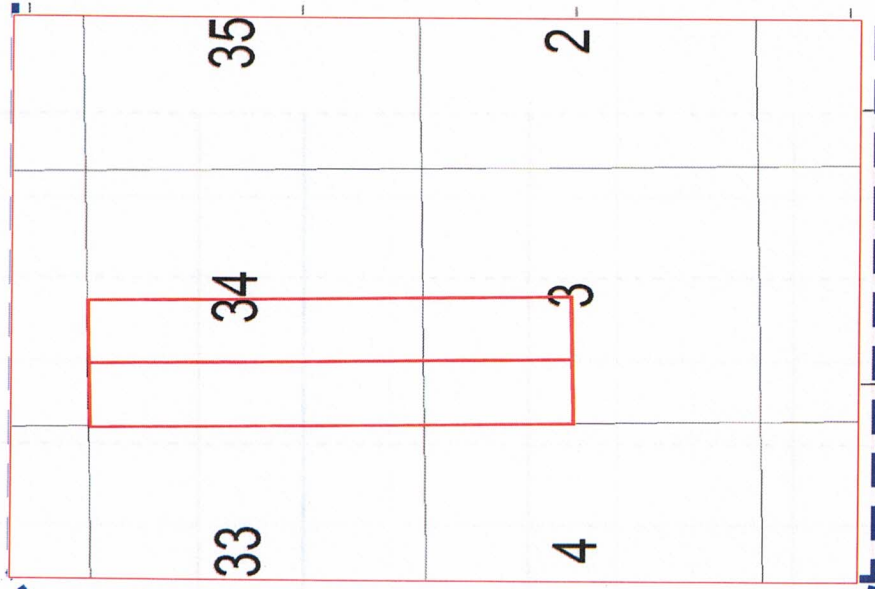
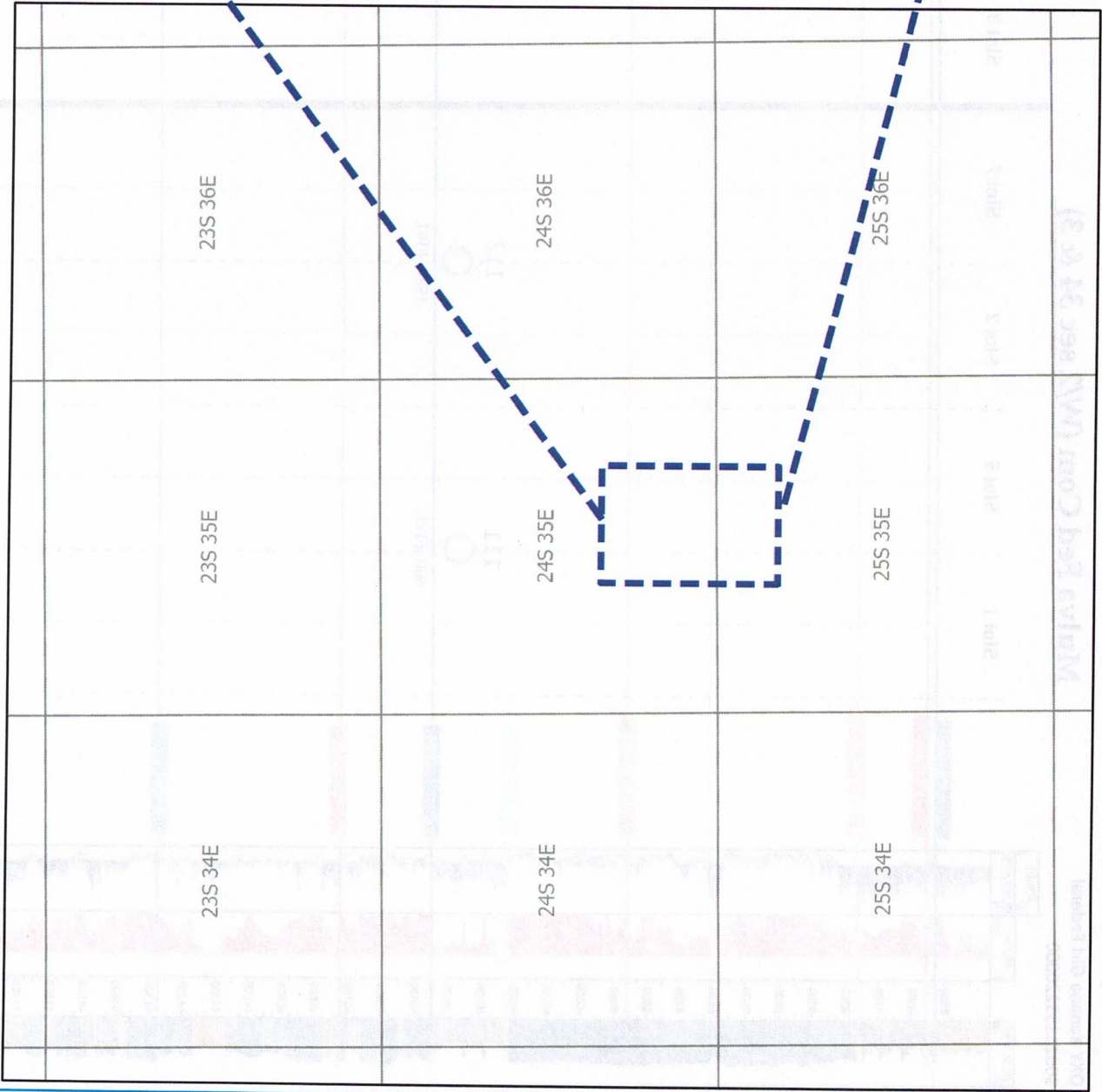
EMILY KASA
Notary Public
State of Colorado
Notary ID # 20184039277
My Commission Expires 10-04-2022

Elm

Notary Public

My Commission expires 10-4-2022.

