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 138H

2. Name of Operator: TAP ROCK OPERATING LLC

9. API Well No.: 30-025-55618

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: WC-025 H-08 S253534O/BONE SPRING

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

At surface: SWSE / 524 FSL / 1635 FEL / LAT 32.1390653 / LONG -103.35215

At proposed prod. zone: SESE / 5 FSL / 609 FEL / LAT 32.1086037 / LONG -103.3488313

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 10/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): 524 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: 12097 feet / 22547 feet

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

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3224 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	07/06/2022

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

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

Sundry Print Report

11/15/2025

Well Name: JUNIOR MINT FED

Well Location: T25S / R35E / SEC 10 / SWSE / 32.1390653 / -103.35215

County or Parish/State: LEA / NM

Well Number: 138H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM101609

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: CIVITAS PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2874477

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 09/19/2025

Time Sundry Submitted: 11:08

Date proposed operation will begin: 10/15/2025

Procedure Description: Civitas Permian Operating, LLC would like to request the following changes to the previously approved surface hole location (SHL) and drill plan. Change SHL from 524’ FSL & 1635’ FEL, SWSE, Sec. 10, T.25S, R.35E to 353’ FSL & 1488’ FEL, SWSE, Sec. 10, T.25S, R.35E.Changes to the drill plan and other variance requests are detailed in the attached revised drill plan. Also please see the attached revised C102 plat, directional plan, anticollision report, production casing spec sheets, offline cementing procedure and wellhead diagram for additional information. APD ID No. 10400086506.

NOI Attachments

Procedure Description

JM_138H_Sundry_Attachment_091825_20250919110735.pdf

Well Name: JUNIOR MINT FED

Well Location: T25S / R35E / SEC 10 / SWSE / 32.1390653 / -103.35215

County or Parish/State: LEA / NM

Well Number: 138H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM101609

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: CIVITAS PERMIAN OPERATING LLC

Conditions of Approval

Additional

Sec_10_25S_35E_NMP_Sundry_2874477_Junior_Mint_Fed_138H_COAs_20251114092402.pdf

Operator

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

Operator Electronic Signature: CORY WALK

Signed on: OCT 27, 2025 01:33 PM

Name: CIVITAS PERMIAN OPERATING LLC

Title: Permitting Agent

Street Address: 5 CALIENTE ROAD SUITE 3A

City: SANTA FE **State:** NM

Phone: (505) 466-8120

Email address: AFMSS@PERMITSWEST.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: CWALLS@BLM.GOV

Disposition: Approved

Disposition Date: 11/14/2025

Signature: Chris Walls

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

SUNDRY NOTICES AND REPORTS ON WELLS

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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.
JUNIOR MINT FED/138H

2. Name of Operator CIVITAS PERMIAN OPERATING LLC

9. API Well No.

3a. Address 555 17TH STREET SUITE 3700, DENVER, CO 8

3b. Phone No. *(include area code)* (303) 293-1000

10. Field and Pool or Exploratory Area
WC-025 H-08 S253534O/BONE SPRING

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
SEC 10/T25S/R35E/NMP

11. Country or Parish, State
LEA/NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
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☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☑ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
CORY WALK / Ph: (505) 466-8120

Title Permitting Agent

Signature (Electronic Submission)

Date 10/27/2025

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by
CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Title Petroleum Engineer

Date 11/14/2025

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 CARLSBAD

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)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect ofthis form to U.S. Department ofthe Interior, Bureau ofLand Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SWSE / 524 FSL / 1635 FEL / TWSP: 25S / RANGE: 35E / SECTION: 10 / LAT: 32.1390653 / LONG: -103.35215 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 86 FNL / 557 FEL / TWSP: 25S / RANGE: 35E / SECTION: 15 / LAT: 32.137395 / LONG: -103.3486689 (TVD: 11895 feet, MD: 12059 feet)

BHL: SESE / 5 FSL / 609 FEL / TWSP: 25S / RANGE: 35E / SECTION: 22 / LAT: 32.1086037 / LONG: -103.3488313 (TVD: 12097 feet, MD: 22547 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Civitas Permian Operating LLC
WELL NAME & NO.:	Junior Mint Fed 138H
LOCATION:	Sec 10-25S-35E-NMP
COUNTY:	Lea County, New Mexico

*Changes approved through engineering via **Sundry 2874477** on 10/29/2025. Any previous COAs not addressed within the updated COAs still apply.*

Create COAs

H_2S	Cave / Karst	Waste Prevention Rule
Not Reported	Low	APD Submitted Prior to 06/10/24

Potash	R-111-Q Design
None	

Wellhead	Casing
Multibowl	3-String Well ☐ Liner ☑ Fluid Filled ☑ Casing Clearance
☑ Flex Hose ☑ Break Testing	**Cementing** ☐ DV Tool ☐ Bradenhead ☐ Echometer ☑ Offline Cement ☐ Open Annulus ☐ Pilot Hole

Special Requirements

☐ Capitan Reef ☐ Water Disposal ☐ COM ☐ Unit

THIS WELL HAS INTERVALS WITH A MASP OVER 5000 PSI. BREAK TESTING IS ONLY ALLOWED ON THOSE INTERVALS WHOSE MASP IS EXPECTED TO BE UNDER 5M PSI.

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H_2S) monitors shall be installed prior to drilling out the surface shoe. If H_2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 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 between **990' to 1050'** feet (a minimum of **70'** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. **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 (including lead cement.)
    c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours 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 at least **300 feet** into previous casing string. Operator shall provide method of verification.
    - If cement does not circulate to surface on the previous casing, this string must come to surface.
    - String does not meet clearance requirement per 43 CFR 4172. Tieback increased by 100' and additional cement may be needed.

C. PRESSURE CONTROL

1. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
   Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate 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 43 CFR 3172 must be followed.

2. 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).

3. Break testing has been approved for this well ONLY on those intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)** If in the event break testing is not utilized, then a full BOPE test would be conducted.
   a. Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation. **BOPE Break Testing is NOT permitted to drill the production hole section.**
   b. While in transfer between wells, BOPE shall be secured by the hydraulic carrier or cradle.
   c. A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
   d. As a minimum, a full BOPE test shall be performed at 21-day intervals.
   e. In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**. Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.

D. SPECIAL REQUIREMENT(S)

Offline Cementing

Offline cementing has been approved for **all hole sections, excluding production.** Contact the BLM prior to the commencement of any offline cementing procedure.

GENERAL REQUIREMENTS

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

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)

Contact Lea County Petroleum Engineering Inspection Staff:
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
        i. Notify the BLM when moving in and removing the Spudder Rig.
        ii. 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.
        iii. BOP/BOPE test to be conducted per **43 CFR 3172** 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. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

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 of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity 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 integrity 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-Q 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 **43 CFR 3172**.
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:
    i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    ii. 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.
    iii. Manufacturer representative shall install the test plug for the initial BOP test.
    iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    v. 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.
    i. 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).
    ii. 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.)
    iii. 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 **43 CFR 3172** 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 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

iv. 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.

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

vi. 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.

vii. 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.

viii. 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 **43 CFR 3172**.

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.

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- 55618	98185	WC-025 G-09 S253502B; LWR BONE SPRING

Property Code	Property Name	Well Number
337333	JUNIOR MINT FED	138H

OGRID No.	Operator Name	Ground Level Elevation
332195	CIVITAS PERMIAN OPERATING, LLC	3220'

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
O	10	25-S	35-E	-	353' S	1488' E	N 32.1385943	W 103.3516704	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
P	22	25-S	35-E	-	5' S	609' E	N 32.1086037	W 103.3488313	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidated Code
1280.00	Infill	30-025-54739 (131H)	N	N/A

Order Numbers: pending (NSP)

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
A	15	25-S	35-E	-	100' N	609' E	N 32.1373434	W 103.3488270	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
A	15	25-S	35-E	-	100' N	609' E	N 32.1373434	W 103.3488270	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
P	22	25-S	35-E	-	100' S	609' E	N 32.1088649	W 103.3488312	LEA

Unitized Area or Area of Uniform Interest	Spacing Unity Type	Ground Floor Elevation
N/A	☒ Horizontal ☐ Vertical	3220'

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 9-16-25

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

8/11/2025 10:38:54 AM

Signature and Seal of Professional Surveyor Date

Certificate Number

Date of Survey: 8/8/2025

M:\SURVEY\CIVITAS_RESOURCES_INC\JUNIOR_MINT_UNIT\FINAL_PRODUCTS\JUNIOR MINT FED REVISED\JUNIOR MINT FED PAD\O_JUNIOR_MINT_FED_138H_REV1.dwg BRADLEY LLOES 8/11/2025 10:38 AM

C-102

Submit Electronically
Via OCD Permitting

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

Revised July 9, 2024

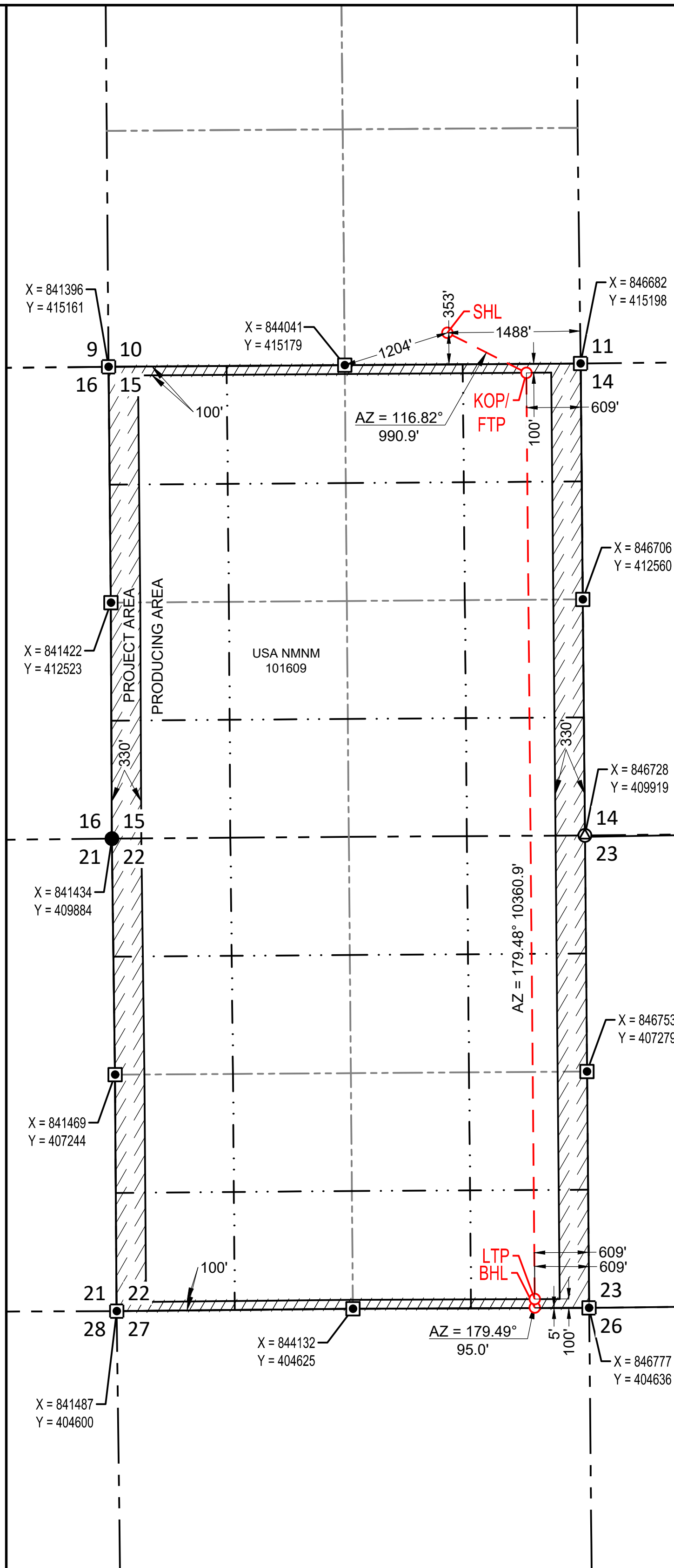
Submittal Type:	
	☐ Initial Submittal
	☒ Amended Report
	☐ As Drilled

Property Name and Well Number

JUNIOR MINT FED 138H

SURFACE LOCATION (SHL)
NEW MEXICO EAST
NAD 1983
X=845189 Y=415541
LAT.: N 32.1385943
LONG.: W 103.3516704
NAD 1927
X=804002 Y=415483
LAT.: N 32.1384679
LONG.: W 103.3512056
353' FSL 1488' FEL

KICK OFF POINT (KOP)
FIRST TAKE POINT (FTP)
NEW MEXICO EAST
NAD 1983
X=846073 Y=415094
LAT.: N 32.1373434
LONG.: W 103.3488270
NAD 1927
X=804887 Y=415036
LAT.: N 32.1372170
LONG.: W 103.3483624
100' FNL 609' FEL



LAST TAKE POINT (LTP)
NEW MEXICO EAST
NAD 1983
X=846167 Y=404734
LAT.: N 32.1088649
LONG.: W 103.3488312
NAD 1927
X=804980 Y=404675
LAT.: N 32.1087383
LONG.: W 103.3483681
100' FSL 609' FEL

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST
NAD 1983
X=846168 Y=404639
LAT.: N 32.1086037
LONG.: W 103.3488313
NAD 1927
X=804981 Y=404580
LAT.: N 32.1084771
LONG.: W 103.3483682
5' FSL 609' FEL

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.

8/8/2025
Date of Survey
Signature and Seal of Professional Surveyor:

8/11/2025 10:38:59 AM

M:\SURVEY\CIVITAS_RESOURCES_INC\JUNIOR_MINT_UNIT\FINAL_PRODUCTS\JUNIOR MINT FED REVISED\JUNIOR MINT W2E2 PAD\LO_JUNIOR_MINT_FED_138H_REV1.dwg BRADLEY LILES 8/11/2025 10:38 AM

DRILLING AND OPERATIONS PLAN

Civitas Permian Operating LLC

Section 1: Well Information

Well Name and Number: **Junior Mint Fed 138**

Proposed TD (ft MD): 22387 Proposed TD (ft TVD): 12097

Section 2: Casing Design

String Type	Hole Size	Casing Size	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Weight (lbs/ft)	Grade	Joint Type	Pressure Test (psi)	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
Surface	14.75	11.75	surface	1,076	surface	1,075	42	J55	BTC		1.13	1.15	BUOY	1.80	BUOY	1.80
Intermediate	9.875	7.625	surface	11,404	surface	11,304	29.7	P110	BTC		1.13	1.15	BUOY	1.80	BUOY	1.80
Production	6.75	5.5	surface	22,387	surface	12,097	20	P110RY	GBCD		1.13	1.15	BUOY	1.80	BUOY	1.80
											Safety Factors will Meet or Exceed					

Centralization Plan: Surface casing: centralizers run on bottom 3 joints. On subsequent strings of casing centralizers will be run as needed to ensure effective cement placement and zonal isolation.

NMOCD Casing Information:	
Is casing new? If used, attach certification as required in 43 CFR 3172.	
Does casing meet API specifications? If no, attach casing specification sheet.	
Is premium or uncommon casing planned? If yes attach casing specification sheet.	
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	
Will intermediate pipe be kept at least 1/3 fluid filled until cement tops are verified? (collapse safety requirement)	
Capitan Reef:	
Is well located within Capitan Reef?	
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is proposed well within the designated four string boundary?	
R-111-Q and SOPA	
Is well located in R-111-Q and SOPA?	
Is the second string set 100' to 600' below the base of salt?	
SOPA but not R-111-Q	
Is well located in SOPA but not in R-111-Q?	
If yes, are the first 2 strings cemented to surface and third string cement tied back 500' into previous casing?	
High Cave / Karst	
Is well located in high Cave/Karst?	
If yes, are there two strings cemented to surface?	
If yes, is there a contingency casing if lost circulation occurs?	
Critical Cave / Karst	
Is well located in critical Cave/Karst?	
If yes, are there three strings cemented to surface?	

Section 3: Cement Program

String Type	Lead/Tail	Top MD	Density (ppg)	Quantity (sks)	Yield (ft^3/sks)	Excess (%)	Cement Type	Additives
Surface	Lead	0	13.5	391	1.72	100	Class C	Additives + LCM
Surface	Tail	776	14.8	196	1.33	100	Class C	Additives + LCM
Intermediate	Lead	0	10.5	788	3.98	25	Class C	Additives + LCM
Intermediate	Tail	10404	13.2	231	1.61	25	Class C	Additives + LCM
Production	Lead	na	10.5	na	3.93	na	Class H	Additives + LCM
Production	Tail	11054	13.2	789	1.44	20	Class H	Fluid Loss + Dispersant + Retarder + LCM

Cementing Procedure

Spacers will be used ahead of cement to ensure mud removal. Slurries will be designed to provide adequate compressive strength, fluid loss control, and bonding. Offline cementing may be performed on surface and intermediate casing strings when set above the Wolfcamp formation (variance request). BOPE will be installed and tested prior to drilling out the shoe, and cement job quality will be verified before resuming operations. This variance improves operational efficiency while maintaining full compliance with 43 CFR 3172 and BLM conditions of approval. If required to achieve top of cement on the intermediate casing, a second-stage cement job may be performed by bradenhead squeeze (variance request). This method will only be used as necessary to ensure zonal isolation and full compliance with 43 CFR 3172 and BLM conditions of approval. All WOC times will be 8 hours on surface and intermediate casing or until cement has reached 500 psi compressive strength, prior to resuming drilling or completion operations on the well.

Section 4: Mud Program

Mud System Type: Closed Loop

Will an air or gas system be used? No

Describe what will be on location to control well or mitigate other conditions:

The necessary mud products for additional weight and fluid loss control will be on location at all times.

Describe the mud monitoring system utilized:

Losses or gains in the mud system will be monitored visually/manually as well as with an electronic PVT.

Circulating Medium Table:

Top Depth	Bottom Depth	Mud Type	Min. Weight	Max Weight
0	1076	Water Based Mud	8.4	8.8
1076	11404	Brine or Oil Based Mud	9.2	10.0
11404	22387	Brine or Oil Based Mud	11.0	12.5

Section 5: BOPE & Wellhead

Hole Section	Hole Size	Casing Size	Stack Size	MAASP (psi)	Min. Required WP	BOPE Type & Components	Test Pressures (psi)	Notes / Variance Reference
Int 1	9 7/8	7 5/8	13-5/8", 10M	480	5M	Annular, Blind Ram, Double Pipe Ram	250 / 5,000	Variance – 10M stack tested to 5M for this section; Variance – 5M Annular tested to 70% WP (3,500 psi)
Production	6 3/4	5 1/2	13-5/8", 10M	6569	10M	Annular, Blind Ram, Double Pipe Ram	250 / 10,000	Variance – 5M Annular tested to 70% WP (3,500 psi)

Testing Procedure:

The BOPE will be installed and tested on the surface casing and prior to drilling out each casing shoe. Tests will include a 250 psi low-pressure test and a high-pressure test to the required working pressure for each hole section. Due to MASP values lower than 5M, a variance is requested to test the installed 10M BOPE stack to 250 psi low and 5,000 psi high. For the production section the installed 10M BOP stack will be tested to 250 psi low and 10,000 psi high. A variance is also requested to utilize a 5M annular preventer and test to 70% of rated working pressure for both 5M and 10M sections which is consistent with guidance from the API (variance request). A variance is requested for break testing of BOPE on the intermediate section only . A variance is requested to utilize a coflexchoke line in place of a steel line. A variance is requested to utilize a multibowl wellhead system. The accumulator system will be sized to close the largest ram and annular preventers with 200 psi remaining. BOPE will be re-tested every 21 days as required by 43 CFR 3172. The remote kill line and 3rd choke (with remote control) will be installed as required.

Wellhead Information:

Manufacturer / Type	Multibowl
Pressure Rating	10M
Installation / Testing	Wellhead will be installed and tested by manufacturer's representative. Manufacturer representative shall install the test plug for the initial BOP test. For contingency top out cementing, wellhead has slot that will allow 1" string access to surface annulus.

Section 8: Geological Prognosis

Estimated Tops of Important Geological Markers:

Formation	TVD (ft)	Lithologies	Mineral Resources	Producing Formation?
Rustler	660	Salt	Salt	No
Top Salt	1100	Salt	Salt	No
Base Salt	4920	Salt	Salt	No
DMG	5160	Sandstone	None	No
Lamar	5165	Sandstone	Hydrocarbon	No
Bell Canyon	5185	Sandstone	Hydrocarbon	No
Ramsey Sand	5205	Sandstone	Hydrocarbon	Yes
Cherry Canyon	6150	Limestone	Hydrocarbon	Yes
Brushy Canyon	7620	Sandstone	Hydrocarbon	Yes
Bone Spring Lime	8930	Carbonate	Hydrocarbon	Yes
Upper Avalon	8955	Carbonate	Hydrocarbon	Yes
Middle Avalon	9185	Carbonate	Hydrocarbon	Yes
1st BS Sand	10165	Sandstone	Hydrocarbon	Yes
2nd BS Carb	10330	Carbonate	Hydrocarbon	Yes
2nd BS Sand	10715	Sandstone	Hydrocarbon	Yes
3rd BS Carb	11265	Carbonate	Hydrocarbon	Yes
3rd BS Sand	11895	Sandstone	Hydrocarbon	Yes
Wolfcamp A	12210	Sandstone	Hydrocarbon	Yes
Wolfcamp B	12635	Sandstone	Hydrocarbon	Yes

Anticipated Bottom Hole Pressure:	**7863**	PSI
Anticipated Static Bottom Hole Temperature:	**194**	˚F
Anticipated Abnormal Pressure?	**No**	
Potential Hazards:	**None**	

Section 9: H2S

Anticipated concentration :	**0**	ppm
Depth of first occurance	**na**	ft TVD

Additional Comments:

H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. If Hydrogen Sulfide is encountered, measured amounts and formations will be reported to the BLM. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. See attached H2S Contingency Plan.

