Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

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

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

CONDITIONS OF APPROVAL FOR APD EXTENSION

The Approved Application for Permit to Drill (AAPD) expires if only conductor or surface casing has been set, and the well is not being diligently drilled at the expiration date of the extension.

The APD extension is granted for a 2-year period, not exceed 4 years from the approval of the APD.

Additional Information

Batch Well Data

JUNIOR MINT FED 111H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 112H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 121H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 122H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 131H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 132H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 135H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 137H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 151H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 152H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 211H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 212H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 215H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 217H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609,

Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 221H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 222H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 113H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 133H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 213H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 117H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 118H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 123H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 124H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 134H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 138H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 156H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 158H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 214H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 216H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 218H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 223H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

JUNIOR MINT FED 224H, US Well Number: null, Case Number: NMNM101609, Lease Number: NMNM101609, Operator:CIVITAS PERMIAN OPERATING LLC

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB
No. 1004-0137 Expires:
December 31, 2024

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMNM101609

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

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

8. Well Name and No. Multiple - See Attached

2. Name of Operator CIVITAS PERMIAN OPERATING, LLC (OGRID: 332195)

9. API Well No.

3a. Address 555 17th Street, Suite 3700, Denver, CO 80202

3b. Phone No. *(include area code)* (303) 293-9100

10. Field and Pool or Exploratory Area WC-02 H-08 S253534O/BONE SPRING

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* Multiple - See Attached

11. Country or Parish, State LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	**SUCCESSOR OPERATOR**
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

This is notification that CIVITAS PERMIAN OPERATING, LLC is taking over operations of the wells referenced in Appendix A (Lea County, NM).

CIVITAS PERMIAN OPERATING, LLC, as new operator, accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portions thereof as described below:

Bond Coverage: BLM Bond Number: NMB106332702

Change of Operator Effective: 01/30/2025

Former Operator: Tap Rock Operating, LLC (OGRID: 372043)

See Conditions of Approval

Connor Wood, EVP
Tap Rock Operating, LLC

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* Nathan S. Bennett

Title Director, Permitting & Compliance

Signature

Date 02/26/2025

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by JENNIFER SANCHEZ

Digitally signed by JENNIFER SANCHEZ
Date: 2025.03.03 05:39:54 -07'00'

Title Petroleum Engineer

Date 03/03/2025

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office RFO

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

APPENDIX A						
Lease Number	Legal Description	API Number	Well Name	Producing Reservoir	County	State
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 111H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 112H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 113H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 117H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 118H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 121H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 122H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 123H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 124H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 131H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 132H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 133H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 134H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 135H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 137H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 138H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 151H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 152H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 156H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 158H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 211H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 212H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 213H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 214H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 215H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 216H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 217H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 218H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 221H	AAPD	LEA	NM
NMNM101609	T25S R35 SEC 15: NENW	Not Issued	JUNIOR MINT FED 222H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 223H	AAPD	LEA	NM
NMNM101609	T25S R35E SEC 10: SWSE	Not Issued	JUNIOR MINT FED 224H	AAPD	LEA	NM

Change of Operator
Conditions of Approval

1. Tank battery must be bermed/diked (must be able to contain 1 1/2 times the volume of the largest tank) within 90 days.
2. Submit for approval of water disposal method within 60 days, if changes have been made from previously approved disposal method.
3. Review facility diagram on file, and submit updated facility diagrams, as per Onshore Order #3 within 60 day.
4. This agency shall be notified of any spill or discharge as required by NTL-3A.
5. All outstanding environmental issue must be addressed within 90 days. Contact Jim Amos for inspection and to resolve environmental issues. 575-234-5909
6. Install legible well sign on location with operator name, well name and number, lease number, unit number, 1/4 1/4, section, township, and range. NMOCD requires the API number on well signs.
7. Subject to like approval by NMOCD.
8. All Reporting to ONRR (OGOR Reports) must be brought current within 30 days of this approval including any past history.
9. If this well is incapable of producing in paying quantities submit NOI to plug and abandon this well or obtain approval to do otherwise within 90 days.
10. Submit plan for approval of well operations for all TA/SI wells within 30 days of this approval to change operator.
11. If not in place acquire operating rights on this lease within 30 days with BLM office in Santa Fe, NM.

JAM

Form 3160-3
(June 2015)

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM101609

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

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

1c. Type of Completion: ☐ Hydraulic Fracturing ☑ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.:

8. Lease Name and Well No.: JUNIOR MINT FED 211H

2. Name of Operator: TAP ROCK OPERATING LLC

9. API Well No.: 30-025-54741

3a. Address: 602 PARK POINT DRIVE SUITE 200, GOLDEN, CO 8040

3b. Phone No. *(include area code)*: (720) 460-3316

10. Field and Pool, or Exploratory: Dogie Draw; Wolfcamp

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: NENW / 271 FNL / 1401 FWL / LAT 32.1368922 / LONG -103.359407

At proposed prod. zone: SWSW / 5 FSL / 334 FWL / LAT 32.1086279 / LONG -103.3628697

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 15/T25S/R35E/NMP

14. Distance in miles and direction from nearest town or post office*: 9 miles

12. County or Parish: LEA

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 271 feet

16. No of acres in lease:

17. Spacing Unit dedicated to this well: 1280.0

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 25 feet

19. Proposed Depth: 12598 feet / 22881 feet

20. BLM/BIA Bond No. in file: FED:

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3221 feet

22. Approximate date work will start*: 10/01/2022

23. Estimated duration: 90 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature	Name *(Printed/Typed)*	Date
(Electronic Submission)	BRIAN WOOD / Ph: (720) 460-3316	07/01/2022

Title: Permitting Agent

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	CODY LAYTON / Ph: (575) 234-5959	02/08/2023

Title	Office
Assistant Field Manager Lands & Minerals	Carlsbad Field Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 02/08/2023

C-102	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
Submit Electronically Via OCD Permitting		Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-025-54741	17980	DOGIE DRAW; WOLFCAMP

Property Code	Property Name	Well Number
337333	JUNIOR MINT FED	211H

OGRID No.	Operator Name	Ground Level Elevation
332195	CIVITAS PERMIAN OPERATING, LLC	3221'

Surface Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
C	15	25-S	35-E	-	271' N	1401' W	N 32.1368922	W 103.3594070	LEA

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
M	22	25-S	35-E	-	5' S	334' W	N 32.1086279	W 103.3628697	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidated Code
1280.00	-	-	-	-

Order Numbers: -
Well Setbacks are under Common Ownership: ☒ Yes ☐ No

Kick Off Point (KOP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
D	15	25-S	35-E	-	100' N	334' W	N 32.1373681	W 103.3628555	LEA

First Take Point (FTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
D	15	25-S	35-E	-	100' N	334' W	N 32.1373681	W 103.3628555	LEA

Last Take Point (LTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
M	22	25-S	35-E	-	100' S	334' W	N 32.1088890	W 103.3628690	LEA

Unitized Area or Area of Uniform Intrest	Spacing Unity Type	Ground Floor Elevation
-	☒ Horizontal ☐ Vertical	-

OPERATOR CERTIFICATION

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

If this well is a horizontal well, I further certify that this organization has received The consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Cory Walk 4-17-25

Signature Date

Cory Walk

Print Name

cory@permitswest.com

E-mail Address

SURVEYORS CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

RAMON DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

4/16/2025 6:08:00 PM

Signature and Seal of Professional Surveyor Date

Certificate Number

Date of Survey: 05/18/2022

M:\SURVEY\CIVITAS_RESOURCES_INC\LEA\JUNIOR_MNT_UNIT\FINAL_PRODUCTS\7A\PROCK C-102 UPDATES\C-102_JUNIOR_MNT_FED_211H_REV3.dwg\JGREEN 4/16/2025 6:08 PM

C-102

Submit Electronically
Via OCD Permitting

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Revised July 9, 2024

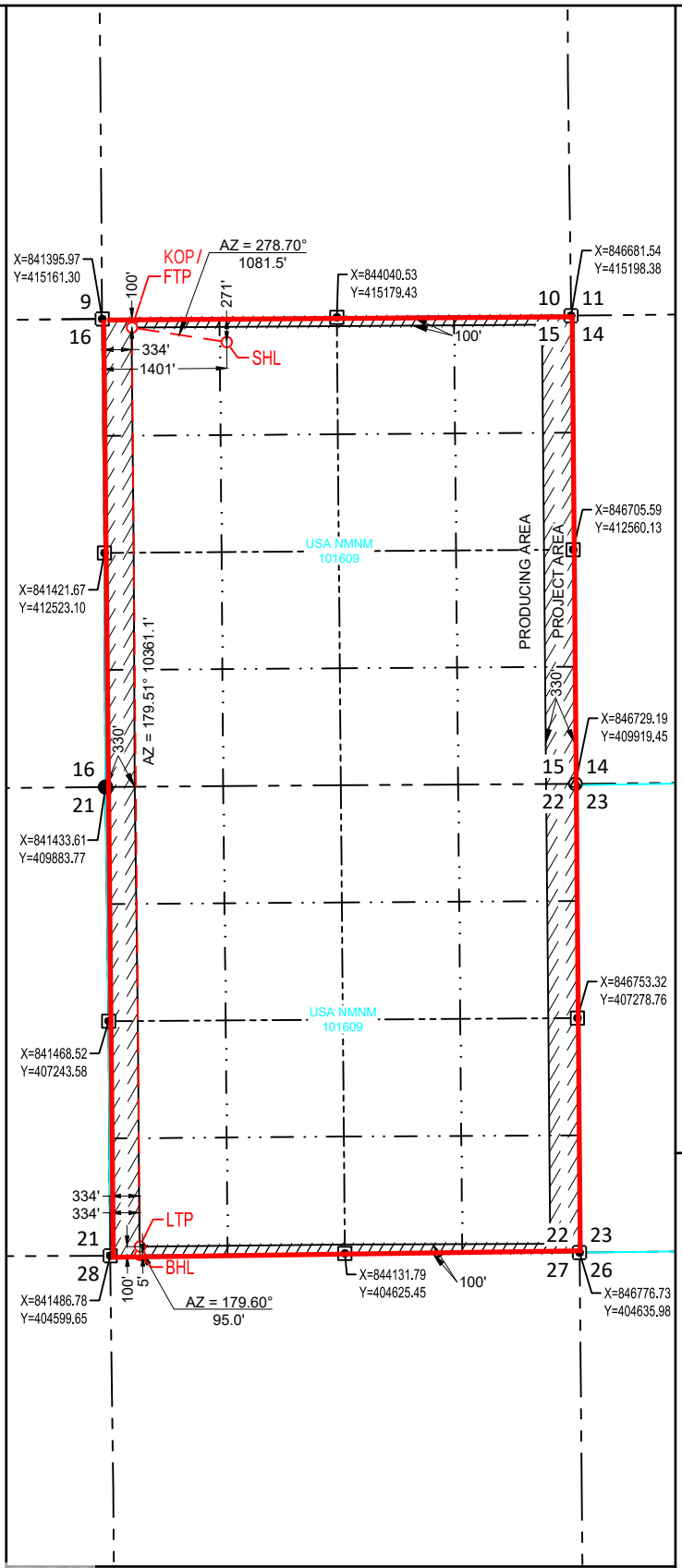
Submittal Type:
- [X] Initial Submittal
- [ ] Amended Report
- [ ] As Drilled

