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. 11940

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

A

formation underlying the E/2W/2 of Section 34 and the E/2NW/4 of Section 3, pursuant to NMSA 1978 $\S70-2-17$.

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;
- 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;
- 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,

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. 2/950

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;
- 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

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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 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 Nos. 131H, 211H, and 215H, which have first take points in the NW/4NW/4 of Section 34 and last take points in the SW/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. 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;
- 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

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 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 Exhibit2 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

FURTHER AFFIANT S	AYETH NAUGHT	Gnuttos	
		Erica Hixson	
STATE OF COLORADO COUNTY OF JEFFERSON))ss)		
Subscribed to and sworn bet	fore me this 27 day of	f May, 2021.	
EMILY KASA	and an analysis of the first of	a la	

Notary ID # 20184039277

My Commission Expires 10-04-2022

Notary Public

My Commission expires 10.4. 2022 .

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

1220 S. St. Francis Dr., Santa Fe, NM 87505

Phone: (505) 476-3460 Fax: (505) 476-3462

District IV

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 30-025-4734	² Pool Code	³ Pool Na WC-025 G-07 S243517D; M	me
⁴ Property Code 328302		operty Name A FED COM	⁶ Well Number 111H
⁷ OGRID №. 372043		PERATING, LLC.	⁹ Elevation 3279'

10 Surface Location

UL or lot no.	Section 27	Township 24-S	Range 35-E	Lot Idn —	Feet from the 13'	North/South line SOUTH	Feet from the 760'	East/West line	County LEA				
	11Pottom Hole I continue IS Different Day Conf												

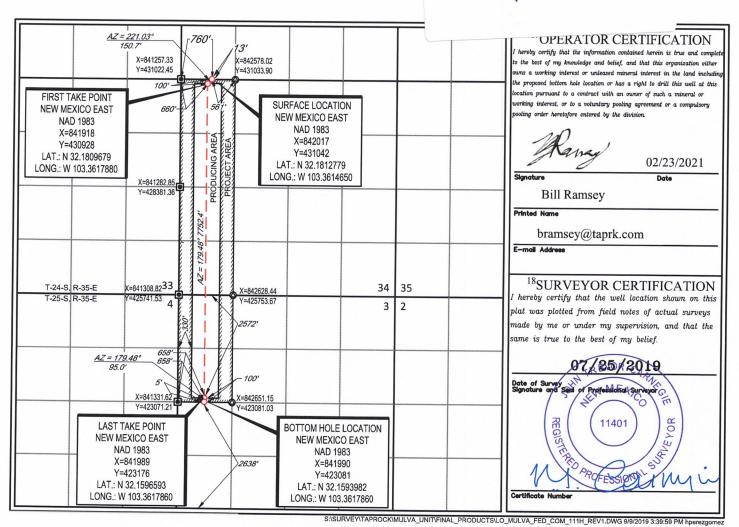
Bottom Hole Location If Different From Surface

UL or lot no.	Section 3	Township 25-S	35-E	Lot Idn	Feet from the 2638'	North/South line SOUTH	Feet from the 658'	East/West line WEST	County
12Dedicated Acres 240.81	¹³ Joint or I	nfill 14Co	onsolidation Cod	le ¹⁵ Orde	er No.				

No allowable will be assigned to this completion until all interests have been consolidated

EXHIBIT 3-1

vision.



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

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240.85

¹API Number

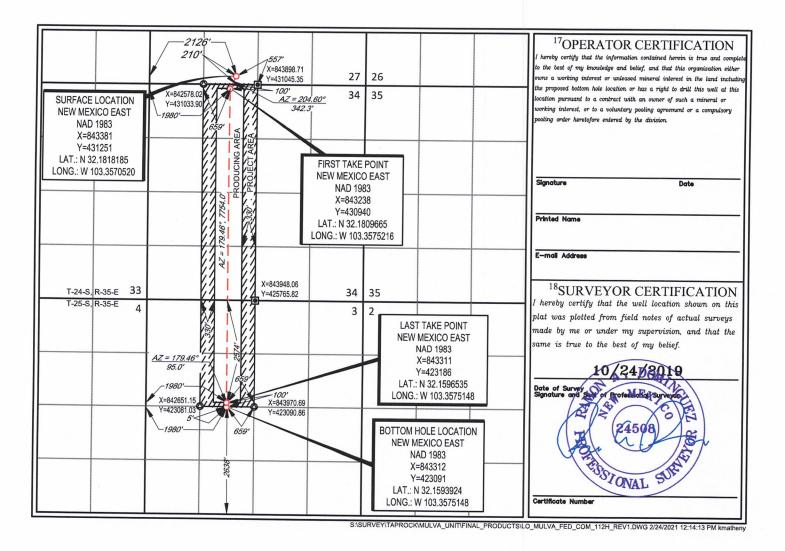
State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

__ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025-4	17740		982	94	W	C-025 G-07 S2435	17D; MIDDLE	BONE SP	
⁴ Property (328302	Code				⁵ Property MULVA FE			67	Well Number 112H
70GRID 1 #3720				TAP	⁸ Operator I ROCK OPEI	RATING, LLC.			⁹ Elevation 3281
					¹⁰ Surface L	ocation			
UL or lot no.	Section 27	Township 24-S	Range 35-E	Lot Idn	Feet from the 210'	North/South line SOUTH	Feet from the 2126'	East/West line WEST	County LEA
			11]	Bottom Ho	le Location If I	Different From Sur	face		
UL or lot no.	3	Township 25-S	Range 35-E	Lot Idn —	2638'	North/South line SOUTH	Feet from the 1980'	East/West line WEST	County LEA
12Dedicated Acres	13 Joint or 1	Infill 14Co	nsolidation Co	de 15Orde	w No				



District I
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State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
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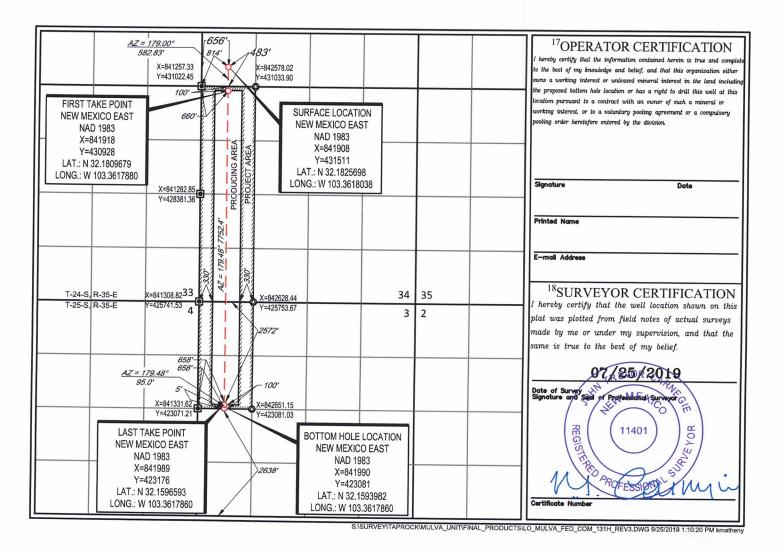
FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-0	¹ API Numbe 125-473		9	² Pool Code 98098	W	C-025 G-09 S2	24353 ³ Pool Name W; W	OLFBONE	
⁴ Property 328302					⁵ Property N			⁶ Well N 131	
⁷ OGRID	No.			TAP R	⁸ Operator N ROCK OPER	ame ATING, LLC.		9Eleva 328	
					¹⁰ Surface Lo	cation			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

IVI	21	24-5	39-E	_	483	SOUTH	656	WEST	LEA
			11	Bottom Ho	ole Location If D	Different From Su	rface		
UL or lot no.	Section 3	Township 25-S	35-E	Lot Idn	Feet from the 2638'	North/South line SOUTH	Feet from the 658'	East/West line WEST	County LEA
¹² Dedicated Acres	¹³ Joint or 1	infill 14Co	nsolidation Co	de ¹⁵ Ord	ler No.				



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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
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Santa Fe, NM 87505

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

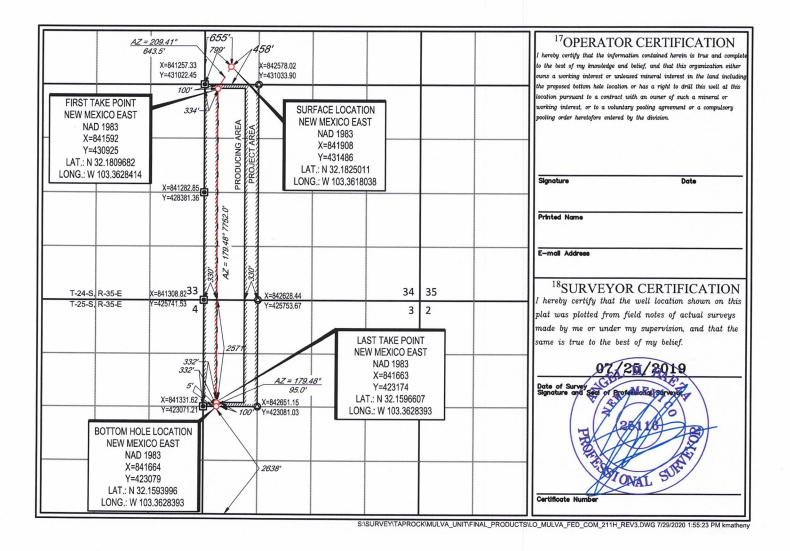
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025-47.	² Pool Code 98098	WOLFBONE	
⁴ Property Code 328302		roperty Name A FED COM	⁶ Well Number 211H
70GRID No. 372043		perator Name OPERATING, LLC.	⁹ Elevation 3280'
	100	С Т 41	

Surface 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
			¹¹ F	Bottom Ho	le Location If D	ifferent From Sur	face		*
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 I	nfill 14Co	nsolidation Cod	le ¹⁵ Orde	er No.	*			



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

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

UL or lot no.

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

County

East/West line

WELL LOCATION AND ACREAGE DEDICATION PLAT

4Property Code 5Property Name 6Well Number 328302 MULVA FED COM 215H OGRID No. SOperator Name 9Elevation 372043 TAP ROCK OPERATING, LLC. 3280°	30-025-473	² Pool Code 98098	WC-025 G-09 S243532M;	WOLFBONE
Operator Name Elevation				
	⁷ OGRID №. 372043			⁹ Elevation 3280'

¹⁰Surface Location

North/South line

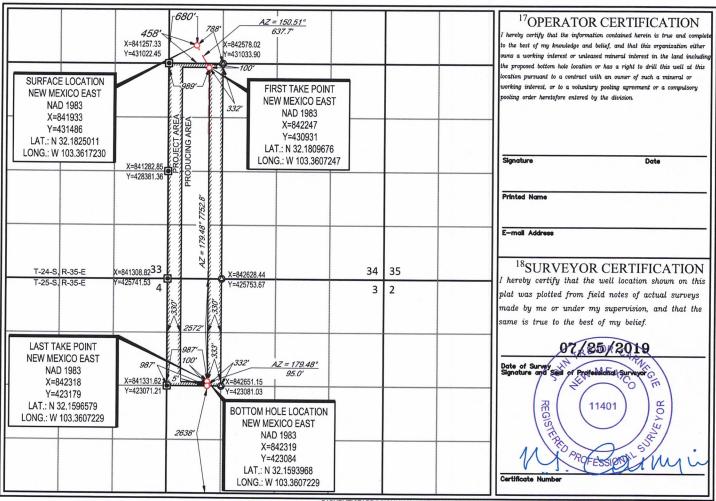
Feet from the

Feet from the

Range

Lot Idn

M	27	24-S	35-E	_	458'	SOUTH	680'	WEST	LEA
			11	Bottom Ho	le Location If D	ifferent From Sui	rface		
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
12Dedicated Acres	13 Joint or 1	nfill 14Co	nsolidation Co	de 15Ord	er No				



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

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

24-S 35-E

N

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

LEA

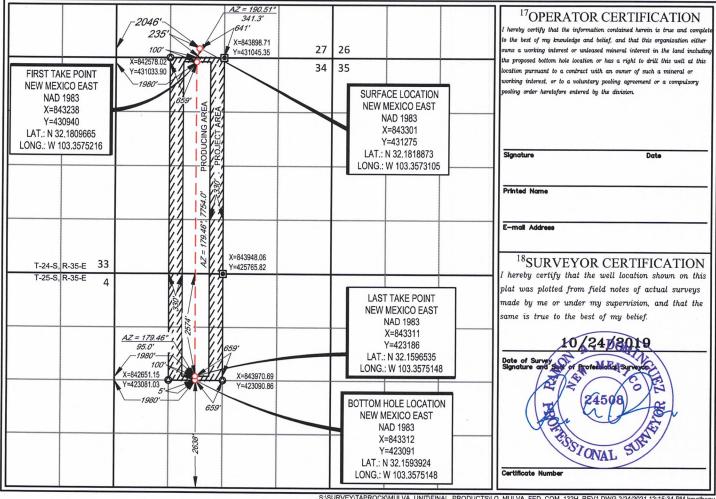
WEST

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025-4	¹ API Number 17743		98098	² Pool Code	WC-	025 G-09 S243532	³ Pool Name 2M; WOLFBON		
⁴ Property 0 328302	Code			М	⁵ Property Nan			A21777	Number 32H
70GRID 1 #3720				TAP RO	⁸ Operator Nar CK OPERA	TING, LLC.			evation 281'
					¹⁰ Surface Loc	ation			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

235' SOUTH 2046'

								/	
			11	Bottom Ho	ole Location If I	Different From Su	rface		
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 1	Infill 14Ce	onsolidation Co	de ¹⁵ Ord	ler No.				



<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
<u>District II</u>
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

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

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

Section Township

UL or lot no.

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
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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

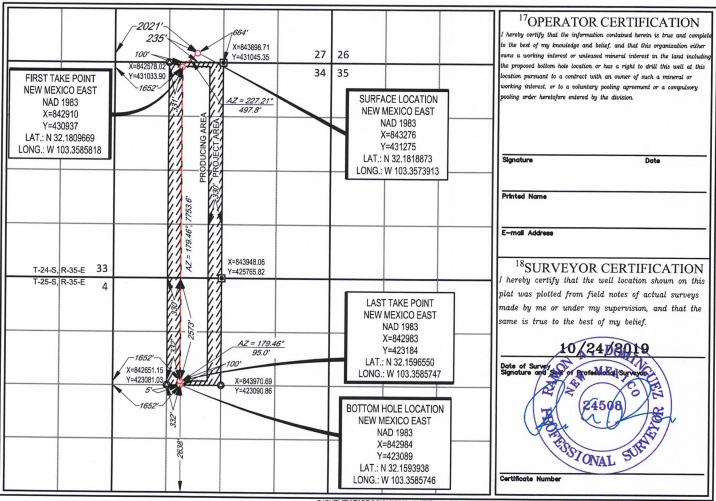
30-025-47787	² Pool Code 98098	WC-025 G-09 S243532M	WOLFBONE
⁴ Property Code 328302		Property Name VA FED COM	⁶ Well Number 212H
⁷ OGRID №. #372043		OPERATING, LLC.	⁹ Elevation 3282'
	10 _{S11}	rface Location	

Surface Location

Feet from the

Lot Idn

N	27	24-S	35-E	-	235'	SOUTH	2021'	WEST	LEA
			11	Bottom Ho	le Location If D	Different From Sur	rface		
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
12Dedicated Acres	13 Joint or	Infill 14Co	onsolidation Co	de ¹⁵ Ord	er No.				
240.85									



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

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

UL or lot no.