Section 10: Drilling Operations

Batch drilling may be conducted on this pad to improve operational efficiency. Surface and/or intermediate hole sections may be drilled and cased on multiple wells prior to proceeding with deeper drilling operations. Each casing string will be cemented and BOPE installed and tested on each well before drilling ahead. All wells will maintain full compliance with 43 CFR 3172 and applicable COAs Surface and intermediate casing will be cemented to surface, with offline cementing utilized on approved strings set above the Wolfcamp formation (variance). If required to achieve TOC, a second-stage cement job on the intermediate string may be performed by braidenhead squeeze through the casing (variance). Mud programs will be adjusted per hole section to maintain well control and borehole stability.

Section 11: Testing, Logging, Coring

All casing strings will be tested in accordance with 43 CFR 3172
Casing strings will be pressure tested after cementing per 43 CFR 3172 and NMOCD requirements.
FIT/LOT will be performed at the surface and intermediate casing shoes to confirm integrity prior to drilling ahead.
GR will be run from surface to TD.
No cores or additional testing / logging planned.

Section 12: Variance Requests

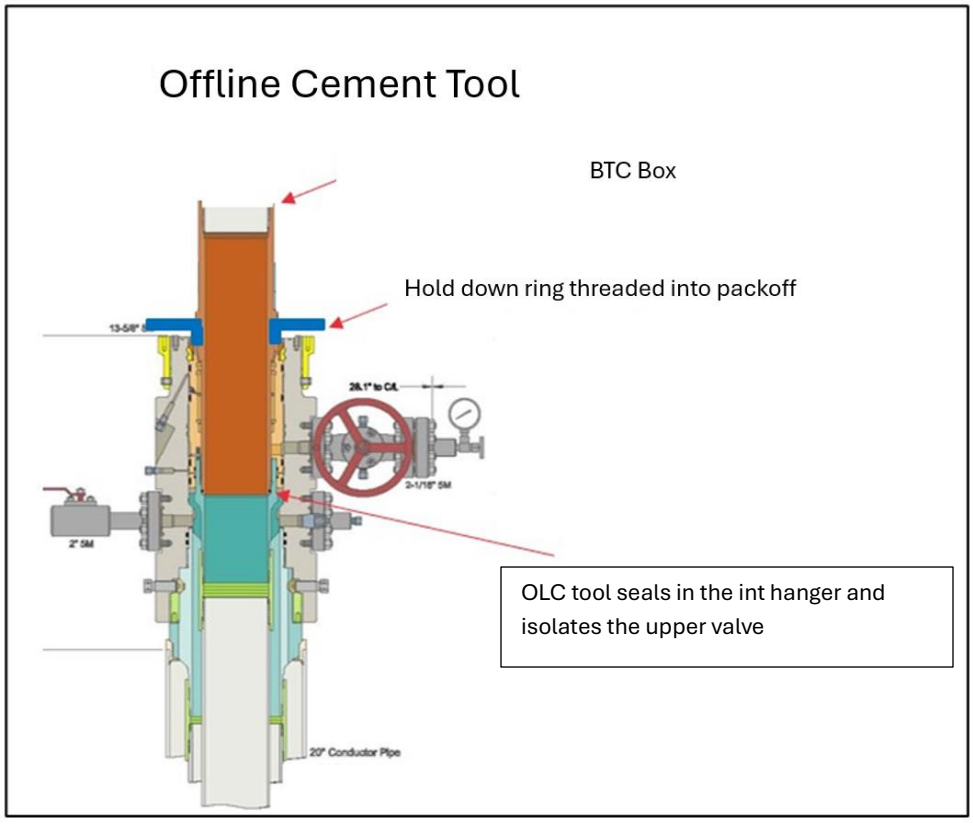
Var #	Type	Description of Request
1	**Offline Cementing**	Request to perform offline cementing of surface and intermediate casing when strings are set above the Wolfcamp formation. This allows rig operations to continue while cement sets. (see attached plan).
2	**Intermediate Second-Stage Bullheading**	Request to perform a second-stage cement job on intermediate casing by bullheading through the casing rather than circulating through drill pipe, if needed to achieve planned TOC.
3	**Coflex Choke Line**	Request to use a flexible choke line from the BOP to the choke manifold in place of rigid steel line, per manufacturer specifications.
4	**Break Testing**	Request to perform break testing of BOPE components on the intermediate hole section only, rather than full pressure tests, to verify integrity without over-testing.
5	**5M Test on 10M BOPE**	Request to test a 10,000 psi BOPE system to 5,000 psi for the intermediate hole section (MASP ~500 psi) rather than to full rating. Production section will be tested to 10,000 psi.
6	**Annular Test Pressure**	Request to test annular preventer to 70% of rated working pressure instead of full working pressure, consistent with API guidance.
7	**Multibowl Wellhead**	Request to utilize a multibowl wellhead system in lieu of a conventional wellhead.
8		
9		
10		

Section 13: List of Attachments

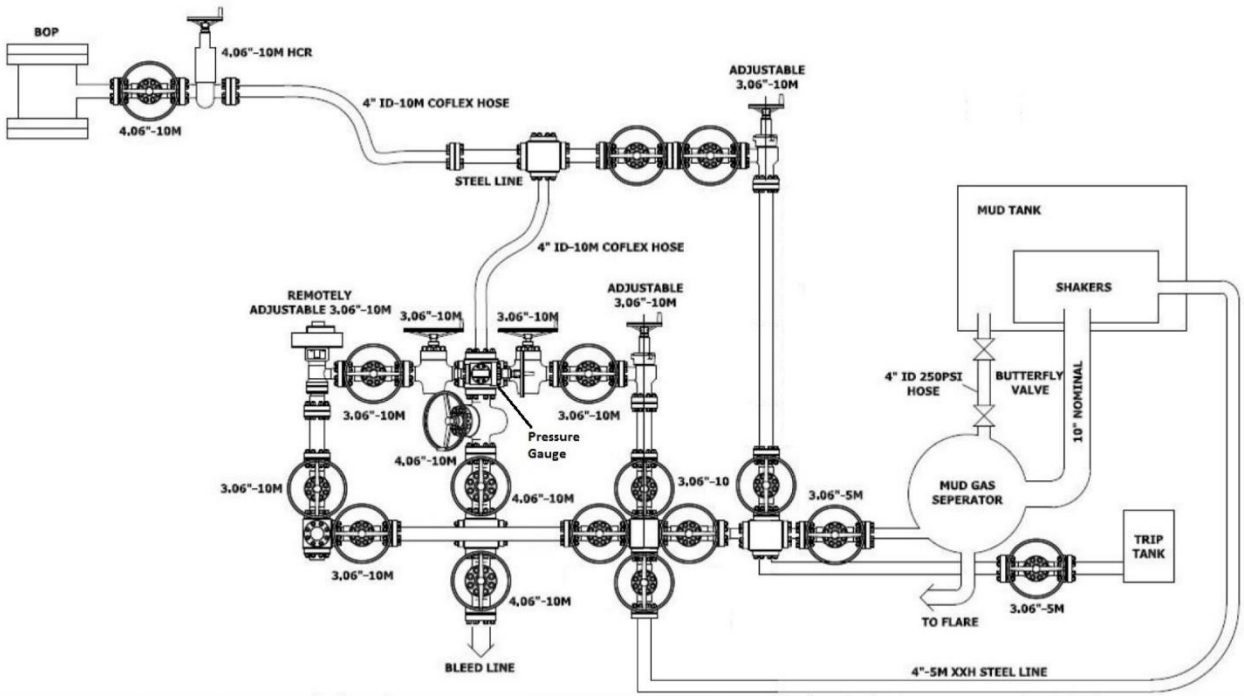
1	**Directional Plan**
2	**Offline Cementing and Well control attachment**
3	**H2S Contingency Plan**

Offline Cementing: Civitas requests a variance for the option to offline cement surface and intermediate casing strings set higher than Wolfcamp formations. To execute offline cement jobs safely, the following precautions and equipment are detailed below:

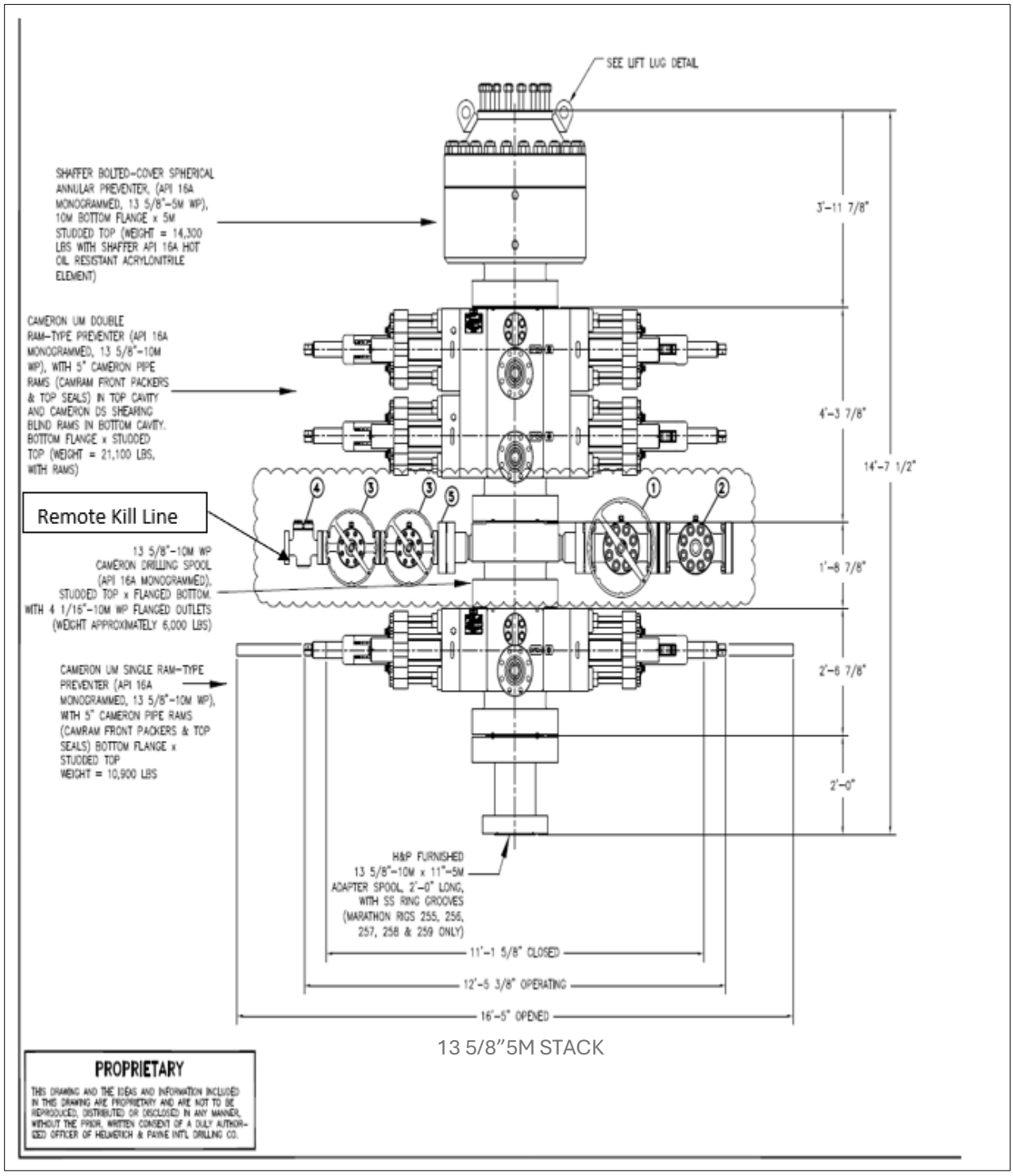
- For surface casing, no change to cement procedures to offline cement surface casing is anticipated.
- For intermediate casing, during the drilling of the intermediate hole section (all intermediate strings will be TD'd above the WCA top), hole conditions will be monitored and addressed to ensure for a successful casing run. In the event hole conditions change after running casing and/or the well is not in a static state, Civitas Resources can elect to pump the cement job online.
- Equipment for the offline cement job will include a tested/charted 5M working pressure dual manifold cement head system will be used with a standard offline cement tool that is packed off and tested through a port between the upper valve and packoff assembly (diagram below). Returns from the manifold will be taken to an auxiliary mud-gas separator during cement job. The operational scope is described in the following steps: the casing will be landed on the mandrel, pull tested, packoff installed and tested to 80% of collapse of casing on the top and bottom seals, nipple down BOP and install offline cement tool/manifold. The offline cement tool screws into the top of the packoff assembly. During the cement job, all returns will be taken through the A-Section valve (flanged). An example diagram of the tool is shown below:



10M Choke Layout

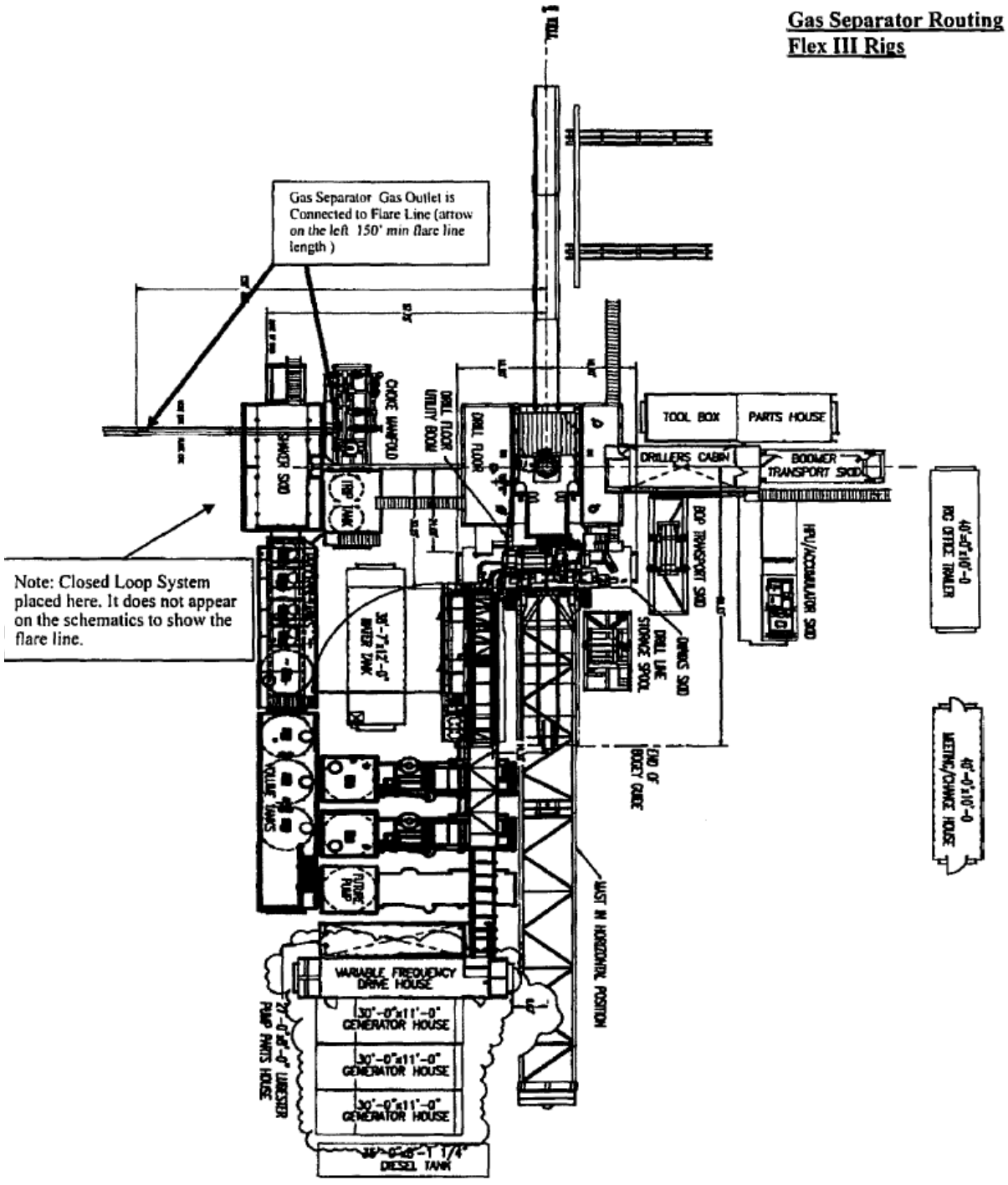


10M BOP Stack

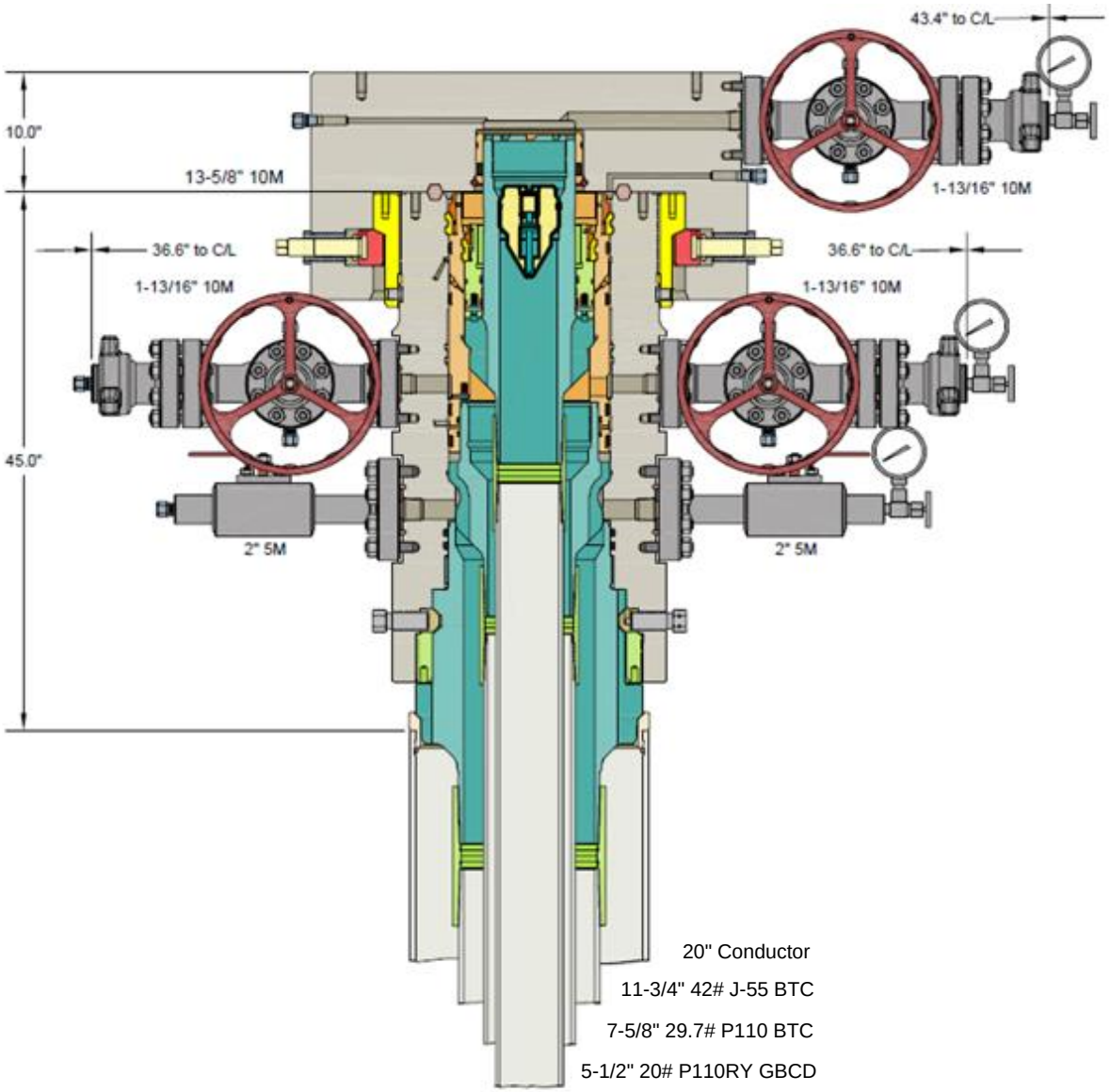


13 5/8"5M STACK

Gas Separator Routing
Flex III Rigs



Multi-bowl Wellhead Design

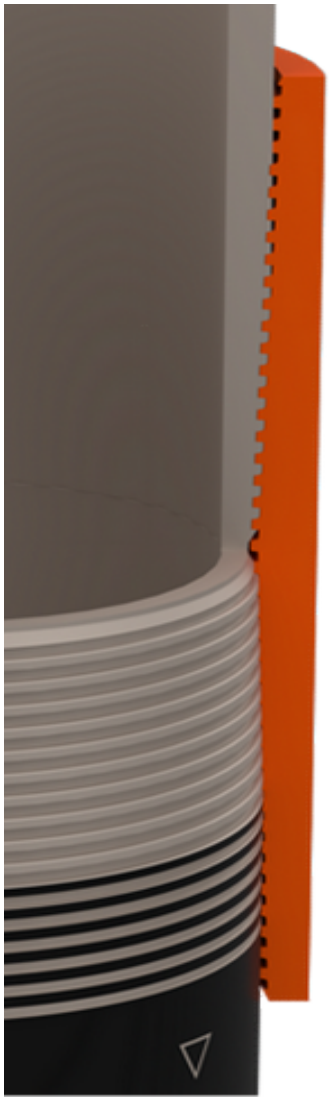


GBCONNECTIONS
ENGINEERING THE RIGHT CONNECTIONS

GB Connection Performance Properties Sheet

Rev. 0 (04/29/2025)

ENGINEERING THE RIGHT CONNECTIONS™



Casing: 5.5 OD, 20 ppf
Casing Grade: Benteler P110 RY (95% RBW)

Connection: GB CD Butt 6.300
Coupling Grade: API P-110

PIPE BODY GEOMETRY					
Nominal OD (in.)	5 1/2	Wall Thickness (in.)	0.361	Drift Diameter (in.)	4.653
Nominal Weight (ppf)	20.00	Nominal ID (in.)	4.778	API Alternate Drift Dia. (in.)	N/A
Plain End Weight (ppf)	19.83	Plain End Area (in.^{2})	5.828		

PIPE BODY PERFORMANCE**					
Material Specification	Benteler P110 RY (95% RBW)	Min. Yield Str. (psi)	110,000	Min. Ultimate Str. (psi)	125,000
Collapse		**Tension**		**Pressure**	
API (psi)	11,106	Pl. End Yield Str. (kips)	641	Min. Int. Yield Press. (psi)	13,720
High Collapse (psi)	-	**Torque**		**Bending**	
		Yield Torque (ft-lbs)	74,420	Build Rate to Yield (°/100 ft)	91.7

GB CD Butt 6.300 COUPLING GEOMETRY					
Coupling OD (in.)	6.300	Makeup Loss (in.)	4.2500		
Coupling Length (in.)	8.500	Critical Cross-Sect. (in.^{2})	8.527		

GB CD Butt 6.300 CONNECTION PERFORMANCE RATINGS/EFFICIENCIES					
Material Specification	API P-110	Min. Yield Str. (psi)	110,000	Min. Ultimate Str. (psi)	125,000
Tension		**Efficiency**		**Bending**	
Thread Str. (kips)	667	Internal Pressure (%)	100%	Build Rate to Yield (°/100 ft)	80.0
Min. Tension Yield (kips)	891	External Pressure (%)	100%	**Yield Torque**	
Min. Tension Ult. (kips)	1,013	Tension (%)	100%	Yield Torque (ft-lbs)	31,180
Joint Str. (kips)	667	Compression (%)	100%		
		Ratio of Areas (Cplg/Pipe)	1.46		

MAKEUP TORQUE					
Min. MU Tq. (ft-lbs)	10,000	Max. MU Tq. (ft-lbs)	20,000	Running Tq. (ft-lbs)	See GBC RP
				Max. Operating Tq. (ft-lbs)*	29,620

Units: US Customary (lbm, in., °F, lbf)
1 kip = 1,000 lbs
* See Running Procedure for description and limitations.
See attached: Notes for GB Connection Performance Properties.
GBC Running Procedure (GBC RP): www.gbconnections.com/resources/running-procedures/
Blanking Dimensions: www.gbconnections.com/resources/documentation/#blanking-dimensions
Connection yield torque rating based on physical testing or extrapolation therefrom
** Casing properties applicable to Benteler P110 RY (95% RBW) grade with min. yield 110 ksi.