Property Name and Well Number

JUNIOR MINT FED 211H

SURFACE LOCATION (SHL)
NEW MEXICO EAST
NAD 1983
X=842800
Y=414900
LAT.: N 32.1368922
LONG.: W 103.3594070
271' FNL 1401' FWL

KICK OFF POINT (KOP) / FIRST TAKE POINT (FTP)
NEW MEXICO EAST
NAD 1983
X=841731
Y=415064
LAT.: N 32.1373681
LONG.: W 103.3628555
100' FNL 334' FWL



LAST TAKE POINT (LTP)
NEW MEXICO EAST
NAD 1983
X=841820
Y=404703
LAT.: N 32.1088890
LONG.: W 103.3628690
100' FSL 334' FWL

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST
NAD 1983
X=841821
Y=404608
LAT.: N 32.1086279
LONG.: W 103.3628697
5' FSL 334' FWL

SURVEYORS CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

05/18/2022
Date of Survey
Signature and Seal of Professional Surveyor:

4/16/2025 6:08:07 PM

M:\SURVEY\CVITAS_RESOURCES_INC\LEA\JUNIOR_MINT_UNIT\FINAL_PRODUCTS\XPROCK C-102 UPDATES\C-102_JUNIOR_MINT_FED_211H_REV3.dwg LIRENA 4/16/2025 6:08 PM

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: CIVITAS PERMIAN OPERATING, LLC **OGRID:** 332195 **Date:** 04/17/2025

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
SEE ATTACHED						

IV. Central Delivery Point Name: JUNIOR MINT CTB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
SEE ATTACHED						

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Cory Walk
Printed Name: Cory Walk
Title: Consultant
E-mail Address: cory@permitswest.com
Date: 04/17/2025
Phone: (505) 466-8120

OIL CONSERVATION DIVISION **(Only applicable when submitted as a standalone form)**
Approved By:
Title:
Approval Date:
Conditions of Approval:

III. Well(s): Junior Mint W2 Pad

Well Name	API	ULSTR	Footages	Anticipated Oil (BBL/D)	Anticipated Gas (MCF/D)	Anticipated Produced Water (BBL/D)
Junior Mint Fed 111H	TBD	C-15-25S-35E	472' FNL/1604' FWL	620	800	960
Junior Mint Fed 112H	TBD	C-15-25S-35E	472' FNL/1629' FWL	620	800	960
Junior Mint Fed 121H	TBD	C-15-25S-35E	447' FNL/1605' FWL	620	800	960
Junior Mint Fed 122H	TBD	C-15-25S-35E	447' FNL/1630' FWL	620	800	960
Junior Mint Fed 131H	TBD	C-15-25S-35E	296' FNL/1401' FWL	620	800	960
Junior Mint Fed 132H	TBD	C-15-25S-35E	297' FNL/1506' FWL	620	800	960
Junior Mint Fed 135H	TBD	C-15-25S-35E	296' FNL/1426' FWL	620	800	960
Junior Mint Fed 137H	TBD	C-15-25S-35E	297' FNL/1531' FWL	620	800	960
Junior Mint Fed 151H	TBD	C-15-25S-35E	472' FNL/1499' FWL	620	800	960
Junior Mint Fed 152H	TBD	C-15-25S-35E	472' FNL/1524' FWL	620	800	960
Junior Mint Fed 211H	TBD	C-15-25S-35E	271' FNL/1401' FWL	620	800	960
Junior Mint Fed 212H	TBD	C-15-25S-35E	272' FNL/1506' FWL	620	800	960
Junior Mint Fed 215H	TBD	C-15-25S-35E	271' FNL/1426' FWL	620	800	960
Junior Mint Fed 217H	TBD	C-15-25S-35E	272' FNL/1531' FWL	620	800	960
Junior Mint Fed 221H	TBD	C-15-25S-35E	447' FNL/1500' FWL	620	800	960
Junior Mint Fed 222H	TBD	C-15-25S-35E	447' FNL/1525' FWL	620	800	960

V. Anticipated Schedule: Junior Mint W2 Pad

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Junior Mint Fed 111H	TBD	10/1/2026	12/30/2026	3/30/2027	4/19/2027	5/9/2027
Junior Mint Fed 112H	TBD	10/2/2026	12/31/2026	3/31/2027	4/20/2027	5/10/2027
Junior Mint Fed 121H	TBD	10/4/2026	1/2/2027	4/2/2027	4/22/2027	5/12/2027
Junior Mint Fed 122H	TBD	10/5/2026	1/3/2027	4/3/2027	4/23/2027	5/13/2027
Junior Mint Fed 131H	TBD	7/10/2025	10/8/2025	1/6/2026	1/26/2026	2/15/2026
Junior Mint Fed 132H	TBD	7/18/2025	10/16/2025	1/14/2026	2/3/2026	2/23/2026
Junior Mint Fed 135H	TBD	7/11/2025	10/9/2025	1/7/2026	1/27/2026	2/16/2026
Junior Mint Fed 137H	TBD	7/19/2025	10/17/2025	1/15/2026	2/4/2026	2/24/2026
Junior Mint Fed 151H	TBD	7/9/2025	10/7/2025	1/5/2026	1/25/2026	2/14/2026
Junior Mint Fed 152H	TBD	7/16/2025	10/14/2025	1/12/2026	2/1/2026	2/21/2026
Junior Mint Fed 211H	TBD	7/12/2025	10/10/2025	1/8/2026	1/28/2026	2/17/2026
Junior Mint Fed 212H	TBD	7/20/2025	10/18/2025	1/16/2026	2/5/2026	2/25/2026
Junior Mint Fed 215H	TBD	7/14/2025	10/12/2025	1/10/2026	1/30/2026	2/19/2026
Junior Mint Fed 217H	TBD	7/21/2025	10/19/2025	1/17/2026	2/6/2026	2/26/2026
Junior Mint Fed 221H	TBD	7/15/2025	10/13/2025	1/11/2026	1/31/2026	2/20/2026
Junior Mint Fed 222H	TBD	7/23/2025	10/21/2025	1/19/2026	2/8/2026	2/28/2026

Civitas Permian Operating Natural Gas Management Plan

VI. **Separation Equipment:**

Each surface facility design includes the following process equipment: Multiphase test measurement per upstream pad, 3-phase separators, a sales gas scrubber, heater treaters, a VRU compressor, multiple water and oil tanks, as well as flare knockouts (HP & LP), and flares (HP & LP - combined). All process vessels will be sized to separate oil, water, gas based upon typical/historical & predicted well performance. Each process vessel will be fitted with an appropriately sized PSV as per ASME code requirements to mitigate vessel rupture and loss of containment. Additionally, the process vessels will be fitted with pressure transmitters tied to the facility control system which will allow operations to monitor pressures and when necessary, shut in the facility to avoid vessel over-pressure and the potential vent of natural gas. Natural gas will preferentially be sold to pipeline, and only during upset/emergency conditions will gas be directed to the flare system. Aboveground steel oil tanks & water tanks will be fitted with 32 oz thief hatches as well as PRVs to protect the tanks from rupture/collapse. Additionally, the tank vapor outlets will preferentially be directed to the VRU and the sales gas pipeline. Only during process upsets/emergency conditions will tank vapors be directed to the LP flare system.

VII. **Operational Practices:**

- During drilling operations, gas meters will be installed at the shakers and Volume Totalizers will be installed on the pits. In the event that elevated gas levels, or a pit gain are observed, returns will be diverted to a gas buster. Gas coming off the gas buster will be combusted at the flare stack. A 10’ or taller flare will be located at least 100’ from the SHL.

- During completions operations, including stimulation and frac plug drill out operations, hydrocarbon production to surface is minimized. When gas production does occur, gas will be combusted at a flare stack. A 10’ or taller flare will be located at least 100’ from the SHL.

- During production operations, all process vessels (separators, heater treaters, tanks) will recompress (where necessary) and route gas outlets into the natural gas gathering pipeline. Gas will preferentially be routed to natural gas gathering pipeline and the flare system will be used only during emergencies, malfunction, or if the gas does not meet pipeline specifications. In the event of flaring off-specification gas, operations will pull gas samples twice a week and will also route gas back to pipeline as soon as the gas meets specification. Exceptions to this will include only those qualified emergencies as mentioned in the BLM Waste Prevention Rule.

- To comply with state performance standards, separation and storage equipment will be designed to handle the maximum anticipated throughput and pressure to minimize waste and reduce the likelihood of venting gas to atmosphere. Additionally, each storage tank (Oil & Water) will be fitted with a level transmitter to facilitate gauging of the tank without opening of the thief hatch. Any gas collected through the tank vent system is expected to be recompressed and routed to sales. However, in the event of an emergency, the tank vapor system will be designed to combust the gas using a flare stack fitted with a continuous or automatic ignitor. The flare stack will be properly anchored and will be located a minimum of 100 feet from the well and storage tanks. Operators will conduct weekly AVO inspections. These AVO inspection records will be stored for the required 5-year period and will be made available upon Division request.

VIII. Best Management Practices:

When performing routine or preventive maintenance on a vessel or tank, initially all inlet valves are closed, and the vessel or tank is allowed to depressurize through the normal outlet connections to gas sales and/or liquid tanks. Once the vessel or tank is depressurized to lowest acceptable sales outlet pressure, usually around 20 psig, a temporary low-pressure flowline is connected from the vessel or tank to the Vapor Recovery Unit (VRU) for further pressure reduction. Once depressurized to less than 1-2 psig, the remaining natural gas in the vessel or tank is vented to atmosphere through a controlled pressure relief valve. Once the vessel or tank is depressurized to atmospheric pressure, the vessel or tank can be safely opened, and maintenance performed.