Project Locator Map

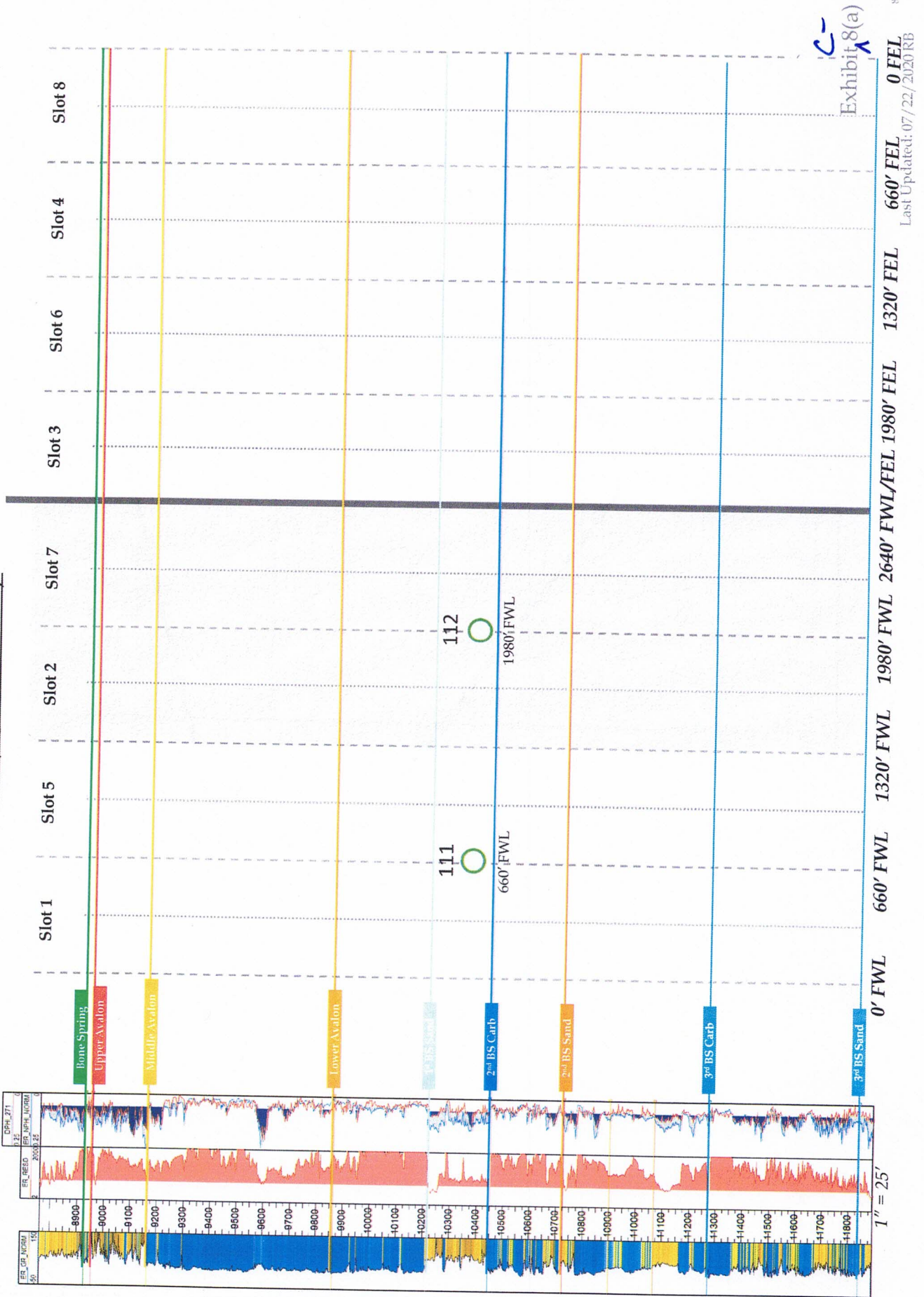




Bone Spring Target Zone Development

OXY Banana Girl Federal
3002535220000

Mulva Fed Com (W/2 sec 34 & 3)



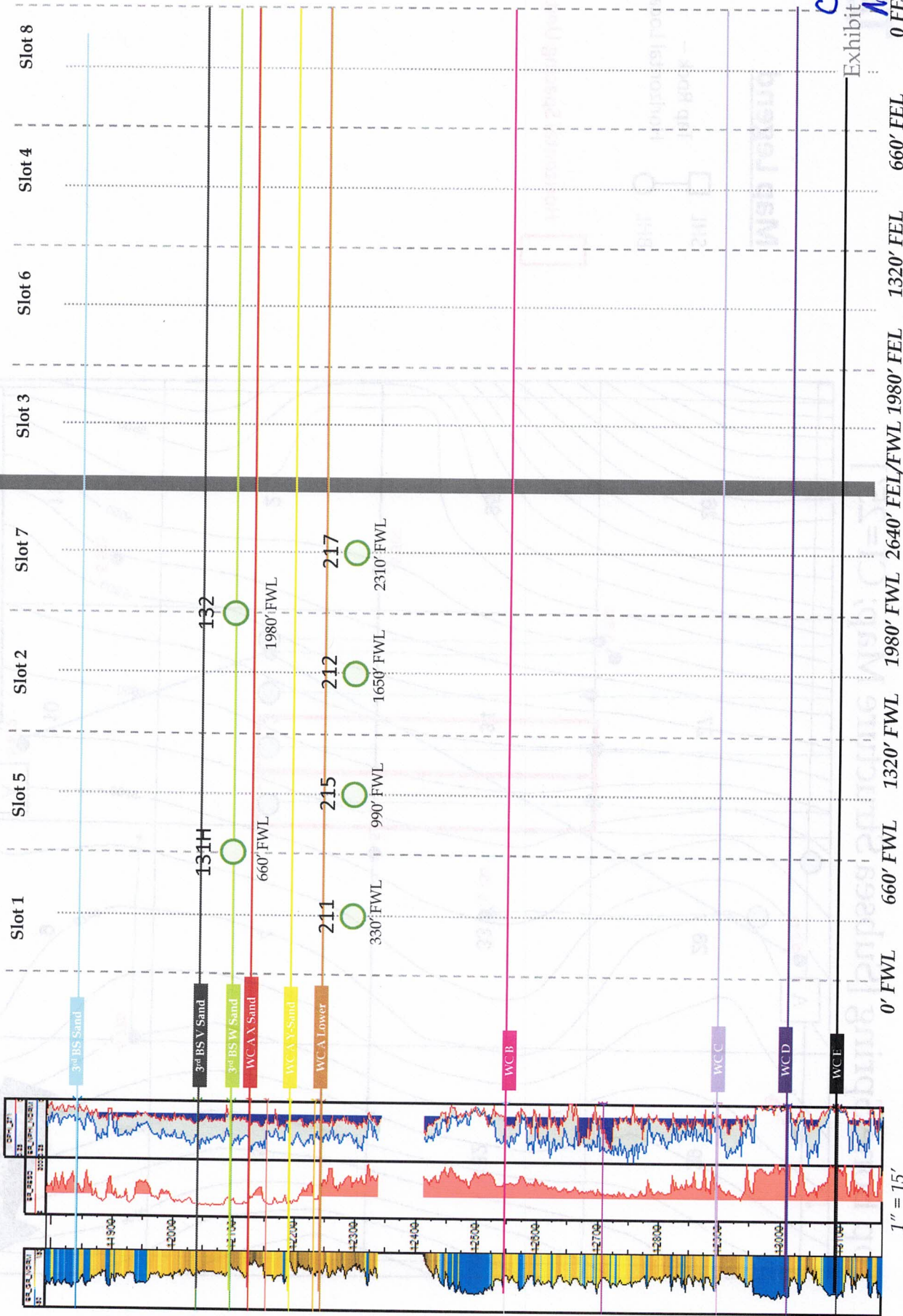
1" = 25'

Wolfcamp Target Zone Development



Mulva Fed Com (W/2 sec 34 & 3)