Project: Lea County, NM (NAD 83)
Site: Junior Mint Fed Pad
Well: Junior Mint Fed 138H
Wellbore: OH
Design: Plan #2
Rig: 26' KB

CIVITAS

Azimuths to Grid North
True North: -0.52°
Magnetic North: 5.53°

Magnetic Field
Strength: 47061.9nT
Dip Angle: 59.57°
Date: 8/18/2025
Model: HDGM2025

Total Magnetic Correction: 5.53°

PROJECT DETAILS: Lea County, NM (NAD 83)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

Reference Datum: GE 3220 + 26 @ 3246.00usft (26' KB)

SHL

RKB Elevation: GE 3220 + 26 @ 3246.00usft (26' KB)

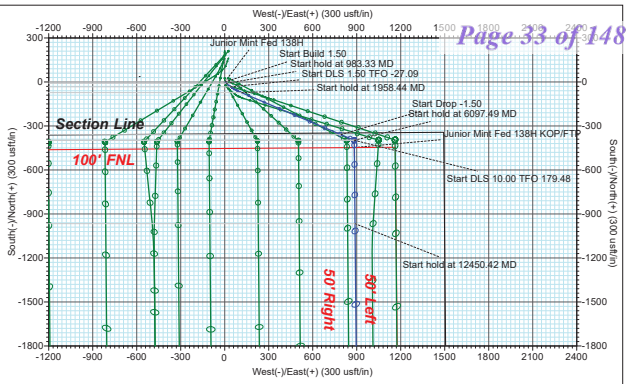
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	415541.00	845189.00	32.1385942	-103.3516709	

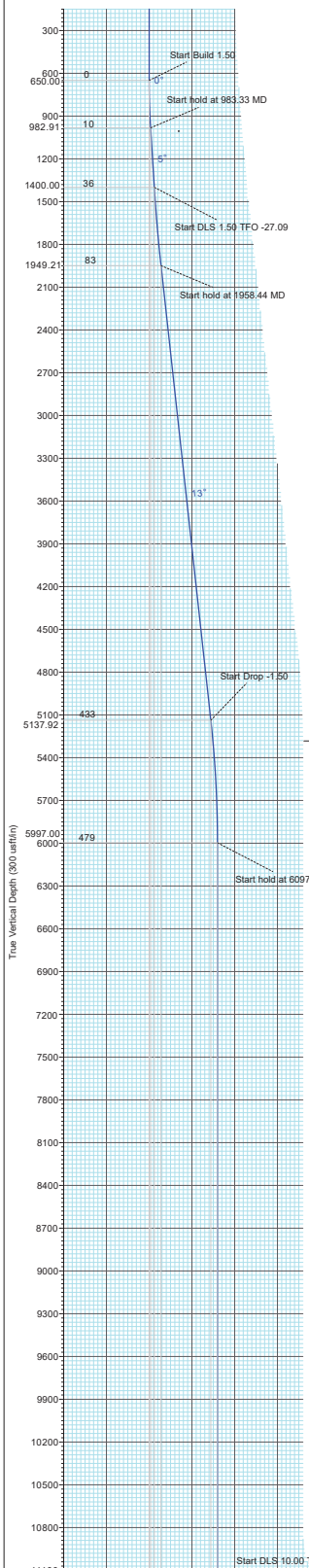
SECTION DETAILS

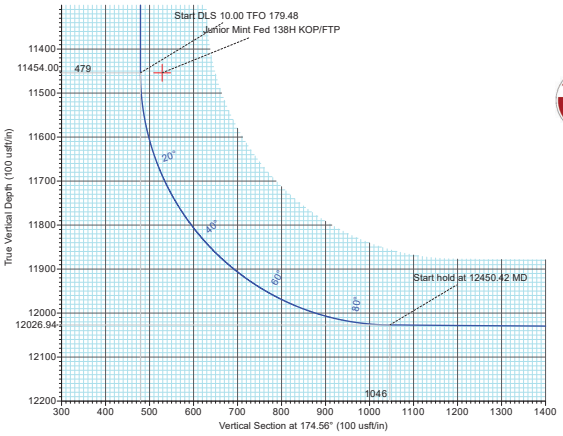
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
650.00	0.00	0.00	650.00	0.00	0.00	0.00	0.00	0.00	
983.33	5.00	130.00	982.91	-9.34	11.13	1.50	130.00	10.36	
1402.02	5.00	130.00	1400.00	-32.80	39.09	0.00	0.00	36.36	
1958.44	13.00	112.91	1949.21	-72.81	115.44	1.50	-27.09	83.43	
5230.99	13.00	112.91	5137.92	-359.30	793.41	0.00	0.00	432.90	
6097.49	0.00	0.00	5997.00	-397.39	883.55	1.50	180.00	479.36	
11554.49	0.00	0.00	11454.00	-397.39	883.55	0.00	0.00	479.36	
12450.42	89.59	179.48	12026.94	-966.26	888.72	10.00	179.48	1046.16	
22386.82	89.59	179.48	12097.40	-10902.00	979.00	0.00	0.00	10945.71	

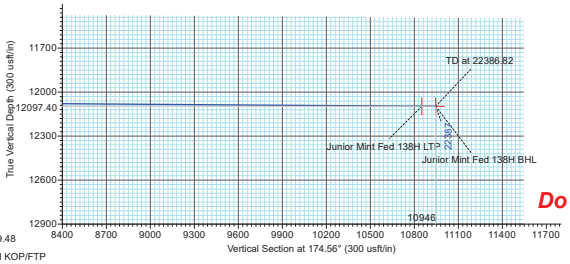
WELLBORE TARGET DETAILS

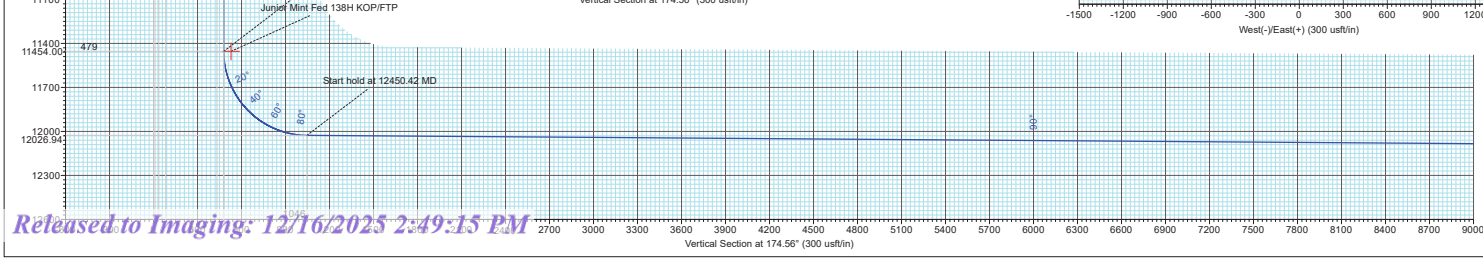
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Junior Mint Fed 138H KOP/FTP	11454.00	-447.00	884.00	415094.00	846073.00	32.1373434	-103.3488285
Junior Mint Fed 138H LTP	12097.00	-10807.00	978.00	404734.00	846167.00	32.1088661	-103.3488307
Junior Mint Fed 138H BHL	12097.40	-10902.00	979.00	404639.00	846168.00	32.1086050	-103.3488303

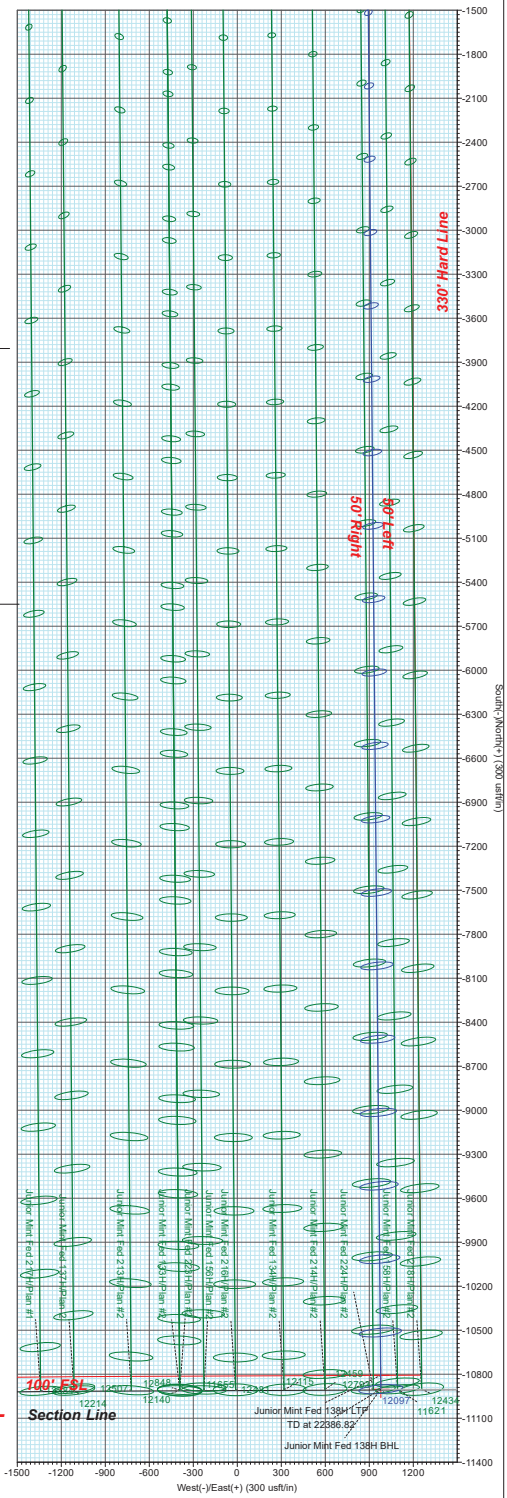












Do Not Cross SL

Civitas Resources

Lea County, NM (NAD 83)
Junior Mint Fed Pad
Junior Mint Fed 138H

OH

Plan: Plan #2

Total Directional
"Driven by TOTAL performance"
total

Standard Plan Report

18 August, 2025

Total Report Version 1.80

COMPASS 5000.16 Build 97

ATTENTION
All annotation callouts related to distances are uncertified and are approximated footages using available software and measurement tools. They should not be mistaken as an official record, which can only be obtained via a certified land surveyor.

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 138H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #2	**Database:**	.Total Directional Production DB

Project Lea County, NM (NAD 83)

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 Pad

Site Position:		**Northing:**	414,635.00 usft	**Latitude:**	32.1361627
From:	Map	**Easting:**	842,835.00 usft	**Longitude:**	-103.3593016
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "		

Well Junior Mint Fed 138H

Well Position	**+N/-S**	0.00 usft	**Northing:**	415,541.00 usft	**Latitude:**	32.1385942
	+E/-W	0.00 usft	**Easting:**	845,189.00 usft	**Longitude:**	-103.3516709
Position Uncertainty		0.50 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,220.00 usft
Grid Convergence:		0.52 °				

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	HDGM2025	8/18/2025	6.05	59.57	47,061.90000000

Design Plan #2

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**
	0.00	0.00	0.00	174.56

Survey Tool Program **Date** 8/18/2025

From (usft)	**To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
0.00	22,386.80	Plan #2 (OH)	MWD+HRGM+SAG+FDIF	OWSG MWD + HRGM + SAG + FDIR Correction

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 138H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #2	**Database:**	.Total Directional Production DB

Plan Summary

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
650.00	0.00	0.00	650.00	0.00	0.00	0.00	0.00	0.00	0.00	
983.33	5.00	130.00	982.91	-9.34	11.13	1.50	1.50	0.00	130.00	
1,402.02	5.00	130.00	1,400.00	-32.80	39.09	0.00	0.00	0.00	0.00	
1,958.44	13.00	112.91	1,949.21	-72.81	115.44	1.50	1.44	-3.07	-27.09	
5,230.99	13.00	112.91	5,137.92	-359.30	793.41	0.00	0.00	0.00	0.00	
6,097.49	0.00	0.00	5,997.00	-397.39	883.55	1.50	-1.50	0.00	180.00	
11,554.49	0.00	0.00	11,454.00	-397.39	883.55	0.00	0.00	0.00	0.00	
12,450.42	89.59	179.48	12,026.94	-966.26	888.72	10.00	10.00	20.03	179.48	
22,386.82	89.59	179.48	12,097.40	-10,902.00	979.00	0.00	0.00	0.00	0.00	

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	415,541.00	845,189.00	32.1385942	-103.3516709	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	415,541.00	845,189.00	32.1385942	-103.3516709	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	415,541.00	845,189.00	32.1385942	-103.3516709	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	415,541.00	845,189.00	32.1385942	-103.3516709	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	415,541.00	845,189.00	32.1385942	-103.3516709	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	415,541.00	845,189.00	32.1385942	-103.3516709	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	415,541.00	845,189.00	32.1385942	-103.3516709	0.00	0.00	0.00	0.00
650.00	0.00	0.00	650.00	0.00	0.00	415,541.00	845,189.00	32.1385942	-103.3516709	0.00	0.00	0.00	0.00
700.00	0.75	130.00	700.00	-0.21	0.25	415,540.79	845,189.25	32.1385936	-103.3516701	0.23	1.50	1.50	0.00
800.00	2.25	130.00	799.96	-1.89	2.26	415,539.11	845,191.26	32.1385889	-103.3516637	2.10	1.50	1.50	0.00
900.00	3.75	130.00	899.82	-5.26	6.26	415,535.74	845,195.26	32.1385796	-103.3516508	5.83	1.50	1.50	0.00
983.33	5.00	130.00	982.91	-9.34	11.13	415,531.66	845,200.13	32.1385682	-103.3516352	10.36	1.50	1.50	0.00
1,000.00	5.00	130.00	999.51	-10.28	12.25	415,530.72	845,201.25	32.1385656	-103.3516317	11.39	0.00	0.00	0.00
1,100.00	5.00	130.00	1,099.13	-15.88	18.92	415,525.12	845,207.92	32.1385501	-103.3516103	17.60	0.00	0.00	0.00
1,200.00	5.00	130.00	1,198.75	-21.48	25.60	415,519.52	845,214.60	32.1385345	-103.3515889	23.81	0.00	0.00	0.00
1,300.00	5.00	130.00	1,298.37	-27.08	32.28	415,513.92	845,221.28	32.1385189	-103.3515675	30.02	0.00	0.00	0.00
1,402.02	5.00	130.00	1,400.00	-32.80	39.09	415,508.20	845,228.09	32.1385031	-103.3515456	36.36	0.00	0.00	0.00
1,500.00	6.34	123.93	1,497.50	-38.57	46.85	415,502.43	845,235.85	32.1384870	-103.3515207	42.83	1.50	1.37	-6.19
1,600.00	7.76	119.94	1,596.74	-45.02	57.29	415,495.98	845,246.29	32.1384690	-103.3514872	50.25	1.50	1.42	-3.99
1,700.00	9.21	117.18	1,695.65	-52.05	70.26	415,488.95	845,259.26	32.1384494	-103.3514455	58.47	1.50	1.44	-2.76
1,800.00	10.67	115.17	1,794.15	-59.64	85.75	415,481.36	845,274.75	32.1384281	-103.3513957	67.50	1.50	1.46	-2.01
1,900.00	12.14	113.64	1,892.17	-67.79	103.75	415,473.21	845,292.75	32.1384053	-103.3513378	77.32	1.50	1.47	-1.53
1,958.44	13.00	112.91	1,949.21	-72.81	115.44	415,468.19	845,304.44	32.1383912	-103.3513002	83.43	1.50	1.47	-1.26
2,000.00	13.00	112.91	1,989.70	-76.45	124.04	415,464.55	845,313.04	32.1383809	-103.3512725	87.86	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 138H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #2	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,100.00	13.00	112.91	2,087.14	-85.20	144.76	415,455.80	845,333.76	32.1383564	-103.3512058	98.54	0.00	0.00	0.00
2,200.00	13.00	112.91	2,184.58	-93.96	165.48	415,447.04	845,354.48	32.1383318	-103.3511391	109.22	0.00	0.00	0.00
2,300.00	13.00	112.91	2,282.02	-102.71	186.20	415,438.29	845,375.20	32.1383072	-103.3510725	119.90	0.00	0.00	0.00
2,400.00	13.00	112.91	2,379.46	-111.47	206.91	415,429.53	845,395.91	32.1382826	-103.3510058	130.58	0.00	0.00	0.00
2,500.00	13.00	112.91	2,476.89	-120.22	227.63	415,420.78	845,416.63	32.1382580	-103.3509392	141.26	0.00	0.00	0.00
2,600.00	13.00	112.91	2,574.33	-128.97	248.35	415,412.03	845,437.35	32.1382335	-103.3508725	151.94	0.00	0.00	0.00
2,700.00	13.00	112.91	2,671.77	-137.73	269.06	415,403.27	845,458.06	32.1382089	-103.3508058	162.62	0.00	0.00	0.00
2,800.00	13.00	112.91	2,769.21	-146.48	289.78	415,394.52	845,478.78	32.1381843	-103.3507392	173.30	0.00	0.00	0.00
2,900.00	13.00	112.91	2,866.65	-155.24	310.50	415,385.76	845,499.50	32.1381597	-103.3506725	183.97	0.00	0.00	0.00
3,000.00	13.00	112.91	2,964.08	-163.99	331.21	415,377.01	845,520.21	32.1381351	-103.3506058	194.65	0.00	0.00	0.00
3,100.00	13.00	112.91	3,061.52	-172.75	351.93	415,368.25	845,540.93	32.1381106	-103.3505392	205.33	0.00	0.00	0.00
3,200.00	13.00	112.91	3,158.96	-181.50	372.65	415,359.50	845,561.65	32.1380860	-103.3504725	216.01	0.00	0.00	0.00
3,300.00	13.00	112.91	3,256.40	-190.25	393.37	415,350.75	845,582.37	32.1380614	-103.3504058	226.69	0.00	0.00	0.00
3,400.00	13.00	112.91	3,353.84	-199.01	414.08	415,341.99	845,603.08	32.1380368	-103.3503392	237.37	0.00	0.00	0.00
3,500.00	13.00	112.91	3,451.27	-207.76	434.80	415,333.24	845,623.80	32.1380122	-103.3502725	248.05	0.00	0.00	0.00
3,600.00	13.00	112.91	3,548.71	-216.52	455.52	415,324.48	845,644.52	32.1379877	-103.3502059	258.73	0.00	0.00	0.00
3,700.00	13.00	112.91	3,646.15	-225.27	476.23	415,315.73	845,665.23	32.1379631	-103.3501392	269.41	0.00	0.00	0.00
3,800.00	13.00	112.91	3,743.59	-234.03	496.95	415,306.97	845,685.95	32.1379385	-103.3500725	280.08	0.00	0.00	0.00
3,900.00	13.00	112.91	3,841.03	-242.78	517.67	415,298.22	845,706.67	32.1379139	-103.3500059	290.76	0.00	0.00	0.00
4,000.00	13.00	112.91	3,938.47	-251.53	538.38	415,289.47	845,727.38	32.1378893	-103.3499392	301.44	0.00	0.00	0.00
4,100.00	13.00	112.91	4,035.90	-260.29	559.10	415,280.71	845,748.10	32.1378647	-103.3498725	312.12	0.00	0.00	0.00
4,200.00	13.00	112.91	4,133.34	-269.04	579.82	415,271.96	845,768.82	32.1378402	-103.3498059	322.80	0.00	0.00	0.00
4,300.00	13.00	112.91	4,230.78	-277.80	600.53	415,263.20	845,789.53	32.1378156	-103.3497392	333.48	0.00	0.00	0.00
4,400.00	13.00	112.91	4,328.22	-286.55	621.25	415,254.45	845,810.25	32.1377910	-103.3496725	344.16	0.00	0.00	0.00
4,500.00	13.00	112.91	4,425.66	-295.31	641.97	415,245.69	845,830.97	32.1377664	-103.3496059	354.84	0.00	0.00	0.00
4,600.00	13.00	112.91	4,523.09	-304.06	662.69	415,236.94	845,851.69	32.1377418	-103.3495392	365.52	0.00	0.00	0.00
4,700.00	13.00	112.91	4,620.53	-312.81	683.40	415,228.19	845,872.40	32.1377173	-103.3494726	376.19	0.00	0.00	0.00
4,800.00	13.00	112.91	4,717.97	-321.57	704.12	415,219.43	845,893.12	32.1376927	-103.3494059	386.87	0.00	0.00	0.00
4,900.00	13.00	112.91	4,815.41	-330.32	724.84	415,210.68	845,913.84	32.1376681	-103.3493392	397.55	0.00	0.00	0.00
5,000.00	13.00	112.91	4,912.85	-339.08	745.55	415,201.92	845,934.55	32.1376435	-103.3492726	408.23	0.00	0.00	0.00
5,100.00	13.00	112.91	5,010.28	-347.83	766.27	415,193.17	845,955.27	32.1376189	-103.3492059	418.91	0.00	0.00	0.00
5,200.00	13.00	112.91	5,107.72	-356.59	786.99	415,184.41	845,975.99	32.1375943	-103.3491392	429.59	0.00	0.00	0.00
5,230.99	13.00	112.91	5,137.92	-359.30	793.41	415,181.70	845,982.41	32.1375867	-103.3491186	432.90	0.00	0.00	0.00
5,300.00	11.96	112.91	5,205.30	-365.10	807.14	415,175.90	845,996.14	32.1375704	-103.3490744	439.98	1.50	-1.50	0.00
5,400.00	10.46	112.91	5,303.38	-372.67	825.05	415,168.33	846,014.05	32.1375492	-103.3490167	449.21	1.50	-1.50	0.00
5,500.00	8.96	112.91	5,401.95	-379.24	840.59	415,161.76	846,029.59	32.1375307	-103.3489667	457.22	1.50	-1.50	0.00
5,600.00	7.46	112.91	5,500.92	-384.80	853.75	415,156.20	846,042.75	32.1375151	-103.3489244	464.00	1.50	-1.50	0.00