AFMSS

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

04/10/2025

APD ID: 10400086468 **Submission Date:** 07/01/2022

Operator Name: TAP ROCK OPERATING LLC

Well Name: JUNIOR MINT FED **Well Number:** 211H

Well Type: CONVENTIONAL GAS WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
9893748	QUATERNARY	3221	0	0	OTHER : Caliche	NONE	N
9893749	RUSTLER	2561	660	660	SALT	OTHER : Salt	N
9893750	TOP SALT	2121	1100	1100	SALT	OTHER : Salt	N
9893751	BASE OF SALT	-1699	4920	4996	SALT	OTHER : Salt	N
9893752	DELAWARE	-1939	5160	5242	OTHER, SANDSTONE : Mountain Group	NONE	N
9893753	LAMAR	-1944	5165	5247	SANDSTONE	NATURAL GAS, OIL	N
9893754	BELL CANYON	-1964	5185	5268	SANDSTONE	NATURAL GAS, OIL	N
9893755	RAMSEY SAND	-1984	5205	5288	SANDSTONE	NATURAL GAS, OIL	N
9893756	CHERRY CANYON	-2929	6150	6255	OTHER : Carbonate	NATURAL GAS, OIL	N
9893757	BRUSHY CANYON	-4399	7620	7728	SANDSTONE	NATURAL GAS, OIL	N
9893758	BONE SPRING LIME	-5709	8930	9038	OTHER : Carbonate	NATURAL GAS, OIL	N
9893759	UPPER AVALON SHALE	-5734	8955	9063	OTHER : Carbonate	NATURAL GAS, OIL	N
9893760	AVALON SAND	-5964	9185	9293	OTHER : Middle Carbonate	NATURAL GAS, OIL	N
9893761	BONE SPRING 1ST	-6944	10165	10273	SANDSTONE	NATURAL GAS, OIL	N
9893762	BONE SPRING 2ND	-7109	10330	10438	OTHER : Carbonate	NATURAL GAS, OIL	N
9893763	BONE SPRING 2ND	-7494	10715	10823	SANDSTONE	NATURAL GAS, OIL	N
9893746	BONE SPRING 3RD	-8044	11265	11373	OTHER : Carbonate	NATURAL GAS, OIL	N

Operator Name: TAP ROCK OPERATING LLC

Well Name: JUNIOR MINT FED **Well Number:** 211H

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
9893747	BONE SPRING 3RD	-8674	11895	12003	SANDSTONE	NATURAL GAS, OIL	N
9893764	WOLFCAMP	-8989	12210	12330	OTHER : A	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M **Rating Depth:** 15000

Equipment: At 22,881', a 10M pressure control system is required. The BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be used below surface casing to TD. See attachments for BOP and choke manifold diagrams. Also present will be an accumulator that meets the requirements of Onshore Order #2 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. BOP will be inspected and operated as recommended in Onshore Order #2. A top drive check valve and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position. The wellhead will be a multi-bowl speed head.

Requesting Variance? YES

Variance request: Tap Rock requests a variance to run a multi-bowl speed head for setting the Intermediate and Production Strings. Tap Rock requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used. Tap Rock requests a variance to have the option of batch drilling this well with other wells on the same pad. In the event that this well is batch drilled, after cementing a casing string, a 10M dry hole cap with bleed off valve will be installed. The rig will then walk to another well on the pad. When the rig returns to this well and BOPs are installed, the operator will perform a full BOP test. Tap Rock requests a variance to use a 5000 psi annular BOP on a 10M BOP stack. The annular will be tested to 250 psi low and 5,000 psi high.

Testing Procedure: After surface casing is set and the BOP is nippled up, the BOP pressure tests will be made with a third party tester to 250 psi low, 10000 psi high, and the annular preventer will be tested to 250 psi low, 5000 psi high. The BOP will be tested in this manner after nipple-up if any break of the stack occurs.

Choke Diagram Attachment:

Choke_Diagram_032918_20220701110714.pdf

BOP Diagram Attachment:

10M_BOP_Stack_5M_Annular_Preventer_20220701110726.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	14.75	11.75	NEW	API	N	0	685	0	685	3221	2536	685	J-55	42	BUTT	1.13	1.15	DRY	1.6	DRY	1.6

Operator Name: TAP ROCK OPERATING LLC

Well Name: JUNIOR MINT FED **Well Number:** 211H

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
2	INTERMEDIATE	9.875	7.625	NEW	API	N	0	11524	0	11454	3221	-8233	11524	P-110	29.7	BUTT	1.13	1.15	DRY	1.6	DRY	1.6
3	PRODUCTION	6.75	5.5	NEW	NON API	N	0	11746	0	11638	3221	-8417	11746	P-110	20	OTHER - TXP	1.13	1.15	DRY	1.6	DRY	1.6
4	PRODUCTION	6.75	5.5	NEW	NON API	N	11746	22881	11638	12598	-8417	-9377	11135	P-110	20	OTHER - W441	1.13	1.15	DRY	1.6	DRY	1.6

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_20220701110751.pdf

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_20220701110811.pdf

Operator Name: TAP ROCK OPERATING LLC

Well Name: JUNIOR MINT FED **Well Number:** 211H

Casing Attachments

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

5.5in_TXP_Casing_Spec_20220701110837.PDF

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_20220701110845.pdf

Casing ID: 4 **String** PRODUCTION

Inspection Document:

Spec Document:

5.5in_W441_Casing_Spec_20220701110912.pdf

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_20220701110919.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		0	0	0	0	0	0	0	None	None
PRODUCTION	Tail		11746	22881	900	1.24	14.5	1116	20	Class H	Fluid Loss + Dispersant + Retarder + LCM
SURFACE	Lead		0	385	183	1.82	13.5	334	100	Class C	5% NCI + LCM
SURFACE	Tail		385	685	194	1.34	14.8	260	100	Class C	5% NCI + LCM
INTERMEDIATE	Lead		0	10946	903	4.29	10.5	3873	65	Class C	Bentonite + 1% CaCL2 + 8% NaCL+

Operator Name: TAP ROCK OPERATING LLC

Well Name: JUNIOR MINT FED **Well Number:** 211H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
											LCM
INTERMEDIATE	Tail		10946	11946	212	1.67	13.2	354	65	Class C	5% NaCL + LCM

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with 43 CFR 3172:

Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:

Describe what will be on location to control well or mitigate other conditions: All necessary mud products (i.e., barite, pac) for weight addition and fluid loss control will always be on site. Mud program is subject to change due to hole conditions.

Describe the mud monitoring system utilized: Electronic Pason mud monitor system complying with Onshore Order 1 will be used.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	685	OTHER : Fresh Water Spud Mud	8.4	8.4							
685	11946	OTHER : Diesel Brine Emulsion	9.2	9.2							
11946	22881	OIL-BASED MUD	12.5	12.5							

Operator Name: TAP ROCK OPERATING LLC

Well Name: JUNIOR MINT FED **Well Number:** 211H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Electric Logging Program: No open-hole logs are planned at this time for the pilot hole. GR will be collected while drilling through the MWD tools from KOP to TD. A 2-person mud logging program will be used from KOP to TD. CBL w/ CCL from as far as gravity will let it fall to TOC.

List of open and cased hole logs run in the well:

CEMENT BOND LOG,GAMMA RAY LOG,MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

No DSTs or cores are planned at this time.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 8188 **Anticipated Surface Pressure:** 5416

Anticipated Bottom Hole Temperature(F): 200

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

JM_W2_H2S_Plan_v2_20221111105905.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

JM_211H_Horizontal_Plan_20220701111112.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

JM_211H_Drill_Plan_20220701111121.pdf
JM_211H_Anticollision_Report_20220701111133.pdf
CoFlex_Certs_20220701111214.pdf
Well_Control_Plan_10M_BOP_5M_Annular_20220701111227.pdf
Wellhead_3T_11.75_1.625_5.5_062922_20220701111227.pdf

Other Variance attachment:

TAP ROCK RESOURCES

Azimuths to Grid North
True North: -0.52°
Magnetic North: 5.79°

Magnetic Field
Strength: 47423.6nT
Dip Angle: 59.95°
Date: 06/02/2022
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 5.79°

Tap Rock Resources, LLC
Project: Lea County, NM (NAD 83 NME)
Site: (Junior Mint Fed) Sec-15_T-25-S_R-35-E
Well: Junior Mint Fed #211H
Wellbore: OWB
Design: Plan #1
Lat: 32° 8' 12.811 N
Long: 103° 21' 33.865 W
Pad GL: 3221.0
KB: KB @ 3247.0usft

INTREPID

WELL DETAILS: Junior Mint Fed #211H

3221.0

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.0	0.0	414900.00	842800.00	32° 8' 12.811 N	103° 21' 33.865 W

SECTION DETAILS

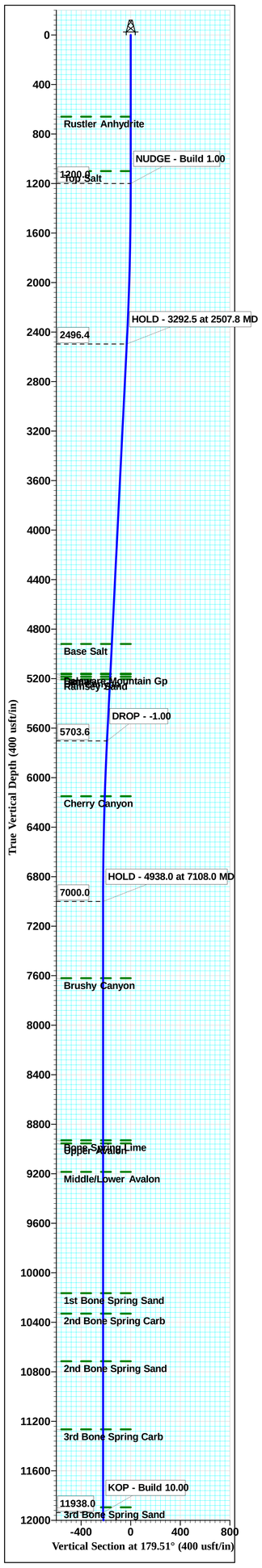
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	NUDGE - Build 1.00
2507.8	13.08	281.85	2496.4	30.5	-145.4	1.00	281.85	-31.8	HOLD - 3292.5 at 2507.8 MD
5800.3	13.08	281.85	5703.6	183.5	-874.6	0.00	0.00	-191.0	DROP - -1.00
7108.0	0.00	0.00	7000.0	214.0	-1020.0	1.00	180.00	-222.7	HOLD - 4938.0 at 7108.0 MD
12046.0	0.00	0.00	11938.0	214.0	-1020.0	0.00	0.00	-222.7	KOP - Build 10.00
12941.0	89.50	183.65	12510.9	-352.8	-1056.2	10.00	183.65	343.8	EOC/TRN - DLS 2.00 TFO -90.02
13147.9	89.50	179.51	12512.7	-559.6	-1061.9	2.00	-90.02	550.5	Start 9733.2 hold at 13147.9 MD
22881.1	89.50	179.51	12597.7	-10292.0	-979.0	0.00	0.00	10283.3	TD at 22881.1