OXY Banana Giri Federal
30025353220000



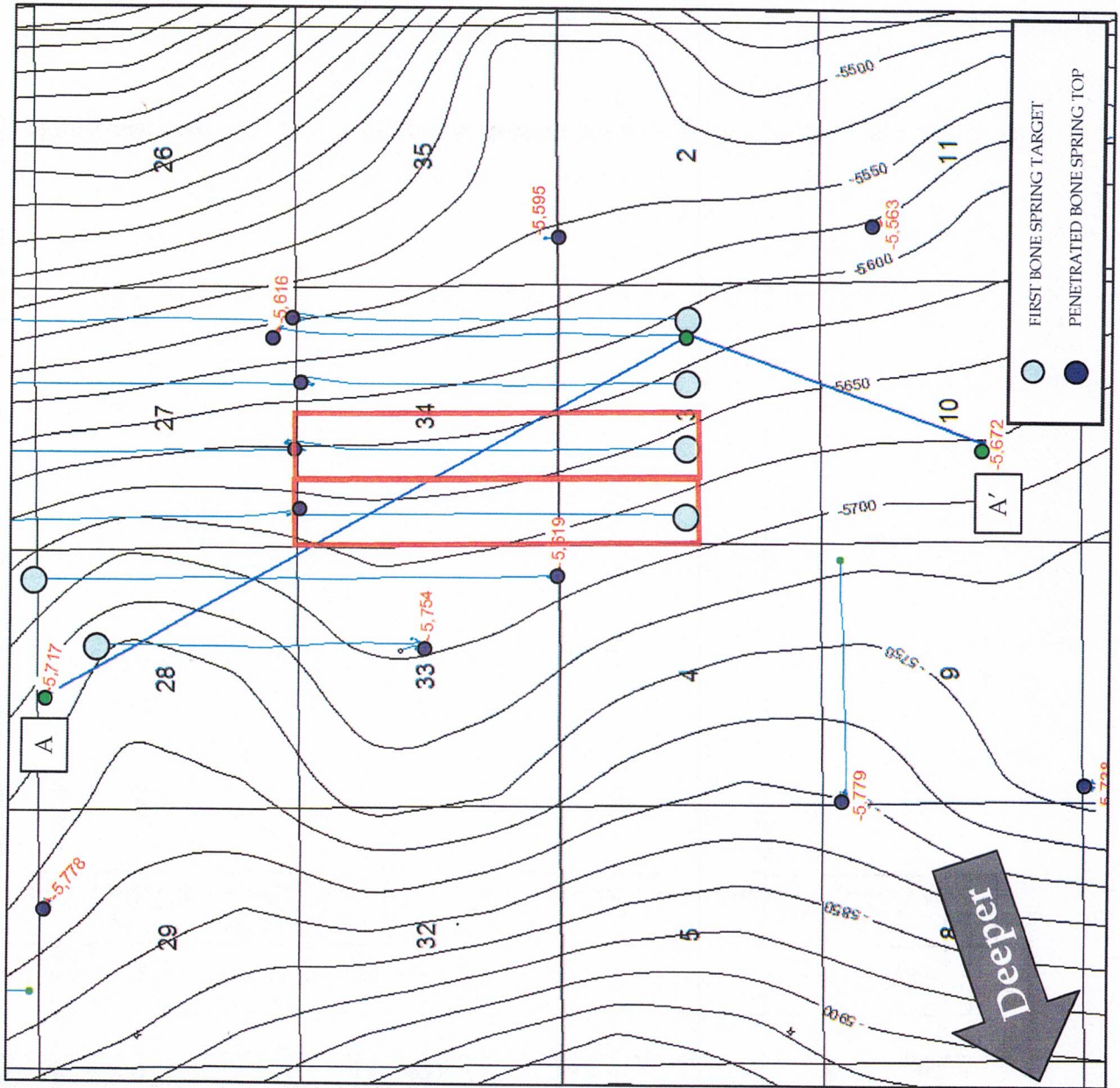
1" = 15'

Top Bone Spring [Subsea Structure Map; CI=25']



Map Legend

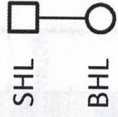
- SHL Tap Rock –
- BHL Horizontal Locator
- Horizontal Spacing Units



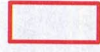
Top Wolfcamp [Subsea Structure Map; CI=25']