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	² Pool Code	³ Pool Nan	ne
30-025-47788	98098	WC-025 G-09 S243532	2M; WOLFBONE
⁴ Property Code 328302		operty Name A FED COM	⁶ Well Number 217H
⁷ OGRID №. #372043		oerator Name OPERATING, LLC.	⁹ Elevation 3282'
	100	T4i	

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	27	24-S	35-E	_	210'	SOUTH	2046'	WEST	LEA
			11	Bottom Ho	le Location If D	ifferent From Sur	face		
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 1	nfill 14Co	nsolidation Co	de ¹⁵ Ord	er No.				

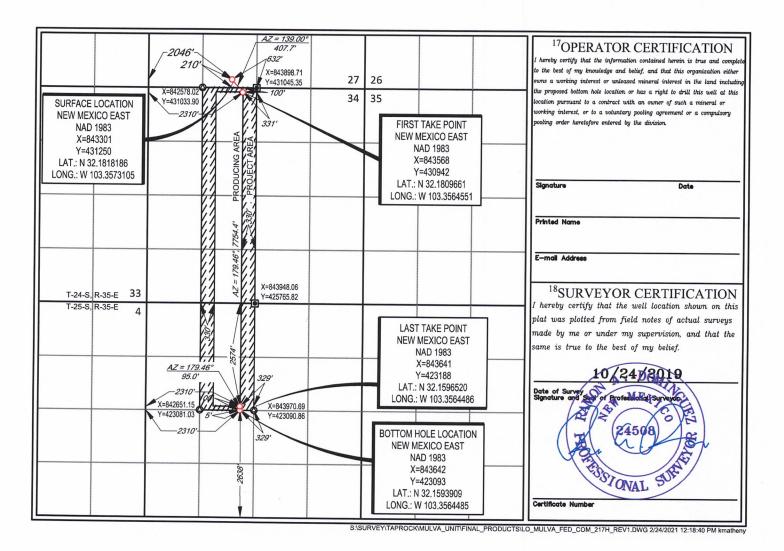






EXHIBIT B-1

Tract List



	MANAGEMENT OF THE				
Owner	Tap Rock Resources, LLC	Franklin Mountain Energy LLC	Tap Rock Resources, LLC	New Mexico Department of Transportation	
Lease Number	N/A	NM-138895	NM-138893	Unleased	
Mineral Ownership Type	Fee	Federal	Federal	State	
Legal	T24S R35E Section 34: NE/4NW/4, S/2NW/4, NW/4SW/4, N/2SW/4	T25S R35E Section 3: NW/4 L&E Tract 4 T24S R35E Section 34: S/2SW/4	T24S R35E Section 34: NW/4NW/4	T25S R35E Section 3: Highway 128	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, T255 R35E.
Tract#	1	21	6	*	

*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%*

EXHIBIT (A) (A)

^{*}final interest subject to division order title verification





E/2W/2 Unit Interest Breakdown*

Approximate Percentage 85.44% 13.78% *%87. Uncommitted Working Interest Working Interest Working Interest Interest Type State of New Mexico, ex rel., New Mexico Department of Transportation Tap Rock Resources, LLC Voluntary Joinder Entity

*final interest subject to division order title verification



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

Mulva SE/4S Fed Com Section #217H T24S-	Section 3-	E/2W/2 of Section 34-T24S-R35E & E/2NW/4 of Section 3-T25S-R35E	Wolfcamp A	~12,400'	~20,460'
---	------------	--	---------------	----------	----------

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

2 3

New Mexico Department of Transportation hereby elects to:

participate in the Mulva Fed Com #111H	participate in the Mulva Fed Com #211H
non-consent the Mulva Fed Com #111H	non-consent the Mulva Fed Com #211H
participate in the Mulva Fed Com #112H	participate in the Mulva Fed Com #212H
non-consent the Mulva Fed Com #112H	non-consent the Mulva Fed Com #212H
participate in the Mulva Fed Com #131H	participate in the Mulva Fed Com #215H
non-consent the Mulva Fed Com #131H	non-consent the Mulva Fed Com #215H
participate in the Mulva Fed Com #132H	participate in the Mulva Fed Com #217H
non-consent the Mulva Fed Com #132H	non-consent the Mulva Fed Com #217H
By:	
Name:	
Title:	
Date:	

TAP ROCK RESOURCES 3 | 3

TAP ROCK OPERATING, LLC

602 Park Point Dr, Golden, Colorado 80401 Authorization For Expenditure

Name: AFE #: County: State: Lea

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.