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 138H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #2	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,700.00	5.96	112.91	5,600.23	-389.35	864.52	415,151.65	846,053.52	32.1375024	-103.3488898	469.55	1.50	-1.50	0.00
5,800.00	4.46	112.91	5,699.82	-392.88	872.88	415,148.12	846,061.88	32.1374924	-103.3488628	473.87	1.50	-1.50	0.00
5,900.00	2.96	112.91	5,799.60	-395.40	878.85	415,145.60	846,067.85	32.1374853	-103.3488436	476.94	1.50	-1.50	0.00
6,000.00	1.46	112.91	5,899.53	-396.91	882.40	415,144.09	846,071.40	32.1374811	-103.3488322	478.77	1.50	-1.50	0.00
6,097.49	0.00	0.00	5,997.00	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	1.50	-1.50	0.00
6,100.00	0.00	0.00	5,999.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
6,200.00	0.00	0.00	6,099.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
6,300.00	0.00	0.00	6,199.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
6,400.00	0.00	0.00	6,299.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
6,500.00	0.00	0.00	6,399.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
6,600.00	0.00	0.00	6,499.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
6,700.00	0.00	0.00	6,599.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
6,800.00	0.00	0.00	6,699.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
6,900.00	0.00	0.00	6,799.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
7,000.00	0.00	0.00	6,899.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
7,100.00	0.00	0.00	6,999.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
7,200.00	0.00	0.00	7,099.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
7,300.00	0.00	0.00	7,199.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
7,400.00	0.00	0.00	7,299.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
7,500.00	0.00	0.00	7,399.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
7,600.00	0.00	0.00	7,499.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
7,700.00	0.00	0.00	7,599.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
7,800.00	0.00	0.00	7,699.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
7,900.00	0.00	0.00	7,799.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
8,000.00	0.00	0.00	7,899.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
8,100.00	0.00	0.00	7,999.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
8,200.00	0.00	0.00	8,099.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
8,300.00	0.00	0.00	8,199.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
8,400.00	0.00	0.00	8,299.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
8,500.00	0.00	0.00	8,399.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
8,600.00	0.00	0.00	8,499.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
8,700.00	0.00	0.00	8,599.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
8,800.00	0.00	0.00	8,699.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
8,900.00	0.00	0.00	8,799.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
9,000.00	0.00	0.00	8,899.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
9,100.00	0.00	0.00	8,999.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
9,200.00	0.00	0.00	9,099.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
9,300.00	0.00	0.00	9,199.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 138H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #2	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,400.00	0.00	0.00	9,299.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
9,500.00	0.00	0.00	9,399.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
9,600.00	0.00	0.00	9,499.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
9,700.00	0.00	0.00	9,599.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
9,800.00	0.00	0.00	9,699.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
9,900.00	0.00	0.00	9,799.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
10,000.00	0.00	0.00	9,899.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
10,100.00	0.00	0.00	9,999.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
10,200.00	0.00	0.00	10,099.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
10,300.00	0.00	0.00	10,199.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
10,400.00	0.00	0.00	10,299.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
10,500.00	0.00	0.00	10,399.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
10,600.00	0.00	0.00	10,499.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
10,700.00	0.00	0.00	10,599.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
10,800.00	0.00	0.00	10,699.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
10,900.00	0.00	0.00	10,799.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
11,000.00	0.00	0.00	10,899.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
11,100.00	0.00	0.00	10,999.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
11,200.00	0.00	0.00	11,099.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
11,300.00	0.00	0.00	11,199.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
11,400.00	0.00	0.00	11,299.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
11,500.00	0.00	0.00	11,399.52	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
11,554.49	0.00	0.00	11,454.00	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.36	0.00	0.00	0.00
11,556.46	0.20	179.48	11,455.97	-397.39	883.55	415,143.61	846,072.55	32.1374798	-103.3488285	479.37	10.00	10.00	0.00
Junior Mint Fed 138H KOP/FTP													
11,600.00	4.55	179.48	11,499.47	-399.20	883.57	415,141.80	846,072.57	32.1374748	-103.3488285	481.16	10.00	10.00	0.00
11,650.00	9.55	179.48	11,549.07	-405.33	883.62	415,135.67	846,072.62	32.1374579	-103.3488285	487.28	10.00	10.00	0.00
11,700.00	14.55	179.48	11,597.96	-415.77	883.72	415,125.23	846,072.72	32.1374293	-103.3488285	497.68	10.00	10.00	0.00
11,750.00	19.55	179.48	11,645.74	-430.42	883.85	415,110.58	846,072.85	32.1373890	-103.3488285	512.28	10.00	10.00	0.00
11,800.00	24.55	179.48	11,692.07	-449.19	884.02	415,091.81	846,073.02	32.1373374	-103.3488285	530.97	10.00	10.00	0.00
11,850.00	29.55	179.48	11,736.59	-471.92	884.23	415,069.08	846,073.23	32.1372749	-103.3488285	553.62	10.00	10.00	0.00
11,900.00	34.55	179.48	11,778.95	-498.45	884.47	415,042.55	846,073.47	32.1372020	-103.3488285	580.05	10.00	10.00	0.00
11,950.00	39.55	179.48	11,818.84	-528.56	884.74	415,012.44	846,073.74	32.1371192	-103.3488285	610.06	10.00	10.00	0.00
12,000.00	44.55	179.48	11,855.96	-562.04	885.05	414,978.96	846,074.05	32.1370272	-103.3488285	643.41	10.00	10.00	0.00
12,050.00	49.55	179.48	11,890.02	-598.62	885.38	414,942.38	846,074.38	32.1369266	-103.3488286	679.87	10.00	10.00	0.00
12,100.00	54.55	179.48	11,920.75	-638.04	885.74	414,902.96	846,074.74	32.1368183	-103.3488286	719.14	10.00	10.00	0.00
12,150.00	59.55	179.48	11,947.94	-679.98	886.12	414,861.02	846,075.12	32.1367030	-103.3488286	760.93	10.00	10.00	0.00

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 138H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #2	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,200.00	64.55	179.48	11,971.37	-724.13	886.52	414,816.87	846,075.52	32.1365816	-103.3488286	804.92	10.00	10.00	0.00
12,250.00	69.55	179.48	11,990.85	-770.16	886.94	414,770.84	846,075.94	32.1364551	-103.3488286	850.78	10.00	10.00	0.00
12,300.00	74.55	179.48	12,006.26	-817.71	887.37	414,723.29	846,076.37	32.1363244	-103.3488286	898.15	10.00	10.00	0.00
12,350.00	79.55	179.48	12,017.46	-866.42	887.81	414,674.58	846,076.81	32.1361905	-103.3488286	946.69	10.00	10.00	0.00
12,400.00	84.55	179.48	12,024.37	-915.92	888.26	414,625.08	846,077.26	32.1360544	-103.3488286	996.01	10.00	10.00	0.00
12,450.42	89.59	179.48	12,026.94	-966.26	888.72	414,574.74	846,077.72	32.1359161	-103.3488286	1,046.16	10.00	10.00	0.00
12,500.00	89.59	179.48	12,027.30	-1,015.84	889.17	414,525.16	846,078.17	32.1357798	-103.3488286	1,095.56	0.00	0.00	0.00
12,600.00	89.59	179.48	12,028.00	-1,115.83	890.08	414,425.17	846,079.08	32.1355049	-103.3488286	1,195.19	0.00	0.00	0.00
12,700.00	89.59	179.48	12,028.71	-1,215.82	890.99	414,325.18	846,079.99	32.1352301	-103.3488287	1,294.82	0.00	0.00	0.00
12,800.00	89.59	179.48	12,029.42	-1,315.82	891.90	414,225.18	846,080.90	32.1349552	-103.3488287	1,394.44	0.00	0.00	0.00
12,900.00	89.59	179.48	12,030.13	-1,415.81	892.80	414,125.19	846,081.80	32.1346804	-103.3488287	1,494.07	0.00	0.00	0.00
13,000.00	89.59	179.48	12,030.84	-1,515.80	893.71	414,025.20	846,082.71	32.1344055	-103.3488287	1,593.70	0.00	0.00	0.00
13,100.00	89.59	179.48	12,031.55	-1,615.80	894.62	413,925.20	846,083.62	32.1341307	-103.3488287	1,693.33	0.00	0.00	0.00
13,200.00	89.59	179.48	12,032.26	-1,715.79	895.53	413,825.21	846,084.53	32.1338558	-103.3488287	1,792.96	0.00	0.00	0.00
13,300.00	89.59	179.48	12,032.97	-1,815.78	896.44	413,725.22	846,085.44	32.1335809	-103.3488288	1,892.59	0.00	0.00	0.00
13,400.00	89.59	179.48	12,033.68	-1,915.78	897.35	413,625.22	846,086.35	32.1333061	-103.3488288	1,992.22	0.00	0.00	0.00
13,500.00	89.59	179.48	12,034.39	-2,015.77	898.26	413,525.23	846,087.26	32.1330312	-103.3488288	2,091.85	0.00	0.00	0.00
13,600.00	89.59	179.48	12,035.10	-2,115.76	899.16	413,425.24	846,088.16	32.1327564	-103.3488288	2,191.48	0.00	0.00	0.00
13,700.00	89.59	179.48	12,035.80	-2,215.76	900.07	413,325.24	846,089.07	32.1324815	-103.3488288	2,291.11	0.00	0.00	0.00
13,800.00	89.59	179.48	12,036.51	-2,315.75	900.98	413,225.25	846,089.98	32.1322066	-103.3488289	2,390.74	0.00	0.00	0.00
13,900.00	89.59	179.48	12,037.22	-2,415.74	901.89	413,125.26	846,090.89	32.1319318	-103.3488289	2,490.36	0.00	0.00	0.00
14,000.00	89.59	179.48	12,037.93	-2,515.74	902.80	413,025.26	846,091.80	32.1316569	-103.3488289	2,589.99	0.00	0.00	0.00
14,100.00	89.59	179.48	12,038.64	-2,615.73	903.71	412,925.27	846,092.71	32.1313821	-103.3488289	2,689.62	0.00	0.00	0.00
14,200.00	89.59	179.48	12,039.35	-2,715.72	904.62	412,825.28	846,093.62	32.1311072	-103.3488289	2,789.25	0.00	0.00	0.00
14,300.00	89.59	179.48	12,040.06	-2,815.72	905.52	412,725.28	846,094.52	32.1308324	-103.3488289	2,888.88	0.00	0.00	0.00
14,400.00	89.59	179.48	12,040.77	-2,915.71	906.43	412,625.29	846,095.43	32.1305575	-103.3488290	2,988.51	0.00	0.00	0.00
14,500.00	89.59	179.48	12,041.48	-3,015.70	907.34	412,525.30	846,096.34	32.1302826	-103.3488290	3,088.14	0.00	0.00	0.00
14,600.00	89.59	179.48	12,042.19	-3,115.70	908.25	412,425.30	846,097.25	32.1300078	-103.3488290	3,187.77	0.00	0.00	0.00
14,700.00	89.59	179.48	12,042.89	-3,215.69	909.16	412,325.31	846,098.16	32.1297329	-103.3488290	3,287.40	0.00	0.00	0.00
14,800.00	89.59	179.48	12,043.60	-3,315.68	910.07	412,225.32	846,099.07	32.1294581	-103.3488290	3,387.03	0.00	0.00	0.00
14,900.00	89.59	179.48	12,044.31	-3,415.68	910.98	412,125.32	846,099.98	32.1291832	-103.3488290	3,486.66	0.00	0.00	0.00
15,000.00	89.59	179.48	12,045.02	-3,515.67	911.88	412,025.33	846,100.88	32.1289083	-103.3488291	3,586.29	0.00	0.00	0.00
15,100.00	89.59	179.48	12,045.73	-3,615.66	912.79	411,925.34	846,101.79	32.1286335	-103.3488291	3,685.91	0.00	0.00	0.00
15,200.00	89.59	179.48	12,046.44	-3,715.66	913.70	411,825.34	846,102.70	32.1283586	-103.3488291	3,785.54	0.00	0.00	0.00
15,300.00	89.59	179.48	12,047.15	-3,815.65	914.61	411,725.35	846,103.61	32.1280838	-103.3488291	3,885.17	0.00	0.00	0.00
15,400.00	89.59	179.48	12,047.86	-3,915.64	915.52	411,625.36	846,104.52	32.1278089	-103.3488291	3,984.80	0.00	0.00	0.00
15,500.00	89.59	179.48	12,048.57	-4,015.64	916.43	411,525.36	846,105.43	32.1275341	-103.3488291	4,084.43	0.00	0.00	0.00
15,600.00	89.59	179.48	12,049.28	-4,115.63	917.34	411,425.37	846,106.34	32.1272592	-103.3488292	4,184.06	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 138H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #2	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,700.00	89.59	179.48	12,049.99	-4,215.62	918.24	411,325.38	846,107.24	32.1269843	-103.3488292	4,283.69	0.00	0.00	0.00
15,800.00	89.59	179.48	12,050.69	-4,315.62	919.15	411,225.38	846,108.15	32.1267095	-103.3488292	4,383.32	0.00	0.00	0.00
15,900.00	89.59	179.48	12,051.40	-4,415.61	920.06	411,125.39	846,109.06	32.1264346	-103.3488292	4,482.95	0.00	0.00	0.00
16,000.00	89.59	179.48	12,052.11	-4,515.60	920.97	411,025.40	846,109.97	32.1261598	-103.3488292	4,582.58	0.00	0.00	0.00
16,100.00	89.59	179.48	12,052.82	-4,615.60	921.88	410,925.40	846,110.88	32.1258849	-103.3488292	4,682.21	0.00	0.00	0.00
16,200.00	89.59	179.48	12,053.53	-4,715.59	922.79	410,825.41	846,111.79	32.1256100	-103.3488293	4,781.83	0.00	0.00	0.00
16,300.00	89.59	179.48	12,054.24	-4,815.58	923.70	410,725.42	846,112.70	32.1253352	-103.3488293	4,881.46	0.00	0.00	0.00
16,400.00	89.59	179.48	12,054.95	-4,915.58	924.60	410,625.42	846,113.60	32.1250603	-103.3488293	4,981.09	0.00	0.00	0.00
16,500.00	89.59	179.48	12,055.66	-5,015.57	925.51	410,525.43	846,114.51	32.1247855	-103.3488293	5,080.72	0.00	0.00	0.00
16,600.00	89.59	179.48	12,056.37	-5,115.56	926.42	410,425.44	846,115.42	32.1245106	-103.3488293	5,180.35	0.00	0.00	0.00
16,700.00	89.59	179.48	12,057.08	-5,215.56	927.33	410,325.44	846,116.33	32.1242357	-103.3488293	5,279.98	0.00	0.00	0.00
16,800.00	89.59	179.48	12,057.79	-5,315.55	928.24	410,225.45	846,117.24	32.1239609	-103.3488294	5,379.61	0.00	0.00	0.00
16,900.00	89.59	179.48	12,058.49	-5,415.54	929.15	410,125.46	846,118.15	32.1236860	-103.3488294	5,479.24	0.00	0.00	0.00
17,000.00	89.59	179.48	12,059.20	-5,515.54	930.06	410,025.46	846,119.06	32.1234112	-103.3488294	5,578.87	0.00	0.00	0.00
17,100.00	89.59	179.48	12,059.91	-5,615.53	930.96	409,925.47	846,119.96	32.1231363	-103.3488294	5,678.50	0.00	0.00	0.00
17,200.00	89.59	179.48	12,060.62	-5,715.52	931.87	409,825.48	846,120.87	32.1228615	-103.3488294	5,778.13	0.00	0.00	0.00
17,300.00	89.59	179.48	12,061.33	-5,815.52	932.78	409,725.48	846,121.78	32.1225866	-103.3488294	5,877.76	0.00	0.00	0.00
17,400.00	89.59	179.48	12,062.04	-5,915.51	933.69	409,625.49	846,122.69	32.1223117	-103.3488295	5,977.38	0.00	0.00	0.00
17,500.00	89.59	179.48	12,062.75	-6,015.50	934.60	409,525.50	846,123.60	32.1220369	-103.3488295	6,077.01	0.00	0.00	0.00
17,600.00	89.59	179.48	12,063.46	-6,115.50	935.51	409,425.50	846,124.51	32.1217620	-103.3488295	6,176.64	0.00	0.00	0.00
17,700.00	89.59	179.48	12,064.17	-6,215.49	936.42	409,325.51	846,125.42	32.1214872	-103.3488295	6,276.27	0.00	0.00	0.00
17,800.00	89.59	179.48	12,064.88	-6,315.48	937.32	409,225.52	846,126.32	32.1212123	-103.3488295	6,375.90	0.00	0.00	0.00
17,900.00	89.59	179.48	12,065.59	-6,415.48	938.23	409,125.52	846,127.23	32.1209374	-103.3488295	6,475.53	0.00	0.00	0.00
18,000.00	89.59	179.48	12,066.29	-6,515.47	939.14	409,025.53	846,128.14	32.1206626	-103.3488296	6,575.16	0.00	0.00	0.00
18,100.00	89.59	179.48	12,067.00	-6,615.46	940.05	408,925.54	846,129.05	32.1203877	-103.3488296	6,674.79	0.00	0.00	0.00
18,200.00	89.59	179.48	12,067.71	-6,715.46	940.96	408,825.54	846,129.96	32.1201129	-103.3488296	6,774.42	0.00	0.00	0.00
18,300.00	89.59	179.48	12,068.42	-6,815.45	941.87	408,725.55	846,130.87	32.1198380	-103.3488296	6,874.05	0.00	0.00	0.00
18,400.00	89.59	179.48	12,069.13	-6,915.44	942.78	408,625.56	846,131.78	32.1195631	-103.3488296	6,973.68	0.00	0.00	0.00
18,500.00	89.59	179.48	12,069.84	-7,015.44	943.68	408,525.56	846,132.68	32.1192883	-103.3488296	7,073.30	0.00	0.00	0.00
18,600.00	89.59	179.48	12,070.55	-7,115.43	944.59	408,425.57	846,133.59	32.1190134	-103.3488297	7,172.93	0.00	0.00	0.00
18,700.00	89.59	179.48	12,071.26	-7,215.42	945.50	408,325.58	846,134.50	32.1187386	-103.3488297	7,272.56	0.00	0.00	0.00
18,800.00	89.59	179.48	12,071.97	-7,315.42	946.41	408,225.58	846,135.41	32.1184637	-103.3488297	7,372.19	0.00	0.00	0.00
18,900.00	89.59	179.48	12,072.68	-7,415.41	947.32	408,125.59	846,136.32	32.1181888	-103.3488297	7,471.82	0.00	0.00	0.00
19,000.00	89.59	179.48	12,073.39	-7,515.40	948.23	408,025.60	846,137.23	32.1179140	-103.3488297	7,571.45	0.00	0.00	0.00
19,100.00	89.59	179.48	12,074.09	-7,615.40	949.14	407,925.60	846,138.14	32.1176391	-103.3488297	7,671.08	0.00	0.00	0.00
19,200.00	89.59	179.48	12,074.80	-7,715.39	950.04	407,825.61	846,139.04	32.1173643	-103.3488298	7,770.71	0.00	0.00	0.00
19,300.00	89.59	179.48	12,075.51	-7,815.38	950.95	407,725.62	846,139.95	32.1170894	-103.3488298	7,870.34	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 138H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #2	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,400.00	89.59	179.48	12,076.22	-7,915.38	951.86	407,625.62	846,140.86	32.1168146	-103.3488298	7,969.97	0.00	0.00	0.00
19,500.00	89.59	179.48	12,076.93	-8,015.37	952.77	407,525.63	846,141.77	32.1165397	-103.3488298	8,069.60	0.00	0.00	0.00
19,600.00	89.59	179.48	12,077.64	-8,115.36	953.68	407,425.64	846,142.68	32.1162648	-103.3488298	8,169.23	0.00	0.00	0.00
19,700.00	89.59	179.48	12,078.35	-8,215.36	954.59	407,325.64	846,143.59	32.1159900	-103.3488298	8,268.85	0.00	0.00	0.00
19,800.00	89.59	179.48	12,079.06	-8,315.35	955.50	407,225.65	846,144.50	32.1157151	-103.3488298	8,368.48	0.00	0.00	0.00
19,900.00	89.59	179.48	12,079.77	-8,415.34	956.41	407,125.66	846,145.41	32.1154403	-103.3488299	8,468.11	0.00	0.00	0.00
20,000.00	89.59	179.48	12,080.48	-8,515.34	957.31	407,025.66	846,146.31	32.1151654	-103.3488299	8,567.74	0.00	0.00	0.00
20,100.00	89.59	179.48	12,081.18	-8,615.33	958.22	406,925.67	846,147.22	32.1148905	-103.3488299	8,667.37	0.00	0.00	0.00
20,200.00	89.59	179.48	12,081.89	-8,715.32	959.13	406,825.68	846,148.13	32.1146157	-103.3488299	8,767.00	0.00	0.00	0.00
20,300.00	89.59	179.48	12,082.60	-8,815.32	960.04	406,725.68	846,149.04	32.1143408	-103.3488299	8,866.63	0.00	0.00	0.00
20,400.00	89.59	179.48	12,083.31	-8,915.31	960.95	406,625.69	846,149.95	32.1140660	-103.3488299	8,966.26	0.00	0.00	0.00
20,500.00	89.59	179.48	12,084.02	-9,015.30	961.86	406,525.70	846,150.86	32.1137911	-103.3488300	9,065.89	0.00	0.00	0.00
20,600.00	89.59	179.48	12,084.73	-9,115.30	962.77	406,425.70	846,151.77	32.1135162	-103.3488300	9,165.52	0.00	0.00	0.00
20,700.00	89.59	179.48	12,085.44	-9,215.29	963.67	406,325.71	846,152.67	32.1132414	-103.3488300	9,265.15	0.00	0.00	0.00
20,800.00	89.59	179.48	12,086.15	-9,315.28	964.58	406,225.72	846,153.58	32.1129665	-103.3488300	9,364.77	0.00	0.00	0.00
20,900.00	89.59	179.48	12,086.86	-9,415.28	965.49	406,125.72	846,154.49	32.1126917	-103.3488300	9,464.40	0.00	0.00	0.00
21,000.00	89.59	179.48	12,087.57	-9,515.27	966.40	406,025.73	846,155.40	32.1124168	-103.3488300	9,564.03	0.00	0.00	0.00
21,100.00	89.59	179.48	12,088.28	-9,615.27	967.31	405,925.74	846,156.31	32.1121419	-103.3488301	9,663.66	0.00	0.00	0.00
21,200.00	89.59	179.48	12,088.98	-9,715.26	968.22	405,825.74	846,157.22	32.1118671	-103.3488301	9,763.29	0.00	0.00	0.00
21,300.00	89.59	179.48	12,089.69	-9,815.25	969.13	405,725.75	846,158.13	32.1115922	-103.3488301	9,862.92	0.00	0.00	0.00
21,400.00	89.59	179.48	12,090.40	-9,915.25	970.03	405,625.76	846,159.03	32.1113174	-103.3488301	9,962.55	0.00	0.00	0.00
21,500.00	89.59	179.48	12,091.11	-10,015.24	970.94	405,525.76	846,159.94	32.1110425	-103.3488301	10,062.18	0.00	0.00	0.00
21,600.00	89.59	179.48	12,091.82	-10,115.23	971.85	405,425.77	846,160.85	32.1107676	-103.3488301	10,161.81	0.00	0.00	0.00
21,700.00	89.59	179.48	12,092.53	-10,215.23	972.76	405,325.78	846,161.76	32.1104928	-103.3488301	10,261.44	0.00	0.00	0.00
21,800.00	89.59	179.48	12,093.24	-10,315.22	973.67	405,225.78	846,162.67	32.1102179	-103.3488302	10,361.07	0.00	0.00	0.00
21,900.00	89.59	179.48	12,093.95	-10,415.21	974.58	405,125.79	846,163.58	32.1099431	-103.3488302	10,460.70	0.00	0.00	0.00
22,000.00	89.59	179.48	12,094.66	-10,515.21	975.49	405,025.79	846,164.49	32.1096682	-103.3488302	10,560.32	0.00	0.00	0.00
22,100.00	89.59	179.48	12,095.37	-10,615.20	976.39	404,925.80	846,165.39	32.1093933	-103.3488302	10,659.95	0.00	0.00	0.00
22,200.00	89.59	179.48	12,096.08	-10,715.19	977.30	404,825.81	846,166.30	32.1091185	-103.3488302	10,759.58	0.00	0.00	0.00
22,291.82	89.59	179.48	12,096.73	-10,807.00	978.14	404,734.00	846,167.14	32.1088661	-103.3488302	10,851.06	0.00	0.00	0.00
Junior Mint Fed 138H LTP													
22,300.00	89.59	179.48	12,096.78	-10,815.19	978.21	404,725.81	846,167.21	32.1088436	-103.3488302	10,859.21	0.00	0.00	0.00
22,386.82	89.59	179.48	12,097.40	-10,902.00	979.00	404,639.00	846,168.00	32.1086050	-103.3488303	10,945.71	0.00	0.00	0.00
Junior Mint Fed 138H BHL													