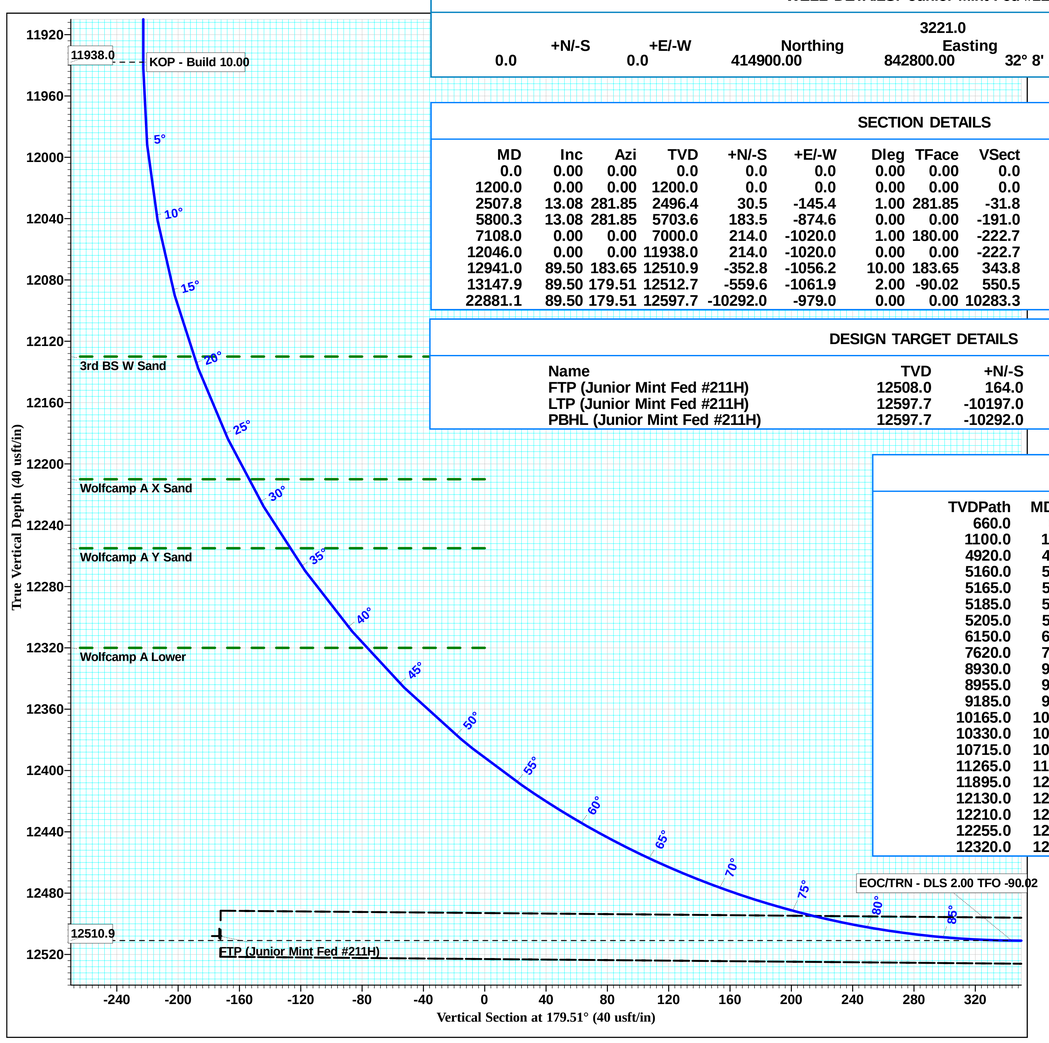
DESIGN TARGET DETAILS

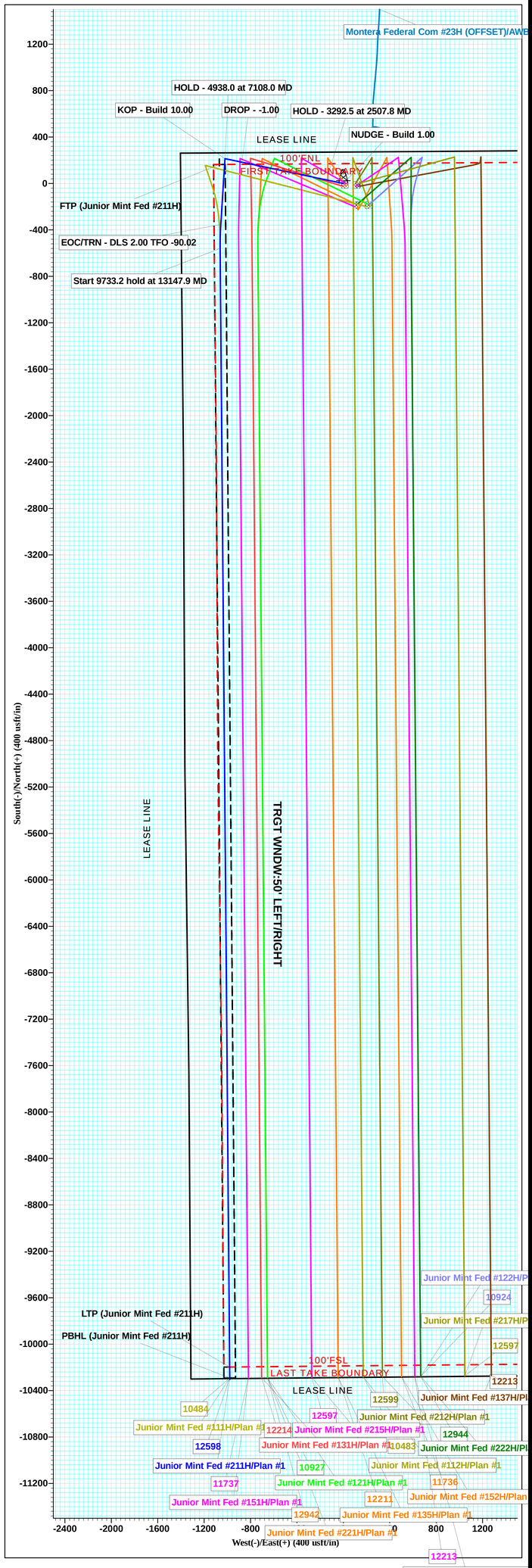
Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Junior Mint Fed #211H)	12508.0	164.0	-1069.0	415064.00	841731.00
LTP (Junior Mint Fed #211H)	12597.7	-10197.0	-980.0	404703.00	841820.00
PBHL (Junior Mint Fed #211H)	12597.7	-10292.0	-979.0	404608.00	841821.00

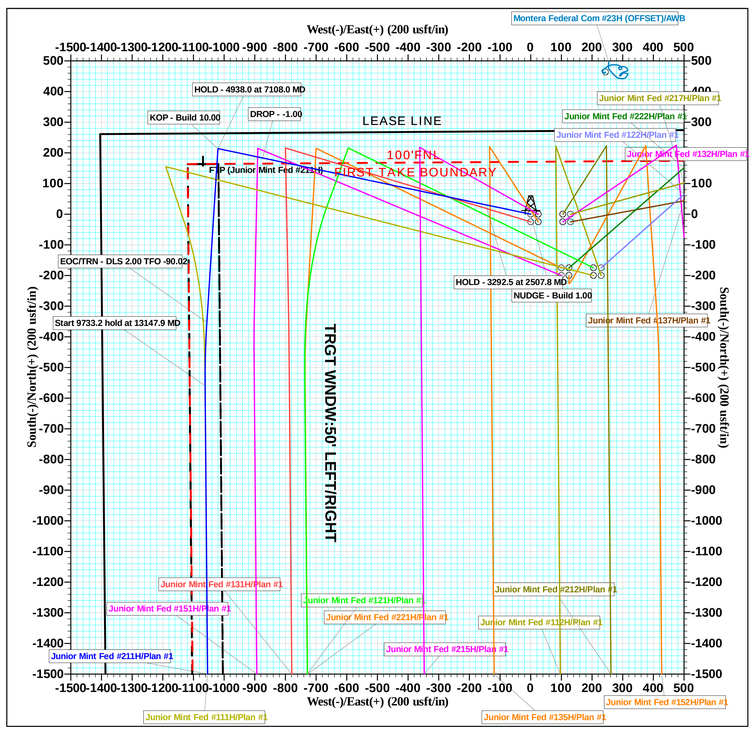
FORMATIONS

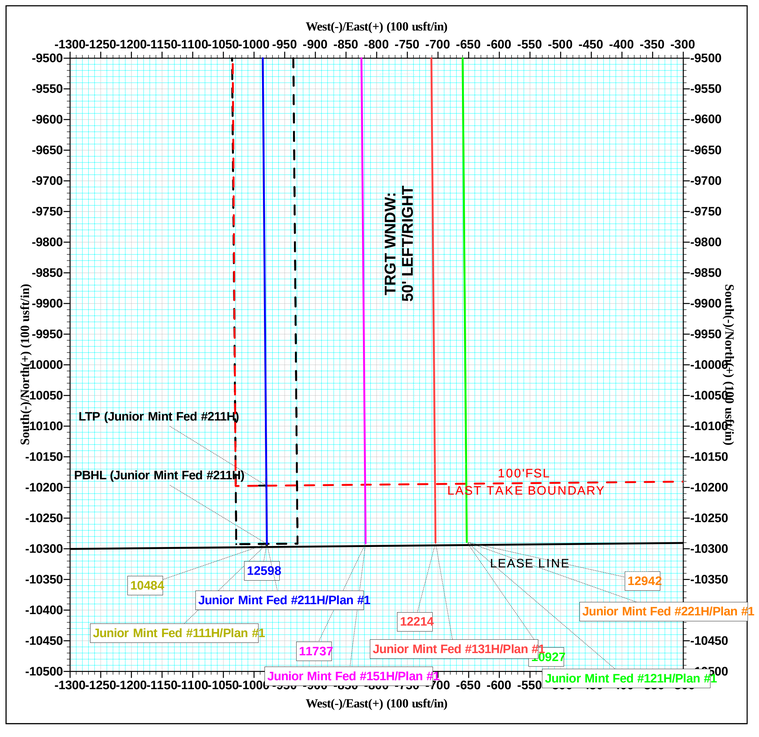
TVDPath	MDPath	Formation
660.0	660.0	Rustler Anhydrite
1100.0	1100.0	Top Salt
4920.0	4995.9	Base Salt
5160.0	5242.2	Delaware Mountain Gp
5165.0	5247.4	Lamar
5185.0	5267.9	Bell Canyon
5205.0	5288.4	Ramsey Sand
6150.0	6254.9	Cherry Canyon
7620.0	7728.0	Brushy Canyon
8930.0	9038.0	Bone Spring Lime
8955.0	9063.0	Upper Avalon
9185.0	9293.0	Middle/Lower Avalon
10165.0	10273.0	1st Bone Spring Sand
10330.0	10438.0	2nd Bone Spring Carb
10715.0	10823.0	2nd Bone Spring Sand
11265.0	11373.0	3rd Bone Spring Carb
11895.0	12003.0	3rd Bone Spring Sand
12130.0	12241.8	3rd BS W Sand
12210.0	12329.5	Wolfcamp A X Sand
12255.0	12382.0	Wolfcamp A Y Sand
12320.0	12464.2	Wolfcamp A Lower











Tap Rock Resources, LLC

Lea County, NM (NAD 83 NME)
(Junior Mint Fed) Sec-15_T-25-S_R-35-E
Junior Mint Fed #211H

OWB

Plan: Plan #1

Standard Planning Report

06 June, 2022

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Junior Mint Fed #211H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3247.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3247.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	**North Reference:**	Grid
Well:	Junior Mint Fed #211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Project Lea County, NM (NAD 83 NME)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site (Junior Mint Fed) Sec-15_T-25-S_R-35-E

Site Position:		**Northing:**	414,725.00 usft	**Latitude:**	32° 8' 11.068 N
From:	Map	**Easting:**	842,925.00 usft	**Longitude:**	103° 21' 32.430 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.52 °

Well Junior Mint Fed #211H

Well Position	**+N/-S**	175.0 usft	**Northing:**	414,900.00 usft	**Latitude:**	32° 8' 12.811 N
	+E/-W	-125.0 usft	**Easting:**	842,800.00 usft	**Longitude:**	103° 21' 33.865 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,221.0 usft