	TCODE	INTANGIBLE DRILLING COSTS DESCRIPTION	AMOUNT		ost co	ODES	INTANGIBLE COMPLETION COSTS DESCRIPTION	AMOUNT		ST COD	INTANGIBLE PRODUCTION COSTS	
1	1	Land - Legal	10,000	T 2	\neg	1	Land - Legal	AMOUNT	3	1	Land - Legal	AMOUNT
1	2	Land - Regulatory	5,000	2	_	2	Land - Regulatory		3	2	Land - Regulatory	
1	3	Land - Surface Damages	20,000	2	_	3	Land - Surface Damages		3	3	Land - Surface Damages	
1	4	Land - Survey	10,000	2		4	Land - Survey	-		-		-
1	5	Location/Pit Construction	140,000	2					3	4		
1	6	Remedial Dirtwork	140,000	_	_	5	Location/Pit Construction		3	5		5,
1	7		0	2	_	6	Remedial Dirtwork		3	6		
-	_	Reserve/Frac Pit Closing	0	2		7	Reserve/Frac Pit Closing		3	7	Reserve/Frac Pit Closing	
1	8	Drilling - Contractor	501,159	2		8	Drilling - Contractor		3	8	Drilling - Contractor	
1	9	Mob/Rig Up - Contractor/Trucking	123,250	2		9	Mob/Rig Up - Contractor/Trucking		3	9	Mob/Rig Up - Contractor/Trucking	
1	10	Cementing Services	0	2		10	Cementing Services		3	10		
1	11	Cementing Equipment	0	2		11	Cementing Equipment		3	-		
1	12	Bits/Drill Out Assemblies	-	2		12	Bits/Drill Out Assemblies			11		
1	13	Fluid Circulation Equipment/Services	U					35,440	3	12		1, 1, 1,
1	14	Fluids/Chemicals	87,423	2		13	Fluid Circulation Equipment/Services		3	13	The state of the s	
-			50,000	2		14	Fluids/Chemicals	25,313	3	14		
1	15	WBM Cuttings/Wastewater Disposal	205,470	2		15	WBM Cuttings/Wastewater Disposal		3	15	WBM Cuttings/Wastewater Disposal	
1	16	OBM Cuttings/Chemical Disposal	0	2		16	OBM Cuttings/Chemical Disposal		3	16		
1	17	Fuel/Power	126,655	2		17	Fuel/Power	225,600	3	17		
1	18	Water	0	2		18	Water	370,724	3	18		
1	19	Directional Drilling	213,475	2		19	Directional Drilling	3.0,72.	3	19		
1	20	Mud Logging	19 930	2		20	Mud Logging		3			
1	21	Open/Cased/Production Hole Logs	19,930					100000	_	20	Mud Logging	
1			0	2	-	21	Open/Cased/Production Hole Logs	8,440	3	21	Open/Cased/Production Hole Logs	
1	22	Coring	0	2		22	Coring		3	22	Coring	
1	23	Geologic Supervision	0	2	1	23	Geologic Supervision		3	23	Geologic Supervision	
1	24	Engineering Supervision	0	2		24	Engineering Supervision		3	24	Engineering Supervision	
1	25	Consultant Supervision	113,989	2		25	Consultant Supervision	66,000	3	25	Consultant Supervision	15
1	26	Freight/Transportation	20,000	2			Freight/Transportation			_		
1	27	Labor	20,000	2			Labor	2,000	3	26	Freight/Transportation	5,
			0		-			11,720	3	27		28,
1	28	Supplies - Surface	2,500	2	_		Supplies - Surface	2,000	3	28	Supplies - Surface	
1	29	Supplies - Living Quarters	1,000	2	- 2	29	Supplies - Living Quarters	2,000	3	29	Supplies - Living Quarters	
1	30	Rentals - Surface	54,894	2	3	30	Rentals - Surface	16,560	3	30	Rentals - Surface	
1	31	Rentals - Living Quarters	29,131	2		31	Rentals - Living Quarters	12.320	3	31	Rentals - Living Quarters	
1	32	Rentals - Downhole	0	2			Rentals - Downhole	44,340	3	32		
1	33	Rentals - Pipe & Handling Tools	0	2				0			Rentals - Downhole	
1	34	Rentals - Frac Stack	0				Rentals - Pipe & Handling Tools	0	3	33	Rentals - Pipe & Handling Tools	
_	_			2			Rentals - Frac Stack	81,894	3	34	Rentals - Frac Stack	
1	35	Rentals - Frac Tanks		2		35	Rentals - Frac Tanks	28,730	3	35	Rentals - Frac Tanks	
1	36	Coil Tubing Unit/Workover Rig		2	3	36	Coil Tubing Unit/Workover Rig	68,190	3	36	Coil Tubing Unit/Workover Rig	89
1	37	Wireline/Slickline/Perforating		2	3		Wireline/Slickline/Perforating	188,798	3	37	Wireline/Slickline/Perforating	63,
1	38	Temporary Packers/Plugs		2	3		Temporary Packers/Plugs	31,200	3	38		
1	39	High Pressure Pump Truck		2			High Pressure Pump Truck				Temporary Packers/Plugs	
1	40	Stimulation						46,640	3	39	High Pressure Pump Truck	
1	41	Rentals - Pressure Control		2			Stimulation	1,138,534	3	40	Stimulation	
1	42			2	4		Rentals - Pressure Control		3	41	Rentals - Pressure Control	
-		Flowback Services		2	4	2	Flowback Services	41,231	3	42	Flowback Services	38,
1	43	Water Transfer Services		2	4	3	Water Transfer Services	63,600	3	43	Water Transfer Services	
1	44	Flowback Water Trucking & Disposal		2	4	4	lowback Water Trucking & Disposal	10.649	3	44	Flowback Water Trucking & Disposal	0
1	45	Permanent Equipment Installation		2	4		Permanent Equipment Installation	10,013	3	45		0
1	46	Pipeline Tapping Services		2	4						Permanent Equipment Installation	
1	47		-	2	4	_	Pipeline Tapping Services		3	46	Pipeline Tapping Services	
1					4		Plugging & Abandonment				Plugging & Abandonment	
-		Plugging & Abandonment	0						3	47		
. Т	53	Overhead	10,165	2	5	3	Overhead	13,715	3	47 53	Overhead	5,1
_	53 54	Overhead Insurance	10,165 33,174	2	5	4	Overhead nsurance	13,715	-		Overhead Insurance	5,
-	53 54	Overhead			5	4	nsurance	13,715	3	53 54	Insurance	
_	53 54	Overhead Insurance	33,174 88,861	2	5	4		96,102	3	53	Insurance Contingency	7,0
4	53 54	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: TANGIBLE DRILLING COSTS DECORPTION Conductor Casing	33,174 88,861	2	5	3 4 1 5 1 1 1 1 1 1 1 1	nsurance Contingency TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS DESCRIPTION	96,102	3 3 3	53 54 55	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DESCRIPTION	5,5 7,0 \$187,495
OST	53 54 55 55	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: TANGIBLE DRILLING COSTS DECORPTION Conductor Casing	33.174 88,861 \$1,866,076	2 2	54 55 60	3 (4) 5 (6) DES	INSURANCE CONTINGENCY TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS DESCRIPTION ONDUCTOR CASHING ON	96,102 \$2,587,400	3 3 3 cost	53 54 55 CODES	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DISCUSSION Conductor Casing	7,6 \$187,495
OST (53 54 55 55 CODES 60 61	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: TANGIBLE DRILLING COSTS DESCRIPTION Conductor Casing Surface Casing	33,174 88,961 \$1,866,076 AMOUNT 0 42,599	2 2 2 5 5 5	54 55 57 60 61	0 (0 1 S	INSURANCE CONTINGENCY TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS DESCRIPTION CONDUCTOR CASING urface Casing	96,102 \$2,587,400	3 3 3 3 cost	53 54 55 55 CODES 60 61	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DESCRIPTION Conductor Casing Surface Casing	7,6 \$187,495
COST (53 54 55 55 CODES 60 61 62	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: DESCRIPTION Conductor Casing Surface Casing Surface Casing Surface Total Internetiate Casing	33.174 88,861 \$1,866,076	2 2 2 5 5 5	50 50 60 60	0 CO	nsurance Contingency TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS DESCRIPTION CONDUCTOR Casing urface Casing st Intermediate Casing	96,102 \$2,587,400	3 3 3 3 cost 6 6 6	53 54 55 CODES 60 61 62	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing	7,6 \$187,495
COST (53 54 55 55 60 61 62 63	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing	33,174 88,861 \$1,866,076 AMOUNT 0 42,599 153,263	2 2 2 5 5 5 5	50 50 60 61 63	0 CO 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1	INSURANCE TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS DESCRIPTION CONDUCTOR CASING urface Casing st Intermediate Casing nd intermediate Casing	96,102 \$2,587,400	3 3 3 3 cost	53 54 55 55 CODES 60 61	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DESCRIPTION Conductor Casing Surface Casing	\$187,495
OST	53 54 55 55 60 61 62 63 64	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: TANGIBLE DRILLING COSTS DECEMPION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing	33,174 88,961 \$1,866,076 AMOUNT 0 42,599	2 2 2 5 5 5 5 5	50 50 60 61 63 64	DES DES 11 S 12 S 12 S 12 S 13 S 12 S 14 S 15 S 16	INSURANCE TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS DESCRIPTION CONDUCTOR Casing urface Casing st Intermediate Casing d Intermediate Casing reduction Casing	96,102 \$2,587,400	3 3 3 3 cost 6 6 6	53 54 55 CODES 60 61 62	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing	\$187,495
OST	53 54 55 55 60 61 62 63 64 65	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing	33,174 88,861 \$1,866,076 AMOUNT 0 42,599 153,263	2 2 2 5 5 5 5	50 50 60 61 63	DES DES 11 S 12 S 12 S 12 S 13 S 12 S 14 S 15 S 16	INSURANCE TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS DESCRIPTION CONDUCTOR CASING urface Casing st Intermediate Casing nd intermediate Casing	96,102 \$2,587,400	3 3 3 3 6 6 6 6 6	53 54 55 55 60 61 62 63	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing	7, \$187,495 AMOUNT
OST	53 54 55 55 60 61 62 63 64 65 66	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Wellhead Wellhead	33,174 88,861 \$1,866,076 AMOUNT 0 42,599 153,263	2 2 2 5 5 5 5 5	50 50 60 61 63 64	DES DES 11 S 12 S 14 F 15 S 17 S	INSURANCE TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS DESCRIPTION CONDUCTOR Casing urface Casing st Intermediate Casing d Intermediate Casing reduction Casing	96,102 \$2,587,400	3 3 3 3 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing	7, \$187,495 AMOUNT
OST	53 54 55 55 60 61 62 63 64 65 66	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Tubing	33,174 88,861 \$1,866,076 AMOUNT 0 42,599 153,263	2 2 2 5 5 5 5 5 5	54 55 60 61 63 64 65 66	DES	INSURANCE TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS DESCRIPTION CONDUCTOR CASING urface Casing st intermediate Casing Ind Intermediate Casing roduction Casing roduction Casing urface Value very construction of the Cost	96,102 \$2,587,400	3 3 3 3 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Weilhead	7, \$187,495 AMOUNT
DST	53 54 55 55 60 61 62 63 64 65 66 67	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Wellhead Wellhead	33,174 88,861 \$1,866,076 AMOUNT 0 42,599 153,263	2 2 2 5 5 5 5 5 5 5 5	55 51 51 51 51 51 51 51 51 51 51 51 51 5	DES 0 0 0 11 S 12 14 F 15 T 17 F 17	INSURANCE TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS DESCRIPTION CONDUCTOR Casing urface Casing st Intermediate Casing do Intermediate Casing roduction Casing ubing well well demander Packers/Hangers/Plugs	96,102 \$2,587,400	3 3 3 3 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs	7, \$187,495 AMOUNT
DST	53 54 55 55 60 61 62 63 64 65 66 67 68	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: DESCRIPTION Conductor Casing Surface Casing Surface Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks	33,174 88,861 \$1,866,076 AMOUNT 0 42,599 153,263	2 2 2 5 5 5 5 5 5 5 5 5 5	55 55 55 55 55 55 55 55 55 55 55 55 55	DES	INSURANCE TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS DESCRIPTION COSTS DESCRIPTION COSTS UTFACE CASING INTERMEDIATE CASING INTERMEDIATE CASING INTERMEDIATE CASING VIELLING V	96,102 \$2,587,400	3 3 3 3 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 68	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks	7 \$187,495 AMOUNT 50, 53,
DST	53 54 55 55 60 61 62 63 64 65 66 67 68 69	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: DESCRIPTION Conductor Casing Surface Casing 12nd Intermediate Casing Production Casing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels	33,174 88,861 \$1,866,076 AMOUNT 0 42,599 153,263	2 2 2 5 5 5 5 5 5 5 5 5 5	55 55 57 57 57 57 57 57 57 57 57 57 57 5	DES DES 1 S S S S S S S S S S S S S S S S S S	INSURANCE TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS OSCRIPTON CONDUCTOR CASING surface Casing st Intermediate Casing do Intermediate Casing roduction Casing ubling Wellhead ermanent Packers/Hangers/Plugs anks roduction Vessels	96,102 \$2,587,400	3 3 3 3 3 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Weilhead Permanent Packers/Hangers/Plugs Tanks Production Vessels	7 \$187,495 AMOUNT 50, 53,
DST	53 54 55 55 60 61 62 63 64 65 66 67 68 69 70	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing Production Casing Tubing Wellhead Wellhead Tanks Production Vessels Compressors	33,174 88,861 \$1,866,076 AMOUNT 0 42,599 153,263	2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	55 55 55 55 55 55 55 55 55 55 55 55 55	DES DES DES T S S S S S S S S S S S S S S S S S S	Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS DESCRIPTION CONDUCTOR Casing urface Casing st Intermediate Casing do Intermediate Casing roduction Casing ubing Wellbead ermanent Packers/Hangers/Plugs anks roduction Vessels compressors	96,102 \$2,587,400	3 3 3 3 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 68	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks	7 \$187,495 AMOUNT 50, 53,
DST	53 54 55 55 60 61 62 63 64 65 66 67 68 69 70 71	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: DESCRIPTION Conductor Casing Surface Casing 2nd Intermediate Casing Production Casing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Compressors Surface Flowlines	33,174 88,861 \$1,866,076 AMOUNT 0 42,599 153,263	2 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	55 55 57 57 57 57 57 57 57 57 57 57 57 5	DES DES DES T S S S S S S S S S S S S S S S S S S	INSURANCE TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS OSCRIPTON CONDUCTOR CASING surface Casing st Intermediate Casing do Intermediate Casing roduction Casing ubling Wellhead ermanent Packers/Hangers/Plugs anks roduction Vessels	96,102 \$2,587,400	3 3 3 3 3 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 68 69 70	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors	7 \$187,495 AMOUNT 50, 53, 10,
DST	53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: DESCRIPTION Conductor Casing Surface Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines	33,174 88,861 \$1,866,076 AMOUNT 0 42,599 153,263	2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	55 55 55 55 55 55 55 55 55 55 55 55 55	DES	Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS DESCRIPTION CONDUCTOR Casing urface Casing st Intermediate Casing do Intermediate Casing roduction Casing ubing Wellbead ermanent Packers/Hangers/Plugs anks roduction Vessels compressors	96,102 \$2,587,400	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	53 54 55 60 61 62 63 64 65 66 67 68 69 70	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DISCUMPTON Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines	7 \$187,499 AMOUNT 50, 53, 10,
DST	53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: DESCRIPTION Conductor Casing Surface Casing 2nd Intermediate Casing Production Casing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Compressors Surface Flowlines	33,174 88,861 \$1,866,076 AMOUNT 0 42,599 153,263	2 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	55 55 55 55 55 55 55 55 55 55 55 55 55	DES 0 0 0 0 0 0 0 0 0	Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS DESCRIPTION CONDUCTOR CASING Unificate Casing st Intermediate Casing do Intermediate Casing roduction Casing Using Verification Using Using Orduction Casing	96,102 \$2,587,400	3 3 3 3 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines	7 \$187,499 AMOUNT 50, 53, 10,
DST	53 54 55 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Tobing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers	33,174 88,861 \$1,866,076 AMOUNT 0 42,599 153,263	2 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	55 55 55 66 67 68 69 70 71 72	DES	Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS DESCRIPTION CONDUCTOR Casing urface Casing st Intermediate Casing do Intermediate Casing roduction Casing ubing Veillbead ermanent Packers/Hangers/Plugs anks roduction Vessels compressors urface Flowlines athering Lines alves & Controllers	96,102 \$2,587,400	3 3 3 3 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Gathering Lines Javanes Controllers	7 \$187,499 AMOUNT 50, 53, 10, 107,
DST	53 54 55 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: DESCRIPTION Conductor Casing Surface Casing Surface Casing 2nd Intermediate Casing Production Casing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Artificial Lift Equipment	33,174 88,861 \$1,866,076 AMOUNT 0 42,599 153,263	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	55 55 55 55 55 55 55 55 55 55 55 55 55	DES	Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS DESCRIPTION CONTROLLED COMPLETION COSTS DESCRIPTION CONTROLLED COSTS DESCRIPTION CONTROLLED COSTS DESCRIPTION CONTROLLED COSTS DESCRIPTION COSTS	96,102 \$2,587,400	3 3 3 3 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd intermediate Casing Trubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment	7 \$187,495 AMOUNT 50, 53, 10,
DST	53 54 55 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: DECEMPION Conductor Casing Surface Casing 1st Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement	33,174 88,861 \$1,866,076 AMOUNT 0 42,599 153,263	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	55 55 55 55 55 55 55 55 55 55 55 55 55	DES	Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS DESCRIPTON Conductor Casing urface Casing st intermediate Casing do Intermediate Casing roduction Casing Using roduction Casing Using roduction Casing Using urface Flowlines anks orduction Vessels compressors urface Flowlines athering Lines alves & Controllers riticial Lift Equipment strumentation & Measurement	96,102 \$2,587,400	3 3 3 3 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement	7, \$187,495 AMOUNT 50, 53, 10, 107,
DST	53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: DESCRIPTION Conductor Casing Surface Casing 3st Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment	33,174 88,861 \$1,866,076 AMOUNT 0 42,599 153,263	2 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	55 55 55 55 55 55 55 55 55 55 55 55 55	DES DES DES DES DES DES DES DES	Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS DESCRIPTION COSTS	96,102 \$2,587,400	3 3 3 3 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing 2nd intermediate Casing Trubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment	7, \$187,495 AMOUNT \$0,10 107,4
DST	53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: DESCRIPTION Conductor Casing Surface Casing 2nd Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Rowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Instrumentation & Measurement Instrumentation & Measurement Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation	33,174 88,861 \$1,866,076 AMOUNT 0 42,599 153,263	2 2 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5	55 55 55 55 55 55 55 55 55 55 55 55 55	DES DES DES DES DES DES DES DES	Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS DESCRIPTON Conductor Casing urface Casing st intermediate Casing do Intermediate Casing roduction Casing Using roduction Casing Using roduction Casing Using urface Flowlines anks orduction Vessels compressors urface Flowlines athering Lines alves & Controllers riticial Lift Equipment strumentation & Measurement	96,102 \$2,587,400	3 3 3 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DISCOMPTON Conductor Casing Surface Casing 2nd Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Gathering Lines Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment	7, \$187,495 AMOUNT 50, 53, 10, 107,
DST	53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 80	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: DESCRIPTION Conductor Casing Surface Casing 1st Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Instrumentation & Measurement	33,174 88,861 \$1,866,076 AMOUNT 0 42,599 153,263	2 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	55 55 55 55 55 55 55 55 55 55 55 55 55	DES 0 0 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9	Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS DESCRIPTION COSTS	96,102 \$2,587,400	3 3 3 3 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DESCRIPTION Conductor Casing Surface Casing 12nd Intermediate	7, \$187,495 AMOUNT 50, 53, 10, 107,
DIST	53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 80	Overhead Insurance Contingency TOTAL INTANGIBLE DRILLING COSTS: DESCRIPTION Conductor Casing Surface Casing 2nd Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Rowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Instrumentation & Measurement Instrumentation & Measurement Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation	33,174 88,861 \$1,866,076 AMOUNT 0 42,599 153,263	2 2 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5	55.55.55.55.55.55.55.55.55.55.55.55.55.	DES	Insurance Contingency TOTAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS DESCRIPTION CONDUCTOR CASING Unified Costing Uniface Casing st Intermediate Casing do Intermediate Casing reduction Casing ubbing Wellhead ermanent Packers/Hangers/Plugs anks roduction Vessels compressors urface Flowlines athering Lines alves & Controllers strümentation & Measurement estricial ulft Equipment strumentation & Measurement eertrial Grounding/Safety Equipment ermanent Equipment installation	96,102 \$2,587,400	3 3 3 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	53 54 55 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76	Insurance Contingency TOTAL INTANGIBLE PRODUCTION COSTS: TANGIBLE PRODUCTION COSTS DISCOMPTON Conductor Casing Surface Casing 2nd Intermediate Casing 2nd Intermediate Casing Production Casing Tubing Wellhead Permanent Packers/Hangers/Plugs Tanks Production Vessels Compressors Surface Flowlines Gathering Lines Gathering Lines Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment	7, \$187,495 AMOUNT

TOTAL TANGIBLE COMPLETION COSTS: TOTAL DRILLING COSTS: \$2,407,500 TOTAL COMPLETION COSTS: \$2,587,400 TOTAL PRODUCTION COSTS:

VP FVP CPATION	CEO
VP - EXPLORATION	
 VP - OPERATIONS	CFO
SENIOR GEOLOGIST	/P - LAND & LEGAL

	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

Muiva Fed Com #112H 0 Lea NM

Name: AFE #: County: State:

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

Well Description:

Well	Desci	ription:	Drill, complete,	and eq	uip a h	orizontal 1st Bone Spring well with a 7610	foot lateral.				
COST	ODES	INTANGIBLE DRILLING COSTS DESCRIPTION	AMOUNT		OST CODE	INTANGIBLE COMPLETION COSTS DESCRIPTION	AMOUNT		ST COD	INTANGIBLE PRODUCTION COSTS	
1	1	Land - Legal	10,000	T 2		Land - Legal	AMOUNT	3	1	Land - Legal	AMOUNT
1	2	Land - Regulatory	5.000	2	_	Land - Regulatory		3	2	Land - Regulatory	
1	3	Land - Surface Damages	20,000	2		Land - Surface Damages		3	_		
1	4	Land - Survey	10,000	2		Land - Survey		3	3	Land - Surface Damages	
1	5	Location/Pit Construction	140,000	2		Location/Pit Construction			_	Land - Survey	_
1	6	Remedial Dirtwork	140,000	2	-			3	5	Location/Pit Construction	5,0
1	7	Reserve/Frac Pit Closing	0			Remedial Dirtwork		3	6	Remedial Dirtwork	
1	8	Drilling - Contractor	0	2		Reserve/Frac Pit Closing		3	7	Reserve/Frac Pit Closing	
1	9		501,159	2		Drilling - Contractor		3	8	Drilling - Contractor	
1	10	Mob/Rig Up - Contractor/Trucking	123,250	2		Mob/Rig Up - Contractor/Trucking		3	9	Mob/Rig Up - Contractor/Trucking	
		Cementing Services	0	2		Cementing Services		3	10	Cementing Services	
	11	Cementing Equipment	0	2		Cementing Equipment		3	11	Cementing Equipment	
	12	Bits/Drill Out Assemblies	0	2		Bits/Drill Out Assemblies	35,440	3	12	Bits/Drill Out Assemblies	
	13	Fluid Circulation Equipment/Services	87,423	2		Fluid Circulation Equipment/Services		3	13	Fluid Circulation Equipment/Services	
	14	Fluids/Chemicals	50,000	2		Fluids/Chemicals	25,313	3	14	Fluids/Chemicals	
	15	WBM Cuttings/Wastewater Disposal	205,470	2		WBM Cuttings/Wastewater Disposal		3	15	WBM Cuttings/Wastewater Disposal	
	16	OBM Cuttings/Chemical Disposal	0	2	16	OBM Cuttings/Chemical Disposal		3	16	OBM Cuttings/Chemical Disposal	
1	17	Fuel/Power	126,655	2	17	Fuel/Power	225,600	3	17	Fuel/Power	
	18	Water	0	2	18	Water	370,724	3	18	Water	
1	19	Directional Drilling	213,475	2		Directional Drilling	-	3	19	Directional Drilling	
1	20	Mud Logging	19,930	2		Mud Logging		3	20	Mud Logging	
1	21	Open/Cased/Production Hole Logs	0	2		Open/Cased/Production Hole Logs	8,440	3	21	Open/Cased/Production Hole Logs	
1	22	Coring	0	2		Coring	6,440	3	22	Coring	
	23	Geologic Supervision	0	2		Geologic Supervision		3	23		
	24	Engineering Supervision	0	2		Engineering Supervision			_	Geologic Supervision	
_	25	Consultant Supervision	113,989	2				3	24	Engineering Supervision	
	26	Freight/Transportation		2		Consultant Supervision	66,000	3	25	Consultant Supervision	15,00
_	27	Labor	20,000			Freight/Transportation	2,000	3	26	Freight/Transportation	5,00
_	28	Supplies - Surface	0	2		Labor	11,720	3	27	Labor	28,00
	29		2,500	2		Supplies - Surface	2,000	3	28	Supplies - Surface	
	_	Supplies - Living Quarters	1,000	2		Supplies - Living Quarters	2,000	3	29	Supplies - Living Quarters	
$\overline{}$	30	Rentals - Surface	54,894	2		Rentals - Surface	16,560	3	30	Rentals - Surface	
	31	Rentals - Living Quarters	29,131	2		Rentals - Living Quarters	12,320	3	31	Rentals - Living Quarters	
_	32	Rentals - Downhole	0	2	32	Rentals - Downhole	0	3	32	Rentals - Downhole	
		Rentals - Pipe & Handling Tools	0	2	33	Rentals - Pipe & Handling Tools	0	3	33	Rentals - Pipe & Handling Tools	
_		Rentals - Frac Stack		2	34	Rentals - Frac Stack	81,894	3	34	Rentals - Frac Stack	
		Rentals - Frac Tanks		2	35	Rentals - Frac Tanks	28,730	3	35	Rentals - Frac Tanks	
		Coil Tubing Unit/Workover Rig		2	36	Coil Tubing Unit/Workover Rig	68,190	3	36	Coil Tubing Unit/Workover Rig	83,40
	37	Wireline/Slickline/Perforating		2	37	Wireline/Slickline/Perforating	188,798	3	37	Wireline/Slickline/Perforating	63,40
	38	Temporary Packers/Plugs		2	38	Temporary Packers/Plugs	31,200	3	38	Temporary Packers/Plugs	
	39	High Pressure Pump Truck		2	39	High Pressure Pump Truck	46,640	3	39	High Pressure Pump Truck	
1	40	Stimulation		2	40	Stimulation	1,138,532	3	40	Stimulation	
1	11	Rentals - Pressure Control		2	41	Rentals - Pressure Control	1,138,532				
		Flowback Services		2	42	Flowback Services	24.004	3	41	Rentals - Pressure Control	
		Water Transfer Services		2	43		41,231	3	42	Flowback Services	38,50
$\overline{}$		Flowback Water Trucking & Disposal		2	43	Water Transfer Services	63,600	3	43	Water Transfer Services	
_		Permanent Equipment Installation			_	Flowback Water Trucking & Disposal	10,649	3	44	Flowback Water Trucking & Disposal	0
		Pipeline Tapping Services		2	45	Permanent Equipment Installation		3	45	Permanent Equipment Installation	
		Plugging & Abandonment		2	46	Pipeline Tapping Services		3	46	Pipeline Tapping Services	
		Overhead	0	2	47	Plugging & Abandonment		3	47	Plugging & Abandonment	
		Insurance	10,165	2	53	Overhead	13,715	3	53	Overhead	5,50
_			33,174	2	54	Insurance		3	54	Insurance	
1 5	5	Contingency	88,861	2	55	Contingency	96,102	3	55	Contingency	7.09
		TOTAL INTANGIBLE DRILLING COSTS:	\$1,866,076			TOTAL INTANGIBLE COMPLETION COSTS:	\$2,587,398			TOTAL INTANGIBLE PRODUCTION COSTS:	\$187,495
IST CO	DES	TANGIBLE DRILLING COSTS DESCRIPTION	AMOUNT		T. CO.D. T.	TANGIBLE COMPLETION COSTS				TANGIBLE PRODUCTION COSTS	
		Conductor Casing	AMOUNT		TCODES	DESCRIPTION	AMOUNT		CODES	DESCRIPTION	AMOUNT
6	_	Surface Casing	0	5	60	Conductor Casing		6		Conductor Casing	
1 0		orrace casing	42,599	5	61	Surface Casing		6	61	Surface Casing	