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 138H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #2	**Database:**	.Total Directional Production DB

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
Junior Mint Fed 138H - plan misses target center by 49.61usft at 11554.57usft MD (11454.09 TVD, -397.39 N, 883.55 E) - Point	0.00	0.00	11,454.00	-447.00	884.00	415,094.00	846,073.00	32.1373434	-103.3488285
Junior Mint Fed 138H - plan misses target center by 0.31usft at 22291.82usft MD (12096.73 TVD, -10807.00 N, 978.14 E) - Point	0.00	0.00	12,097.00	-10,807.00	978.00	404,734.00	846,167.00	32.1088661	-103.3488307
Junior Mint Fed 138H - plan hits target center - Point	0.00	0.00	12,097.40	-10,902.00	979.00	404,639.00	846,168.00	32.1086050	-103.3488303

Checked By: _____ Approved By: _____ Date: _____

Civitas Resources

Lea County, NM (NAD 83)
Junior Mint Fed Pad
Junior Mint Fed 138H

OH
Plan #2

Total Directional
"Driven by TOTAL performance"

Anticollision Report

Minimum Magnetic Interference Warning level is 20' center to center

18 August, 2025

Total Report Version 1.70

COMPASS 5000.16 Build 97

Click here for our anticollision policy

ATTENTION
All offset data provided was gathered using available software and resources . Total Directional Services cannot guarantee the accuracy of all offset data , which should be verified for accuracy by the Operator.

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum centre distance of 2,433.18usft	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Well	Junior Mint Fed 138H						
Well Position	**+N/-S**	0.00 usft	**Northing:**	415,541.00 usft	**Latitude:**	32.1385942	
	+E/-W	0.00 usft	**Easting:**	845,189.00 usft	**Longitude:**	-103.3516709	
Position Uncertainty		0.50 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,220.00 usft	
Grid Convergence:		0.52 °					

Survey Tool Program **Date** 8/18/2025

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	22,386.80	Plan #2 (OH)	MWD+HRGM+SAG+FDIR (n	OWSG MWD + HRGM + SAG + FDIR Correction

Expierimental: Summary Highlights: Junior Mint Fed 138H

At 11,500.58 MD, Junior Mint Fed 224H - OH - Plan #2 is 51.00 usft away with a 1.48 SF.

Offset Listing

Offset Customer - Project - Site Name / Offset Well	Ground Level	KB Height	Map Coordinates Northing	Map Coordinates Easting	Geographical Coordinates Latitude	Geographical Coordinates Longitude	Surface Uncertainty Site	Surface Uncertainty Well
- - Junior Mint Fed Pad								
Junior Mint Fed 133H -	3,221.00	3,247.00	415,726.00	845,189.00	32.1391027	-103.3516655	0.00	0.50
Junior Mint Fed 134H -	3,220.00	3,247.00	415,566.00	845,189.00	32.1386629	-103.3516702	0.00	0.50
Junior Mint Fed 137H -	3,220.00	3,246.00	414,845.00	842,835.00	32.1367399	-103.3592955	0.00	0.50
Junior Mint Fed 156H -	3,221.00	3,247.00	415,701.00	845,189.00	32.1390339	-103.3516662	0.00	0.50
Junior Mint Fed 158H -	3,220.00	3,246.00	415,516.00	845,189.00	32.1385255	-103.3516717	0.00	0.50
Junior Mint Fed 213H -	3,221.00	3,247.00	415,701.00	845,214.00	32.1390333	-103.3515855	0.00	0.50
Junior Mint Fed 214H -	3,220.00	3,246.00	415,541.00	845,214.00	32.1385936	-103.3515902	0.00	0.50
Junior Mint Fed 216H -	3,222.00	3,248.00	415,751.00	845,189.00	32.1391714	-103.3516647	0.00	0.50
Junior Mint Fed 217H -	3,221.00	3,247.00	414,870.00	842,810.00	32.1368093	-103.3593755	0.00	0.50
Junior Mint Fed 218H -	3,220.00	3,246.00	415,516.00	845,214.00	32.1385248	-103.3515909	0.00	0.50
Junior Mint Fed 223H -	3,222.00	3,248.00	415,751.00	845,214.00	32.1391707	-103.3515840	0.00	0.50
Junior Mint Fed 224H -	3,222.00	3,248.00	415,566.00	845,214.00	32.1386623	-103.3515894	0.00	0.50

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Junior Mint Fed Pad						
Junior Mint Fed 133H - OH - Plan #2	600.00	601.00	185.00	179.18	31.77	CC
Junior Mint Fed 133H - OH - Plan #2	1,100.00	1,112.58	186.12	178.24	23.63	ES
Junior Mint Fed 133H - OH - Plan #2	22,386.82	22,387.52	1,371.68	1,069.53	4.54	SF
Junior Mint Fed 134H - OH - Plan #2	600.00	601.00	25.00	19.18	4.30	CC
Junior Mint Fed 134H - OH - Plan #2	700.00	701.00	25.21	19.03	4.08	ES
Junior Mint Fed 134H - OH - Plan #2	22,386.82	22,335.19	660.25	360.30	2.20	SF
Junior Mint Fed 137H - OH - Plan 2	11,500.00	11,531.93	2,087.03	2,050.24	56.72	CC
Junior Mint Fed 137H - OH - Plan 2	22,386.82	22,512.84	2,095.24	1,803.79	7.19	ES, SF
Junior Mint Fed 156H - OH - Plan #2	988.85	1,000.20	131.36	123.83	17.45	CC, ES
Junior Mint Fed 156H - OH - Plan #2	22,386.82	21,918.86	1,284.56	999.23	4.50	SF
Junior Mint Fed 158H - OH - Plan #2	300.00	300.00	25.00	21.04	6.31	CC, ES
Junior Mint Fed 158H - OH - Plan #2	5,300.00	5,287.10	97.70	69.82	3.50	SF
Junior Mint Fed 213H - OH - Plan #2	1,373.02	1,384.59	136.88	127.93	15.29	CC
Junior Mint Fed 213H - OH - Plan #2	1,400.00	1,411.30	136.93	127.86	15.11	ES
Junior Mint Fed 213H - OH - Plan #2	22,386.82	22,830.04	1,749.68	1,454.99	5.94	SF
Junior Mint Fed 214H - OH - Plan #2	1,981.37	1,978.35	24.01	12.72	2.13	CC, ES
Junior Mint Fed 214H - OH - Plan #2	2,000.00	1,996.85	24.21	12.80	2.12	SF
Junior Mint Fed 216H - OH - Plan #2	1,579.07	1,600.31	208.98	199.24	21.46	CC
Junior Mint Fed 216H - OH - Plan #2	1,600.00	1,621.03	209.03	199.20	21.28	ES
Junior Mint Fed 216H - OH - Plan #2	22,386.82	22,719.79	1,061.76	775.84	3.71	SF
Junior Mint Fed 217H - OH - Plan #1	11,500.00	11,511.94	2,315.03	2,279.68	65.49	CC
Junior Mint Fed 217H - OH - Plan #1	22,386.82	22,698.24	2,337.65	2,047.34	8.05	ES, SF
Junior Mint Fed 218H - OH - Plan #2	300.00	300.00	35.36	31.39	8.92	CC, ES
Junior Mint Fed 218H - OH - Plan #2	22,386.82	22,766.19	436.70	230.94	2.12	SF
Junior Mint Fed 223H - OH - Plan #2	600.00	602.00	211.48	205.66	36.30	CC
Junior Mint Fed 223H - OH - Plan #2	700.00	702.00	211.66	205.47	34.20	ES
Junior Mint Fed 223H - OH - Plan #2	22,386.82	23,139.21	1,563.13	1,291.84	5.76	SF
Junior Mint Fed 224H - OH - Plan #2	803.44	805.40	35.22	28.56	5.29	CC
Junior Mint Fed 224H - OH - Plan #2	11,500.58	11,506.00	51.00	16.52	1.48	Collision Avoidance Req., ES