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	06/02/22	6.31	59.95	47,423.63766348

Design Plan #1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.51

Plan Survey Tool Program **Date** 06/06/22

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,880.1	Plan #1 (OWB)	MWD	
				OWSG MWD - Standard	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,507.8	13.08	281.85	2,496.4	30.5	-145.4	1.00	1.00	0.00	281.85	
5,800.3	13.08	281.85	5,703.6	183.5	-874.6	0.00	0.00	0.00	0.00	
7,108.0	0.00	0.00	7,000.0	214.0	-1,020.0	1.00	-1.00	0.00	180.00	
12,046.0	0.00	0.00	11,938.0	214.0	-1,020.0	0.00	0.00	0.00	0.00	
12,941.0	89.50	183.65	12,510.9	-352.8	-1,056.2	10.00	10.00	0.00	183.65	
13,147.9	89.50	179.51	12,512.7	-559.6	-1,061.9	2.00	0.00	-2.00	-90.02	
22,881.1	89.50	179.51	12,597.7	-10,292.0	-979.0	0.00	0.00	0.00	0.00	PBHL (Junior Mint F

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Junior Mint Fed #211H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3247.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3247.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	**North Reference:**	Grid
Well:	Junior Mint Fed #211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
NUDGE - Build 1.00									
1,300.0	1.00	281.85	1,300.0	0.2	-0.9	-0.2	1.00	1.00	0.00
1,400.0	2.00	281.85	1,400.0	0.7	-3.4	-0.7	1.00	1.00	0.00
1,500.0	3.00	281.85	1,499.9	1.6	-7.7	-1.7	1.00	1.00	0.00
1,600.0	4.00	281.85	1,599.7	2.9	-13.7	-3.0	1.00	1.00	0.00
1,700.0	5.00	281.85	1,699.4	4.5	-21.3	-4.7	1.00	1.00	0.00
1,800.0	6.00	281.85	1,798.9	6.4	-30.7	-6.7	1.00	1.00	0.00
1,900.0	7.00	281.85	1,898.3	8.8	-41.8	-9.1	1.00	1.00	0.00
2,000.0	8.00	281.85	1,997.4	11.4	-54.6	-11.9	1.00	1.00	0.00
2,100.0	9.00	281.85	2,096.3	14.5	-69.0	-15.1	1.00	1.00	0.00
2,200.0	10.00	281.85	2,194.9	17.9	-85.2	-18.6	1.00	1.00	0.00
2,300.0	11.00	281.85	2,293.3	21.6	-103.0	-22.5	1.00	1.00	0.00
2,400.0	12.00	281.85	2,391.2	25.7	-122.5	-26.8	1.00	1.00	0.00
2,507.8	13.08	281.85	2,496.4	30.5	-145.4	-31.8	1.00	1.00	0.00
HOLD - 3292.5 at 2507.8 MD									
2,600.0	13.08	281.85	2,586.3	34.8	-165.9	-36.2	0.00	0.00	0.00
2,700.0	13.08	281.85	2,683.7	39.4	-188.0	-41.1	0.00	0.00	0.00
2,800.0	13.08	281.85	2,781.1	44.1	-210.1	-45.9	0.00	0.00	0.00
2,900.0	13.08	281.85	2,878.5	48.7	-232.3	-50.7	0.00	0.00	0.00
3,000.0	13.08	281.85	2,975.9	53.4	-254.4	-55.6	0.00	0.00	0.00
3,100.0	13.08	281.85	3,073.3	58.0	-276.6	-60.4	0.00	0.00	0.00
3,200.0	13.08	281.85	3,170.7	62.7	-298.7	-65.2	0.00	0.00	0.00
3,300.0	13.08	281.85	3,268.1	67.3	-320.9	-70.1	0.00	0.00	0.00
3,400.0	13.08	281.85	3,365.5	72.0	-343.0	-74.9	0.00	0.00	0.00
3,500.0	13.08	281.85	3,462.9	76.6	-365.2	-79.7	0.00	0.00	0.00
3,600.0	13.08	281.85	3,560.3	81.3	-387.3	-84.6	0.00	0.00	0.00
3,700.0	13.08	281.85	3,657.8	85.9	-409.5	-89.4	0.00	0.00	0.00
3,800.0	13.08	281.85	3,755.2	90.6	-431.6	-94.2	0.00	0.00	0.00
3,900.0	13.08	281.85	3,852.6	95.2	-453.7	-99.1	0.00	0.00	0.00
4,000.0	13.08	281.85	3,950.0	99.8	-475.9	-103.9	0.00	0.00	0.00
4,100.0	13.08	281.85	4,047.4	104.5	-498.0	-108.7	0.00	0.00	0.00
4,200.0	13.08	281.85	4,144.8	109.1	-520.2	-113.6	0.00	0.00	0.00
4,300.0	13.08	281.85	4,242.2	113.8	-542.3	-118.4	0.00	0.00	0.00
4,400.0	13.08	281.85	4,339.6	118.4	-564.5	-123.3	0.00	0.00	0.00
4,500.0	13.08	281.85	4,437.0	123.1	-586.6	-128.1	0.00	0.00	0.00
4,600.0	13.08	281.85	4,534.4	127.7	-608.8	-132.9	0.00	0.00	0.00
4,700.0	13.08	281.85	4,631.8	132.4	-630.9	-137.8	0.00	0.00	0.00
4,800.0	13.08	281.85	4,729.2	137.0	-653.1	-142.6	0.00	0.00	0.00
4,900.0	13.08	281.85	4,826.6	141.7	-675.2	-147.4	0.00	0.00	0.00
5,000.0	13.08	281.85	4,924.0	146.3	-697.3	-152.3	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Junior Mint Fed #211H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3247.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3247.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	**North Reference:**	Grid
Well:	Junior Mint Fed #211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	13.08	281.85	5,021.4	151.0	-719.5	-157.1	0.00	0.00	0.00
5,200.0	13.08	281.85	5,118.8	155.6	-741.6	-161.9	0.00	0.00	0.00
5,300.0	13.08	281.85	5,216.3	160.2	-763.8	-166.8	0.00	0.00	0.00
5,400.0	13.08	281.85	5,313.7	164.9	-785.9	-171.6	0.00	0.00	0.00
5,500.0	13.08	281.85	5,411.1	169.5	-808.1	-176.4	0.00	0.00	0.00
5,600.0	13.08	281.85	5,508.5	174.2	-830.2	-181.3	0.00	0.00	0.00
5,700.0	13.08	281.85	5,605.9	178.8	-852.4	-186.1	0.00	0.00	0.00
5,800.3	13.08	281.85	5,703.6	183.5	-874.6	-191.0	0.00	0.00	0.00
DROP - -1.00									
5,900.0	12.08	281.85	5,800.9	187.9	-895.8	-195.6	1.00	-1.00	0.00
6,000.0	11.08	281.85	5,898.8	192.1	-915.5	-199.9	1.00	-1.00	0.00
6,100.0	10.08	281.85	5,997.1	195.8	-933.4	-203.8	1.00	-1.00	0.00
6,200.0	9.08	281.85	6,095.8	199.3	-949.7	-207.4	1.00	-1.00	0.00
6,300.0	8.08	281.85	6,194.6	202.3	-964.3	-210.6	1.00	-1.00	0.00
6,400.0	7.08	281.85	6,293.8	205.0	-977.2	-213.4	1.00	-1.00	0.00
6,500.0	6.08	281.85	6,393.1	207.4	-988.5	-215.8	1.00	-1.00	0.00
6,600.0	5.08	281.85	6,492.6	209.4	-998.0	-217.9	1.00	-1.00	0.00
6,700.0	4.08	281.85	6,592.3	211.0	-1,005.8	-219.6	1.00	-1.00	0.00
6,800.0	3.08	281.85	6,692.1	212.3	-1,011.9	-220.9	1.00	-1.00	0.00
6,900.0	2.08	281.85	6,792.0	213.2	-1,016.3	-221.9	1.00	-1.00	0.00
7,000.0	1.08	281.85	6,892.0	213.8	-1,019.0	-222.5	1.00	-1.00	0.00
7,108.0	0.00	0.00	7,000.0	214.0	-1,020.0	-222.7	1.00	-1.00	0.00
HOLD - 4938.0 at 7108.0 MD									
7,200.0	0.00	0.00	7,092.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
7,300.0	0.00	0.00	7,192.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,292.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
7,500.0	0.00	0.00	7,392.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,492.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,592.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,692.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,792.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,892.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
8,100.0	0.00	0.00	7,992.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,092.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,192.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,292.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,392.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,492.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,592.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,692.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,792.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,892.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
9,100.0	0.00	0.00	8,992.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
9,200.0	0.00	0.00	9,092.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,192.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,292.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
9,500.0	0.00	0.00	9,392.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
9,600.0	0.00	0.00	9,492.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
9,700.0	0.00	0.00	9,592.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
9,800.0	0.00	0.00	9,692.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
9,900.0	0.00	0.00	9,792.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
10,000.0	0.00	0.00	9,892.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
10,100.0	0.00	0.00	9,992.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
10,200.0	0.00	0.00	10,092.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Junior Mint Fed #211H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3247.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3247.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	**North Reference:**	Grid
Well:	Junior Mint Fed #211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,300.0	0.00	0.00	10,192.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
10,400.0	0.00	0.00	10,292.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
10,500.0	0.00	0.00	10,392.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
10,600.0	0.00	0.00	10,492.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
10,700.0	0.00	0.00	10,592.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
10,800.0	0.00	0.00	10,692.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
10,900.0	0.00	0.00	10,792.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
11,000.0	0.00	0.00	10,892.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
11,100.0	0.00	0.00	10,992.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
11,200.0	0.00	0.00	11,092.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
11,300.0	0.00	0.00	11,192.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
11,400.0	0.00	0.00	11,292.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
11,500.0	0.00	0.00	11,392.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
11,600.0	0.00	0.00	11,492.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
11,700.0	0.00	0.00	11,592.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
11,800.0	0.00	0.00	11,692.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
11,900.0	0.00	0.00	11,792.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
12,000.0	0.00	0.00	11,892.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
12,046.0	0.00	0.00	11,938.0	214.0	-1,020.0	-222.7	0.00	0.00	0.00
KOP - Build 10.00									
12,050.0	0.40	183.65	11,942.0	214.0	-1,020.0	-222.7	10.00	10.00	0.00
12,100.0	5.40	183.65	11,991.9	211.5	-1,020.2	-220.2	10.00	10.00	0.00
12,150.0	10.40	183.65	12,041.4	204.6	-1,020.6	-213.3	10.00	10.00	0.00
12,200.0	15.40	183.65	12,090.1	193.5	-1,021.3	-202.2	10.00	10.00	0.00
12,250.0	20.40	183.65	12,137.7	178.2	-1,022.3	-186.9	10.00	10.00	0.00