cos	T CODES	DESCRIPTION	AMOUNT
4	60	Conductor Casing	
4	61	Surface Casing	42,59
4	62	1st Intermediate Casing	153,26
4	63	2nd Intermediate Casing	
4	64	Production Casing	345,563
4	65	Tubing	
4	66	Wellhead	
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	

pressors		1	5	70	c
ce Flowlines		1	5	71	S
ering Lines		1 [5	72	G
s & Controllers		1 1	5	73	V
cial Lift Equipment		1 1	5	74	A
mentation & Measurement		1 1	5	75	In
ical Grounding/Safety Equipment		1 1	5	76	EI
anent Equipment Installation		1 1	5	77	P
- Surface		1 1	5	80	0
- Downhole		1 1	5	81	0
TOTAL TANGIBLE DRILLING COSTS:	\$541,424				_
TOTAL DRILLING COSTS:	\$2,407,500				

60	Conductor Casing	
61	Surface Casing	
62	1st Intermediate Casing	
63	2nd Intermediate Casing	
64	Production Casing	4
65	Tubing	
66	Wellhead	(
67	Permanent Packers/Hangers/Plugs	
68	Tanks	
69	Production Vessels	
70	Compressors	
71	Surface Flowlines	
72	Gathering Lines	
73	Valves & Controllers	
74	Artificial Lift Equipment	
75	Instrumentation & Measurement	
76	Electrical Grounding/Safety Equipment	
77	Permanent Equipment Installation	
80	Other - Surface	
81	Other - Downhole	
	61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77	61 Surface Casing 62 1st Intermediate Casing 63 2nd Intermediate Casing 64 Production Casing 65 Tubing 66 Tubing 67 Permanent Packers/Hangers/Plugs 68 Tanks 69 Production Vessels 60 Compressors 70 Compressors 71 Surface Flowlines 72 Gathering Lines 73 Valves & Controllers 74 Artificial Lift Equipment 75 Instrumentation & Measurement 76 Electrical Grounding/Safety Equipment 77 Permanent Equipment Installation 78 Other Surface

TOTAL COMPLETION COSTS: \$2,587,398

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	53,500
6 67	Permanent Packers/Hangers/Plugs	10,000
6 68	Tanks	
6 69	Production Vessels	307,000
6 70	Compressors	
6 71	Surface Flowlines	50,000
6 72	Gathering Lines	0
6 73	Valves & Controllers	
6 74	Artificial Lift Equipment	15,000
5 75	Instrumentation & Measurement	
5 76	Electrical Grounding/Safety Equipment	
5 77	Permanent Equipment Installation	
6 80	Other - Surface	
5 81	Other - Downhole	

TOTAL PRODUCTION COSTS: \$472,995 TOTAL WELL COST: \$5,467,893

VP - EXPLORATION	CEO
VP - OPERATIONS	СFО
SENIOR GEOLOGIST	ND & LEGAL

	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: AFE #: County: State:

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.

cc	ost o	ODES	INTANGIBLE DRILLING COSTS DESCRIPTION	AMOUNT		ost co	INTANGIBLE COMPLETION COSTS	AMOUNT		ost co	nee	INTANGIBLE PRODUCTION COSTS DESCRIPTION	AMOUNT
1		1	Land - Legal	10,000	2			AMOUNT	3	$\overline{}$	1	Land - Legal	AMOUNT
1		2	Land - Regulatory	5,000	2	2			3	_	2	Land - Regulatory	
1		3	Land - Surface Damages	20,000	2	3			3		3	Land - Surface Damages	
1	\perp	4	Land - Survey	10,000	2				3	0	4	Land - Survey	
1		5	Location/Pit Construction	140,000	2	5	Location/Pit Construction		3		5	Location/Pit Construction	5,00
1		6	Remedial Dirtwork	0	2	6			3		6	Remedial Dirtwork	3,00
1		7	Reserve/Frac Pit Closing	0	2		Reserve/Frac Pit Closing		3		7	Reserve/Frac Pit Closing	7 15 15
1		8	Drilling - Contractor	421,442	2		Drilling - Contractor		3	_	8	Drilling - Contractor	
1		9	Mob/Rig Up - Contractor/Trucking	173,750	2				3		9	Mob/Rig Up - Contractor/Trucking	
1	Т	10	Cementing Services	0	2				3		10	Cementing Services	
1		11	Cementing Equipment	0	2	_			3		11	Cementing Equipment	
1		12	Bits/Drill Out Assemblies	0	2			35,440	3		12	Bits/Drill Out Assemblies	
1		13	Fluid Circulation Equipment/Services	72,911	2	_		32,440	3		13		
1	-	14	Fluids/Chemicals	251,130	2			25.313	3		_	Fluid Circulation Equipment/Services Fluids/Chemicals	
1		15	WBM Cuttings/Wastewater Disposal	205,470	2			25,315	3	_			
1		16	OBM Cuttings/Chemical Disposal	76,100	2	_						WBM Cuttings/Wastewater Disposal	
1		17	Fuel/Power	109,780	2		and the state of t	224.200	3		16	OBM Cuttings/Chemical Disposal	
1	_	18	Water	109,780	2			224,529	3			Fuel/Power	
1	-	19	Directional Drilling	470.000				393,894	3			Water	
1	+	20		178,037	2				3			Directional Drilling	
			Mud Logging	15,543	2				3		10	Mud Logging	
1	_	21	Open/Cased/Production Hole Logs	0	2			8,440	3		1	Open/Cased/Production Hole Logs	100
1	-	22	Coring	0	2		Coring		3		2	Coring	
1	-	23	Geologic Supervision	0	2				3		3	Geologic Supervision	
1	-	24	Engineering Supervision	0	2				3	2	4	Engineering Supervision	
1		25	Consultant Supervision	98,802	2	25	Consultant Supervision	66,000	3	2	5	Consultant Supervision	22,500
1		26	Freight/Transportation	20,000	2		Freight/Transportation	2,000	3			Freight/Transportation	10,000
1		27	Labor	0	2	27	Labor	11,720	3	2	7	Labor	85 000
1		28	Supplies - Surface	2,500	2	28	Supplies - Surface	2,000	3	2	8	Supplies - Surface	
1		29	Supplies - Living Quarters	1,000	2		Supplies - Living Quarters	2,000	3	_		Supplies - Living Quarters	
1		30	Rentals - Surface	45,781	2			16,560	3			Rentals - Surface	
1		31	Rentals - Living Quarters	25,249	2		Rentals - Living Quarters	12,320	3		_	Rentals - Living Quarters	
1	-	32	Rentals - Downhole	0	2		Rentals - Downhole	12,320	3			Rentals - Downhole	
1	- 3	33	Rentals - Pipe & Handling Tools	0	2		Rentals - Pipe & Handling Tools	0	3				
1			Rentals - Frac Stack	-	2		Rentals - Frac Stack	0	3	3		Rentals - Pipe & Handling Tools	
1	-	35	Rentals - Frac Tanks		2		Rentals - Frac Tanks	81,894		_	_	Rentals - Frac Stack	
1	-	36	Coil Tubing Unit/Workover Rig		2			28,730	3			Rentals - Frac Tanks	
1	_	37	Wireline/Slickline/Perforating		2	37	Coil Tubing Unit/Workover Rig	68,190	3			Coil Tubing Unit/Workover Rig	83,400
1	_	38	Temporary Packers/Plugs			_	Wireline/Slickline/Perforating	217,728	3	_		Wireline/Slickline/Perforating	
1	_	-	High Pressure Pump Truck		2	38	Temporary Packers/Plugs	43,407	3	-		Temporary Packers/Plugs	
1		40	Stimulation		2	39	High Pressure Pump Truck	46,640	3	35		High Pressure Pump Truck	
1		41	Rentals - Pressure Control		2	40	Stimulation	1,336,648	3	40		Stimulation	
1			Flowback Services		2	41	Rentals - Pressure Control		3	4:		Rentals - Pressure Control	
1		_	Water Transfer Services		2	42	Flowback Services	41,231	3	42		Flowback Services	52,500
1			Flowback Water Trucking & Disposal		2	43	Water Transfer Services	63,600	3	43	3	Water Transfer Services	
1					2	44	Flowback Water Trucking & Disposal	10,649	3	44	1	Flowback Water Trucking & Disposal	30,002
1			Permanent Equipment Installation		2	45	Permanent Equipment Installation		3	45	5	Permanent Equipment Installation	
1			Pipeline Tapping Services		2	46	Pipeline Tapping Services		3	46	5	Pipeline Tapping Services	
1	_	-	Plugging & Abandonment Overhead	0	2	47	Plugging & Abandonment		3	47	7	Plugging & Abandonment	
1	_	_	Insurance	8,478	2	53	Overhead	13,715	3	53	3 (Overhead	5,500
1	_	_		36,544	2	54	Insurance		3	54		Insurance	
1	5	5	Contingency	93,851	2	55	Contingency	104,216	3	55	, (Contingency	21,140
			TOTAL INTANGIBLE DRILLING COSTS:	\$1,970,867			TOTAL INTANGIBLE COMPLETION COSTS:	\$2,856,864				TOTAL INTANGIBLE PRODUCTION COSTS:	\$315,042
												TO THE INTERNATION COSTS.	\$313,042
			TANGIBLE DRILLING COSTS				TANGIBLE COMPLETION COSTS					TANGIBLE PRODUCTION COSTS	
cos	_		DESCRIPTION	AMOUNT	COS	T CODE		AMOUNT	cos	TCOD	FS	DESCRIPTION	AMOUNT
4	60		Conductor Casing	0	5	60	Conductor Casing		6	60		Conductor Casing	AMOUNT
4	6		Surface Casing	42,599	5	61	Surface Casing		6	61		Surface Casing	
4	62	2	1st Intermediate Casing	153,263	5	62	1st Intermediate Casing		6	62		Lst Intermediate Casing	
4	63	3	2nd Intermediate Casing	341,472	5	63	2nd Intermediate Casing		6	63	_		
4	64	4	Production Casing	378,050	5	64	Production Casing		6	64		2nd Intermediate Casing	
4	65		Tubing		5	65	Tubing	U	6	65		Production Casing Tubing	
4	66	6	Wellhead	0	5	66	Wellhead	-			_		50,000
4	67	7	Permanent Packers/Hangers/Plugs		5	67	Permanent Packers/Hangers/Plugs	0	6	66	-	Wellhead	43,500
4	68		Tanks		5	68	Tanks		6	67	_	Permanent Packers/Hangers/Plugs	10,000
4	69		Production Vessels		5	69	Production Vessels		6	68		anks	
4	70		Compressors		5	70	Compressors		6	69	-	roduction Vessels	107,000
4	71	1 9	Surface Flowlines		5	71	Surface Flowlines		6	70		Compressors	
4	72		Sathering Lines		5	72			6	71		urface Flowlines	50,000
4	73		/alves & Controllers		5		Gathering Lines		6	72		Sathering Lines	10,000
4	74		Artificial Lift Equipment			73	Valves & Controllers		6	73		alves & Controllers	
4	75	$\overline{}$	nstrumentation & Measurement		5	74	Artificial Lift Equipment		6	74		rtificial Lift Equipment	15,000
4	76		Electrical Grounding/Safety Equipment		5	75	Instrumentation & Measurement		6	75	Ir	nstrumentation & Measurement	
4	77		Permanent Equipment Installation		5	76	Electrical Grounding/Safety Equipment		6	76		lectrical Grounding/Safety Equipment	
4	80		Other - Surface		5	77	Permanent Equipment Installation		6	77	P	ermanent Equipment Installation	
4	81		Other - Surface Other - Downhole		5	80	Other - Surface		6	80	0	ther - Surface	
-	01	-	THE DOWNING		5	81	Other - Downhole		6	81	0	ther - Downhole	