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 133H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	0.00	0.50	0.50	0.00	185.00	0.00	185.00				
100.00	100.00	101.00	100.00	0.98	0.99	0.00	185.00	0.00	185.00	183.03	1.97	94.021	
200.00	200.00	201.00	200.00	1.56	1.57	0.00	185.00	0.00	185.00	181.87	3.13	59.173	
300.00	300.00	301.00	300.00	1.98	1.98	0.00	185.00	0.00	185.00	181.03	3.97	46.649	
400.00	400.00	401.00	400.00	2.33	2.33	0.00	185.00	0.00	185.00	180.34	4.66	39.684	
500.00	500.00	501.00	500.00	2.63	2.64	0.00	185.00	0.00	185.00	179.73	5.27	35.092	
600.00	600.00	601.00	600.00	2.91	2.91	0.00	185.00	0.00	185.00	179.18	5.82	31.772	CC
600.01	600.01	601.01	600.01	2.91	2.91	0.00	185.00	0.00	185.00	179.18	5.82	31.772	
700.00	700.00	701.04	700.04	3.02	3.17	-130.08	185.00	0.00	185.21	179.02	6.19	29.937	
800.00	799.96	805.16	804.14	3.31	3.46	-130.96	183.80	-0.81	185.77	179.06	6.71	27.676	
900.00	899.82	909.04	907.93	3.59	3.73	-132.98	180.27	-3.22	185.95	178.75	7.20	25.842	
1,000.00	999.51	1,012.49	1,011.14	3.76	3.96	-136.11	174.44	-7.18	186.09	178.54	7.56	24.623	
1,052.53	1,051.85	1,065.44	1,063.90	3.87	4.01	-138.00	170.67	-9.75	186.04	178.32	7.71	24.119	
1,100.00	1,099.13	1,112.58	1,110.86	3.96	4.07	-139.70	167.27	-12.06	186.12	178.24	7.88	23.634	ES
1,200.00	1,198.75	1,211.90	1,209.80	4.17	4.25	-143.25	160.11	-16.92	186.83	178.57	8.26	22.630	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 133H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
1,300.00	1,298.37	1,312.76	1,310.23	4.37	4.36	-146.95	152.48	-22.20	188.02	179.46	8.56	21.969	
1,400.00	1,397.99	1,414.16	1,410.94	4.57	4.61	-151.27	142.99	-29.18	188.87	179.90	8.97	21.066	
1,500.00	1,497.50	1,514.64	1,510.40	4.79	4.83	-150.46	131.66	-37.88	190.58	181.22	9.37	20.350	
1,600.00	1,596.74	1,612.98	1,607.42	5.02	4.95	-152.56	119.05	-47.80	195.13	185.42	9.71	20.099	
1,700.00	1,695.65	1,710.12	1,703.22	5.25	5.14	-155.96	106.46	-57.72	203.86	193.72	10.14	20.107	
1,800.00	1,794.15	1,806.66	1,798.45	5.48	5.33	-159.88	93.95	-67.58	217.07	206.49	10.57	20.527	
1,900.00	1,892.17	1,902.56	1,893.03	5.71	5.51	-163.81	81.53	-77.37	234.74	223.73	11.01	21.318	
2,000.00	1,989.70	1,997.81	1,986.97	5.85	5.70	-167.98	69.18	-87.10	256.51	245.16	11.36	22.587	
2,100.00	2,087.14	2,092.93	2,080.79	6.05	5.89	-172.21	56.86	-96.82	280.32	268.56	11.76	23.834	
2,200.00	2,184.58	2,188.05	2,174.61	6.25	6.08	-175.79	44.53	-106.53	305.40	293.23	12.17	25.100	
2,300.00	2,282.02	2,283.17	2,268.43	6.45	6.26	-178.83	32.20	-116.25	331.45	318.87	12.57	26.358	
2,400.00	2,379.46	2,378.30	2,362.24	6.66	6.45	178.57	19.88	-125.96	358.26	345.28	12.98	27.592	
2,500.00	2,476.89	2,473.42	2,456.06	6.90	6.64	176.33	7.55	-135.68	385.68	372.28	13.40	28.789	
2,600.00	2,574.33	2,568.54	2,549.88	7.17	6.83	174.38	-4.78	-145.39	413.58	399.77	13.81	29.944	
2,700.00	2,671.77	2,663.66	2,643.70	7.45	7.02	172.68	-17.10	-155.11	441.88	427.65	14.23	31.053	
2,800.00	2,769.21	2,758.78	2,737.51	7.73	7.23	171.18	-29.43	-164.82	470.50	455.85	14.65	32.120	
2,900.00	2,866.65	2,853.90	2,831.33	8.01	7.45	169.84	-41.76	-174.54	499.38	484.31	15.07	33.135	
3,000.00	2,964.08	2,949.02	2,925.15	8.29	7.67	168.66	-54.08	-184.25	528.49	512.99	15.50	34.105	
3,100.00	3,061.52	3,044.14	3,018.97	8.58	7.89	167.60	-66.41	-193.97	557.78	541.86	15.92	35.030	
3,200.00	3,158.96	3,139.26	3,112.78	8.87	8.11	166.64	-78.74	-203.68	587.24	570.88	16.35	35.912	
3,300.00	3,256.40	3,234.39	3,206.60	9.16	8.33	165.77	-91.06	-213.40	616.83	600.04	16.78	36.752	
3,400.00	3,353.84	3,329.51	3,300.42	9.46	8.55	164.98	-103.39	-223.11	646.54	629.32	17.22	37.554	
3,500.00	3,451.27	3,424.63	3,394.23	9.75	8.78	164.26	-115.72	-232.83	676.35	658.70	17.65	38.318	
3,600.00	3,548.71	3,519.75	3,488.05	10.05	9.00	163.60	-128.04	-242.54	706.25	688.16	18.09	39.047	
3,700.00	3,646.15	3,614.87	3,581.87	10.34	9.22	163.00	-140.37	-252.26	736.23	717.71	18.52	39.743	
3,800.00	3,743.59	3,709.99	3,675.69	10.64	9.44	162.44	-152.70	-261.97	766.28	747.32	18.96	40.408	
3,900.00	3,841.03	3,805.11	3,769.50	10.94	9.67	161.92	-165.02	-271.69	796.39	776.99	19.40	41.043	
4,000.00	3,938.47	3,900.23	3,863.32	11.24	9.89	161.44	-177.35	-281.40	826.56	806.71	19.85	41.649	
4,100.00	4,035.90	3,995.35	3,957.14	11.54	10.11	161.00	-189.68	-291.12	856.77	836.48	20.29	42.230	
4,200.00	4,133.34	4,090.48	4,050.96	11.84	10.34	160.58	-202.00	-300.83	887.03	866.30	20.73	42.785	
4,300.00	4,230.78	4,185.60	4,144.77	12.14	10.56	160.20	-214.33	-310.55	917.33	896.15	21.18	43.317	
4,400.00	4,328.22	4,280.72	4,238.59	12.45	10.79	159.83	-226.66	-320.26	947.66	926.04	21.62	43.827	
4,500.00	4,425.66	4,375.84	4,332.41	12.75	11.01	159.49	-238.98	-329.98	978.03	955.96	22.07	44.315	
4,600.00	4,523.09	4,470.96	4,426.23	13.05	11.24	159.17	-251.31	-339.69	1,008.43	985.91	22.52	44.784	
4,700.00	4,620.53	4,566.08	4,520.04	13.36	11.46	158.87	-263.64	-349.41	1,038.85	1,015.88	22.97	45.234	
4,800.00	4,717.97	4,661.20	4,613.86	13.66	11.69	158.59	-275.96	-359.12	1,069.30	1,045.88	23.42	45.667	
4,900.00	4,815.41	4,756.32	4,707.68	13.97	11.91	158.32	-288.29	-368.84	1,099.77	1,075.90	23.87	46.082	
5,000.00	4,912.85	4,851.44	4,801.49	14.27	12.14	158.06	-300.62	-378.55	1,130.26	1,105.94	24.32	46.482	
5,100.00	5,010.28	4,946.57	4,895.31	14.58	12.37	157.82	-312.94	-388.27	1,160.77	1,136.00	24.77	46.867	
5,200.00	5,107.72	5,041.69	4,989.13	14.89	12.59	157.59	-325.27	-397.98	1,191.30	1,166.08	25.22	47.237	
5,300.00	5,205.30	5,136.97	5,083.11	15.16	12.82	157.49	-337.62	-407.71	1,221.30	1,195.65	25.65	47.618	
5,400.00	5,303.38	5,232.86	5,177.69	15.44	13.05	157.39	-350.04	-417.51	1,249.11	1,223.00	26.10	47.850	
5,500.00	5,401.95	5,329.34	5,272.84	15.69	13.27	157.24	-362.55	-427.36	1,274.62	1,248.07	26.55	48.017	
5,600.00	5,500.92	5,445.13	5,387.21	15.91	13.51	157.02	-376.74	-438.54	1,297.31	1,270.28	27.04	47.983	
5,700.00	5,600.23	5,569.66	5,510.74	16.10	13.76	156.83	-389.03	-448.23	1,315.80	1,288.25	27.55	47.764	
5,800.00	5,699.82	5,695.76	5,636.30	16.26	13.97	156.71	-398.25	-455.50	1,329.91	1,301.90	28.01	47.476	
5,900.00	5,799.60	5,823.02	5,763.31	16.39	14.14	156.65	-404.25	-460.22	1,339.59	1,311.17	28.42	47.135	
6,000.00	5,899.53	5,950.97	5,891.21	16.50	14.26	156.66	-406.92	-462.33	1,344.80	1,316.06	28.74	46.786	
6,100.00	5,999.52	6,059.27	5,999.52	16.57	14.30	-90.41	-407.07	-462.45	1,346.03	1,317.16	28.88	46.612	
6,200.00	6,099.52	6,159.27	6,099.52	16.62	14.34	-90.41	-407.07	-462.45	1,346.03	1,317.08	28.95	46.492	
6,300.00	6,199.52	6,259.27	6,199.52	16.66	14.37	-90.41	-407.07	-462.45	1,346.03	1,317.01	29.03	46.373	
6,400.00	6,299.52	6,359.27	6,299.52	16.70	14.41	-90.41	-407.07	-462.45	1,346.03	1,316.93	29.10	46.252	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 133H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,500.00	6,399.52	6,459.27	6,399.52	16.74	14.44	-90.41	-407.07	-462.45	1,346.03	1,316.86	29.18	46.132	
6,600.00	6,499.52	6,559.27	6,499.52	16.79	14.48	-90.41	-407.07	-462.45	1,346.03	1,316.78	29.26	46.010	
6,700.00	6,599.52	6,659.27	6,599.52	16.83	14.51	-90.41	-407.07	-462.45	1,346.03	1,316.70	29.33	45.889	
6,800.00	6,699.52	6,759.27	6,699.52	16.88	14.55	-90.41	-407.07	-462.45	1,346.03	1,316.62	29.41	45.766	
6,900.00	6,799.52	6,859.27	6,799.52	16.92	14.59	-90.41	-407.07	-462.45	1,346.03	1,316.54	29.49	45.644	
7,000.00	6,899.52	6,959.27	6,899.52	16.96	14.62	-90.41	-407.07	-462.45	1,346.03	1,316.47	29.57	45.521	
7,100.00	6,999.52	7,059.27	6,999.52	17.01	14.66	-90.41	-407.07	-462.45	1,346.03	1,316.38	29.65	45.397	
7,200.00	7,099.52	7,159.27	7,099.52	17.05	14.70	-90.41	-407.07	-462.45	1,346.03	1,316.30	29.73	45.274	
7,300.00	7,199.52	7,259.27	7,199.52	17.10	14.74	-90.41	-407.07	-462.45	1,346.03	1,316.22	29.81	45.149	
7,400.00	7,299.52	7,359.27	7,299.52	17.15	14.77	-90.41	-407.07	-462.45	1,346.03	1,316.14	29.90	45.025	
7,500.00	7,399.52	7,459.27	7,399.52	17.19	14.81	-90.41	-407.07	-462.45	1,346.03	1,316.06	29.98	44.900	
7,600.00	7,499.52	7,559.27	7,499.52	17.24	14.85	-90.41	-407.07	-462.45	1,346.03	1,315.97	30.06	44.775	
7,700.00	7,599.52	7,659.27	7,599.52	17.28	14.89	-90.41	-407.07	-462.45	1,346.03	1,315.89	30.15	44.650	
7,800.00	7,699.52	7,759.27	7,699.52	17.33	14.93	-90.41	-407.07	-462.45	1,346.03	1,315.80	30.23	44.524	
7,900.00	7,799.52	7,859.27	7,799.52	17.38	14.97	-90.41	-407.07	-462.45	1,346.03	1,315.72	30.32	44.399	
8,000.00	7,899.52	7,959.27	7,899.52	17.43	15.01	-90.41	-407.07	-462.45	1,346.03	1,315.63	30.40	44.273	
8,100.00	7,999.52	8,059.27	7,999.52	17.47	15.05	-90.41	-407.07	-462.45	1,346.03	1,315.54	30.49	44.146	
8,200.00	8,099.52	8,159.27	8,099.52	17.52	15.09	-90.41	-407.07	-462.45	1,346.03	1,315.46	30.58	44.020	
8,300.00	8,199.52	8,259.27	8,199.52	17.57	15.14	-90.41	-407.07	-462.45	1,346.03	1,315.37	30.67	43.893	
8,400.00	8,299.52	8,359.27	8,299.52	17.62	15.18	-90.41	-407.07	-462.45	1,346.03	1,315.28	30.75	43.767	
8,500.00	8,399.52	8,459.27	8,399.52	17.67	15.22	-90.41	-407.07	-462.45	1,346.03	1,315.19	30.84	43.640	
8,600.00	8,499.52	8,559.27	8,499.52	17.71	15.26	-90.41	-407.07	-462.45	1,346.03	1,315.10	30.93	43.513	
8,700.00	8,599.52	8,659.27	8,599.52	17.76	15.31	-90.41	-407.07	-462.45	1,346.03	1,315.01	31.02	43.386	
8,800.00	8,699.52	8,759.27	8,699.52	17.81	15.35	-90.41	-407.07	-462.45	1,346.03	1,314.92	31.12	43.259	
8,900.00	8,799.52	8,859.27	8,799.52	17.86	15.39	-90.41	-407.07	-462.45	1,346.03	1,314.83	31.21	43.132	
9,000.00	8,899.52	8,959.27	8,899.52	17.91	15.44	-90.41	-407.07	-462.45	1,346.03	1,314.73	31.30	43.004	
9,100.00	8,999.52	9,059.27	8,999.52	17.96	15.48	-90.41	-407.07	-462.45	1,346.03	1,314.64	31.39	42.877	
9,200.00	9,099.52	9,159.27	9,099.52	18.01	15.53	-90.41	-407.07	-462.45	1,346.03	1,314.55	31.49	42.750	
9,300.00	9,199.52	9,259.27	9,199.52	18.06	15.57	-90.41	-407.07	-462.45	1,346.03	1,314.45	31.58	42.623	
9,400.00	9,299.52	9,359.27	9,299.52	18.11	15.62	-90.41	-407.07	-462.45	1,346.03	1,314.36	31.67	42.495	
9,500.00	9,399.52	9,459.27	9,399.52	18.16	15.66	-90.41	-407.07	-462.45	1,346.03	1,314.26	31.77	42.368	
9,600.00	9,499.52	9,559.27	9,499.52	18.22	15.71	-90.41	-407.07	-462.45	1,346.03	1,314.17	31.87	42.241	
9,700.00	9,599.52	9,659.27	9,599.52	18.27	15.76	-90.41	-407.07	-462.45	1,346.03	1,314.07	31.96	42.113	
9,800.00	9,699.52	9,759.27	9,699.52	18.32	15.80	-90.41	-407.07	-462.45	1,346.03	1,313.98	32.06	41.986	
9,900.00	9,799.52	9,859.27	9,799.52	18.37	15.85	-90.41	-407.07	-462.45	1,346.03	1,313.88	32.16	41.859	
10,000.00	9,899.52	9,959.27	9,899.52	18.42	15.90	-90.41	-407.07	-462.45	1,346.03	1,313.78	32.25	41.732	
10,100.00	9,999.52	10,059.27	9,999.52	18.47	15.94	-90.41	-407.07	-462.45	1,346.03	1,313.68	32.35	41.605	
10,200.00	10,099.52	10,159.27	10,099.52	18.53	15.99	-90.41	-407.07	-462.45	1,346.03	1,313.58	32.45	41.478	
10,300.00	10,199.52	10,259.27	10,199.52	18.58	16.04	-90.41	-407.07	-462.45	1,346.03	1,313.48	32.55	41.352	
10,400.00	10,299.52	10,359.27	10,299.52	18.63	16.09	-90.41	-407.07	-462.45	1,346.03	1,313.38	32.65	41.225	
10,500.00	10,399.52	10,459.27	10,399.52	18.69	16.14	-90.41	-407.07	-462.45	1,346.03	1,313.28	32.75	41.099	
10,600.00	10,499.52	10,559.27	10,499.52	18.74	16.19	-90.41	-407.07	-462.45	1,346.03	1,313.18	32.85	40.972	
10,700.00	10,599.52	10,659.27	10,599.52	18.79	16.24	-90.41	-407.07	-462.45	1,346.03	1,313.08	32.95	40.846	
10,800.00	10,699.52	10,759.27	10,699.52	18.85	16.29	-90.41	-407.07	-462.45	1,346.03	1,312.98	33.06	40.720	
10,900.00	10,799.52	10,859.27	10,799.52	18.90	16.34	-90.41	-407.07	-462.45	1,346.03	1,312.88	33.16	40.594	
11,000.00	10,899.52	10,959.27	10,899.52	18.95	16.39	-90.41	-407.07	-462.45	1,346.03	1,312.77	33.26	40.469	
11,100.00	10,999.52	11,059.27	10,999.52	19.01	16.44	-90.41	-407.07	-462.45	1,346.03	1,312.67	33.36	40.343	
11,200.00	11,099.52	11,159.27	11,099.52	19.06	16.49	-90.41	-407.07	-462.45	1,346.03	1,312.57	33.47	40.218	
11,300.00	11,199.52	11,259.27	11,199.52	19.12	16.54	-90.41	-407.07	-462.45	1,346.03	1,312.46	33.57	40.093	
11,400.00	11,299.52	11,359.27	11,299.52	19.17	16.59	-90.41	-407.07	-462.45	1,346.03	1,312.36	33.68	39.968	
11,500.00	11,399.52	11,459.27	11,399.52	19.23	16.64	-90.41	-407.07	-462.45	1,346.03	1,312.25	33.78	39.844	
11,508.18	11,407.70	11,467.45	11,407.70	19.23	16.65	90.11	-407.07	-462.45	1,346.03	1,312.25	33.79	39.836	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 133H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Rule Assigned: Warning
11,600.00	11,499.47	11,557.75	11,498.00	19.29	16.68	90.18	-407.07	-462.45	1,346.04	1,312.19	33.85	39.766	
11,700.00	11,597.96	11,650.00	11,589.85	19.45	16.79	90.47	-414.48	-462.68	1,346.42	1,312.45	33.97	39.638	
11,800.00	11,692.07	11,745.17	11,682.10	19.66	17.01	90.75	-437.44	-463.38	1,347.49	1,313.23	34.26	39.332	
11,900.00	11,778.95	11,840.31	11,769.24	19.93	17.31	91.00	-475.31	-464.53	1,349.24	1,314.50	34.74	38.839	
12,000.00	11,855.96	11,937.12	11,850.25	20.27	17.69	91.23	-528.08	-466.15	1,351.63	1,316.20	35.43	38.145	
12,100.00	11,920.75	12,035.80	11,922.48	20.70	18.20	91.42	-595.11	-468.20	1,354.61	1,318.24	36.37	37.242	
12,200.00	11,971.37	12,136.50	11,983.23	21.23	18.85	91.56	-675.22	-470.64	1,358.09	1,320.52	37.57	36.146	
12,300.00	12,006.26	12,239.33	12,029.82	21.86	19.66	91.67	-766.68	-473.44	1,361.97	1,322.93	39.03	34.893	
12,400.00	12,024.37	12,344.32	12,059.77	22.58	20.60	91.72	-867.12	-476.51	1,366.10	1,325.37	40.73	33.543	
12,500.00	12,027.30	12,451.53	12,070.92	23.37	21.65	91.84	-973.54	-479.76	1,370.27	1,327.67	42.60	32.165	
12,600.00	12,028.00	12,605.96	12,072.01	24.23	23.25	91.84	-1,127.95	-480.69	1,371.53	1,326.33	45.20	30.346	
12,700.00	12,028.71	12,705.96	12,072.71	25.13	24.32	91.84	-1,227.95	-479.79	1,371.53	1,324.32	47.21	29.051	
12,800.00	12,029.42	12,805.96	12,073.40	26.08	25.43	91.84	-1,327.94	-478.88	1,371.53	1,322.24	49.29	27.823	
12,900.00	12,030.13	12,905.96	12,074.10	27.06	26.55	91.84	-1,427.93	-477.97	1,371.53	1,320.09	51.44	26.663	
13,000.00	12,030.84	13,005.96	12,074.80	28.07	27.70	91.84	-1,527.93	-477.06	1,371.54	1,317.90	53.64	25.570	
13,100.00	12,031.55	13,105.96	12,075.50	29.10	28.87	91.84	-1,627.92	-476.16	1,371.54	1,315.65	55.88	24.542	
13,200.00	12,032.26	13,205.96	12,076.20	30.17	30.05	91.84	-1,727.91	-475.25	1,371.54	1,313.36	58.17	23.577	
13,300.00	12,032.97	13,305.96	12,076.89	31.25	31.25	91.84	-1,827.91	-474.34	1,371.54	1,311.04	60.50	22.670	
13,400.00	12,033.68	13,405.96	12,077.59	32.36	32.46	91.83	-1,927.90	-473.44	1,371.54	1,308.68	62.86	21.819	
13,500.00	12,034.39	13,505.96	12,078.29	33.49	33.68	91.83	-2,027.89	-472.53	1,371.54	1,306.29	65.25	21.020	
13,600.00	12,035.10	13,605.96	12,078.99	34.63	34.91	91.83	-2,127.89	-471.62	1,371.54	1,303.88	67.66	20.270	
13,700.00	12,035.80	13,705.96	12,079.69	35.78	36.16	91.83	-2,227.88	-470.72	1,371.55	1,301.44	70.10	19.565	
13,800.00	12,036.51	13,805.96	12,080.39	36.95	37.41	91.83	-2,327.87	-469.81	1,371.55	1,298.98	72.56	18.901	
13,900.00	12,037.22	13,905.96	12,081.08	38.14	38.66	91.83	-2,427.87	-468.90	1,371.55	1,296.50	75.04	18.277	
14,000.00	12,037.93	14,005.96	12,081.78	39.33	39.93	91.83	-2,527.86	-468.00	1,371.55	1,294.01	77.54	17.688	
14,100.00	12,038.64	14,105.96	12,082.48	40.54	41.20	91.83	-2,627.85	-467.09	1,371.55	1,291.50	80.05	17.133	
14,200.00	12,039.35	14,205.96	12,083.18	41.75	42.48	91.83	-2,727.85	-466.18	1,371.55	1,288.97	82.58	16.608	
14,300.00	12,040.06	14,305.96	12,083.88	42.97	43.76	91.83	-2,827.84	-465.28	1,371.55	1,286.43	85.12	16.113	
14,400.00	12,040.77	14,405.96	12,084.58	44.20	45.05	91.83	-2,927.84	-464.37	1,371.56	1,283.88	87.68	15.644	
14,500.00	12,041.48	14,505.96	12,085.27	45.44	46.34	91.83	-3,027.83	-463.46	1,371.56	1,281.32	90.24	15.199	
14,600.00	12,042.19	14,605.96	12,085.97	46.69	47.64	91.83	-3,127.82	-462.56	1,371.56	1,278.75	92.81	14.778	
14,700.00	12,042.89	14,705.96	12,086.67	47.94	48.94	91.83	-3,227.82	-461.65	1,371.56	1,276.17	95.39	14.378	
14,800.00	12,043.60	14,805.96	12,087.37	49.20	50.24	91.83	-3,327.81	-460.74	1,371.56	1,273.58	97.99	13.998	
14,900.00	12,044.31	14,905.96	12,088.07	50.46	51.55	91.83	-3,427.80	-459.84	1,371.56	1,270.98	100.58	13.636	
15,000.00	12,045.02	15,005.96	12,088.76	51.73	52.86	91.83	-3,527.80	-458.93	1,371.56	1,268.37	103.19	13.292	
15,100.00	12,045.73	15,105.96	12,089.46	53.01	54.17	91.83	-3,627.79	-458.02	1,371.57	1,265.76	105.80	12.963	
15,200.00	12,046.44	15,205.96	12,090.16	54.28	55.49	91.83	-3,727.78	-457.12	1,371.57	1,263.14	108.42	12.650	
15,300.00	12,047.15	15,305.96	12,090.86	55.57	56.81	91.83	-3,827.78	-456.21	1,371.57	1,260.52	111.05	12.351	
15,400.00	12,047.86	15,405.96	12,091.56	56.85	58.13	91.83	-3,927.77	-455.30	1,371.57	1,257.89	113.68	12.065	
15,500.00	12,048.57	15,505.96	12,092.26	58.14	59.45	91.83	-4,027.76	-454.39	1,371.57	1,255.26	116.31	11.792	
15,600.00	12,049.28	15,605.96	12,092.95	59.44	60.78	91.82	-4,127.76	-453.49	1,371.57	1,252.62	118.95	11.530	
15,700.00	12,049.99	15,705.96	12,093.65	60.73	62.10	91.82	-4,227.75	-452.58	1,371.57	1,249.98	121.60	11.280	
15,800.00	12,050.69	15,805.96	12,094.35	62.03	63.43	91.82	-4,327.74	-451.67	1,371.58	1,247.33	124.25	11.039	
15,900.00	12,051.40	15,905.96	12,095.05	63.33	64.76	91.82	-4,427.74	-450.77	1,371.58	1,244.68	126.90	10.809	
16,000.00	12,052.11	16,005.96	12,095.75	64.64	66.09	91.82	-4,527.73	-449.86	1,371.58	1,242.03	129.55	10.587	
16,100.00	12,052.82	16,105.96	12,096.45	65.95	67.43	91.82	-4,627.72	-448.95	1,371.58	1,239.37	132.21	10.374	
16,200.00	12,053.53	16,205.96	12,097.14	67.26	68.76	91.82	-4,727.72	-448.05	1,371.58	1,236.71	134.87	10.169	
16,300.00	12,054.24	16,305.96	12,097.84	68.57	70.10	91.82	-4,827.71	-447.14	1,371.58	1,234.04	137.54	9.972	
16,400.00	12,054.95	16,405.96	12,098.54	69.88	71.43	91.82	-4,927.70	-446.23	1,371.58	1,231.38	140.21	9.782	
16,500.00	12,055.66	16,505.96	12,099.24	71.20	72.77	91.82	-5,027.70	-445.33	1,371.59	1,228.71	142.88	9.600	
16,600.00	12,056.37	16,605.96	12,099.94	72.52	74.11	91.82	-5,127.69	-444.42	1,371.59	1,226.04	145.55	9.423	
16,700.00	12,057.08	16,705.96	12,100.64	73.84	75.45	91.82	-5,227.68	-443.51	1,371.59	1,223.36	148.23	9.253	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 133H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,800.00	12,057.79	16,805.96	12,101.33	75.16	76.79	91.82	-5,327.68	-442.61	1,371.59	1,220.68	150.91	9.089	
16,900.00	12,058.49	16,905.96	12,102.03	76.48	78.13	91.82	-5,427.67	-441.70	1,371.59	1,218.01	153.59	8.930	
17,000.00	12,059.20	17,005.96	12,102.73	77.81	79.48	91.82	-5,527.67	-440.79	1,371.59	1,215.33	156.27	8.777	
17,100.00	12,059.91	17,105.96	12,103.43	79.14	80.82	91.82	-5,627.66	-439.89	1,371.59	1,212.64	158.95	8.629	
17,200.00	12,060.62	17,205.96	12,104.13	80.46	82.17	91.82	-5,727.65	-438.98	1,371.60	1,209.96	161.64	8.486	
17,300.00	12,061.33	17,305.96	12,104.82	81.79	83.51	91.82	-5,827.65	-438.07	1,371.60	1,207.27	164.33	8.347	
17,400.00	12,062.04	17,405.96	12,105.52	83.12	84.86	91.82	-5,927.64	-437.17	1,371.60	1,204.58	167.01	8.212	
17,500.00	12,062.75	17,505.96	12,106.22	84.45	86.21	91.82	-6,027.63	-436.26	1,371.60	1,201.89	169.71	8.082	
17,600.00	12,063.46	17,605.96	12,106.92	85.79	87.55	91.82	-6,127.63	-435.35	1,371.60	1,199.20	172.40	7.956	
17,700.00	12,064.17	17,705.96	12,107.62	87.12	88.90	91.82	-6,227.62	-434.44	1,371.60	1,196.51	175.09	7.834	
17,800.00	12,064.88	17,805.96	12,108.32	88.46	90.25	91.81	-6,327.61	-433.54	1,371.60	1,193.82	177.79	7.715	
17,900.00	12,065.59	17,905.96	12,109.01	89.79	91.60	91.81	-6,427.61	-432.63	1,371.61	1,191.12	180.48	7.600	
18,000.00	12,066.29	18,005.96	12,109.71	91.13	92.95	91.81	-6,527.60	-431.72	1,371.61	1,188.43	183.18	7.488	
18,100.00	12,067.00	18,105.96	12,110.41	92.47	94.30	91.81	-6,627.59	-430.82	1,371.61	1,185.73	185.88	7.379	
18,200.00	12,067.71	18,205.96	12,111.11	93.81	95.65	91.81	-6,727.59	-429.91	1,371.61	1,183.03	188.58	7.273	
18,300.00	12,068.42	18,305.96	12,111.81	95.15	97.01	91.81	-6,827.58	-429.00	1,371.61	1,180.33	191.28	7.171	
18,400.00	12,069.13	18,405.96	12,112.51	96.49	98.36	91.81	-6,927.57	-428.10	1,371.61	1,177.63	193.98	7.071	
18,500.00	12,069.84	18,505.96	12,113.20	97.83	99.71	91.81	-7,027.57	-427.19	1,371.61	1,174.93	196.69	6.974	
18,600.00	12,070.55	18,605.96	12,113.90	99.17	101.06	91.81	-7,127.56	-426.28	1,371.62	1,172.23	199.39	6.879	
18,700.00	12,071.26	18,705.96	12,114.60	100.51	102.42	91.81	-7,227.55	-425.38	1,371.62	1,169.52	202.09	6.787	
18,800.00	12,071.97	18,805.96	12,115.30	101.86	103.77	91.81	-7,327.55	-424.47	1,371.62	1,166.82	204.80	6.697	
18,900.00	12,072.68	18,905.96	12,116.00	103.20	105.13	91.81	-7,427.54	-423.56	1,371.62	1,164.11	207.51	6.610	
19,000.00	12,073.39	19,005.96	12,116.69	104.55	106.48	91.81	-7,527.53	-422.66	1,371.62	1,161.41	210.22	6.525	
19,100.00	12,074.09	19,105.96	12,117.39	105.89	107.84	91.81	-7,627.53	-421.75	1,371.62	1,158.70	212.92	6.442	
19,200.00	12,074.80	19,205.96	12,118.09	107.24	109.19	91.81	-7,727.52	-420.84	1,371.62	1,155.99	215.63	6.361	
19,300.00	12,075.51	19,305.96	12,118.79	108.58	110.55	91.81	-7,827.51	-419.94	1,371.63	1,153.28	218.34	6.282	
19,400.00	12,076.22	19,405.96	12,119.49	109.93	111.90	91.81	-7,927.51	-419.03	1,371.63	1,150.57	221.05	6.205	
19,500.00	12,076.93	19,505.96	12,120.19	111.28	113.26	91.81	-8,027.50	-418.12	1,371.63	1,147.86	223.76	6.130	
19,600.00	12,077.64	19,605.96	12,120.88	112.63	114.62	91.81	-8,127.49	-417.22	1,371.63	1,145.15	226.48	6.056	
19,700.00	12,078.35	19,705.96	12,121.58	113.98	115.98	91.81	-8,227.49	-416.31	1,371.63	1,142.44	229.19	5.985	
19,800.00	12,079.06	19,805.96	12,122.28	115.33	117.33	91.81	-8,327.48	-415.40	1,371.63	1,139.73	231.90	5.915	
19,900.00	12,079.77	19,905.96	12,122.98	116.68	118.69	91.81	-8,427.48	-414.50	1,371.63	1,137.02	234.62	5.846	
20,000.00	12,080.48	20,005.96	12,123.68	118.03	120.05	91.80	-8,527.47	-413.59	1,371.64	1,134.31	237.33	5.779	
20,100.00	12,081.18	20,105.96	12,124.38	119.38	121.41	91.80	-8,627.46	-412.68	1,371.64	1,131.59	240.04	5.714	
20,200.00	12,081.89	20,205.96	12,125.07	120.73	122.77	91.80	-8,727.46	-411.77	1,371.64	1,128.88	242.76	5.650	
20,300.00	12,082.60	20,305.96	12,125.77	122.08	124.12	91.80	-8,827.45	-410.87	1,371.64	1,126.16	245.48	5.588	
20,400.00	12,083.31	20,405.96	12,126.47	123.43	125.48	91.80	-8,927.44	-409.96	1,371.64	1,123.45	248.19	5.527	
20,500.00	12,084.02	20,505.96	12,127.17	124.78	126.84	91.80	-9,027.44	-409.05	1,371.64	1,120.73	250.91	5.467	
20,600.00	12,084.73	20,605.96	12,127.87	126.14	128.20	91.80	-9,127.43	-408.15	1,371.64	1,118.02	253.63	5.408	
20,700.00	12,085.44	20,705.97	12,128.56	127.49	129.56	91.80	-9,227.42	-407.24	1,371.65	1,115.30	256.34	5.351	
20,800.00	12,086.15	20,805.97	12,129.26	128.84	130.92	91.80	-9,327.42	-406.33	1,371.65	1,112.59	259.06	5.295	
20,900.00	12,086.86	20,905.97	12,129.96	130.20	132.28	91.80	-9,427.41	-405.43	1,371.65	1,109.87	261.78	5.240	
21,000.00	12,087.57	21,005.97	12,130.66	131.55	133.64	91.80	-9,527.40	-404.52	1,371.65	1,107.15	264.50	5.186	
21,100.00	12,088.28	21,105.97	12,131.36	132.90	135.00	91.80	-9,627.40	-403.61	1,371.65	1,104.43	267.22	5.133	
21,200.00	12,088.98	21,205.97	12,132.06	134.26	136.36	91.80	-9,727.39	-402.71	1,371.65	1,101.71	269.94	5.081	
21,300.00	12,089.69	21,305.97	12,132.75	135.61	137.72	91.80	-9,827.38	-401.80	1,371.65	1,099.00	272.66	5.031	
21,400.00	12,090.40	21,405.97	12,133.45	136.97	139.08	91.80	-9,927.38	-400.89	1,371.66	1,096.28	275.38	4.981	
21,500.00	12,091.11	21,505.97	12,134.15	138.32	140.45	91.80	-10,027.37	-399.99	1,371.66	1,093.56	278.10	4.932	
21,600.00	12,091.82	21,605.97	12,134.85	139.68	141.81	91.80	-10,127.36	-399.08	1,371.66	1,090.84	280.82	4.884	
21,700.00	12,092.53	21,705.97	12,135.55	141.04	143.17	91.80	-10,227.36	-398.17	1,371.66	1,088.12	283.54	4.838	
21,800.00	12,093.24	21,805.97	12,136.25	142.39	144.53	91.80	-10,327.35	-397.27	1,371.66	1,085.40	286.27	4.792	
21,900.00	12,093.95	21,905.97	12,136.94	143.75	145.89	91.80	-10,427.34	-396.36	1,371.66	1,082.68	288.99	4.746	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 133H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