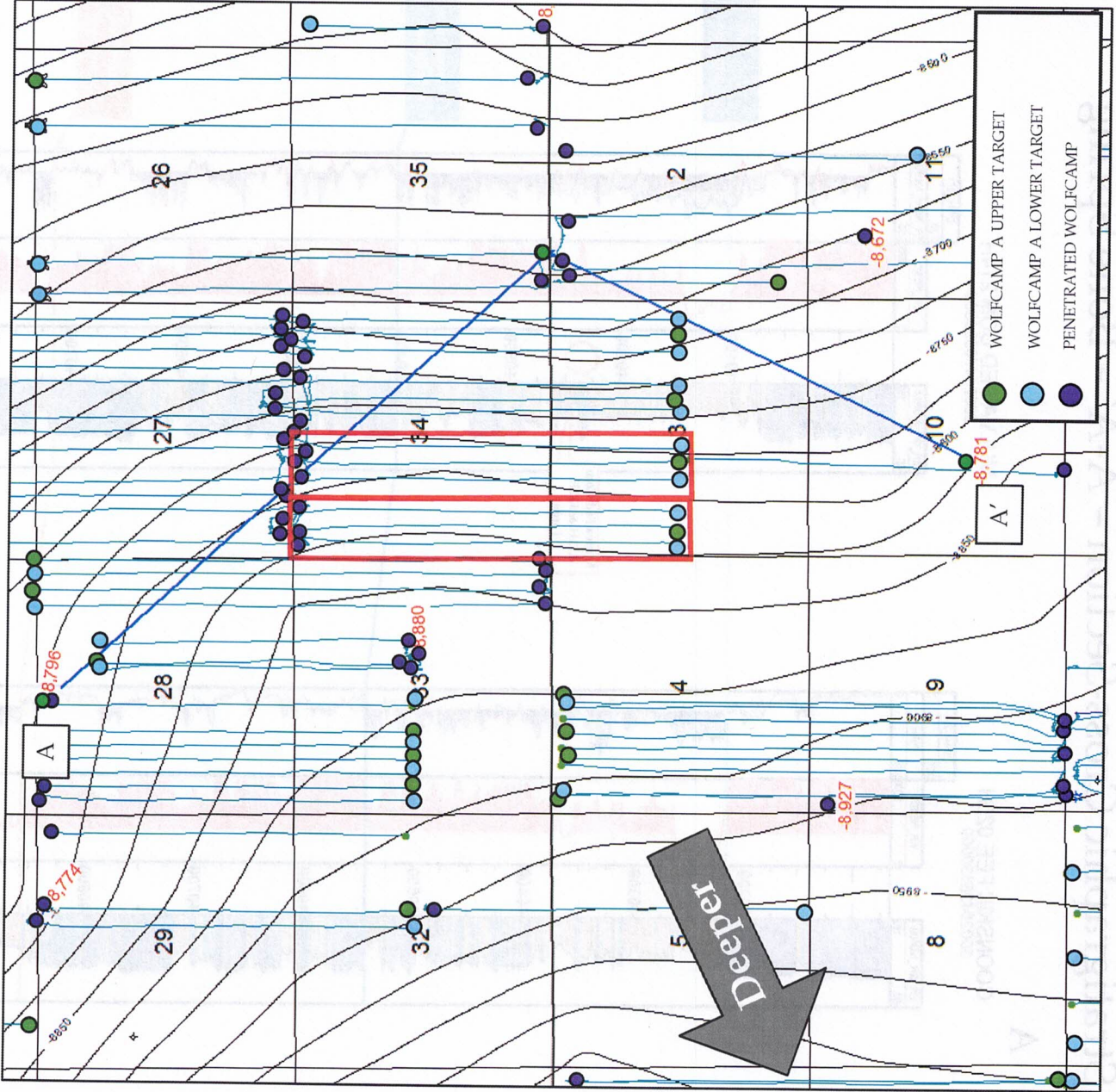
Map Legend



SHL Tap Rock -
Horizontal Locator



Horizontal Spacing Units



00A-BW-0007 GRP-LEDEENT 3

Stratigraphic Cross-Section - A-A' - Bone Spring



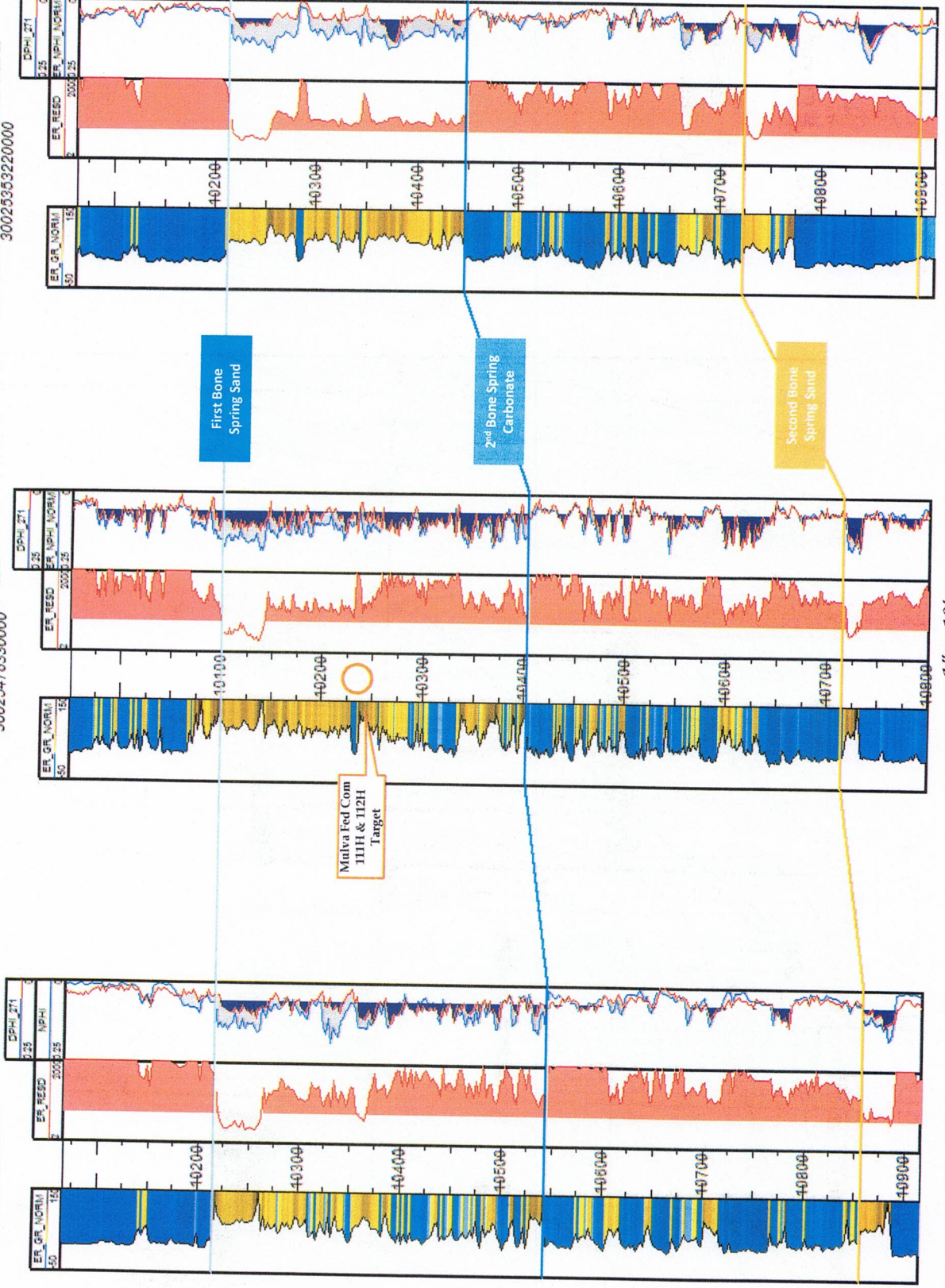
A

A'

COONSKIN FEE 025H
30025436830000

MULVA FED COM 214H
30025478330000

OXY BANANA GIRL FEDERAL 2
3002393220000



C-

Exhibit 10(a)

Stratigraphic Cross-Section - A-A' - Wolfcamp



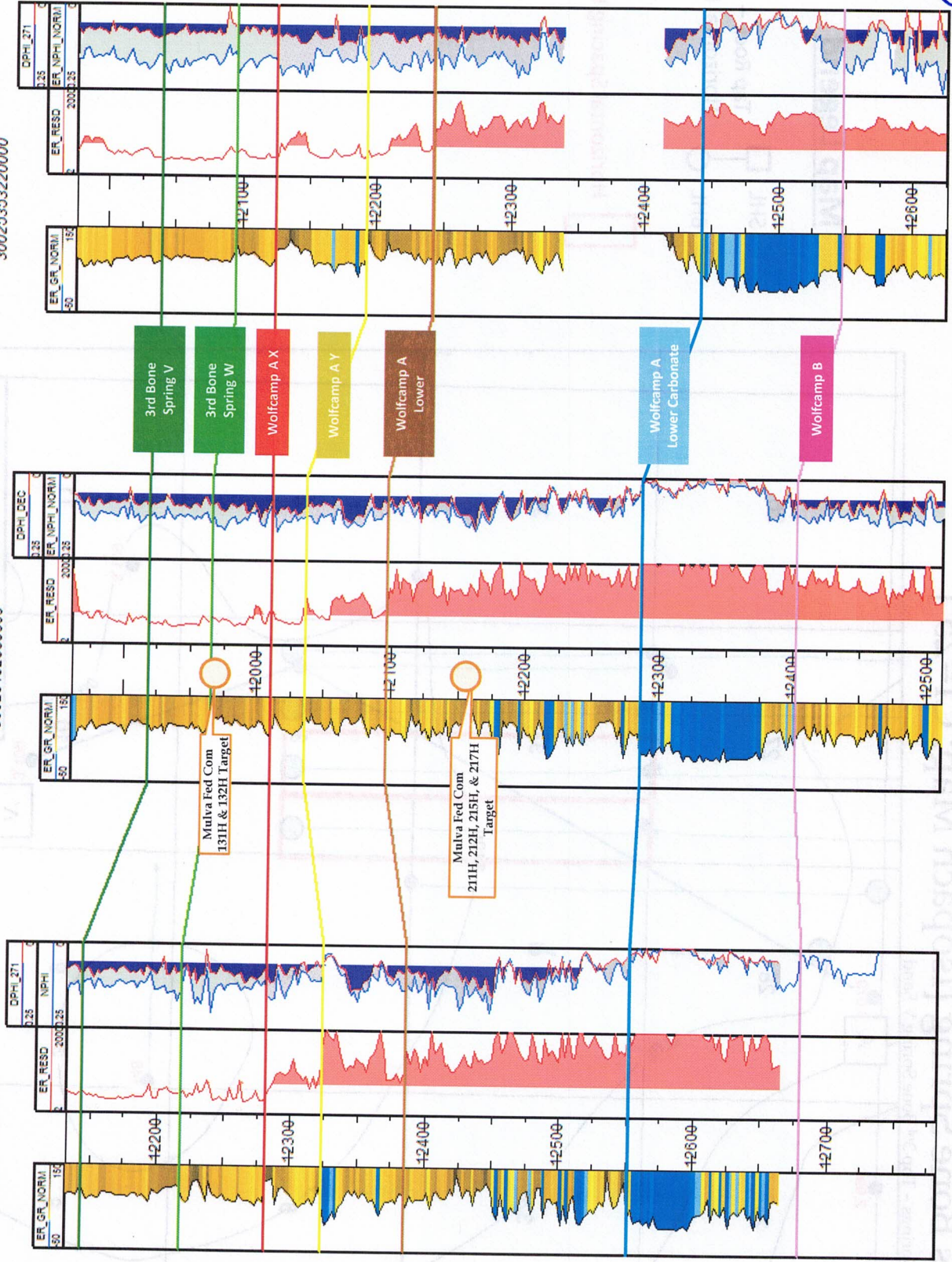
A'