TOTAL COMPLETION COSTS: \$2,856,864 TOTAL PRODUCTION COSTS: TOTAL WELL COST: \$6,343,656

TOTAL TANGIBLE COMPLETION COSTS:

TAP RO	OCK RESOURCES COMPANY APPROVAL:	
CEO	VP - EXPLORATION	_
CFO	VP - OPERATIONS	_
VP - LAND & LEGAL	SENIOR GEOLOGIST	_

TOTAL DRILLING COSTS: \$2,886,250

\$915,383

TOTAL TANGIBLE DRILLING COSTS:

	NON OPERATING PARTNER APPROVAL:	
	COMPANY NAME:	
SIGNED BY:	TITLE:	
WORKING INTEREST (%):	DATE:	
TAX ID:	APPROVAL:	

TOTAL TANGIBLE PRODUCTION COSTS: \$285,500

602 Park Point Dr, Golden, Colorado 80401 Authorization For Expenditure

INTANGIBLE COMPLETION COSTS

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

INTANGIBLE DRILLING COSTS

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					INTANGIBLE COMPLETION COSTS				INTANGIBLE PRODUCTION COSTS	
٦	OST CO	1	Land - Legal	10,000		2	CODES	Land - Legal	AMOUNT		ST CO		AMOUNT
1		2	Land - Regulatory	5,000	-	2	2	Land - Regulatory	1	3			
1		3	Land - Surface Damages	20,000		2	3	Land - Negaratory Land - Surface Damages	-	3	_	Land - Regulatory Land - Surface Damages	
1		4	Land - Survey	10,000		2	4	Land - Survey		3			
1		5	Location/Pit Construction	140,000		2	5	Location/Pit Construction		3			5,000
1	_	6	Remedial Dirtwork	0		2	6	Remedial Dirtwork		3			3,000
1	_	7	Reserve/Frac Pit Closing	0		2	7	Reserve/Frac Pit Closing		3	1		
1		8	Drilling - Contractor	421,579		2	8	Drilling - Contractor		3	1	Drilling - Contractor	
1	$\overline{}$	9	Mob/Rig Up - Contractor/Trucking	123,250		2	9	Mob/Rig Up - Contractor/Trucking		3	5	Mob/Rig Up - Contractor/Trucking	
1		10	Cementing Services	0		2	10	Cementing Services		3	1	Cementing Services	5
1	_	11	Cementing Equipment	0		2	11	Cementing Equipment		3	1		
1	-	12	Bits/Drill Out Assemblies	0		2	12	Bits/Drill Out Assemblies	35,440	3	1		
1		13	Fluid Circulation Equipment/Services Fluids/Chemicals	72,934			13	Fluid Circulation Equipment/Services		3	1	Fluid Circulation Equipment/Services	1000
1	-	15	WBM Cuttings/Wastewater Disposal	251,130			14	Fluids/Chemicals	25,313	3	1		
1	_	16	OBM Cuttings/Chemical Disposal	205,470		_	15	WBM Cuttings/Wastewater Disposal		3	1		
1		17	Fuel/Power	76,100		-	16	OBM Cuttings/Chemical Disposal Fuel/Power	1	3	1	8-1	
1		18	Water	109,807			17	Water	225,600	3	1		
1		19	Directional Drilling	178,095			19	Directional Drilling	393,744	3	1		-
1		20	Mud Logging	15,550			20	Mud Logging		3	1	-	
1	$\overline{}$	21	Open/Cased/Production Hole Logs	0			21	Open/Cased/Production Hole Logs	8,440	3	2		
1		22	Coring	0			22	Coring	8,440	3	2		-
1		23	Geologic Supervision	0			23	Geologic Supervision		3	2		
1		24	Engineering Supervision	0			24	Engineering Supervision		3	2		
1	1	25	Consultant Supervision	98,826		$\overline{}$	25	Consultant Supervision	66,000	3	2		22,500
1	1		Freight/Transportation	20,000			26	Freight/Transportation	2,000	3	21		10,000
1	_	_	Labor	0			27	Labor	11,720	3	2		85,000
1	-		Supplies - Surface	2,500	- 2		28	Supplies - Surface	2,000	3	28		65,000
1			Supplies - Living Quarters	1,000			29	Supplies - Living Quarters	2,000	3	29		
1			Rentals - Surface	45,796	7		30	Rentals - Surface	16,560	3	30		
1			Rentals - Living Quarters	25,256	2		31	Rentals - Living Quarters	12,320	3	31		
1	_		Rentals - Downhole	0	2		32	Rentals - Downhole	0	3	32		
1	-		Rentals - Pipe & Handling Tools	0	2		33	Rentals - Pipe & Handling Tools	0	3	33		
1	_		Rentals - Frac Stack		2		34	Rentals - Frac Stack	81,894	3	34		
1			Rentals - Frac Tanks		2		35	Rentals - Frac Tanks	28,730	3	35	Rentals - Frac Tanks	
1	3		Coil Tubing Unit/Workover Rig		2		36	Coil Tubing Unit/Workover Rig	68,190	3	36	Coil Tubing Unit/Workover Rig	83,400
1	3	7	Wireline/Slickline/Perforating		2		37	Wireline/Slickline/Perforating	205,898	3	37	Wireline/Slickline/Perforating	
1	3		Temporary Packers/Plugs		2		38	Temporary Packers/Plugs	31,200	3	38	Temporary Packers/Plugs	
1	4		High Pressure Pump Truck Stimulation		2		39	High Pressure Pump Truck	46,640	3	39		
1	4		Rentals - Pressure Control		2		40	Stimulation	1,360,328	3	40		
1	4		Flowback Services		2			Rentals - Pressure Control		3	41	Rentals - Pressure Control	
1	4	$\overline{}$	Water Transfer Services		2			Flowback Services	41,231	3	42	Flowback Services	52,500
1	4	\rightarrow	Flowback Water Trucking & Disposal		2		13	Water Transfer Services	63,600	3	43	Water Transfer Services	
1	4		Permanent Equipment Installation		2		15	Flowback Water Trucking & Disposal	10,649	3	44	Flowback Water Trucking & Disposal	30,002
1	- 48	5	Pipeline Tapping Services		2			Permanent Equipment Installation Pipeline Tapping Services		3	45	Permanent Equipment Installation	
1	4		Plugging & Abandonment	0	2		17	Plugging & Abandonment		3	46	Pipeline Tapping Services	
1	53		Overhead	8,481	2			Overhead	13.715	3	53	Plugging & Abandonment Overhead	
1	54		nsurance	36,533	2			Insurance	13,713	3	54	Insurance	5,500
1	55	5	Contingency	93,865	2	5	5	Contingency	103,653	3	55		
			TOTAL INTANGIBLE DRILLING COSTS:	\$1,971,171				TOTAL INTANGIBLE COMPLETION COSTS:		3	33	Contingency	21,140
							_	TO THE INTENDIBLE COMPLETION COSTS:	\$2,856,864			TOTAL INTANGIBLE PRODUCTION COSTS:	\$315,042
			TANGIBLE DRILLING COSTS										
cos	T COD	ES	DESCRIPTION	AMOUNT	24	_		TANGIBLE COMPLETION COSTS				TANGIBLE PRODUCTION COSTS	
4	60		Conductor Casing	AMOUNT	5	ST CO		DESCRIPTION Conductor Casing	AMOUNT		CODE		AMOUNT
4	61		urface Casing	42 599	5	6		Conductor Casing Surface Casing		6	60	Conductor Casing	
4	62	_	st Intermediate Casing	153,263	5	6	2	1st Intermediate Casing		6	61	Surface Casing	
4	63		nd Intermediate Casing	341,280	5	6		2nd Intermediate Casing		6	62	1st Intermediate Casing	
4	64		roduction Casing	377,937	5	6		Production Casing		6	63	2nd Intermediate Casing	
4	65	1	ubing		5	6	$\overline{}$	Tubing	O O	6	65	Production Casing Tubing	
4	66		Vellhead	0	5	6	_	Wellhead	0	6	66	Wellhead	50,000
4	67		ermanent Packers/Hangers/Plugs		5	6		Permanent Packers/Hangers/Plugs	U	6	67	Permanent Packers/Hangers/Plugs	43,500
4	68		anks		5	6		Tanks		6	68	Tanks	10,000
4	69		roduction Vessels		5	6		Production Vessels		6	69	Production Vessels	107,000
4	70		ompressors		5	71	0	Compressors		6	70	Compressors	307,300
4	71		urface Flowlines		5	7.		Surface Flowlines		6	71	Surface Flowlines	50,000
4	72		athering Lines		5	7.	_	Sathering Lines		6	72	Gathering Lines	10,000
4	73 74		alves & Controllers		5	7:		/alves & Controllers		6	73	Valves & Controllers	13,300
4	_	I.	rtificial Lift Equipment		5	74		Artificial Lift Equipment		6	74	Artificial Lift Equipment	15,000
4	75 76	- 10	strumentation & Measurement		5	75	1	nstrumentation & Measurement		6	75	Instrumentation & Measurement	
4	77	P	ectrical Grounding/Safety Equipment		5	76		lectrical Grounding/Safety Equipment		6	76	Electrical Grounding/Safety Equipment	
4	80	10	ermanent Equipment Installation ther - Surface		5	72		Permanent Equipment Installation		6	77	Permanent Equipment Installation	
4	81		ther - Downhole		5	80		Other - Surface		6	80	Other - Surface	
	31	- 10	TOTAL TANGIBLE DRILLING COSTS:	4045.000	5	81	IC	Other - Downhole		6	81	Other - Downhole	
_				\$915,079			_	TOTAL TANGIBLE COMPLETION COSTS:	\$0			TOTAL TANGIBLE PRODUCTION COSTS:	\$285,500
_			TOTAL DRILLING COSTS:	\$2,886,250				TOTAL COMPLETION COSTS:	\$2,856,864			TOTAL PRODUCTION COSTS:	\$600,542

TAP ROCK RESOURCES COMPANY APPROVAL: ____ VP - EXPLORATION ___ CFO ___ VP - OPERATIONS __ SENIOR GEOLOGIST

	NON OPERATING PARTNER APPROVAL:	
	COMPANY NAME:	
SIGNED BY:	TITLE:	-
WORKING INTEREST (%):	DATE:	_
TAX ID:	APPROVAL:	

TOTAL PRODUCTION COSTS: \$600,542 TOTAL WELL COST: \$6,343,656

602 Park Point Dr, Golden, Colorado 80401 Authorization For Expenditure

Name: Muh 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.

cos	CODES	INTANGIBLE DRILLING COSTS DESCRIPTION	AMOUNT			INTANGIBLE COMPLETION COSTS				INTANGIBLE PRODUCTION COSTS	
1	1	Land - Legal	10.000	2	ST CODES	Land - Legal	AMOUNT		TCODE		AMOUNT
1	2	Land - Regulatory	5,000	2	2	Land - Legal Land - Regulatory		3	1	Land - Legal	
1	3	Land - Surface Damages	20,000	2	3			3	2	Land - Regulatory	
1	4	Land - Survey	20,000	2	4	Land - Surface Damages		3	3	Land - Surface Damages	
1	5	Location/Pit Construction	140,000	2	5	Land - Survey Location/Pit Construction		3	4	Land - Survey	
1	6	Remedial Dirtwork		2		-		3	5	Location/Pit Construction	5,000
1	7	Reserve/Frac Pit Closing	0		6	Remedial Dirtwork		3	6	Remedial Dirtwork	
1	8		0	2	7	Reserve/Frac Pit Closing		3	7	Reserve/Frac Pit Closing	
1		Drilling - Contractor	417,877	2	8	Drilling - Contractor		3	8	Drilling - Contractor	
1	9	Mob/Rig Up - Contractor/Trucking	123,250	2	9	Mob/Rig Up - Contractor/Trucking		3	9	Mob/Rig Up - Contractor/Trucking	
1	10	Cementing Services	0	2	10	Cementing Services		3	10	Cementing Services	
1	11	Cementing Equipment	0	2	11	Cementing Equipment		3	11	Cementing Equipment	
1	12	Bits/Drill Out Assemblies	0	2	12	Bits/Drill Out Assemblies	35,440	3	12	Bits/Drill Out Assemblies	
1	13	Fluid Circulation Equipment/Services	72,301	2	13	Fluid Circulation Equipment/Services		3	13	Fluid Circulation Equipment/Services	
1	14	Fluids/Chemicals	251,130	2	14	Fluids/Chemicals	25,313	3	14	Fluids/Chemicals	
1	15	WBM Cuttings/Wastewater Disposal	205,470	2	15	WBM Cuttings/Wastewater Disposal		3	15	WBM Cuttings/Wastewater Disposal	
1	16	OBM Cuttings/Chemical Disposal	76,100	2	16	OBM Cuttings/Chemical Disposal		3	16	OBM Cuttings/Chemical Disposal	
1	17	Fuel/Power	109,071	2	17	Fuel/Power	224,529	3	17	Fuel/Power	
1	18	Water	0	2	18	Water	393,894	3	18	Water	
1	19	Directional Drilling	176,549	2	19	Directional Drilling		3	19	Directional Drilling	
1	20	Mud Logging	15,358	2	20	Mud Logging		3	20	Mud Logging	
1	21	Open/Cased/Production Hole Logs	0	2	21	Open/Cased/Production Hole Logs	8,440	3	21	Open/Cased/Production Hole Logs	
1	22	Coring	0	2	22	Coring		3	22	Coring	
1	23	Geologic Supervision	0	2	23	Geologic Supervision		3	23	Geologic Supervision	
1	24	Engineering Supervision	0	2	24	Engineering Supervision		3	24	Engineering Supervision	
1	25	Consultant Supervision	98.164	2	25	Consultant Supervision	66,000	3	25	Consultant Supervision	22,500
1	26	Freight/Transportation	20,000	2	26	Freight/Transportation	2,000	3	26	Freight/Transportation	
1	27	Labor	0,000	2	27	Labor	11,720	3	27	Labor	10,000
1	28	Supplies - Surface	2,500	2	28	Supplies - Surface	2,000	3			85,000
1	29	Supplies - Living Quarters	1.000	2	29	Supplies - Living Quarters			28	Supplies - Surface	
1	30	Rentals - Surface	45,398	2	30	Rentals - Surface	2,000	3	29	Supplies - Living Quarters	
1	31	Rentals - Living Quarters	25,086	2	31		16,560	3	30	Rentals - Surface	
1	32	Rentals - Downhole	25,080	2		Rentals - Living Quarters	12,320	3	31	Rentals - Living Quarters	
1	33	Rentals - Pipe & Handling Tools	0	2	32	Rentals - Downhole	0	3	32	Rentals - Downhole	
1	34	Rentals - Frac Stack	0		33	Rentals - Pipe & Handling Tools	0	3	33	Rentals - Pipe & Handling Tools	
1	35	Rentals - Frac Tanks		2	34	Rentals - Frac Stack	81,894	3	34	Rentals - Frac Stack	1 72
1	36			2	35	Rentals - Frac Tanks	28,730	3	35	Rentals - Frac Tanks	
1	37	Coil Tubing Unit/Workover Rig		2	36	Coil Tubing Unit/Workover Rig	68,190	3	36	Coil Tubing Unit/Workover Rig	83,400
1		Wireline/Slickline/Perforating		2	37	Wireline/Slickline/Perforating	217,728	3	37	Wireline/Slickline/Perforating	
_	38	Temporary Packers/Plugs		2	38	Temporary Packers/Plugs	43,407	3	38	Temporary Packers/Plugs	
1	39	High Pressure Pump Truck		2	39	High Pressure Pump Truck	46,640	3	39	High Pressure Pump Truck	
	40	Stimulation		2	40	Stimulation	1,336,648	3	40	Stimulation	
1	41	Rentals - Pressure Control		2	41	Rentals - Pressure Control		3	41	Rentals - Pressure Control	
1	42	Flowback Services		2	42	Flowback Services	41,231	3	42	Flowback Services	52,500
1	43	Water Transfer Services		2	43	Water Transfer Services	63,600	3	43	Water Transfer Services	
1	44	Flowback Water Trucking & Disposal		2	44	Flowback Water Trucking & Disposal	10,649	3	44	Flowback Water Trucking & Disposal	30,002
1		Permanent Equipment Installation		2	45	Permanent Equipment Installation		3	45	Permanent Equipment Installation	55,002
1		Pipeline Tapping Services	71	2		Pipeline Tapping Services		3	46	Pipeline Tapping Services	
1		Plugging & Abandonment	0	2		Plugging & Abandonment		3	47	Plugging & Abandonment	
1	53	Overhead	8,407	2		Overhead	13,715	3	53	Overhead	5,500
1		Insurance	36,824	2	54	Insurance		3	54	Insurance	5,500
1	55	Contingency	93,474	2	55	Contingency	104,216	3	55	Contingency	21,140
		TOTAL INTANGIBLE DRILLING COSTS:	\$1,962,961					3	33		
			+-130E,30I			TOTAL INTANGIBLE COMPLETION COSTS:	\$2,856,864			TOTAL INTANGIBLE PRODUCTION COSTS:	\$315,042