22,000.00	12,094.66	22,005.97	12,137.64	145.11	147.25	91.80	-10,527.34	-395.45	1,371.66	1,079.95	291.71	4.702	
22,100.00	12,095.37	22,105.97	12,138.34	146.46	148.62	91.80	-10,627.33	-394.55	1,371.67	1,077.23	294.43	4.659	
22,200.00	12,096.08	22,205.97	12,139.04	147.82	149.98	91.79	-10,727.32	-393.64	1,371.67	1,074.51	297.16	4.616	
22,300.00	12,096.78	22,305.97	12,139.74	149.18	151.34	91.79	-10,827.32	-392.73	1,371.67	1,071.79	299.88	4.574	
22,307.65	12,096.84	22,313.61	12,139.79	149.28	151.44	91.79	-10,834.96	-392.66	1,371.67	1,071.58	300.09	4.571	
22,386.82	12,097.40	22,387.52	12,140.31	150.36	152.46	91.79	-10,908.87	-391.99	1,371.68	1,069.53	302.15	4.540	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 134H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	0.00	0.50	0.50	0.00	25.00	0.00	25.00				
100.00	100.00	101.00	100.00	0.98	0.98	0.00	25.00	0.00	25.00	23.04	1.96	12.778	
200.00	200.00	201.00	200.00	1.56	1.56	0.00	25.00	0.00	25.00	21.88	3.12	8.015	
300.00	300.00	301.00	300.00	1.98	1.98	0.00	25.00	0.00	25.00	21.04	3.96	6.313	
400.00	400.00	401.00	400.00	2.33	2.33	0.00	25.00	0.00	25.00	20.34	4.66	5.368	
500.00	500.00	501.00	500.00	2.63	2.63	0.00	25.00	0.00	25.00	19.73	5.27	4.746	
600.00	600.00	601.00	600.00	2.91	2.91	0.00	25.00	0.00	25.00	19.18	5.82	4.296	CC
600.17	600.17	601.17	600.17	2.91	2.91	0.00	25.00	0.00	25.00	19.18	5.82	4.296	
700.00	700.00	701.00	700.00	3.02	3.16	-130.57	25.00	0.00	25.21	19.03	6.18	4.078	ES
800.00	799.96	800.96	799.96	3.31	3.40	-134.77	25.00	0.00	26.99	20.31	6.68	4.041	
900.00	899.82	900.82	899.82	3.59	3.62	-141.64	25.00	0.00	30.90	23.74	7.16	4.315	
1,000.00	999.51	1,000.51	999.51	3.76	3.83	-149.05	25.00	0.00	37.34	29.79	7.55	4.945	
1,100.00	1,099.13	1,100.13	1,099.13	3.96	4.04	-154.76	25.00	0.00	45.05	37.08	7.97	5.651	
1,200.00	1,198.75	1,199.75	1,198.75	4.17	4.23	-158.77	25.00	0.00	53.06	44.69	8.37	6.336	
1,300.00	1,298.37	1,299.37	1,298.37	4.37	4.42	-161.72	25.00	0.00	61.27	52.51	8.77	6.990	
1,400.00	1,397.99	1,399.74	1,398.74	4.57	4.50	-164.14	24.68	0.00	69.34	60.29	9.05	7.660	
1,500.00	1,497.50	1,500.94	1,499.90	4.79	4.68	-161.60	22.02	0.00	76.62	67.18	9.44	8.114	
1,600.00	1,596.74	1,602.00	1,600.82	5.02	4.87	-162.77	16.69	0.00	84.30	74.47	9.84	8.571	
1,700.00	1,695.65	1,702.92	1,701.42	5.25	4.99	-166.26	8.74	0.05	93.05	82.89	10.16	9.159	
1,800.00	1,794.15	1,804.46	1,802.49	5.48	5.14	-170.16	-0.84	1.77	102.86	92.33	10.53	9.769	
1,900.00	1,892.17	1,906.30	1,903.68	5.71	5.29	-173.71	-11.51	5.98	113.40	102.51	10.89	10.414	
2,000.00	1,989.70	2,006.50	2,003.04	5.85	5.36	-177.31	-22.85	12.15	124.79	113.70	11.09	11.253	
2,100.00	2,087.14	2,105.42	2,101.12	6.05	5.52	179.10	-34.13	18.43	136.98	125.54	11.44	11.974	
2,200.00	2,184.58	2,204.34	2,199.19	6.25	5.67	176.11	-45.41	24.72	149.61	137.82	11.80	12.684	
2,300.00	2,282.02	2,303.26	2,297.26	6.45	5.83	173.58	-56.69	31.01	162.59	150.43	12.16	13.375	
2,400.00	2,379.46	2,402.18	2,395.33	6.66	5.99	171.43	-67.97	37.29	175.83	163.30	12.52	14.042	
2,500.00	2,476.89	2,501.10	2,493.41	6.90	6.15	169.59	-79.25	43.58	189.27	176.38	12.89	14.680	
2,600.00	2,574.33	2,600.01	2,591.48	7.17	6.31	167.98	-90.53	49.87	202.89	189.62	13.27	15.290	
2,700.00	2,671.77	2,698.93	2,689.55	7.45	6.48	166.58	-101.81	56.16	216.65	203.00	13.65	15.871	
2,800.00	2,769.21	2,797.85	2,787.62	7.73	6.64	165.35	-113.09	62.44	230.51	216.48	14.04	16.422	
2,900.00	2,866.65	2,896.77	2,885.70	8.01	6.81	164.26	-124.37	68.73	244.47	230.04	14.43	16.946	
3,000.00	2,964.08	2,995.69	2,983.77	8.29	6.98	163.28	-135.65	75.02	258.51	243.69	14.82	17.443	
3,100.00	3,061.52	3,094.61	3,081.84	8.58	7.15	162.41	-146.93	81.31	272.61	257.39	15.22	17.914	
3,200.00	3,158.96	3,193.53	3,179.91	8.87	7.32	161.62	-158.21	87.59	286.77	271.15	15.62	18.361	
3,300.00	3,256.40	3,292.45	3,277.99	9.16	7.49	160.91	-169.49	93.88	300.98	284.96	16.02	18.785	
3,400.00	3,353.84	3,391.37	3,376.06	9.46	7.66	160.26	-180.77	100.17	315.23	298.80	16.43	19.188	
3,500.00	3,451.27	3,490.29	3,474.13	9.75	7.83	159.67	-192.05	106.46	329.51	312.67	16.84	19.570	
3,600.00	3,548.71	3,589.21	3,572.20	10.05	8.00	159.12	-203.33	112.74	343.83	326.58	17.25	19.933	
3,700.00	3,646.15	3,688.13	3,670.28	10.34	8.18	158.62	-214.61	119.03	358.17	340.51	17.66	20.278	
3,800.00	3,743.59	3,787.04	3,768.35	10.64	8.35	158.16	-225.89	125.32	372.54	354.47	18.08	20.607	
3,900.00	3,841.03	3,885.96	3,866.42	10.94	8.53	157.73	-237.17	131.61	386.94	368.44	18.50	20.920	
4,000.00	3,938.47	3,984.88	3,964.50	11.24	8.70	157.33	-248.45	137.89	401.35	382.43	18.92	21.217	
4,100.00	4,035.90	4,083.80	4,062.57	11.54	8.88	156.96	-259.73	144.18	415.78	396.44	19.34	21.501	
4,200.00	4,133.34	4,182.72	4,160.64	11.84	9.06	156.62	-271.01	150.47	430.22	410.46	19.76	21.772	
4,300.00	4,230.78	4,281.64	4,258.71	12.14	9.24	156.30	-282.29	156.76	444.68	424.50	20.18	22.031	
4,400.00	4,328.22	4,380.56	4,356.79	12.45	9.42	156.00	-293.57	163.04	459.15	438.54	20.61	22.278	
4,500.00	4,425.66	4,479.48	4,454.86	12.75	9.59	155.71	-304.85	169.33	473.64	452.60	21.04	22.514	
4,600.00	4,523.09	4,578.40	4,552.93	13.05	9.77	155.44	-316.13	175.62	488.13	466.66	21.47	22.740	
4,700.00	4,620.53	4,677.32	4,651.00	13.36	9.95	155.19	-327.41	181.91	502.63	480.74	21.89	22.957	
4,800.00	4,717.97	4,776.24	4,749.08	13.66	10.13	154.96	-338.69	188.19	517.15	494.82	22.33	23.164	
4,900.00	4,815.41	4,875.16	4,847.15	13.97	10.32	154.73	-349.98	194.48	531.67	508.91	22.76	23.363	
5,000.00	4,912.85	4,974.08	4,945.22	14.27	10.50	154.52	-361.26	200.77	546.20	523.01	23.19	23.554	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 134H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,010.28	5,072.99	5,043.29	14.58	10.67	154.32	-372.54	207.05	560.73	537.12	23.61	23.750	
5,200.00	5,107.72	5,166.22	5,135.84	14.89	10.83	154.22	-382.36	212.53	575.72	551.72	24.00	23.985	
5,300.00	5,205.30	5,258.66	5,227.84	15.16	11.00	154.37	-390.17	216.88	591.22	566.86	24.36	24.271	
5,400.00	5,303.38	5,351.06	5,319.99	15.44	11.16	154.63	-396.02	220.15	605.59	580.87	24.72	24.498	
5,500.00	5,401.95	5,443.41	5,412.23	15.69	11.32	154.97	-399.93	222.32	618.70	593.65	25.05	24.701	
5,600.00	5,500.92	5,535.68	5,504.48	15.91	11.45	155.37	-401.88	223.41	630.58	605.25	25.33	24.896	
5,700.00	5,600.23	5,631.44	5,600.23	16.10	11.50	155.83	-402.13	223.55	641.09	615.54	25.55	25.088	
5,800.00	5,699.82	5,731.02	5,699.82	16.26	11.56	156.21	-402.13	223.55	649.40	623.62	25.78	25.188	
5,900.00	5,799.60	5,830.81	5,799.60	16.39	11.61	156.48	-402.13	223.55	655.33	629.33	26.00	25.204	
6,000.00	5,899.53	5,930.73	5,899.53	16.50	11.66	156.63	-402.13	223.55	658.87	632.67	26.21	25.142	
6,100.00	5,999.52	6,030.72	5,999.52	16.57	11.71	-90.41	-402.13	223.55	660.02	633.68	26.34	25.057	
6,200.00	6,099.52	6,130.72	6,099.52	16.62	11.76	-90.41	-402.13	223.55	660.02	633.59	26.43	24.971	
6,300.00	6,199.52	6,230.72	6,199.52	16.66	11.82	-90.41	-402.13	223.55	660.02	633.49	26.52	24.885	
6,400.00	6,299.52	6,330.72	6,299.52	16.70	11.87	-90.41	-402.13	223.55	660.02	633.40	26.61	24.799	
6,500.00	6,399.52	6,430.72	6,399.52	16.74	11.92	-90.41	-402.13	223.55	660.02	633.31	26.71	24.713	
6,600.00	6,499.52	6,530.72	6,499.52	16.79	11.98	-90.41	-402.13	223.55	660.02	633.22	26.80	24.627	
6,700.00	6,599.52	6,630.72	6,599.52	16.83	12.03	-90.41	-402.13	223.55	660.02	633.12	26.89	24.541	
6,800.00	6,699.52	6,730.72	6,699.52	16.88	12.09	-90.41	-402.13	223.55	660.02	633.03	26.99	24.455	
6,900.00	6,799.52	6,830.72	6,799.52	16.92	12.14	-90.41	-402.13	223.55	660.02	632.93	27.08	24.369	
7,000.00	6,899.52	6,930.72	6,899.52	16.96	12.20	-90.41	-402.13	223.55	660.02	632.84	27.18	24.283	
7,100.00	6,999.52	7,030.72	6,999.52	17.01	12.25	-90.41	-402.13	223.55	660.02	632.74	27.28	24.197	
7,200.00	7,099.52	7,130.72	7,099.52	17.05	12.31	-90.41	-402.13	223.55	660.02	632.64	27.37	24.111	
7,300.00	7,199.52	7,230.72	7,199.52	17.10	12.37	-90.41	-402.13	223.55	660.02	632.55	27.47	24.025	
7,400.00	7,299.52	7,330.72	7,299.52	17.15	12.42	-90.41	-402.13	223.55	660.02	632.45	27.57	23.939	
7,500.00	7,399.52	7,430.72	7,399.52	17.19	12.48	-90.41	-402.13	223.55	660.02	632.35	27.67	23.854	
7,600.00	7,499.52	7,530.72	7,499.52	17.24	12.54	-90.41	-402.13	223.55	660.02	632.25	27.77	23.768	
7,700.00	7,599.52	7,630.72	7,599.52	17.28	12.60	-90.41	-402.13	223.55	660.02	632.15	27.87	23.683	
7,800.00	7,699.52	7,730.72	7,699.52	17.33	12.65	-90.41	-402.13	223.55	660.02	632.05	27.97	23.597	
7,900.00	7,799.52	7,830.72	7,799.52	17.38	12.71	-90.41	-402.13	223.55	660.02	631.95	28.07	23.512	
8,000.00	7,899.52	7,930.72	7,899.52	17.43	12.77	-90.41	-402.13	223.55	660.02	631.84	28.17	23.427	
8,100.00	7,999.52	8,030.72	7,999.52	17.47	12.83	-90.41	-402.13	223.55	660.02	631.74	28.28	23.342	
8,200.00	8,099.52	8,130.72	8,099.52	17.52	12.89	-90.41	-402.13	223.55	660.02	631.64	28.38	23.257	
8,300.00	8,199.52	8,230.72	8,199.52	17.57	12.95	-90.41	-402.13	223.55	660.02	631.53	28.48	23.172	
8,400.00	8,299.52	8,330.72	8,299.52	17.62	13.00	-90.41	-402.13	223.55	660.02	631.43	28.59	23.088	
8,500.00	8,399.52	8,430.72	8,399.52	17.67	13.06	-90.41	-402.13	223.55	660.02	631.32	28.69	23.003	
8,600.00	8,499.52	8,530.72	8,499.52	17.71	13.12	-90.41	-402.13	223.55	660.02	631.22	28.80	22.919	
8,700.00	8,599.52	8,630.72	8,599.52	17.76	13.18	-90.41	-402.13	223.55	660.02	631.11	28.90	22.835	
8,800.00	8,699.52	8,730.72	8,699.52	17.81	13.24	-90.41	-402.13	223.55	660.02	631.01	29.01	22.751	
8,900.00	8,799.52	8,830.72	8,799.52	17.86	13.31	-90.41	-402.13	223.55	660.02	630.90	29.12	22.668	
9,000.00	8,899.52	8,930.72	8,899.52	17.91	13.37	-90.41	-402.13	223.55	660.02	630.79	29.22	22.585	
9,100.00	8,999.52	9,030.72	8,999.52	17.96	13.43	-90.41	-402.13	223.55	660.02	630.68	29.33	22.501	
9,200.00	9,099.52	9,130.72	9,099.52	18.01	13.49	-90.41	-402.13	223.55	660.02	630.58	29.44	22.418	
9,300.00	9,199.52	9,230.72	9,199.52	18.06	13.55	-90.41	-402.13	223.55	660.02	630.47	29.55	22.336	
9,400.00	9,299.52	9,330.72	9,299.52	18.11	13.61	-90.41	-402.13	223.55	660.02	630.36	29.66	22.253	
9,500.00	9,399.52	9,430.72	9,399.52	18.16	13.67	-90.41	-402.13	223.55	660.02	630.25	29.77	22.171	
9,600.00	9,499.52	9,530.72	9,499.52	18.22	13.73	-90.41	-402.13	223.55	660.02	630.14	29.88	22.089	
9,700.00	9,599.52	9,630.72	9,599.52	18.27	13.80	-90.41	-402.13	223.55	660.02	630.03	29.99	22.008	
9,800.00	9,699.52	9,730.72	9,699.52	18.32	13.86	-90.41	-402.13	223.55	660.02	629.92	30.10	21.926	
9,900.00	9,799.52	9,830.72	9,799.52	18.37	13.92	-90.41	-402.13	223.55	660.02	629.80	30.21	21.845	
10,000.00	9,899.52	9,930.72	9,899.52	18.42	13.99	-90.41	-402.13	223.55	660.02	629.69	30.33	21.764	
10,100.00	9,999.52	10,030.72	9,999.52	18.47	14.05	-90.41	-402.13	223.55	660.02	629.58	30.44	21.683	
10,200.00	10,099.52	10,130.72	10,099.52	18.53	14.11	-90.41	-402.13	223.55	660.02	629.47	30.55	21.603	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 134H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,199.52	10,230.72	10,199.52	18.58	14.18	-90.41	-402.13	223.55	660.02	629.35	30.67	21.523	
10,400.00	10,299.52	10,330.72	10,299.52	18.63	14.24	-90.41	-402.13	223.55	660.02	629.24	30.78	21.443	
10,500.00	10,399.52	10,430.72	10,399.52	18.69	14.30	-90.41	-402.13	223.55	660.02	629.12	30.89	21.364	
10,600.00	10,499.52	10,530.72	10,499.52	18.74	14.37	-90.41	-402.13	223.55	660.02	629.01	31.01	21.284	
10,700.00	10,599.52	10,630.72	10,599.52	18.79	14.43	-90.41	-402.13	223.55	660.02	628.89	31.12	21.206	
10,800.00	10,699.52	10,730.72	10,699.52	18.85	14.50	-90.41	-402.13	223.55	660.02	628.78	31.24	21.127	
10,900.00	10,799.52	10,830.72	10,799.52	18.90	14.56	-90.41	-402.13	223.55	660.02	628.66	31.36	21.049	
11,000.00	10,899.52	10,930.72	10,899.52	18.95	14.62	-90.41	-402.13	223.55	660.02	628.54	31.47	20.971	
11,100.00	10,999.52	11,030.72	10,999.52	19.01	14.69	-90.41	-402.13	223.55	660.02	628.43	31.59	20.893	
11,200.00	11,099.52	11,130.72	11,099.52	19.06	14.75	-90.41	-402.13	223.55	660.02	628.31	31.71	20.816	
11,300.00	11,199.52	11,230.72	11,199.52	19.12	14.82	-90.41	-402.13	223.55	660.02	628.19	31.83	20.738	
11,400.00	11,299.52	11,330.72	11,299.52	19.17	14.88	-90.41	-402.13	223.55	660.02	628.07	31.94	20.662	
11,500.00	11,399.52	11,430.72	11,399.52	19.23	14.95	-90.41	-402.13	223.55	660.02	627.95	32.06	20.585	
11,500.93	11,400.44	11,431.65	11,400.44	19.23	14.95	90.11	-402.13	223.55	660.02	627.95	32.06	20.584	
11,600.00	11,499.47	11,530.80	11,499.58	19.29	15.04	90.21	-402.75	223.56	660.02	627.87	32.15	20.529	
11,700.00	11,597.96	11,631.46	11,599.21	19.45	15.25	90.49	-416.20	223.68	660.04	627.75	32.29	20.443	
11,800.00	11,692.07	11,732.70	11,695.48	19.66	15.49	90.76	-447.09	223.96	660.07	627.48	32.59	20.254	
11,900.00	11,778.95	11,834.48	11,785.28	19.93	15.73	91.01	-494.71	224.39	660.12	627.03	33.09	19.950	
12,000.00	11,855.96	11,936.74	11,865.61	20.27	15.97	91.22	-557.78	224.96	660.17	626.35	33.82	19.522	
12,100.00	11,920.75	12,039.44	11,933.71	20.70	16.31	91.40	-634.46	225.66	660.21	625.41	34.80	18.973	
12,200.00	11,971.37	12,142.47	11,987.21	21.23	16.93	91.53	-722.35	226.46	660.25	624.21	36.04	18.318	
12,300.00	12,006.26	12,245.74	12,024.18	21.86	17.73	91.62	-818.62	227.34	660.28	622.74	37.54	17.588	
12,400.00	12,024.37	12,349.15	12,043.31	22.58	18.64	91.65	-920.10	228.26	660.29	621.04	39.25	16.824	
12,500.00	12,027.30	12,450.85	12,046.30	23.37	19.63	91.65	-1,021.70	229.18	660.29	619.22	41.07	16.076	
12,600.00	12,028.00	12,550.85	12,047.00	24.23	20.64	91.65	-1,121.69	230.09	660.29	617.31	42.98	15.363	
12,700.00	12,028.71	12,650.85	12,047.70	25.13	21.69	91.65	-1,221.69	231.00	660.29	615.32	44.97	14.683	
12,800.00	12,029.42	12,750.85	12,048.40	26.08	22.78	91.65	-1,321.68	231.91	660.29	613.25	47.04	14.038	
12,900.00	12,030.13	12,850.85	12,049.09	27.06	23.89	91.65	-1,421.67	232.82	660.29	611.12	49.17	13.429	
13,000.00	12,030.84	12,950.85	12,049.79	28.07	25.03	91.64	-1,521.67	233.72	660.29	608.93	51.36	12.857	
13,100.00	12,031.55	13,050.85	12,050.49	29.10	26.19	91.64	-1,621.66	234.63	660.29	606.69	53.60	12.320	
13,200.00	12,032.26	13,150.85	12,051.19	30.17	27.38	91.64	-1,721.66	235.54	660.29	604.41	55.88	11.816	
13,300.00	12,032.97	13,250.85	12,051.89	31.25	28.57	91.64	-1,821.65	236.45	660.28	602.08	58.20	11.345	
13,400.00	12,033.68	13,350.85	12,052.59	32.36	29.78	91.64	-1,921.64	237.36	660.28	599.73	60.56	10.903	
13,500.00	12,034.39	13,450.85	12,053.29	33.49	31.01	91.64	-2,021.64	238.27	660.28	597.34	62.95	10.490	
13,600.00	12,035.10	13,550.85	12,053.99	34.63	32.25	91.64	-2,121.63	239.18	660.28	594.92	65.36	10.102	
13,700.00	12,035.80	13,650.85	12,054.69	35.78	33.49	91.64	-2,221.62	240.09	660.28	592.48	67.80	9.739	
13,800.00	12,036.51	13,750.85	12,055.39	36.95	34.75	91.64	-2,321.62	240.99	660.28	590.02	70.26	9.397	
13,900.00	12,037.22	13,850.85	12,056.09	38.14	36.01	91.64	-2,421.61	241.90	660.28	587.54	72.74	9.077	
14,000.00	12,037.93	13,950.85	12,056.79	39.33	37.28	91.64	-2,521.60	242.81	660.28	585.04	75.24	8.775	
14,100.00	12,038.64	14,050.85	12,057.48	40.54	38.56	91.64	-2,621.60	243.72	660.28	582.52	77.76	8.492	
14,200.00	12,039.35	14,150.85	12,058.18	41.75	39.85	91.63	-2,721.59	244.63	660.28	579.99	80.29	8.224	
14,300.00	12,040.06	14,250.85	12,058.88	42.97	41.14	91.63	-2,821.58	245.54	660.28	577.45	82.83	7.971	
14,400.00	12,040.77	14,350.85	12,059.58	44.20	42.43	91.63	-2,921.58	246.45	660.28	574.89	85.39	7.733	
14,500.00	12,041.48	14,450.85	12,060.28	45.44	43.73	91.63	-3,021.57	247.36	660.28	572.33	87.95	7.507	
14,600.00	12,042.19	14,550.85	12,060.98	46.69	45.03	91.63	-3,121.56	248.26	660.28	569.75	90.53	7.294	
14,700.00	12,042.89	14,650.85	12,061.68	47.94	46.34	91.63	-3,221.56	249.17	660.28	567.17	93.11	7.091	
14,800.00	12,043.60	14,750.85	12,062.38	49.20	47.65	91.63	-3,321.55	250.08	660.28	564.57	95.71	6.899	
14,900.00	12,044.31	14,850.85	12,063.08	50.46	48.96	91.63	-3,421.54	250.99	660.28	561.97	98.31	6.716	
15,000.00	12,045.02	14,950.85	12,063.78	51.73	50.28	91.63	-3,521.54	251.90	660.28	559.36	100.92	6.543	
15,100.00	12,045.73	15,050.85	12,064.48	53.01	51.60	91.63	-3,621.53	252.81	660.28	556.74	103.53	6.377	
15,200.00	12,046.44	15,150.85	12,065.17	54.28	52.92	91.63	-3,721.52	253.72	660.28	554.12	106.15	6.220	
15,300.00	12,047.15	15,250.85	12,065.87	55.57	54.25	91.63	-3,821.52	254.63	660.28	551.49	108.78	6.070	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 134H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	12,047.86	15,350.85	12,066.57	56.85	55.57	91.62	-3,921.51	255.53	660.28	548.86	111.42	5.926	
15,500.00	12,048.57	15,450.85	12,067.27	58.14	56.90	91.62	-4,021.50	256.44	660.28	546.22	114.05	5.789	
15,600.00	12,049.28	15,550.85	12,067.97	59.44	58.23	91.62	-4,121.50	257.35	660.27	543.58	116.70	5.658	
15,700.00	12,049.99	15,650.85	12,068.67	60.73	59.57	91.62	-4,221.49	258.26	660.27	540.93	119.34	5.533	
15,800.00	12,050.69	15,750.85	12,069.37	62.03	60.90	91.62	-4,321.48	259.17	660.27	538.28	121.99	5.412	
15,900.00	12,051.40	15,850.85	12,070.07	63.33	62.23	91.62	-4,421.48	260.08	660.27	535.63	124.65	5.297	
16,000.00	12,052.11	15,950.85	12,070.77	64.64	63.57	91.62	-4,521.47	260.99	660.27	532.97	127.31	5.186	
16,100.00	12,052.82	16,050.85	12,071.47	65.95	64.91	91.62	-4,621.46	261.90	660.27	530.30	129.97	5.080	
16,200.00	12,053.53	16,150.85	12,072.17	67.26	66.25	91.62	-4,721.46	262.80	660.27	527.64	132.63	4.978	
16,300.00	12,054.24	16,250.85	12,072.87	68.57	67.59	91.62	-4,821.45	263.71	660.27	524.97	135.30	4.880	
16,400.00	12,054.95	16,350.85	12,073.56	69.88	68.93	91.62	-4,921.44	264.62	660.27	522.30	137.97	4.786	
16,500.00	12,055.66	16,450.85	12,074.26	71.20	70.27	91.61	-5,021.44	265.53	660.27	519.63	140.64	4.695	
16,600.00	12,056.37	16,550.85	12,074.96	72.52	71.62	91.61	-5,121.43	266.44	660.27	516.95	143.32	4.607	
16,700.00	12,057.08	16,650.85	12,075.66	73.84	72.96	91.61	-5,221.43	267.35	660.27	514.27	146.00	4.522	
16,800.00	12,057.79	16,750.85	12,076.36	75.16	74.31	91.61	-5,321.42	268.26	660.27	511.59	148.68	4.441	
16,900.00	12,058.49	16,850.85	12,077.06	76.48	75.66	91.61	-5,421.41	269.17	660.27	508.91	151.36	4.362	
17,000.00	12,059.20	16,950.85	12,077.76	77.81	77.00	91.61	-5,521.41	270.07	660.27	506.23	154.04	4.286	
17,100.00	12,059.91	17,050.85	12,078.46	79.14	78.35	91.61	-5,621.40	270.98	660.27	503.54	156.73	4.213	
17,200.00	12,060.62	17,150.85	12,079.16	80.46	79.70	91.61	-5,721.39	271.89	660.27	500.85	159.42	4.142	
17,300.00	12,061.33	17,250.85	12,079.86	81.79	81.05	91.61	-5,821.39	272.80	660.27	498.16	162.11	4.073	
17,400.00	12,062.04	17,350.85	12,080.56	83.12	82.40	91.61	-5,921.38	273.71	660.27	495.47	164.80	4.007	
17,500.00	12,062.75	17,450.85	12,081.25	84.45	83.75	91.61	-6,021.37	274.62	660.27	492.78	167.49	3.942	
17,600.00	12,063.46	17,550.85	12,081.95	85.79	85.10	91.61	-6,121.37	275.53	660.27	490.08	170.18	3.880	
17,700.00	12,064.17	17,650.85	12,082.65	87.12	86.45	91.60	-6,221.36	276.44	660.27	487.39	172.88	3.819	
17,800.00	12,064.88	17,750.85	12,083.35	88.46	87.81	91.60	-6,321.35	277.34	660.27	484.69	175.58	3.761	
17,900.00	12,065.59	17,850.85	12,084.05	89.79	89.16	91.60	-6,421.35	278.25	660.27	481.99	178.28	3.704	
18,000.00	12,066.29	17,950.85	12,084.75	91.13	90.51	91.60	-6,521.34	279.16	660.26	479.29	180.97	3.648	
18,100.00	12,067.00	18,050.85	12,085.45	92.47	91.87	91.60	-6,621.33	280.07	660.26	476.59	183.68	3.595	
18,200.00	12,067.71	18,150.85	12,086.15	93.81	93.22	91.60	-6,721.33	280.98	660.26	473.89	186.38	3.543	
18,300.00	12,068.42	18,250.85	12,086.85	95.15	94.58	91.60	-6,821.32	281.89	660.26	471.18	189.08	3.492	
18,400.00	12,069.13	18,350.85	12,087.55	96.49	95.93	91.60	-6,921.31	282.80	660.26	468.48	191.78	3.443	
18,500.00	12,069.84	18,450.85	12,088.25	97.83	97.29	91.60	-7,021.31	283.71	660.26	465.77	194.49	3.395	
18,600.00	12,070.55	18,550.85	12,088.95	99.17	98.64	91.60	-7,121.30	284.61	660.26	463.07	197.19	3.348	
18,700.00	12,071.26	18,650.85	12,089.64	100.51	100.00	91.60	-7,221.29	285.52	660.26	460.36	199.90	3.303	
18,800.00	12,071.97	18,750.85	12,090.34	101.86	101.36	91.59	-7,321.29	286.43	660.26	457.65	202.61	3.259	
18,900.00	12,072.68	18,850.85	12,091.04	103.20	102.72	91.59	-7,421.28	287.34	660.26	454.95	205.32	3.216	
19,000.00	12,073.39	18,950.85	12,091.74	104.55	104.07	91.59	-7,521.27	288.25	660.26	452.24	208.02	3.174	
19,100.00	12,074.09	19,050.85	12,092.44	105.89	105.43	91.59	-7,621.27	289.16	660.26	449.53	210.73	3.133	
19,200.00	12,074.80	19,150.85	12,093.14	107.24	106.79	91.59	-7,721.26	290.07	660.26	446.81	213.44	3.093	
19,300.00	12,075.51	19,250.85	12,093.84	108.58	108.15	91.59	-7,821.25	290.97	660.26	444.10	216.16	3.055	
19,400.00	12,076.22	19,350.85	12,094.54	109.93	109.51	91.59	-7,921.25	291.88	660.26	441.39	218.87	3.017	
19,500.00	12,076.93	19,450.85	12,095.24	111.28	110.86	91.59	-8,021.24	292.79	660.26	438.68	221.58	2.980	
19,600.00	12,077.64	19,550.85	12,095.94	112.63	112.22	91.59	-8,121.23	293.70	660.26	435.96	224.29	2.944	
19,700.00	12,078.35	19,650.85	12,096.64	113.98	113.58	91.59	-8,221.23	294.61	660.26	433.25	227.01	2.909	
19,800.00	12,079.06	19,750.85	12,097.33	115.33	114.94	91.59	-8,321.22	295.52	660.26	430.53	229.72	2.874	
19,900.00	12,079.77	19,850.85	12,098.03	116.68	116.30	91.59	-8,421.21	296.43	660.26	427.82	232.44	2.841	
20,000.00	12,080.48	19,950.85	12,098.73	118.03	117.66	91.58	-8,521.21	297.34	660.26	425.10	235.15	2.808	
20,100.00	12,081.18	20,050.85	12,099.43	119.38	119.02	91.58	-8,621.20	298.24	660.26	422.39	237.87	2.776	
20,200.00	12,081.89	20,150.85	12,100.13	120.73	120.38	91.58	-8,721.20	299.15	660.26	419.67	240.59	2.744	
20,300.00	12,082.60	20,250.85	12,100.83	122.08	121.75	91.58	-8,821.19	300.06	660.25	416.95	243.30	2.714	
20,400.00	12,083.31	20,350.85	12,101.53	123.43	123.11	91.58	-8,921.18	300.97	660.25	414.23	246.02	2.684	
20,500.00	12,084.02	20,450.85	12,102.23	124.78	124.47	91.58	-9,021.18	301.88	660.25	411.52	248.74	2.654	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 134H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,084.73	20,550.85	12,102.93	126.14	125.83	91.58	-9,121.17	302.79	660.25	408.80	251.46	2.626	
20,700.00	12,085.44	20,650.85	12,103.63	127.49	127.19	91.58	-9,221.16	303.70	660.25	406.08	254.18	2.598	
20,800.00	12,086.15	20,750.85	12,104.33	128.84	128.55	91.58	-9,321.16	304.61	660.25	403.36	256.89	2.570	
20,900.00	12,086.86	20,850.85	12,105.03	130.20	129.91	91.58	-9,421.15	305.51	660.25	400.64	259.61	2.543	
21,000.00	12,087.57	20,950.85	12,105.72	131.55	131.28	91.58	-9,521.14	306.42	660.25	397.92	262.33	2.517	
21,100.00	12,088.28	21,050.85	12,106.42	132.90	132.64	91.58	-9,621.14	307.33	660.25	395.20	265.05	2.491	
21,200.00	12,088.98	21,150.85	12,107.12	134.26	134.00	91.57	-9,721.13	308.24	660.25	392.48	267.78	2.466	
21,300.00	12,089.69	21,250.85	12,107.82	135.61	135.36	91.57	-9,821.12	309.15	660.25	389.75	270.50	2.441	
21,400.00	12,090.40	21,350.85	12,108.52	136.97	136.73	91.57	-9,921.12	310.06	660.25	387.03	273.22	2.417	
21,500.00	12,091.11	21,450.85	12,109.22	138.32	138.09	91.57	-10,021.11	310.97	660.25	384.31	275.94	2.393	
21,600.00	12,091.82	21,550.85	12,109.92	139.68	139.45	91.57	-10,121.10	311.88	660.25	381.59	278.66	2.369	
21,700.00	12,092.53	21,650.85	12,110.62	141.04	140.82	91.57	-10,221.10	312.78	660.25	378.86	281.39	2.346	
21,800.00	12,093.24	21,750.85	12,111.32	142.39	142.18	91.57	-10,321.09	313.69	660.25	376.14	284.11	2.324	
21,900.00	12,093.95	21,850.85	12,112.02	143.75	143.54	91.57	-10,421.08	314.60	660.25	373.42	286.83	2.302	
22,000.00	12,094.66	21,950.85	12,112.72	145.11	144.91	91.57	-10,521.08	315.51	660.25	370.69	289.55	2.280	
22,100.00	12,095.37	22,050.85	12,113.42	146.46	146.27	91.57	-10,621.07	316.42	660.25	367.97	292.28	2.259	
22,200.00	12,096.08	22,150.85	12,114.11	147.82	147.63	91.57	-10,721.06	317.33	660.25	365.24	295.00	2.238	
22,300.00	12,096.78	22,250.85	12,114.81	149.18	149.00	91.56	-10,821.06	318.24	660.25	362.52	297.73	2.218	
22,383.13	12,097.37	22,333.97	12,115.39	150.31	150.08	91.56	-10,904.18	318.99	660.25	360.31	299.94	2.201	
22,386.82	12,097.40	22,335.19	12,115.40	150.36	150.09	91.56	-10,905.40	319.00	660.25	360.30	299.95	2.201	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 137H - OH - Plan 2