A

COONSKIN FEE 025H
30025436830000

YADA FED COM 215H PILOT
30025462550000

OXY BANANA GIRL FEDERAL 2
30025353220000

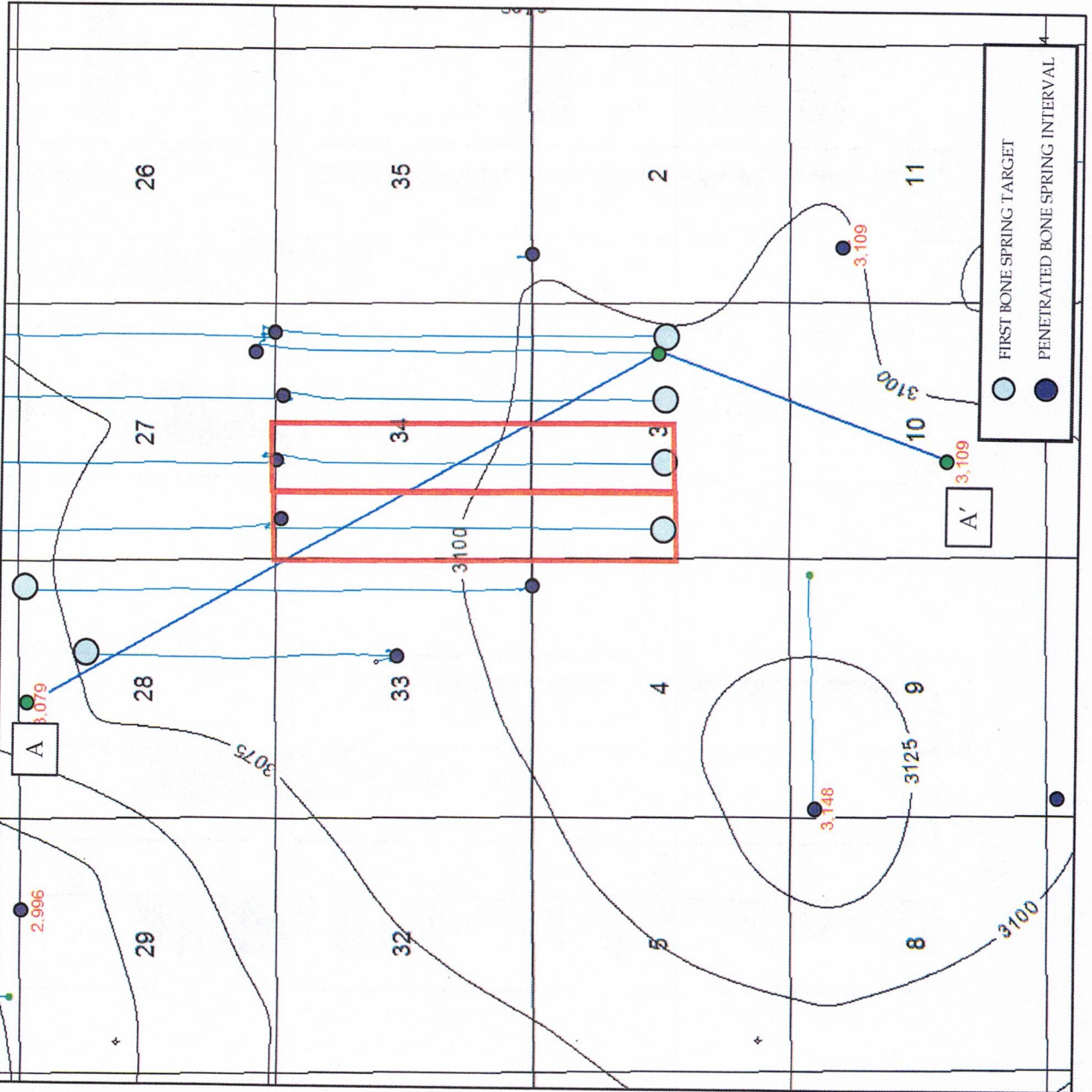


1" = 10'

Exhibit 10(b)

Gross Bone Spring [Isopach Map; CI=25']

Top Bone Springs - Top 3rd Bone Spring, V. Sand



Map Legend

SHL Tap Rock -
BHL Horizontal Locator



Horizontal Spacing Units

FIRST BONE SPRING TARGET
PENETRATED BONE SPRING INTERVAL

C-
Exhibit 11(a)

Gross Wolfcamp [Isopach Map; CI=25']

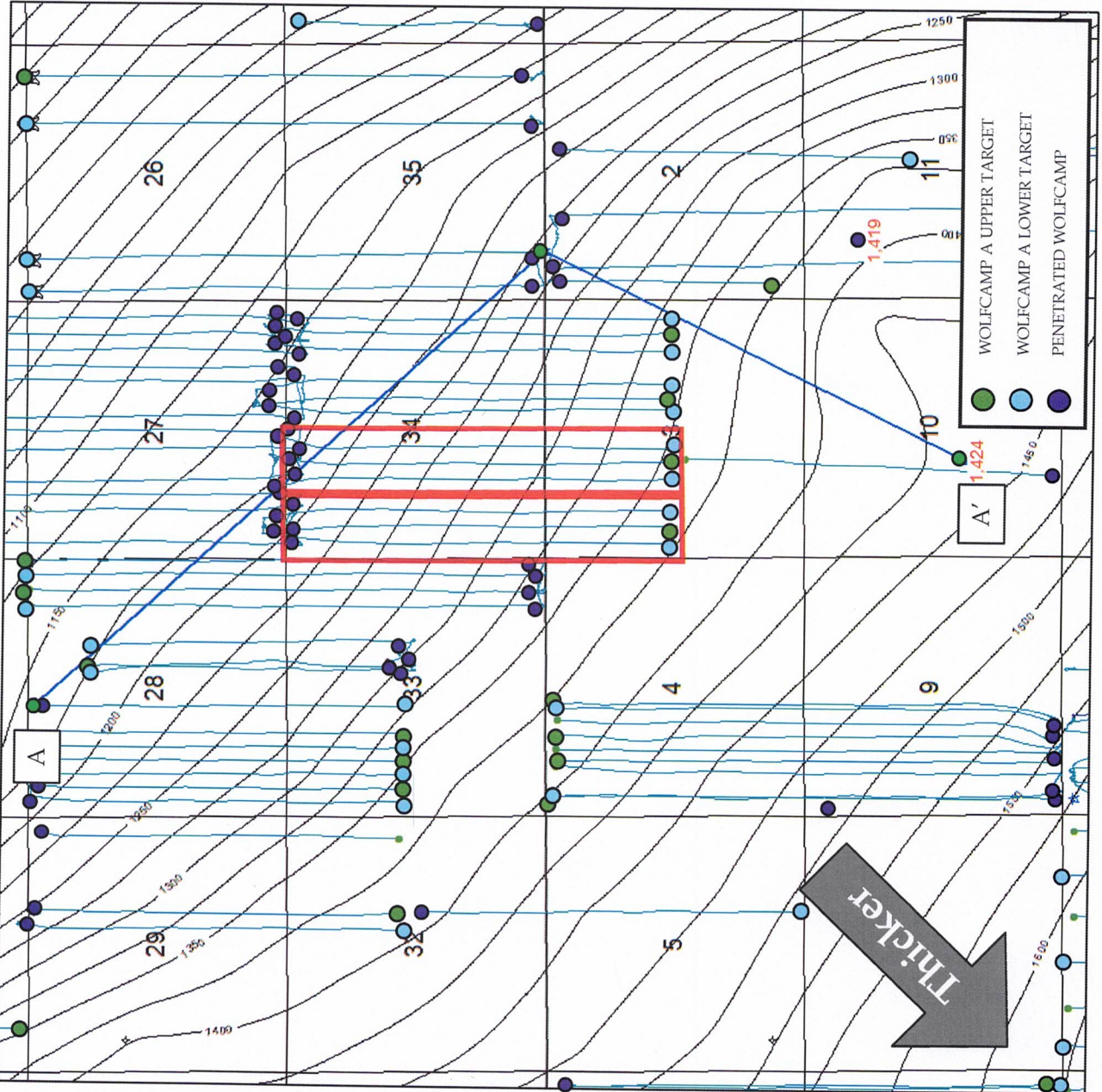
Top 3rd Bone Spring V Sand - Top Strawn



Map Legend

- SHL Tap Rock -
- BHL Horizontal Locator

Horizontal Spacing Units



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

**APPLICATIONS OF TAP ROCK RESOURCES, LLC
FOR COMPULSORY POOLING, LEA COUNTY,
NEW MEXICO.**

Case Nos. 21940 and 21949 - 21951

SELF-AFFIRMED STATEMENT OF NOTICE

COUNTY OF SANTA FE)
) ss.
STATE OF NEW MEXICO)