COST	ODES	DESCRIPTION	AMOUNT	cos	TCO
4	60	Conductor Casing	0	5	6
4	61	Surface Casing	42,599	5	6
4	62	1st Intermediate Casing	153,263	5	6
4	63	2nd Intermediate Casing	346,453	5	63
4	64	Production Casing	380,975	5	6
4	65	Tubing		5	65
4	66	Wellhead	0	5	66
4	67	Permanent Packers/Hangers/Plugs		5	6
4	68	Tanks		5	61
4	69	Production Vessels		5	69
4	70	Compressors		5	70
4	71	Surface Flowlines		5	71
4	72	Gathering Lines		5	72
4	73	Valves & Controllers		5	73
4	74	Artificial Lift Equipment		5	74
4	75	Instrumentation & Measurement		5	75
1	76	Electrical Grounding/Safety Equipment		5	76
1	77	Permanent Equipment Installation		5	77
1	80	Other - Surface		5	80
1	81	Other - Downhole		5	81

cos	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	
5	65	Tubing	
5	66	Wellhead	
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 COMPLETION COSTS

cos	T 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	50,0
6	66	Wellhead	43,5
6	67	Permanent Packers/Hangers/Plugs	10,0
6	68	Tanks	
6	69	Production Vessels	107,0
6	70	Compressors	
6	71	Surface Flowlines	50,0
6	72	Gathering Lines	10,0
6	73	Valves & Controllers	
6	74	Artificial Lift Equipment	15,0
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 ROC	K RESOURCES COMPANY APPROVAL:	
CEO	VP - EXPLORATION	
CFO	VP - OPERATIONS	
VP - LAND & LEGAL	SENIOR GEOLOGIST	
/P - LAND & LEGAL	SENIOR GEOLOGIST	

TOTAL DRILLING COSTS: \$2,886,250

NO	ON OPERATING PARTNER APPROVAL:	
сом	PANY NAME:	
SIGNED BY:	TITLE:	-
VORKING INTEREST (%):	DATE:	-
TAX ID:	APPROVAL:	_

602 Park Point Dr, Golden, Colorado 80401 Authorization For Expenditure

INTANGIBLE COMPLETION COSTS

Name: AFE #: County: State: Mulva Fed Com #212H

0 Lea

Date: February 22, 20 MD/TVD: 20460 / 12400 Lateral Length: 7610 Geologic Target: Wolfcamp A

INTANGIBLE PRODUCTION COSTS

Well Description:

INTANGIBLE DRILLING COSTS

Drill, complete, and equip a horizontal Wolfcamp A well with a 7610 foot lateral.

140	***	INTANGIBLE DRILLING COSTS				INTANGIBLE COMPLETION COST				INTANGIBLE PRODUCTION COSTS	
1	T CODE		AMOUNT		OST COL		AMOUNT		OST CO		AMOUNT
1	_	Land - Legal	10,000	2	_	Land - Legal		3	_	1 Land - Legal	
1	2	Land - Regulatory	5,000	2		Land - Regulatory		3		2 Land - Regulatory	100
1	3	Land - Surface Damages	20,000	2	3	Land - Surface Damages		3		3 Land - Surface Damages	
1	4	Land - Survey	10,000	2	4	Land - Survey		3	1	4 Land - Survey	
1	5	Location/Pit Construction	140,000	2	5	Location/Pit Construction		3		Location/Pit Construction	5,000
1	6	Remedial Dirtwork	0	2	6	Remedial Dirtwork		3		Remedial Dirtwork	
1	7	Reserve/Frac Pit Closing	0	2	7	Reserve/Frac Pit Closing		3		Reserve/Frac Pit Closing	
1	8	Drilling - Contractor	417,831	2		Drilling - Contractor		3			
1	9	Mob/Rig Up - Contractor/Trucking	123,250	2		Mob/Rig Up - Contractor/Trucking		3			
1	10	Cementing Services	123,230	2							
1	11	Cementing Services Cementing Equipment	0			Cementing Services		3		O Cementing Services	
1			0	2		Cementing Equipment		3			
	12	Bits/Drill Out Assemblies	.0	2		Bits/Drill Out Assemblies	35,440	3	1		
1	13	Fluid Circulation Equipment/Services	72,293	2		Fluid Circulation Equipment/Services		3	1	3 Fluid Circulation Equipment/Services	
1	14	Fluids/Chemicals	251,130	2			25,313	3	1	4 Fluids/Chemicals	
1	15	WBM Cuttings/Wastewater Disposal	205,470	2	15	WBM Cuttings/Wastewater Disposal		3	1	5 WBM Cuttings/Wastewater Disposal	
1	16	OBM Cuttings/Chemical Disposal	76,100	2	16	OBM Cuttings/Chemical Disposal		3	1	6 OBM Cuttings/Chemical Disposal	
1	17	Fuel/Power	109,062	2	17	Fuel/Power	225,600	3			
1	18	Water	0	2	18	Water	393,744	3			
1	19	Directional Drilling	176.530	2		Directional Drilling		3			
1	20	Mud Logging	15,356	2		Mud Logging		3			
1	21	Open/Cased/Production Hole Logs	20,030	2							
1	22	Coring	0		_	Open/Cased/Production Hole Logs	8,440	3	_		
1			0	2	_	Coring	_	3			
$\overline{}$	23	Geologic Supervision	0	2		Geologic Supervision		3	2		
1	24	Engineering Supervision	0	2	_	Engineering Supervision		3	2-	4 Engineering Supervision	
1	25	Consultant Supervision	98,156	2		Consultant Supervision	66,000	3	2	5 Consultant Supervision	22,500
1	26	Freight/Transportation	20,000	2	26	Freight/Transportation	2,000	3	21	6 Freight/Transportation	10.000
1	27	Labor	0	2	27	Labor	11,720	3	2		85,000
1	28	Supplies - Surface	2,500	2	28	Supplies - Surface	2,000	3			05/000
1	29	Supplies - Living Quarters	1,000	2		Supplies - Living Quarters	2,000	3	25		
1	30	Rentals - Surface	45,393	2		Rentals - Surface	16,560	3	30		
1	31	Rentals - Living Quarters	25,084	2		Rentals - Living Quarters	12,320	3			
1	32	Rentals - Downhole	23,004	2	_		12,520		33		
1	33	Rentals - Pipe & Handling Tools	0			Rentals - Downhole	0	3	32		
1	34		0	2	33	Rentals - Pipe & Handling Tools	0	3	33		
_		Rentals - Frac Stack		2	34	Rentals - Frac Stack	81,894	3	34		
1	35	Rentals - Frac Tanks		2	35	Rentals - Frac Tanks	28,730	3	35	Rentals - Frac Tanks	
1	36	Coil Tubing Unit/Workover Rig		2		Coil Tubing Unit/Workover Rig	68,190	3	36	Coil Tubing Unit/Workover Rig	83,400
1	37	Wireline/Slickline/Perforating		2	37	Wireline/Slickline/Perforating	205,898	3	37		
1	38	Temporary Packers/Plugs		2	38	Temporary Packers/Plugs	31,200	3	38		7
1	39	High Pressure Pump Truck		2	39	High Pressure Pump Truck	46,640	3	39		
1	40	Stimulation		2	40	Stimulation	1,360,328	3	40		
1	41	Rentals - Pressure Control		2	41	Rentals - Pressure Control	1,300,300	3	41		
1	42	Flowback Services		2	42	Flowback Services	41,231	3	-	names Tressare control	
1	43	Water Transfer Services		2	43	Water Transfer Services			42		52,500
1	44	Flowback Water Trucking & Disposal		2	44		63,600	3	43		
1					_	Flowback Water Trucking & Disposal	10,649	3	44		30,002
1	45	Permanent Equipment Installation		2	45	Permanent Equipment Installation		3	45		
	46	Pipeline Tapping Services		2	46	Pipeline Tapping Services		3	46	Pipeline Tapping Services	
1	47	Plugging & Abandonment	0	2	47	Plugging & Abandonment		3	47		
1	53	Overhead	8,406	2	53	Overhead	13,715	3	53		5,500
1	54	Insurance	35,828	2	54	Insurance		3	54		
1	55	Contingency	93,470	2		Contingency	103,653	3	55		21 140
		TOTAL INTANGIBLE DRILLING COSTS:	\$1,962,860			TOTAL INTANGIBLE COMPLETION COSTS			- 33		21,210
			74/202/000			TO THE INTENDIBLE COMPLETION COSTS	\$2,856,864			TOTAL INTANGIBLE PRODUCTION COSTS:	\$315,042
		TANGIBLE DRILLING COSTS				TANGIBLE COMPLETION COSTS				TANGIBLE PRODUCTION COSTS	
COST		DESCRIPTION	AMOUNT	cos	T CODE	DESCRIPTION	AMOUNT	COS	T COD		AMOUNT
4	60	Conductor Casing	0	5	60	Conductor Casing		6	60		Amount
4	61	Surface Casing	42,599	5	61	Surface Casing		6	61		
4	62	1st Intermediate Casing	153,263	5	62	1st Intermediate Casing		6			
4	63	2nd Intermediate Casing	346,517	5	63	2nd Intermediate Casing			62		
4	64	Production Casing	381,012	5				6	63		
4	65	Tubing	381,012		64	Production Casing	0	6	64		
4				5	65	Tubing		6	65		50,000
	66	Wellhead	0	5	66	Wellhead	0	6	66	Wellhead	43,500
4	67	Permanent Packers/Hangers/Plugs		5	67	Permanent Packers/Hangers/Plugs		6	67	Permanent Packers/Hangers/Plugs	10,000
4	68	Tanks		5	68	Tanks		6	68		
4	69	Production Vessels		5	69	Production Vessels		6	69		107,000
4	70	Compressors		5	70	Compressors		6	70		207,000
4	71	Surface Flowlines		5	71	Surface Flowlines		6	71		En pro
4	72	Gathering Lines		5	72	Gathering Lines		6	72		50,000
4	73	Valves & Controllers		5	73						10,000
					73	Valves & Controllers		6	73	Valves & Controllers	
		Artificial Lift Equipment			74	Antificial Life Paulaneau					
4	74 75	Artificial Lift Equipment Instrumentation & Measurement		5	74	Artificial Lift Equipment Instrumentation & Measurement		6	74 75	Artificial Lift Equipment Instrumentation & Measurement	15,000

5 81 Other - Downhole

5 75 Instrumentation & Measurement 5 76 Electrical Grounding/Safety Equipn 5 77 Permanent Equipment Installation 5 80 Other - Surface

76 Electrical Grounding/Safety Equipment

TOTAL TANGIBLE COMPLETION COSTS:

TOTAL COMPLETION COSTS: \$2,856,864

TAP ROCK RESOURCES COMPANY APPROVAL: __ VP - EXPLORATION _ __ VP - OPERATIONS __ VP - LAND & LEGAL _ SENIOR GEOLOGIST

TOTAL DRILLING COSTS: \$2,886,250

\$923,391

4 75 Instrumentation & Measurement
4 76 Electrical Grounding/Safety Equipment
4 77 Permanent Equipment Installation

TOTAL TANGIBLE DRILLING COSTS:

4 80 Other - Surface 4 81 Other - Downhole

	NON OPERATING PARTNER APPROVAL:	
	COMPANY NAME:	
SIGNED BY:	TITLE:	_
WORKING INTEREST (%):	DATE:	_
TAX ID:	APPROVAL:	

6 81 Other - Downhole

6 75 Instrumentation & Measurement

6 76 Electrical Grounding/Safety Equipment 6 77 Permanent Equipment Installation 6 80 Other - Surface

TOTAL TANGIBLE PRODUCTION COSTS: \$285,500

TOTAL WELL COST: \$6,343,656

TOTAL PRODUCTION COSTS:

602 Park Point Dr, Golden, Colorado 80401 Authorization For Expenditure

Name: Mulva Fed Com #215H

AFE #: 0
County: Lea
State: NM

Well Description:

Date: February 22, 2
MD/TVD: 20445 / 12385
Lateral Length: 7610
Geologic Target: Wolfcamp A

Drill, complete, and equip a horizontal Wolfcamp A well with a 7610 foot lateral.