12,300.0	25.40	183.65	12,183.7	158.7	-1,023.5	-167.5	10.00	10.00	0.00
12,350.0	30.40	183.65	12,227.9	135.4	-1,025.0	-144.2	10.00	10.00	0.00
12,400.0	35.40	183.65	12,269.9	108.3	-1,026.7	-117.1	10.00	10.00	0.00
12,450.0	40.40	183.65	12,309.3	77.7	-1,028.7	-86.5	10.00	10.00	0.00
12,500.0	45.40	183.65	12,345.9	43.7	-1,030.9	-52.5	10.00	10.00	0.00
12,550.0	50.40	183.65	12,379.4	6.7	-1,033.2	-15.6	10.00	10.00	0.00
12,600.0	55.40	183.65	12,409.6	-33.1	-1,035.8	24.2	10.00	10.00	0.00
12,650.0	60.40	183.65	12,436.2	-75.3	-1,038.5	66.4	10.00	10.00	0.00
12,700.0	65.40	183.65	12,458.9	-119.7	-1,041.3	110.8	10.00	10.00	0.00
12,750.0	70.40	183.65	12,477.7	-165.9	-1,044.2	157.0	10.00	10.00	0.00
12,800.0	75.40	183.65	12,492.4	-213.6	-1,047.3	204.7	10.00	10.00	0.00
12,850.0	80.40	183.65	12,502.9	-262.4	-1,050.4	253.4	10.00	10.00	0.00
12,900.0	85.40	183.65	12,509.1	-311.9	-1,053.5	302.9	10.00	10.00	0.00
12,941.0	89.50	183.65	12,510.9	-352.8	-1,056.2	343.8	10.00	10.00	0.00
EOC/TRN - DLS 2.00 TFO -90.02									
13,000.0	89.50	182.47	12,511.5	-411.7	-1,059.3	402.6	2.00	0.00	-2.00
13,100.0	89.50	180.47	12,512.3	-511.6	-1,061.9	502.5	2.00	0.00	-2.00
13,147.9	89.50	179.51	12,512.7	-559.6	-1,061.9	550.5	2.00	0.00	-2.00
Start 9733.2 hold at 13147.9 MD									
13,200.0	89.50	179.51	12,513.2	-611.6	-1,061.4	602.5	0.00	0.00	0.00
13,300.0	89.50	179.51	12,514.1	-711.6	-1,060.6	702.5	0.00	0.00	0.00
13,400.0	89.50	179.51	12,514.9	-811.6	-1,059.7	802.5	0.00	0.00	0.00
13,500.0	89.50	179.51	12,515.8	-911.6	-1,058.9	902.5	0.00	0.00	0.00
13,600.0	89.50	179.51	12,516.7	-1,011.6	-1,058.0	1,002.5	0.00	0.00	0.00
13,700.0	89.50	179.51	12,517.6	-1,111.6	-1,057.2	1,102.5	0.00	0.00	0.00
13,800.0	89.50	179.51	12,518.4	-1,211.6	-1,056.3	1,202.5	0.00	0.00	0.00
13,900.0	89.50	179.51	12,519.3	-1,311.6	-1,055.5	1,302.5	0.00	0.00	0.00
14,000.0	89.50	179.51	12,520.2	-1,411.6	-1,054.6	1,402.5	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Junior Mint Fed #211H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3247.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3247.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	**North Reference:**	Grid
Well:	Junior Mint Fed #211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,100.0	89.50	179.51	12,521.1	-1,511.6	-1,053.8	1,502.5	0.00	0.00	0.00
14,200.0	89.50	179.51	12,521.9	-1,611.6	-1,052.9	1,602.5	0.00	0.00	0.00
14,300.0	89.50	179.51	12,522.8	-1,711.5	-1,052.1	1,702.5	0.00	0.00	0.00
14,400.0	89.50	179.51	12,523.7	-1,811.5	-1,051.2	1,802.5	0.00	0.00	0.00
14,500.0	89.50	179.51	12,524.6	-1,911.5	-1,050.4	1,902.5	0.00	0.00	0.00
14,600.0	89.50	179.51	12,525.4	-2,011.5	-1,049.5	2,002.5	0.00	0.00	0.00
14,700.0	89.50	179.51	12,526.3	-2,111.5	-1,048.7	2,102.5	0.00	0.00	0.00
14,800.0	89.50	179.51	12,527.2	-2,211.5	-1,047.8	2,202.5	0.00	0.00	0.00
14,900.0	89.50	179.51	12,528.0	-2,311.5	-1,046.9	2,302.5	0.00	0.00	0.00
15,000.0	89.50	179.51	12,528.9	-2,411.5	-1,046.1	2,402.5	0.00	0.00	0.00
15,100.0	89.50	179.51	12,529.8	-2,511.5	-1,045.2	2,502.5	0.00	0.00	0.00
15,200.0	89.50	179.51	12,530.7	-2,611.5	-1,044.4	2,602.4	0.00	0.00	0.00
15,300.0	89.50	179.51	12,531.5	-2,711.5	-1,043.5	2,702.4	0.00	0.00	0.00
15,400.0	89.50	179.51	12,532.4	-2,811.5	-1,042.7	2,802.4	0.00	0.00	0.00
15,500.0	89.50	179.51	12,533.3	-2,911.5	-1,041.8	2,902.4	0.00	0.00	0.00
15,600.0	89.50	179.51	12,534.2	-3,011.4	-1,041.0	3,002.4	0.00	0.00	0.00
15,700.0	89.50	179.51	12,535.0	-3,111.4	-1,040.1	3,102.4	0.00	0.00	0.00
15,800.0	89.50	179.51	12,535.9	-3,211.4	-1,039.3	3,202.4	0.00	0.00	0.00
15,900.0	89.50	179.51	12,536.8	-3,311.4	-1,038.4	3,302.4	0.00	0.00	0.00
16,000.0	89.50	179.51	12,537.6	-3,411.4	-1,037.6	3,402.4	0.00	0.00	0.00
16,100.0	89.50	179.51	12,538.5	-3,511.4	-1,036.7	3,502.4	0.00	0.00	0.00
16,200.0	89.50	179.51	12,539.4	-3,611.4	-1,035.9	3,602.4	0.00	0.00	0.00
16,300.0	89.50	179.51	12,540.3	-3,711.4	-1,035.0	3,702.4	0.00	0.00	0.00
16,400.0	89.50	179.51	12,541.1	-3,811.4	-1,034.2	3,802.4	0.00	0.00	0.00
16,500.0	89.50	179.51	12,542.0	-3,911.4	-1,033.3	3,902.4	0.00	0.00	0.00
16,600.0	89.50	179.51	12,542.9	-4,011.4	-1,032.5	4,002.4	0.00	0.00	0.00
16,700.0	89.50	179.51	12,543.8	-4,111.4	-1,031.6	4,102.4	0.00	0.00	0.00
16,800.0	89.50	179.51	12,544.6	-4,211.4	-1,030.8	4,202.4	0.00	0.00	0.00
16,900.0	89.50	179.51	12,545.5	-4,311.3	-1,029.9	4,302.4	0.00	0.00	0.00
17,000.0	89.50	179.51	12,546.4	-4,411.3	-1,029.1	4,402.4	0.00	0.00	0.00
17,100.0	89.50	179.51	12,547.3	-4,511.3	-1,028.2	4,502.4	0.00	0.00	0.00
17,200.0	89.50	179.51	12,548.1	-4,611.3	-1,027.4	4,602.4	0.00	0.00	0.00
17,300.0	89.50	179.51	12,549.0	-4,711.3	-1,026.5	4,702.4	0.00	0.00	0.00
17,400.0	89.50	179.51	12,549.9	-4,811.3	-1,025.7	4,802.4	0.00	0.00	0.00
17,500.0	89.50	179.51	12,550.7	-4,911.3	-1,024.8	4,902.4	0.00	0.00	0.00
17,600.0	89.50	179.51	12,551.6	-5,011.3	-1,024.0	5,002.4	0.00	0.00	0.00
17,700.0	89.50	179.51	12,552.5	-5,111.3	-1,023.1	5,102.4	0.00	0.00	0.00
17,800.0	89.50	179.51	12,553.4	-5,211.3	-1,022.3	5,202.3	0.00	0.00	0.00
17,900.0	89.50	179.51	12,554.2	-5,311.3	-1,021.4	5,302.3	0.00	0.00	0.00
18,000.0	89.50	179.51	12,555.1	-5,411.3	-1,020.6	5,402.3	0.00	0.00	0.00
18,100.0	89.50	179.51	12,556.0	-5,511.3	-1,019.7	5,502.3	0.00	0.00	0.00
18,200.0	89.50	179.51	12,556.9	-5,611.3	-1,018.9	5,602.3	0.00	0.00	0.00
18,300.0	89.50	179.51	12,557.7	-5,711.2	-1,018.0	5,702.3	0.00	0.00	0.00
18,400.0	89.50	179.51	12,558.6	-5,811.2	-1,017.2	5,802.3	0.00	0.00	0.00
18,500.0	89.50	179.51	12,559.5	-5,911.2	-1,016.3	5,902.3	0.00	0.00	0.00
18,600.0	89.50	179.51	12,560.4	-6,011.2	-1,015.4	6,002.3	0.00	0.00	0.00
18,700.0	89.50	179.51	12,561.2	-6,111.2	-1,014.6	6,102.3	0.00	0.00	0.00
18,800.0	89.50	179.51	12,562.1	-6,211.2	-1,013.7	6,202.3	0.00	0.00	0.00
18,900.0	89.50	179.51	12,563.0	-6,311.2	-1,012.9	6,302.3	0.00	0.00	0.00
19,000.0	89.50	179.51	12,563.8	-6,411.2	-1,012.0	6,402.3	0.00	0.00	0.00
19,100.0	89.50	179.51	12,564.7	-6,511.2	-1,011.2	6,502.3	0.00	0.00	0.00
19,200.0	89.50	179.51	12,565.6	-6,611.2	-1,010.3	6,602.3	0.00	0.00	0.00
19,300.0	89.50	179.51	12,566.5	-6,711.2	-1,009.5	6,702.3	0.00	0.00	0.00
19,400.0	89.50	179.51	12,567.3	-6,811.2	-1,008.6	6,802.3	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Junior Mint Fed #211H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3247.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3247.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	**North Reference:**	Grid
Well:	Junior Mint Fed #211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,500.0	89.50	179.51	12,568.2	-6,911.2	-1,007.8	6,902.3	0.00	0.00	0.00
19,600.0	89.50	179.51	12,569.1	-7,011.1	-1,006.9	7,002.3	0.00	0.00	0.00
19,700.0	89.50	179.51	12,570.0	-7,111.1	-1,006.1	7,102.3	0.00	0.00	0.00
19,800.0	89.50	179.51	12,570.8	-7,211.1	-1,005.2	7,202.3	0.00	0.00	0.00
19,900.0	89.50	179.51	12,571.7	-7,311.1	-1,004.4	7,302.3	0.00	0.00	0.00
20,000.0	89.50	179.51	12,572.6	-7,411.1	-1,003.5	7,402.3	0.00	0.00	0.00
20,100.0	89.50	179.51	12,573.5	-7,511.1	-1,002.7	7,502.3	0.00	0.00	0.00
20,200.0	89.50	179.51	12,574.3	-7,611.1	-1,001.8	7,602.3	0.00	0.00	0.00
20,300.0	89.50	179.51	12,575.2	-7,711.1	-1,001.0	7,702.3	0.00	0.00	0.00
20,400.0	89.50	179.51	12,576.1	-7,811.1	-1,000.1	7,802.3	0.00	0.00	0.00
20,500.0	89.50	179.51	12,576.9	-7,911.1	-999.3	7,902.2	0.00	0.00	0.00
20,600.0	89.50	179.51	12,577.8	-8,011.1	-998.4	8,002.2	0.00	0.00	0.00
20,700.0	89.50	179.51	12,578.7	-8,111.1	-997.6	8,102.2	0.00	0.00	0.00
20,800.0	89.50	179.51	12,579.6	-8,211.1	-996.7	8,202.2	0.00	0.00	0.00
20,900.0	89.50	179.51	12,580.4	-8,311.1	-995.9	8,302.2	0.00	0.00	0.00
21,000.0	89.50	179.51	12,581.3	-8,411.0	-995.0	8,402.2	0.00	0.00	0.00
21,100.0	89.50	179.51	12,582.2	-8,511.0	-994.2	8,502.2	0.00	0.00	0.00
21,200.0	89.50	179.51	12,583.1	-8,611.0	-993.3	8,602.2	0.00	0.00	0.00
21,300.0	89.50	179.51	12,583.9	-8,711.0	-992.5	8,702.2	0.00	0.00	0.00
21,400.0	89.50	179.51	12,584.8	-8,811.0	-991.6	8,802.2	0.00	0.00	0.00
21,500.0	89.50	179.51	12,585.7	-8,911.0	-990.8	8,902.2	0.00	0.00	0.00
21,600.0	89.50	179.51	12,586.6	-9,011.0	-989.9	9,002.2	0.00	0.00	0.00
21,700.0	89.50	179.51	12,587.4	-9,111.0	-989.1	9,102.2	0.00	0.00	0.00
21,800.0	89.50	179.51	12,588.3	-9,211.0	-988.2	9,202.2	0.00	0.00	0.00
21,900.0	89.50	179.51	12,589.2	-9,311.0	-987.4	9,302.2	0.00	0.00	0.00
22,000.0	89.50	179.51	12,590.0	-9,411.0	-986.5	9,402.2	0.00	0.00	0.00
22,100.0	89.50	179.51	12,590.9	-9,511.0	-985.6	9,502.2	0.00	0.00	0.00
22,200.0	89.50	179.51	12,591.8	-9,611.0	-984.8	9,602.2	0.00	0.00	0.00
22,300.0	89.50	179.51	12,592.7	-9,710.9	-983.9	9,702.2	0.00	0.00	0.00
22,400.0	89.50	179.51	12,593.5	-9,810.9	-983.1	9,802.2	0.00	0.00	0.00
22,500.0	89.50	179.51	12,594.4	-9,910.9	-982.2	9,902.2	0.00	0.00	0.00
22,600.0	89.50	179.51	12,595.3	-10,010.9	-981.4	10,002.2	0.00	0.00	0.00
22,700.0	89.50	179.51	12,596.2	-10,110.9	-980.5	10,102.2	0.00	0.00	0.00
22,800.0	89.50	179.51	12,597.0	-10,210.9	-979.7	10,202.2	0.00	0.00	0.00
22,881.1	89.50	179.51	12,597.7	-10,292.0	-979.0	10,283.3	0.00	0.00	0.00
TD at 22881.1									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Junior Mint Fed #	0.00	0.00	12,508.0	164.0	-1,069.0	415,064.00	841,731.00	32° 8' 14.529 N	103° 21' 46.279 W
- plan misses target center by 203.8usft at 12521.4usft MD (12360.7 TVD, 28.2 N, -1031.9 E)									
- Point									
PBHL (Junior Mint Fec	0.50	179.51	12,597.7	-10,292.0	-979.0	404,608.00	841,821.00	32° 6' 31.061 N	103° 21' 46.328 W
- plan hits target center									
- Rectangle (sides W100.0 H10,456.0 D30.0)									
LTP (Junior Mint Fed #	0.00	0.00	12,597.7	-10,197.0	-980.0	404,703.00	841,820.00	32° 6' 32.001 N	103° 21' 46.329 W
- plan misses target center by 0.9usft at 22786.1usft MD (12596.9 TVD, -10197.0 N, -979.8 E)									
- Point									