James Bruce deposes and states:

1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am an attorney for Tap Rock Resources, LLC.
3. Tap Rock Resources, LLC has conducted a good faith, diligent effort to find the names and correct addresses of the interest owners entitled to receive notice of the application filed herein.
4. Notice of the application was provided to the interest owner, at its last known address, by certified mail. Copies of the notice letter and certified return receipt are attached hereto as Attachment A.
5. Applicant has complied with the notice provisions of Division Rules.
6. I understand that this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony in paragraphs 1 through 5 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.

Date: 6/1/21



James Bruce

EXHIBIT **D**

JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)
(505) 660-6612 (Cell)
(505) 982-2151 (Fax)

jamesbruc@aol.com

May 13, 2021

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

New Mexico Department of Transpiration
P.O. Box 1149
Santa Fe, New Mexico 87504

Ladies and gentlemen:

Enclosed are copies of the following applications for compulsory pooling, filed with the New Mexico Oil Conservation Division by Tap Rock Resources, LLC:

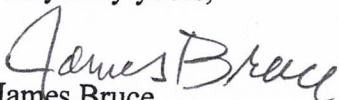
1. Case No. 21940, regarding the Wolfbone formation in the E/2W/2 of Section 34, Township 24 South, Range 35 East NMPM, and the E/2NW/4 of Section 3, Township 25 South, Range 35 East NMPM;
2. Case No. 21949, regarding the Bone Spring formation in the E/2W/2 of Section 34, Township 24 South, Range 35 East NMPM, and the E/2NW/4 of Section 3, Township 25 South, Range 35 East NMPM;
3. Case No. 21950, regarding the Wolfbone formation in the W/2W/2 of Section 34, Township 24 South, Range 35 East NMPM, and the W/2NW/4 of Section 3, Township 25 South, Range 35 East NMPM; and
4. Case No. 21951, regarding the Bone Spring formation in the W/2W/2 of Section 34, Township 24 South, Range 35 East NMPM, and the W/2NW/4 of Section 3, Township 25 South, Range 35 East NMPM

These matters are scheduled for hearing at 8:15 a.m. on Thursday, June, 2021. During the COVID-19 Public Health Emergency, state buildings are closed to the public and the hearing will be conducted remotely. To determine the location of the hearing or to participate in an electronic hearing, go to emnrd.state.nm.us/OCD/hearings or see the instructions posted on the Division's website, <http://emnrd.state.nm.us/OCD/announcements.html>.

ATTACHMENT 

You are not required to attend this hearing, but as an owner of an interest who may be affected by the applications, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from contesting these matters at a later date. A party appearing in a Division case is required by Division Rules to file a Pre-Hearing Statement no later than Thursday, May 27, 2021. This statement may be filed online with the Division at ocd.hearings@state.nm.us, and should include: The name of the party and his or her attorney; a concise statement of the case; the name(s) of the witness(es) the party will call to testify at the hearing; the approximate time the party will need to present his or her case; and identification of any procedural matters that need to be resolved prior to the hearing. The Pre-Hearing Statement must also be provided to the undersigned.

Very truly yours,


James Bruce

Attorney for Tap Rock Resources, LLC

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 Santa Fe, New Mexico 87504
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PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

New Mexico Department of Transpiration
 P.O. Box 1149
 Santa Fe, New Mexico 87504



9590 9402 5941 0062 9380 45

2 7020 0640 0000 1389 5261

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee

B. Received by (Printed Name)
 MARYN SHILOTT

C. Date of Delivery
 MAY 24, 2001

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

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Adult Signature Restricted Delivery Registered Mail™

Certified Mail® Registered Mail Restricted Delivery

Certified Mail Restricted Delivery Return Receipt for Merchandise

Certified Mail Restricted Delivery with Signature Confirmation™

Insured Mail Signature Confirmation Restricted Delivery

Insured Mail Restricted Delivery (over \$500)

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

COMPULSORY POOLING APPLICATION CHECKLIST

ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS

Case:	21940
Date	June 3, 2021
Applicant	Tap Rock Resources, LLC
Designated Operator & OGRID (affiliation if applicable)	Tap Rock Operating, LLC/OGRID No. 372043 The operator is the operating entity for applicant
Applicant's Counsel:	James Bruce
Case Title:	Application of Tap Rock Resources, LLC for Compulsory Pooling, Lea County, New Mexico
Entries of Appearance/Intervenors:	
Well Family	Mulva Wells
Formation/Pool	
Formation Name(s) or Vertical Extent:	Wolfbone formation
Primary Product (Oil or Gas):	Oil
Pooling this vertical extent:	Wolfbone formation
Pool Name and Pool Code:	WC-025 G-09 S243532M; Wolfbone/98098
Well Location Setback Rules:	Statewide rules and current horizontal well rules
Spacing Unit Size:	Quarter-quarter sections/40 acres
Spacing Unit	
Type (Horizontal/Vertical)	Horizontal
Size (Acres)	240 acres
Building Blocks:	40 acres
Orientation:	North-South
Description: TRS/County	E/2W/2 §34-24S-35E and E/2NW/4 §3-25S-35E, NMPPM, Lea County
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes
Other Situations	
Depth Severance: Y/N. If yes, description	No
Proximity Tracts: If yes, description	No
Proximity Defining Well: if yes, description	
Applicant's Ownership in Each Tract	Exhibits B-3 and B-4
Well(s)	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non- standard)	Mulva Fed. Com. Well No. 132H API No. 30-025-47743 SHL: 235 FSL & 2046 FWL §27-24S-35E BHL: 2638 FSL & 1980 FWL §3 FTP: 100 FNL & 1980 FWL §34 LTP: 2574 FNL & 1980 FWL §3 Formation: Wolfbone/TVD 12236 feet/MD 20296 feet

EXHIBIT 5

	<p>Mulva Fed. Com. Well No. 212H API No. 30-025-47787 SHL: 235 FSL & 2021 FWL §27-24S-35E BHL: 2638 FSL & 16522 FWL §3 FTP: 100 FNL & 1652 FWL §34 LTP: 2573 FNL & 1652 FWL §3 Formation: Wolfbone/TVD 12400 feet/MD 20460 feet</p> <p>Mulva Fed. Com. Well No. 217H API No. 30-025-47788 SHL: 210 FSL & 2046 FWL §27-24S-35E BHL: 2638 FSL & 2310 FWL §3 FTP: 100 FNL & 2310 FWL §34 LTP: 2574 FNL & 2310 FWL §3 Formation: Wolfbone/TVD 12400 feet/MD 20460 feet</p>
Horizontal Well First and Last Take Points	See above
Completion Target (Formation, TVD and MD)	See Above
AFE Capex and Operating Costs	
Drilling Supervision/Month \$	\$7000
Production Supervision/Month \$	\$700
Justification for Supervision Costs	Exhibit B page 4
Requested Risk Charge	Cost + 200%/Exhibit B page 3
Notice of Hearing	
Proposed Notice of Hearing	Exhibit A
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit D
Proof of Published Notice of Hearing (10 days before hearing)	
Ownership Determination	
Land Ownership Schematic of the Spacing Unit	Exhibit B-2
Tract List (including lease numbers and owners)	Exhibits B-3 and B-4
Pooled Parties (including ownership type)	Exhibit B-4
Unlocatable Parties to be Pooled	
Ownership Depth Severance (including percentage above & below)	None
Joinder	
Sample Copy of Proposal Letter	Exhibit B-5
List of Interest Owners (i.e. Exhibit A of JOA)	Exhibit B- 4
Chronology of Contact with Non-Joined Working Interests	Exhibit B
Overhead Rates In Proposal Letter	
Cost Estimate to Drill and Complete	Exhibit B-5
Cost Estimate to Equip Well	Exhibit B-5