INTANGIBLE DRILLING COSTS INTANGIBLE COMPLETION COSTS INTANGIBLE PRODUCTION COSTS COST CODES COST CODES DESCRIPTION Land - Legal Land - Legal 3 1 Land - Legal Land - Regulatory Land - Regulatory 3 2 Land - Regulatory 1 3 Land - Surface Damages Land - Surface Damages 3 Land - Surface Damages 4 Land - Survey 4 Land - Survey 4 Land - Survey 1 5 Location/Pit Construction Location/Pit Construction Location/Pit Construction 1 6 Remedial Dirtwork 2 6 Remedial Dirtwork 3 6 Remedial Dirtwork 1 7 Reserve/Frac Pit Closing 7 Reserve/Frac Pit Closing 3 7 Reserve/Frac Pit Closing 8 Drilling - Contractor 418,174 2 8 Drilling - Contractor 3 8 Drilling - Contractor 9 Mob/Rig Up - Contractor/Trucking 9 Mob/Rig Up - Contractor/Trucking 123,250 3 9 Mob/Rig Up - Contractor/Trucking 10 Cementing Services 10 Cementing Services 10 Cementing Services 1 11 Cementing Equipment 11 Cementing Equipment 3 11 Cementing Equipment 12 Bits/Drill Out Assemblies 12 Bits/Drill Out Assemblies 3 12 Bits/Drill Out Assemblies 13 Fluid Circulation Equipment/Services 14 Fluids/Chemicals 13 Fluid Circulation Equipment/Services 3 13 Fluid Circulation Equipment/Services 251,130 2 14 Fluids/Chemicals 14 Fluids/Chemicals 25,31 15 WBM Cuttings/Wastewater Disposal 2 15 WBM Cuttings/Wastewater Disposal 3 15 WBM Cuttings/Wastewater Disposal 1 16 OBM Cuttings/Chemical Disposal OBM Cuttings/Chemical Disposal 3 16 OBM Cuttings/Chemical Disposal 17 Fuel/Power 2 17 Fuel/Power 109,130 3 17 Fuel/Power 1 18 Water 2 18 Water 3 18 Water 393,89 19 Directional Drilling 176,673 2 19 Directional Drilling 3 19 Directional Drilling 2 20 Mud Logging 2 21 Open/Cased/Production Hole Logs 1 20 Mud Logging 3 20 Mud Logging 21 Open/Cased/Production Hole Logs 8,44 21 Open/Cased/Production Hole Logs 1 22 Coring 22 Coring 22 Coring 23 Geologic Supervision 2 23 Geologic Supervision 23 Geologic Supervision 24 Engineering Supervision 24 Engineering Supervision 3 24 Engineering Supervision 25 Consultant Supervision 2 25 Consultant Supervision 98,217 25 Consultant Supervision 66,00 22,50 1 26 Freight/Transportation 2 26 Freight/Transportation 26 Freight/Transportation 1 27 Labor 27 Labor 3 27 Labor 28 Supplies - Surface 2 28 Supplies - Surface 2,000 3 28 Supplies - Surface 1 29 Supplies - Living Quarters 2 29 Supplies - Living Quarters 3 29 Supplies - Living Quarters 2,00 1 30 Rentals - Surface 45,43 2 30 Rentals - Surface 3 30 Rentals - Surface 1 31 Rentals - Living Quarters 2 31 Rentals - Living Quarters 3 Rentals - Living Quarters 12,320 32 Rentals - Downhole 2 32 Rentals - Downhole 3 32 Rentals - Downhole 1 33 Rentals - Pipe & Handling Tools 2 33 Rentals - Pipe & Handling Tools 3 Rentals - Pipe & Handling Tools Rentals - Frac Stack 2 34 Rentals - Frac Stack 34 Rentals - Frac Stack 35 Rentals - Frac Tanks 35 Rentals - Frac Tanks 28,730 3 Rentals - Frac Tanks 36 Coil Tubing Unit/Workover Rig 2 36 Coil Tubing Unit/Workover Rig 36 Coil Tubing Unit/Workover Rig 83,40 37 Wireline/Slickline/Perforating 1 37 Wireline/Slickline/Perforating 3 37 Wireline/Slickline/Perforating 38 Temporary Packers/Plugs 2 38 Temporary Packers/Plugs 3 38 Temporary Packers/Plugs
 1
 39
 High Pressure Pump Truck

 1
 40
 Stimulation
 43,407 2 39 High Pressure Pump Truck 46,640 3 39 High Pressure Pump Truck 3 40 Stimulation 2 40 Stimulation 1,336,64 1 41 Rentals - Pressure Control 2 41 Rentals - Pressure Control 3 41 Rentals - Pressure Control 1 42 Flowback Services 2 42 Flowback Services 41,231 3 42 Flowback Services 52,500 1 43 Water Transfer Services 2 43 Water Transfer Services 3 43 Water Transfer Services 1 44 Flowback Water Trucking & Disposal 44 Flowback Water Trucking & Disposal 10,649 3 44 Flowback Water Trucking & Disposal 30,002 1 45 Permanent Equipment Installation 45 Permanent Equipment Installation 2 45 Permanent Equipment Installation 1 46 Pipeline Tapping Services 46 Pipeline Tapping Services 3 46 Pipeline Tapping Services 1 47 Plugging & Abandonment 2 47 Plugging & Abandonment 47 Plugging & Abandonment 1 53 Overhead 2 53 Overhead 8,413 13,71 3 53 Overhead 54 Insurance 36,801 2 54 Insurance 54 Insurance 1 55 Contingency 2 55 Contingency 3 55 Contingency 104.216 TOTAL INTANGIBLE DRILLING COSTS: \$1,963,620 TOTAL INTANGIBLE COMPLETION COSTS: \$2,856,864 TOTAL INTANGIBLE PRODUCTION COSTS:

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

TOTAL TANGIBLE DRILLING COSTS:

cos	T 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	
5	65	Tubing	
5	66	Wellhead	
5	67	Permanent Packers/Hangers/Plugs	
5	68	Tanks	
5	69	Production Vessels	
5	70	Compressors	
5	71	Surface Flowlines	
s	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

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
6	66	Wellhead	43
6	67	Permanent Packers/Hangers/Plugs	10
6	68	Tanks	
6	69	Production Vessels	107
6	70	Compressors	
6	71	Surface Flowlines	50
6	72	Gathering Lines	10
6	73	Valves & Controllers	
6	74	Artificial Lift Equipment	15,
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 F43

TOTAL PRODUCTION COSTS: \$600,542

TOTAL WELL COST: \$6,343,656

CEO	VA EVALOR (TO)	
CEO	VP - EXPLORATION	
CFO	VP - OPERATIONS	
ND & LEGAL	SENIOR GEOLOGIST	

TOTAL DRILLING COSTS: \$2,886,250

\$922,630

	NON OPERATING PARTNER APPROVAL:	
	COMPANY NAME:	
SIGNED BY:	TITLE:	
WORKING INTEREST (%):	DATE:	
TAX ID:	APPROVAL:	

602 Park Point Dr, Golden, Colorado 80401 Authorization For Expenditure

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

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

NON OPERATING PARTNER APPROVAL:

___ TITLE: __

____ APPROVAL: ____

DATE: ___

COMPANY NAME: ___

WORKING INTEREST (%):

TAX ID:

Well Description:

Drill, complete, and equip a horizontal Wolfcamp A well with a 7610 foot lateral.

DES	INTANGIBLE DRILLING COSTS DESCRIPTION	AMOUNT		co	ST CODI	INTANGIBLE COMPLETION COST DESCRIPTION	AMOUNT	cc	ST	CODES	INTANGIBLE PRODUCTION COSTS DESCRIPTION	AMOUNT
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						Land - Survey		3		4	Land - Survey	
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		0		2	6	Remedial Dirtwork		3	Т	6	Remedial Dirtwork	
		0		2	7	Reserve/Frac Pit Closing		3	Т	7	Reserve/Frac Pit Closing	
В	Drilling - Contractor	417,831		2	8	Drilling - Contractor						
9	Mob/Rig Up - Contractor/Trucking	123,250		2	9							
0	Cementing Services	0		2								
1	Cementing Equipment	0		2								
		0					25 340					-
3	Fluid Circulation Equipment/Services						32,440					
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							25,315					

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		15,356							╀			
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_						Wireline/Slickline/Perforating	205,898	3		37	Wireline/Slickline/Perforating	
				2	38	Temporary Packers/Plugs	31,200	3	Г	38		
				2	39	High Pressure Pump Truck	46,640		-			
S	Stimulation		Γ	2	40							
R	Rentals - Pressure Control						1,500,327					-
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					53	Overhead	13,715	3		53	Overhead	
		36,828			54	Insurance		3		54	Insurance	
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	TOTAL INTANGIBLE DRILLING COSTS:	\$1,962,860				TOTAL INTANGIBLE COMPLETION COSTS	\$2.856.864					110000000000000000000000000000000000000
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Pre Co Su Va Ar Ins Ele Pre	ermanent Packers/Hangers/Plugs and and to Vessels ompressors urface Flowlines athering Lines athering Lines solves & Controllers rificial Lift Equipment strumentation & Measurement extrial Grounding/Safety Equipment ermanent Equipment installation	0		5 5 5 5 5 5 5	68 69 70 71 72 73 74 75 76	Tanks Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement		6 6 6 6 6 6 6 6	77 77 77 77 77 77 77 77 77 77 77 77 77	58 59 70 71 72 73 74 75 16	Tanks Compressors Surface Flowlines Jathering Lines Jakes & Controllers Authority Life Equipment Strumentation & Measurement Jectrical Grounding/Safety Equipment	107 50 10
Pre Co Su Va Ar Ins Ele Pre	ermanent Packers/Hangers/Plugs notice production Vessels compressors urface Flowlines athering Lines alves & Controllers urflicial full Equipment strumentation & Measurement ectrical Grounding/Safety Equipment	0		5 5 5 5 5 5 5 5 5	68 69 70 71 72 73 74 75 76	Tanks Compressors Surface Flowlines Gathering Lines Valves & Controllers Artificial Lift Equipment Instrumentation & Measurement Electrical Grounding/Safety Equipment Permanent Equipment Installation		6 6 6 6 6 6 6 6	77 77 77 77 77 77 77 77 77 77 77 77 77	58 59 70 71 72 73 74 75 76 87 77	Tanks Production Vessels Compressors Surface Flowlines Sathering Lines Artificial Lift Equipment strumentation & Measurement Electrical Grounding/Safety Equipment Fernanent Equipment Installation	107 50 10
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5 6 7 8 9 0 1 2 3 4 5 6 7 8		Land - Regulatory Land - Surface Damages Land - Survey Location/Pit Construction Remedial Dirtwork Reserve/Frac Pit Closing Drilling - Contractor Mob/Rig Up - Contractor/Trucking Cementing Services Cementing Equipment Bits/Drill Out Assemblies Fluid Circulation Equipment/Services Fluids/Chemicals WBM Cuttings/Vastewater Disposal OBM Cuttings/Chemical Disposal Fuel/Power Water Directional Drilling Mud Logging Open/Cased/Production Hole Logs Coring Geologic Supervision Engineering Supervision Engineering Supervision Consultant Supervision Treight/Transportation Labor Supplies - Surface Supplies - Living Quarters Rentals - Downhole Rentals - Frac Tanks Coll Tubing Unit/Workover Rig Wireline/Sickline/Perforating Temporary Packers/Plugs High Pressure Pump Truck Stimulation Rentals - Pressure Control Flowback Services Flowback Water Tracking & Disposal Permanent Equipment Installation Pipeline Tapping Services Flowback Water Trucking & Disposal Permanent Equipment Installation Pipeline Tapping Services Flowback Water Trucking & Disposal Permanent Equipment Installation Pipeline Tapping Services Flowback Water Trucking & Disposal Permanent Equipment Installation Pipeline Tapping Services Flowback Water Trucking & Disposal Permanent Equipment Installation Pipeline Tapping Services Flowback Water Trucking & Disposal Permanent Equipment Installation Pipeline Tapping Services Flowback Water Trucking & Disposal Permanent Equipment Installation Pipeline Tapping Services Flowback Water Trucking & Disposal Permanent Equipment Installation Pipeline Tapping Services Contingency TOTAL INTANGIBLE DRILLING COSTS	Land - Regulatory 5.000 Land - Surface Damages 7.0000 Land - Surface Damages 7.0000 Land - Surface Damages 7.0000 Land - Survey 7.0000 Location/Pit Construction 1.40,000 Remedial Dirtwork 7.0000 Reserve/Frac Pit Closing 7.0000 Dirlling - Contractor 7.0000 Dirlling - Contractor 7.0000 Cementing Services 7.0000 Cementing Equipment 8.000 Cementing Equipment 9.000 Dirlling - Contractor 7.0000 Dirlling 1.0000 Dirlling 1.00000 Dirlling 1.0000 Dirlling 1.00	Land - Regulatory Land - Surface Damages Land - Survey Land - Survey Location/Pit Construction Remedial Dirtwork Reservel/Frac Pit Closing Dirling - Contractor Reservel/Frac Pit Closing Dirling - Contractor Albo/Rig Up - Contractor/Trucking Cementing Services Tituds/Chemical Sits/Dirli Out Assemblies Coring Count Services Count S	Land - Regulatory	Land - Regulatory	Land - Surface Damages 20,000 Land - Surface Damages 20,000 Land - Surrey 10,000 Location/Pit Construction 10,000 Reserve/Frac Pit Closing 0 Reserve/Frac Pit Closing 0 Reserve/Frac Pit Closing 0 Reserve/Frac Pit Closing 0 Drilling - Contractor 417,811 Mob/Rig Up - Contractor / 147,811 Mob/Rig Up - Contractor / 147,	Land - Regulatory	Land - Surface Damages	Land - Surface Damages	Land - Survey	Land - Survey

TAP ROCK RESOURCES COMPANY APPROVAL:

______ VP - OPERATIONS ___

SENIOR GEOLOGIST

__ VP - EXPLORATION __

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 monoclinal 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 monoclinal 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.
- 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.
 - 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 northwestsoutheast.
- 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.