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Junior Mint Fed #211H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3247.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3247.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	**North Reference:**	Grid
Well:	Junior Mint Fed #211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
660.0	660.0	Rustler Anhydrite			
1,100.0	1,100.0	Top Salt			
4,995.9	4,920.0	Base Salt			
5,242.2	5,160.0	Delaware Mountain Gp			
5,247.4	5,165.0	Lamar			
5,267.9	5,185.0	Bell Canyon			
5,288.4	5,205.0	Ramsey Sand			
6,254.9	6,150.0	Cherry Canyon			
7,728.0	7,620.0	Brushy Canyon			
9,038.0	8,930.0	Bone Spring Lime			
9,063.0	8,955.0	Upper Avalon			
9,293.0	9,185.0	Middle/Lower Avalon			
10,273.0	10,165.0	1st Bone Spring Sand			
10,438.0	10,330.0	2nd Bone Spring Carb			
10,823.0	10,715.0	2nd Bone Spring Sand			
11,373.0	11,265.0	3rd Bone Spring Carb			
12,003.0	11,895.0	3rd Bone Spring Sand			
12,241.8	12,130.0	3rd BS W Sand			
12,329.5	12,210.0	Wolfcamp A X Sand			
12,382.0	12,255.0	Wolfcamp A Y Sand			
12,464.2	12,320.0	Wolfcamp A Lower			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,200.0	1,200.0	0.0	0.0	NUDGE - Build 1.00
2,507.8	2,496.4	30.5	-145.4	HOLD - 3292.5 at 2507.8 MD
5,800.3	5,703.6	183.5	-874.6	DROP - -1.00
7,108.0	7,000.0	214.0	-1,020.0	HOLD - 4938.0 at 7108.0 MD
12,046.0	11,938.0	214.0	-1,020.0	KOP - Build 10.00
12,941.0	12,510.9	-352.8	-1,056.2	EOC/TRN - DLS 2.00 TFO -90.02
13,147.9	12,512.7	-559.6	-1,061.9	Start 9733.2 hold at 13147.9 MD
22,881.1	12,597.7	-10,292.0	-979.0	TD at 22881.1

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Tap Rock Operating LLC
WELL NAME & NO.:	Junior Mint Fed 211H
LOCATION:	Sec 10-24S-35E-NMP
COUNTY:	Lea County, New Mexico

COA

H2S	○ Yes	◉ No	
Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	◉ Low	○ Medium	○ High
Cave/Karst Potential	○ Critical		
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	◉ Multibowl	○ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☑ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☐ COM	☐ Unit

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **11-3/4** inch surface casing shall be set at approximately **710** feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface. ***Surface casing set depth adjusted per BLM geologist.***

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
    b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
    c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours

Approval Date: 02/08/2023

after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

    - Cement to surface. If cement does not circulate see B.1.a, c-d above.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

    - Cement should tie-back at least **300 feet** into previous casing string. Operator shall provide method of verification. ***Larger casing tie back due to failing to meet the 0.422 inch clearance requirement per OO2.III.B***

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
    e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

 Approval Date: 02/08/2023

a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

☒ Eddy County
Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator

can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
    e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

    a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-

off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

e. The results of the test shall be reported to the appropriate BLM office.

f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Hydrogen Sulfide Drilling

Operations Plan

Tap Rock Resources

1 H2S safety instructions to the following:

- Characteristics of H2S
- Physical effects and hazards
- Principal and operation of H2S detectors, warning system and briefing areas
- Evacuation procedures, routes and first aid
- Proper use of safety equipment & life support systems
- Essential personnel meeting medical evaluation criteria will receive additional training on the proper use of 30min pressure demand air packs

2 H2S Detection and Alarm Systems:

- H2S sensor/detectors to be located on the drilling rig floor, in the base of the sub structure / cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may be placed as deemed necessary
- An audio alarm system will be installed on the derrick floor and in the doghouse

3 Windsocks and / Wind Streamers:

- Windsocks at mud pit area should be high enough to be visible
- Windsock on the rig floor and / top of doghouse should be high enough to be visible

4 Condition Flags and Signs:

- Warning sign on access road to location
- Flags to be displayed on sign at entrance to location
    - Green Flag – Normal Safe Operation Condition
    - Yellow Flag – Potential Pressure and Danger
    - Red Flag – Danger (H2S present in dangerous concentrations) Only H2S trained personnel admitted on location

5 Well Control Equipment:

- See Drilling Operations Plan Schematics

6 Communication:

- While working under masks chalkboards will be used for communications
- Hand signals will be used where chalk board is inappropriate
- Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.

7 Drilling Stem Testing:

- No DST cores are planned at this time

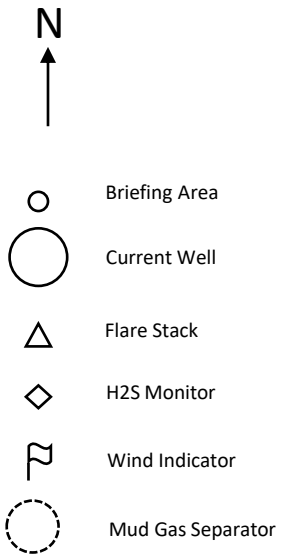
8 Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubulars good and other mechanical equipment