Cost Estimate for Production Facilities	Exhibit B-5
Geology	
Summary (including special considerations)	Exhibit C
Spacing Unit Schematic	Exhibit C-9
Gunbarrel/Lateral Trajectory Schematic	Exhibit C-8
Well Orientation (with rationale)	Standup/Exhibit C
Target Formation	Wolfbone/Wolfcamp A
HSU Cross Section	Exhibit C-8
Depth Severance Discussion	Not Applicable
Forms, Figures and Tables	
C-102	Exhibit B-1
Tracts	Exhibit B-2
Summary of Interests, Unit Recapitulation (Tracts)	Exhibits B-3 and B-4
General Location Map (including basin)	Exhibit C-7
Well Bore Location Map	Exhibit C-9
Structure Contour Map - Subsea Depth	Exhibit C-9
Cross Section Location Map (including wells)	Exhibit C-8
Cross Section (including Landing Zone)	Exhibit C-8
Additional Information	
CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.	
Printed Name (Attorney or Party Representative):	James Bruce
Signed Name (Attorney or Party Representative):	
Date:	June 1, 2021

COMPULSORY POOLING APPLICATION CHECKLIST

ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS

Case:	21949
Date	June 3, 2021
Applicant	Tap Rock Resources, LLC
Designated Operator & OGRID (affiliation if applicable)	Tap Rock Operating, LLC/OGRID No. 372043 The operator is the operating entity for applicant
Applicant's Counsel:	James Bruce
Case Title:	Application of Tap Rock Resources, LLC for Compulsory Pooling, Lea County, New Mexico
Entries of Appearance/Intervenors:	
Well Family	Mulva Wells
Formation/Pool	
Formation Name(s) or Vertical Extent:	Bone Spring formation
Primary Product (Oil or Gas):	Oil
Pooling this vertical extent:	Middle Bone Spring formation
Pool Name and Pool Code:	WC-025 G-07 S243517D; Middle Bone Spring/98294
Well Location Setback Rules:	Statewide rules and current horizontal well rules
Spacing Unit Size:	Quarter-quarter sections/40 acres
Spacing Unit	
Type (Horizontal/Vertical)	Horizontal
Size (Acres)	240 acres
Building Blocks:	40 acres
Orientation:	North-South
Description: TRS/County	E/2W/2 §34-24S-35E and E/2NW/4 §3-25S-35E, NMPM, Lea County
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes
Other Situations	
Depth Severance: Y/N. If yes, description	No
Proximity Tracts: If yes, description	No
Proximity Defining Well: if yes, description	
Applicant's Ownership in Each Tract	Exhibits B-3 and B-4
Well(s)	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non- standard)	Mulva Fed. Com. Well No. 112H API No. 30-025-47740 SHL: 210 FSL & 2126 FWL §27-24S-35E BHL: 2638 FSL & 1980 FWL §3 FTP: 100 FNL & 1980 FWL §34 LTP: 2574 FNL & 1988 FWL §3 Formation: First Bone Spring/TVD 10370 feet/MD 18430 feet
Horizontal Well First and Last Take Points	See above
Completion Target (Formation, TVD and MD)	See Above

AFE Capex and Operating Costs	
Drilling Supervision/Month \$	\$7000
Production Supervision/Month \$	\$700
Justification for Supervision Costs	Exhibit B page 4
Requested Risk Charge	Cost + 200%/Exhibit B page 3
Notice of Hearing	
Proposed Notice of Hearing	Exhibit A
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit D
Proof of Published Notice of Hearing (10 days before hearing)	
Ownership Determination	
Land Ownership Schematic of the Spacing Unit	Exhibit B-2
Tract List (including lease numbers and owners)	Exhibits B-3 and B-4
Pooled Parties (including ownership type)	Exhibit B-4
Unlocatable Parties to be Pooled	
Ownership Depth Severance (including percentage above & below)	None
Joinder	
Sample Copy of Proposal Letter	Exhibit B-5
List of Interest Owners (<i>i.e.</i> Exhibit A of JOA)	Exhibit B- 4
Chronology of Contact with Non-Joined Working Interests	Exhibit B
Overhead Rates In Proposal Letter	
Cost Estimate to Drill and Complete	Exhibit B-5
Cost Estimate to Equip Well	Exhibit B-5
Cost Estimate for Production Facilities	Exhibit B-5
Geology	
Summary (including special considerations)	Exhibit C
Spacing Unit Schematic	Exhibit C-9
Gunbarrel/Lateral Trajectory Schematic	Exhibit C-8
Well Orientation (with rationale)	Standup/Exhibit C
Target Formation	First Bone Spring
HSU Cross Section	Exhibit C-8
Depth Severance Discussion	Not Applicable
Forms, Figures and Tables	
C-102	Exhibit B-1
Tracts	Exhibit B-2
Summary of Interests, Unit Recapitulation (Tracts)	Exhibits B-3 and B-4
General Location Map (including basin)	Exhibit C-7
Well Bore Location Map	Exhibit C-9
Structure Contour Map - Subsea Depth	Exhibit C-9
Cross Section Location Map (including	Exhibit C-8

wells)	
Cross Section (including Landing Zone)	Exhibit C-8
Additional Information	
CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.	
Printed Name (Attorney or Party Representative):	James Bruce
Signed Name (Attorney or Party Representative):	
Date:	June 1, 2021

COMPULSORY POOLING APPLICATION CHECKLIST

ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS

Case:	21950
Date	June 3, 2021
Applicant	Tap Rock Resources, LLC
Designated Operator & OGRID (affiliation if applicable)	Tap Rock Operating, LLC/OGRID No. 372043 The operator is the operating entity for applicant
Applicant's Counsel:	James Bruce
Case Title:	Application of Tap Rock Resources, LLC for Compulsory Pooling, Lea County, New Mexico
Entries of Appearance/Intervenors:	
Well Family	Mulva Wells
Formation/Pool	
Formation Name(s) or Vertical Extent:	Wolfbone formation
Primary Product (Oil or Gas):	Oil
Pooling this vertical extent:	Wolfbone formation
Pool Name and Pool Code:	WC-025 G-09 S243532M; Wolfbone/98098
Well Location Setback Rules:	Statewide rules and current horizontal well rules
Spacing Unit Size:	Quarter-quarter sections/40 acres
Spacing Unit	
Type (Horizontal/Vertical)	Horizontal
Size (Acres)	240 acres
Building Blocks:	40 acres
Orientation:	North-South
Description: TRS/County	W/2W/2 §34-24S-35E and W/2NW/4 §3-25S-35E, NMPM, Lea County
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes
Other Situations	
Depth Severance: Y/N. If yes, description	No
Proximity Tracts: If yes, description	No
Proximity Defining Well: if yes, description	
Applicant's Ownership in Each Tract	Exhibits B-3 and B-4
Well(s)	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non- standard)	Mulva Fed. Com. Well No. 131H API No. 30-025-47342 SHL: 483 FSL & 656 FWL §27-24S-35E BHL: 2638 FSL & 658 FWL §3 FTP: 100 FNL & 660 FWL §34 LTP: 2572 FNL & 658 FWL §3 Formation: Wolfbone/TVD 12242 feet/MD 20302 feet