FI	JRTHER	AFFIANT	SAYETH	NAUGHT
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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

Notary Public

My Commission expires 10.4.2022

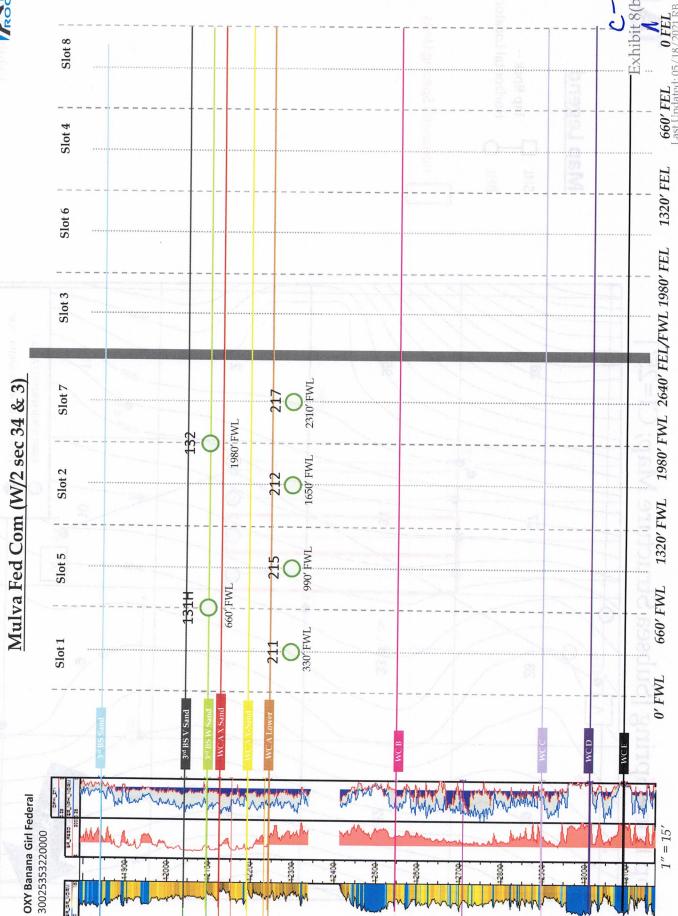


660' FEL Last Updated: 07/22/2020 RB Slot 8 Slot 4 1320' FEL Slot 6 1320' FWL 1980' FWL 2640' FWL/FEL 1980' FEL Slot 3 Slot 7 Mulva Fed Com (W/2 sec 34 & 3) 1980'FWL 117 Slot 2 Slot 5 960' FWL 660'FWL 111 Slot 1 O' FWL **OXY Banana Girl Federal** 30025353220000 9800 0000 40100 10400 10300 10600 41200 41100 11000

Bone Spring Target Zone Development



Wolfcamp Target Zone Development





Tap Rock – Horizontal Locator

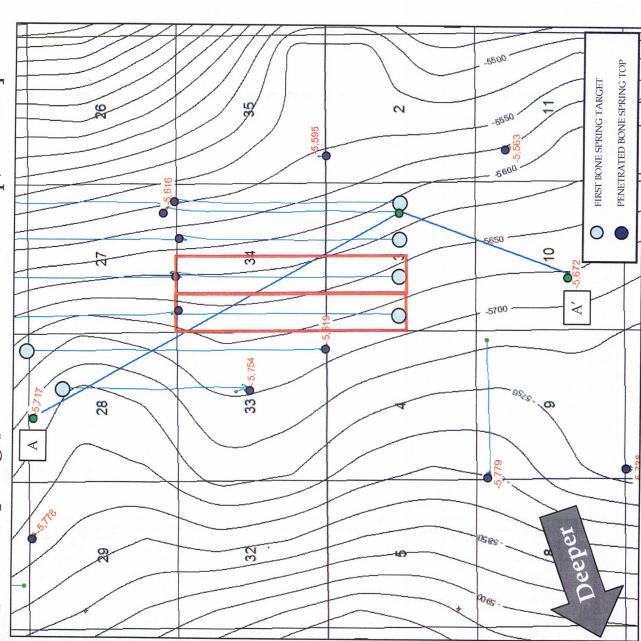
SHL

BHL

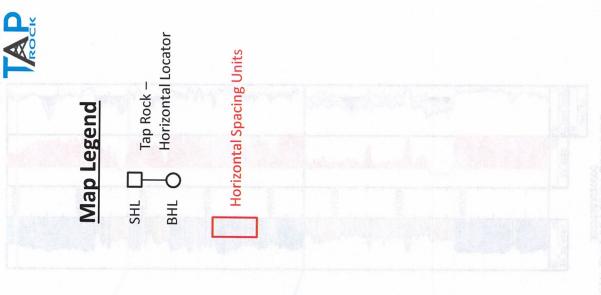
Map Legend

Horizontal Spacing Units

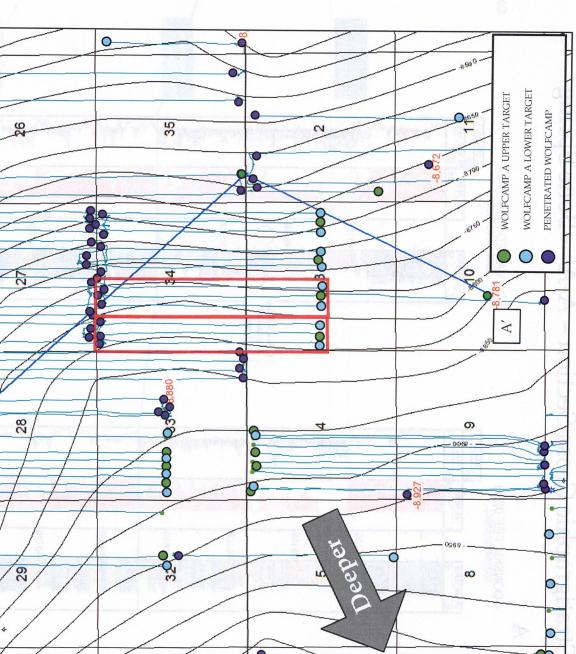








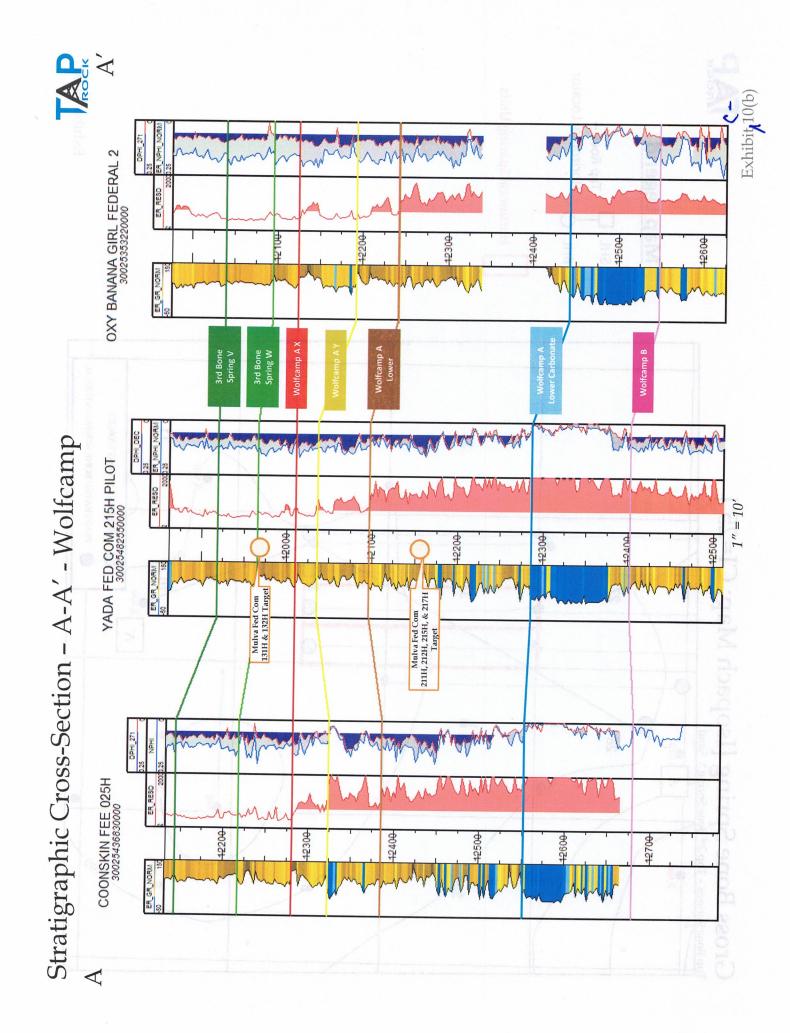




Top Wolfcamp [Subsea Structure Map; CI=25']

OXY BANANA GIRL FEDERAL 2 30025353220000 ER RESD 40204 40404 40504 2nd Bone Spring Carbonate First Bone Spring Sand Stratigraphic Cross-Section - A-A' - Bone Spring MULVA FED COM 214H 30025478330000 1'' = 10'Mulva Fed Com 111H & 112H Target ER, RESD 2000 COONSKIN FEE 025H 40204 40900 ER GR NORM

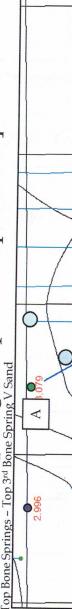
ROCK







Top Bone Springs - Top 3rd Bone Spring V Sand







SHL

26

27

28

29

Stop

BHL

Horizontal Spacing Units

35

3

33

3100

N



PENETRATED BONE SPRING INTERVAL

FIRST BONE SPRING TARGET

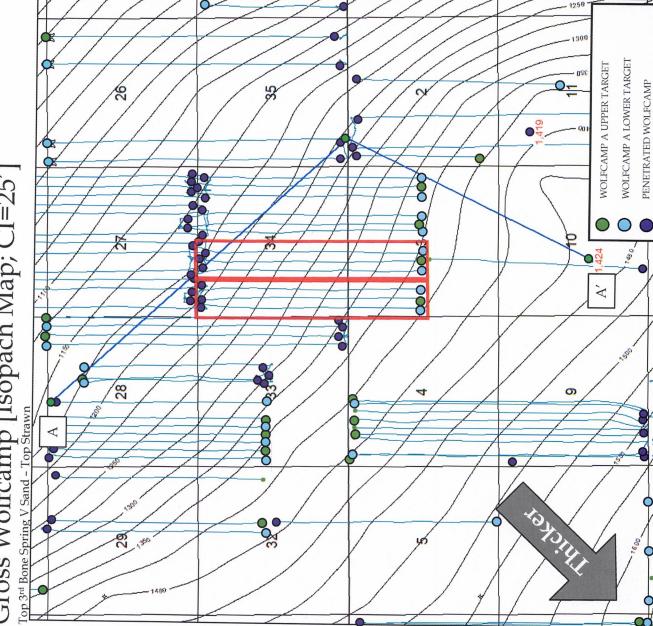
A'

- 3125

 ∞







Map Legend

SHL

BHL

Tap Rock – 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

<u>SELF-AFFIRMED</u>	STATEMENT	OF	NOTICE	C

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/

James Bruce

EXHIBIT

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.



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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57	For delivery information, v	visit our website	at www.usps.com®.
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	City, State, ZIP+4®		
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	ATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS
Case:	21940
Date	June 3, 2021
Applicant	Tap Rock Resources, LLC
Designated Operator & OGRID	Tap Rock Operating, LLC/OGRID No. 372043
(affiliation if applicable)	The operator is the operating entity for applicant
Applicant's Counsel:	James Bruce
Case Title:	Application of Tap Rock Resources, LLC for Compulsory Pooling, Le
	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
	240 acres
	40 acres
Orientation:	North-South
Description: TRS/County	E/2W/2 §34-24S-35E and E/2NW/4 §3-25S-35E, NMPM, Lea Count
Standard Horizontal Well Spacing Unit Y/N), If No, describe	Yes
Other Situations	
Depth Severance: Y/N. If yes, description	No
–	No
Proximity Defining Well: if yes,	EXHIBIT 9
11 1 -	Exhibits B-3 and B-4
Vell(s)	
	Mulva Fed. Com. Well No. 132H
	API No. 30-025-47743
ompletion target, orientation,	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
F	Formation: Wolfbone/TVD 12236 feet/MD 2029

	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 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
Horizontal Well First and Last Take	See above
Points Completion Target (Formation, TVD and	See Above
MD)	
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	4
days before hearing)	
Ownership Determination	
Land Ownership Schematic of the	
Spacing Unit	Exhibit B-2
Tract List (including lease numbers and owners)	
Pooled Parties (including ownership	Exhibits B-3 and B-4
type)	Evhikit D. 4
Unlocatable Parties to be Pooled	Exhibit B-4
Ownership Depth Severance (including	
percentage above & below)	None
Joinder	INOTIC
Sample Copy of Proposal Letter	Exhibit B-5
List of Interest Owners (i.e. Exhibit A of	EATHER D-J
JOA)	Exhibit B- 4
	The state of the s
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

ALL INFORMATION IN THE APPLIC	CATION 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

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

(Y/N), If No, describe	Yes
Other Situations	
Depth Severance: Y/N. If yes, description	No
Proximity Tracts: If yes, description	No

\A/oll/o\		
Applicant's Ownership in Each Tract	Exhibits B-3 and B-4	
description		
Proximity Defining Well: if yes,		

Name & API (if assigned), surface and	Mulva Fed. Com. Well No. 112H	
bottom hole location, footages,	API No. 30-025-47740	
completion target, orientation,	SHL: 210 FSL & 2126 FWL §27-24S-35E	
completion status (standard or non-	BHL: 2638 FSL & 1980 FWL §3	
standard)	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	See above	
Points		

See Above

Completion Target (Formation, TVD and

MD)

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	COST + 20070/ EXHIBIT D Page 3
Proposed Notice of Hearing	Evhilia A
Proof of Mailed Notice of Hearing (20	Exhibit A
days before hearing)	FIRE
	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	Full this B
Overhead Rates In Proposal Letter	Exhibit B
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-9
	LAHIDIL C-0

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 S	CLIDDODTED DV CLONIED A FELD AV 1170
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	DUFFURIED DI SIGNED AFFIDAVIIS

Case:	21950
Date	June 3, 2021
Applicant	Tap Rock Resources, LLC
Designated Operator & OGRID	Tap Rock Operating, LLC/OGRID No. 372043
(affiliation if applicable)	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 Count
Standard Horizontal Well Spacing Unit	Yes
(Y/N), If No, describe	
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	Mulva Fed. Com. Well No. 131H
bottom hole location, footages,	API No. 30-025-47342
completion target, orientation,	SHL: 483 FSL & 656 FWL §27-24S-35E
completion status (standard or non-	BHL: 2638 FSL & 658 FWL §3
standard)	FTP: 100 FNL & 660 FWL §34
	LTP: 2572 FNL & 658 FWL §3
	Formation: Wolfbone/TVD 12242 feet/MD 20302 feet

	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 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
Horizontal Well First and Last Take	See above
Points	
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	SOSE : 20070, EXHIBIT D page 3
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 Convert Discount Living	
Sample Copy of Proposal Letter	Exhibit B-5
List of Interest Owners (<i>i.e.</i> Exhibit A of JOA)	
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

ALL INFORMATION IN THE APPLICA	ATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS
Case:	21951
Date	June 3, 2021
Applicant	Tap Rock Resources, LLC
Designated Operator & OGRID	Tap Rock Operating, LLC/OGRID No. 372043
(affiliation if applicable)	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	quarter quarter sections/ 10 deles
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	Yes
(Y/N), If No, describe	
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)	Extribites by Strike Big
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	Formation: First Bone Spring/TVD 10370 feet/MD 18430 feet 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	Cost 1 20070/ Exhibit b page 5
Proposed Notice of Hearing	Exhibit A
Proof of Mailed Notice of Hearing (20	LAMBIEA
days before hearing)	Exhibit D
Proof of Published Notice of Hearing (10	EXHIBIT D
days before hearing)	
Ownership Determination	
Land Ownership Schematic of the	
Spacing Unit	Evhibit D 2
Tract List (including lease numbers and	Exhibit B-2
owners)	Evhibits P. 2 and P. 4
Pooled Parties (including ownership	Exhibits B-3 and B-4
type)	Eyhibit D 4
Unlocatable Parties to be Pooled	Exhibit B-4
Ownership Depth Severance (including percentage above & below)	News
Joinder	None
Sample Copy of Proposal Letter	Exhibit B-5
List of Interest Owners (i.e. Exhibit A of JOA)	
JOA)	Exhibit B- 4
Chronology of Contact with Non-Joined	
Working Interests	Exhibit B
Overhead Rates In Proposal Letter	EXHIBIT D
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	EXIIIDIL B-3
Summary (including special	
considerations)	Evhikit C
Spacing Unit Schematic	Exhibit C
Gunbarrel/Lateral Trajectory Schematic	Exhibit C-9
Well Orientation (with rationale)	Exhibit C-8
Target Formation	Standup/Exhibit C
HSU Cross Section	First Bone Spring
	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
	Exhibit C-7
Well Bore Location Map	Exhibit C-9
General Location Map (including basin) Well Bore Location Map Structure Contour Map - Subsea Depth Cross Section Location Map (including	

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