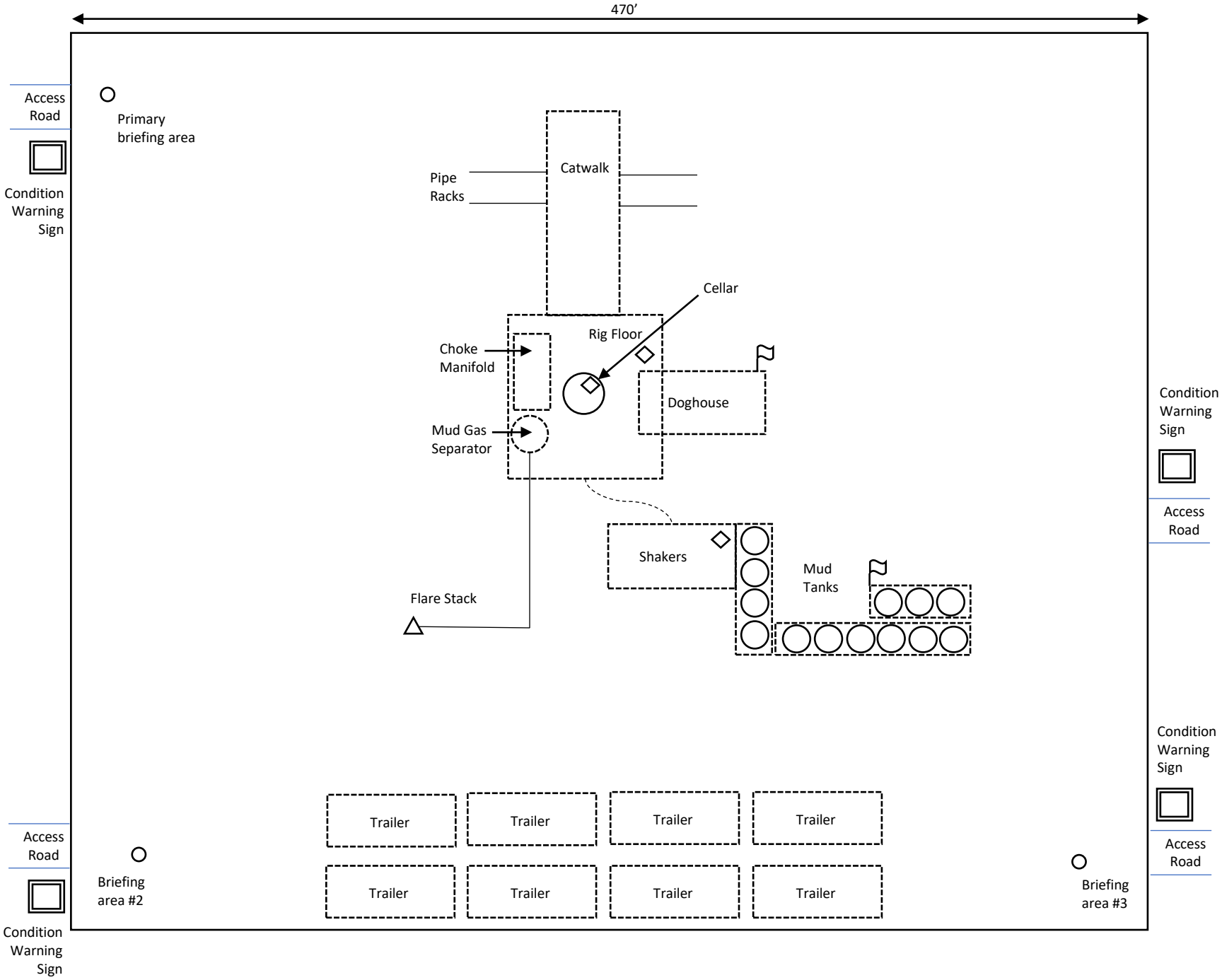
9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary

11 Emergency Contacts

Emergency Contacts		
Carlsbad Police Department	575.887.7551	911
Carlsbad Medical Center	575.887.4100	911
Eddy County Fire Service	575.628.5450	911
Eddy County Sherriff	575.887.7551	911
Lea County Fire Service	575.391.2983	911
Lea County Sherriff	575.396.3611	911
Jal Police Department	575.395.2121	911
Jal Fire Department	575.395.2221	911
Tap Rock Resources	720.772.5090	

Rig Diagram
Junior Mint Fed W2 Pad
Tap Rock Operating, LLC
15-25S-35E
Lea County, NM





Tap Rock Operating LLC

Junior Mint Fed W2 Pad
H2S Contingency Plan:
2 Mile Radius Map

Sec. 15, Township 25S, Range 35E
Lea County, New Mexico

Well Pad Location

1:27,000

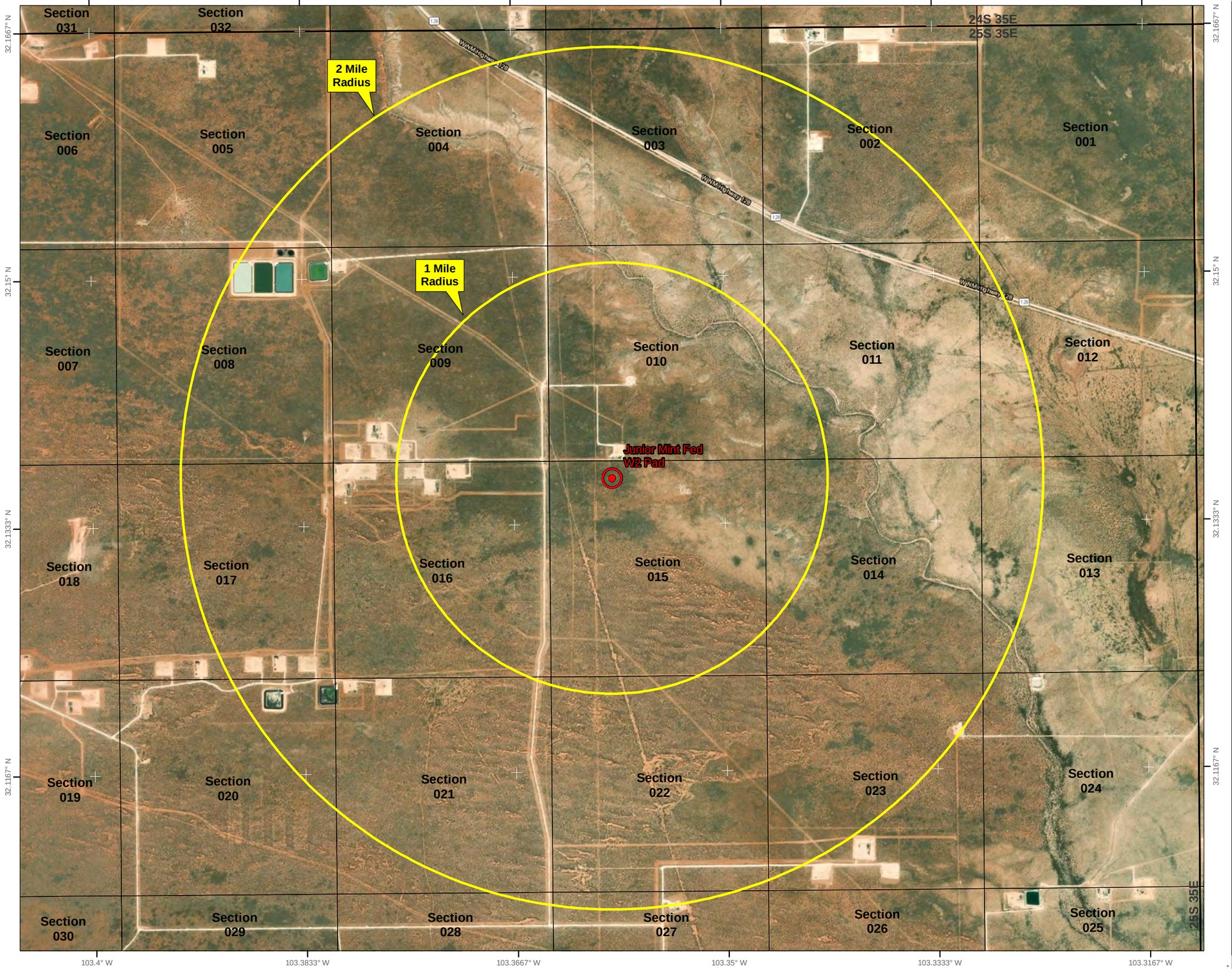
0 0.25 0.5 1
Miles

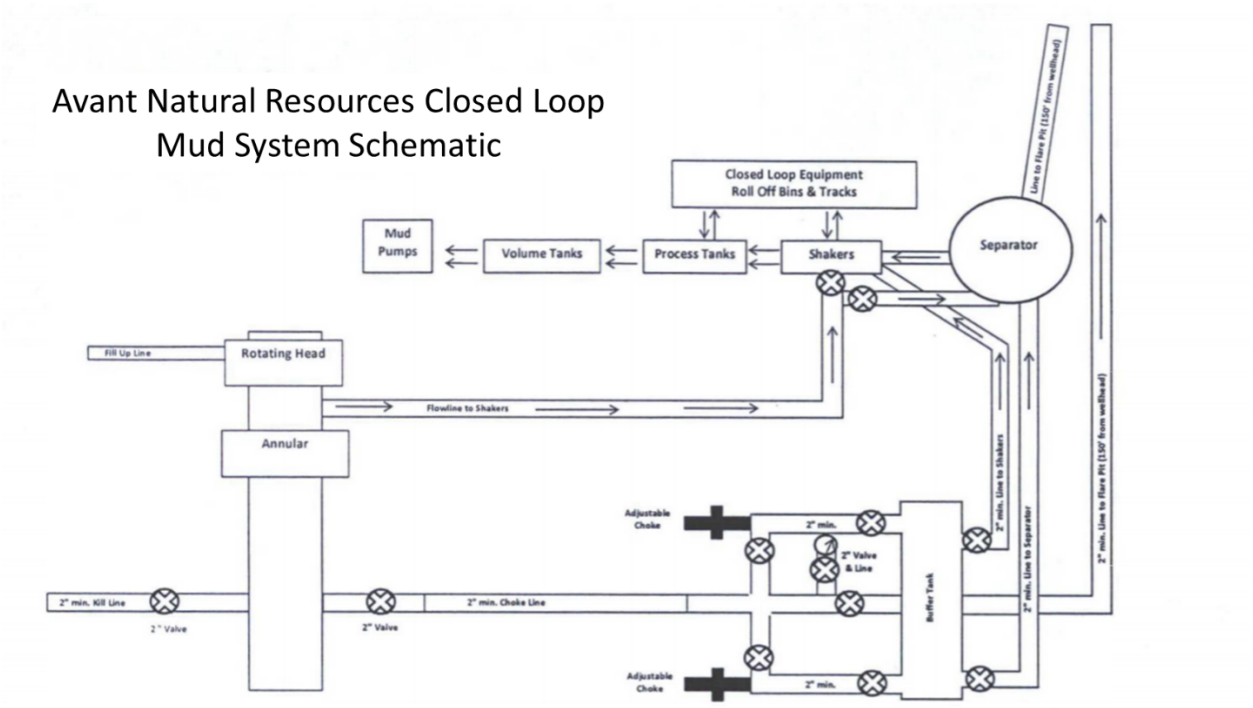
N

NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

PERMITS WEST

Prepared by Permits West, Inc., June 28, 2022
for Tap Rock Operating, LLC




Avant Natural Resources Closed Loop
Mud System Schematic
Closed Loop Equipment
Roll Off Bins & Tracks
Mud
Pumps
Volume Tanks
Process Tanks
Shakers
Separator
Line to Flare Pit (150' from wellhead)
Fill Up Line
Rotating Head
Flowline to Shakers
Annular
Adjustable
Choke
2" min.
2" Valve
& Line
Buffer Tank
2" min. Line to Shakers
2" min. Line to Separator
2" min. Line to Flare Pit (150' from wellhead)
2" min. Kill Line
2" Valve
2" Valve
2" min. Choke Line
Adjustable
Choke
2" min.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator:	OGRID:
Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	332195
	Action Number: 453834
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
bwood	Cement is required to circulate on both surface and intermediate1 strings of casing.	4/21/2025
bwood	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	4/21/2025
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	6/12/2025
matthew.gomez	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.	6/12/2025
matthew.gomez	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	6/12/2025
matthew.gomez	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	6/12/2025
matthew.gomez	File As Drilled C-102 and a directional Survey with C-104 completion packet.	6/12/2025
matthew.gomez	Administrative order required for non-standard spacing unit prior to production.	6/12/2025