	<p>Mulva Fed. Com. Well No. 211H API No. 30-025-47343 SHL: 458 FSL & 655 FWL §27-24S-35E BHL: 2638 FSL & 332 FWL §3 FTP: 100 FNL & 334 FWL §34 LTP: 2571 FNL & 332 FWL §3 Formation: Wolfbone/TVD 12398 feet/MD 20458 feet</p> <p>Mulva Fed. Com. Well No. 215H API No. 30-025-47344 SHL: 458 FSL & 680 FWL §27-24S-35E BHL: 2638 FSL & 987 FWL §3 FTP: 100 FNL & 989 FWL §34 LTP: 2572 FNL & 987 FWL §3 Formation: Wolfbone/TVD 12385 feet/MD 20445 feet</p>
Horizontal Well First and Last Take Points	See above
Completion Target (Formation, TVD and MD)	See Above
AFE Capex and Operating Costs	
Drilling Supervision/Month \$	\$7000
Production Supervision/Month \$	\$700
Justification for Supervision Costs	Exhibit B page 4
Requested Risk Charge	Cost + 200%/Exhibit B page 3
Notice of Hearing	
Proposed Notice of Hearing	Exhibit A
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit D
Proof of Published Notice of Hearing (10 days before hearing)	
Ownership Determination	
Land Ownership Schematic of the Spacing Unit	Exhibit B-2
Tract List (including lease numbers and owners)	Exhibits B-3 and B-4
Pooled Parties (including ownership type)	Exhibit B-4
Unlocatable Parties to be Pooled	
Ownership Depth Severance (including percentage above & below)	None
Joinder	
Sample Copy of Proposal Letter	Exhibit B-5
List of Interest Owners (i.e. Exhibit A of JOA)	Exhibit B- 4
Chronology of Contact with Non-Joined Working Interests	Exhibit B
Overhead Rates In Proposal Letter	
Cost Estimate to Drill and Complete	Exhibit B-5
Cost Estimate to Equip Well	Exhibit B-5

Cost Estimate for Production Facilities	Exhibit B-5
Geology	
Summary (including special considerations)	Exhibit C
Spacing Unit Schematic	Exhibit C-9
Gunbarrel/Lateral Trajectory Schematic	Exhibit C-8
Well Orientation (with rationale)	Standup/Exhibit C
Target Formation	Wolfbone/Wolfcamp A
HSU Cross Section	Exhibit C-8
Depth Severance Discussion	Not Applicable
Forms, Figures and Tables	
C-102	Exhibit B-1
Tracts	Exhibit B-2
Summary of Interests, Unit Recapitulation (Tracts)	Exhibits B-3 and B-4
General Location Map (including basin)	Exhibit C-7
Well Bore Location Map	Exhibit C-9
Structure Contour Map - Subsea Depth	Exhibit C-9
Cross Section Location Map (including wells)	Exhibit C-8
Cross Section (including Landing Zone)	Exhibit C-8
Additional Information	
CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.	
Printed Name (Attorney or Party Representative):	James Bruce
Signed Name (Attorney or Party Representative):	
Date:	June 1, 2021

COMPULSORY POOLING APPLICATION CHECKLIST

ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS

Case:	21951
Date	June 3, 2021
Applicant	Tap Rock Resources, LLC
Designated Operator & OGRID (affiliation if applicable)	Tap Rock Operating, LLC/OGRID No. 372043 The operator is the operating entity for applicant
Applicant's Counsel:	James Bruce
Case Title:	Application of Tap Rock Resources, LLC for Compulsory Pooling, Lea County, New Mexico
Entries of Appearance/Intervenors:	
Well Family	Mulva Wells
Formation/Pool	
Formation Name(s) or Vertical Extent:	Bone Spring formation
Primary Product (Oil or Gas):	Oil
Pooling this vertical extent:	Middle Bone Spring formation
Pool Name and Pool Code:	WC-025 G-07 S243517D; Middle Bone Spring/98294
Well Location Setback Rules:	Statewide rules and current horizontal well rules
Spacing Unit Size:	Quarter-quarter sections/40 acres
Spacing Unit	
Type (Horizontal/Vertical)	Horizontal
Size (Acres)	240 acres
Building Blocks:	40 acres
Orientation:	North-South
Description: TRS/County	W/2W/2 §34-24S-35E and W/2NW/4 §3-25S-35E, NMPM, Lea County
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes
Other Situations	
Depth Severance: Y/N. If yes, description	No
Proximity Tracts: If yes, description	No
Proximity Defining Well: if yes, description	
Applicant's Ownership in Each Tract	Exhibits B-3 and B-4
Well(s)	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non- standard)	Mulva Fed. Com. Well No. 111H API No. 30-025-47341 SHL: 13 FSL & 760 FWL §27-24S-35E BHL: 2638 FSL & 658 FWL §3 FTP: 100 FNL & 660 FWL §34 LTP: 2572 FNL & 658 FWL §3 Formation: First Bone Spring/TVD 10370 feet/MD 18430 feet
Horizontal Well First and Last Take Points	See above
Completion Target (Formation, TVD and MD)	See Above

AFE Capex and Operating Costs	
Drilling Supervision/Month \$	\$7000
Production Supervision/Month \$	\$700
Justification for Supervision Costs	Exhibit B page 4
Requested Risk Charge	Cost + 200%/Exhibit B page 3
Notice of Hearing	
Proposed Notice of Hearing	Exhibit A
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit D
Proof of Published Notice of Hearing (10 days before hearing)	
Ownership Determination	
Land Ownership Schematic of the Spacing Unit	Exhibit B-2
Tract List (including lease numbers and owners)	Exhibits B-3 and B-4
Pooled Parties (including ownership type)	Exhibit B-4
Unlocatable Parties to be Pooled	
Ownership Depth Severance (including percentage above & below)	None
Joinder	
Sample Copy of Proposal Letter	Exhibit B-5
List of Interest Owners (<i>i.e.</i> Exhibit A of JOA)	Exhibit B- 4
Chronology of Contact with Non-Joined Working Interests	Exhibit B
Overhead Rates In Proposal Letter	
Cost Estimate to Drill and Complete	Exhibit B-5
Cost Estimate to Equip Well	Exhibit B-5
Cost Estimate for Production Facilities	Exhibit B-5
Geology	
Summary (including special considerations)	Exhibit C
Spacing Unit Schematic	Exhibit C-9
Gunbarrel/Lateral Trajectory Schematic	Exhibit C-8
Well Orientation (with rationale)	Standup/Exhibit C
Target Formation	First Bone Spring
HSU Cross Section	Exhibit C-8
Depth Severance Discussion	Not Applicable
Forms, Figures and Tables	
C-102	Exhibit B-1
Tracts	Exhibit B-2
Summary of Interests, Unit Recapitulation (Tracts)	Exhibits B-3 and B-4
General Location Map (including basin)	Exhibit C-7
Well Bore Location Map	Exhibit C-9
Structure Contour Map - Subsea Depth	Exhibit C-9
Cross Section Location Map (including	Exhibit C-8

wells)	
Cross Section (including Landing Zone)	Exhibit C-8
Additional Information	
CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.	
Printed Name (Attorney or Party Representative):	James Bruce
Signed Name (Attorney or Party Representative):	
Date:	June 1, 2021