Offset Site Error: 0.00 usft

Survey Program: 204-MWD+HRGM+SAG+FDIR (rev.5), 1003-MWD+HRGM+SAG+FDIR (rev.5)

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
700.00	700.00	911.07	909.62	3.02	4.05	123.53	-687.47	-2,315.96	2,425.10	2,418.04	7.06	343.366	
800.00	799.96	1,007.30	1,005.51	3.31	4.22	123.64	-686.23	-2,307.83	2,418.07	2,410.60	7.47	323.624	
900.00	899.82	1,107.78	1,105.61	3.59	4.44	123.78	-685.03	-2,299.28	2,412.47	2,404.54	7.92	304.469	
1,000.00	999.51	1,211.79	1,209.23	3.76	4.58	123.98	-682.95	-2,290.48	2,408.12	2,399.90	8.22	292.950	
1,100.00	1,099.13	1,311.48	1,308.53	3.96	4.80	124.14	-680.85	-2,282.05	2,404.27	2,395.62	8.65	278.048	
1,200.00	1,198.75	1,411.16	1,407.84	4.17	5.02	124.31	-678.76	-2,273.62	2,400.44	2,391.38	9.07	264.780	
1,300.00	1,298.37	1,510.85	1,507.15	4.37	5.23	124.47	-676.66	-2,265.19	2,396.64	2,387.16	9.48	252.868	
1,400.00	1,397.99	1,610.54	1,606.46	4.57	5.44	124.64	-674.56	-2,256.76	2,392.85	2,382.96	9.89	241.974	
1,500.00	1,497.50	1,710.21	1,705.75	4.79	5.65	130.87	-672.46	-2,248.33	2,390.19	2,379.90	10.30	232.069	
1,563.70	1,560.75	1,773.68	1,768.98	4.94	5.78	133.71	-671.12	-2,242.96	2,389.72	2,379.15	10.57	226.124	
1,600.00	1,596.74	1,809.83	1,804.99	5.02	5.85	135.05	-670.36	-2,239.90	2,389.87	2,379.15	10.72	222.912	
1,700.00	1,695.65	1,909.30	1,904.08	5.25	6.06	138.00	-668.27	-2,231.49	2,391.90	2,380.76	11.15	214.566	
1,800.00	1,794.15	2,008.57	2,002.98	5.48	6.26	140.22	-666.18	-2,223.09	2,396.30	2,384.72	11.58	206.956	
1,900.00	1,892.17	2,107.58	2,101.60	5.71	6.46	141.96	-664.09	-2,214.72	2,403.07	2,391.06	12.02	199.998	
2,000.00	1,989.70	2,206.27	2,199.93	5.85	6.66	142.96	-662.01	-2,206.37	2,412.04	2,399.66	12.38	194.868	
2,100.00	2,087.14	2,475.15	2,466.73	6.05	7.27	143.83	-654.08	-2,174.51	2,418.00	2,404.83	13.17	183.555	
2,200.00	2,184.58	2,745.10	2,731.62	6.25	7.90	144.69	-641.58	-2,124.28	2,417.06	2,403.10	13.96	173.184	
2,300.00	2,282.02	2,924.88	2,905.81	6.45	8.27	145.27	-630.84	-2,081.14	2,410.16	2,395.65	14.50	166.189	
2,400.00	2,379.46	3,023.66	3,001.21	6.66	8.48	145.59	-624.67	-2,056.33	2,402.55	2,387.59	14.96	160.644	
2,500.00	2,476.89	3,122.43	3,096.62	6.90	8.69	145.92	-618.49	-2,031.52	2,395.02	2,379.61	15.41	155.410	
2,600.00	2,574.33	3,221.20	3,192.03	7.17	8.91	146.24	-612.32	-2,006.71	2,387.56	2,371.70	15.87	150.466	
2,700.00	2,671.77	3,319.98	3,287.44	7.45	9.12	146.57	-606.14	-1,981.90	2,380.19	2,363.86	16.33	145.791	
2,800.00	2,769.21	3,418.75	3,382.84	7.73	9.35	146.90	-599.97	-1,957.09	2,372.90	2,356.11	16.79	141.365	
2,900.00	2,866.65	3,517.52	3,478.25	8.01	9.58	147.24	-593.79	-1,932.28	2,365.68	2,348.44	17.25	137.172	
3,000.00	2,964.08	3,616.30	3,573.66	8.29	9.84	147.57	-587.62	-1,907.47	2,358.55	2,340.84	17.71	133.195	
3,100.00	3,061.52	3,715.07	3,669.06	8.58	10.12	147.91	-581.44	-1,882.66	2,351.50	2,333.33	18.17	129.420	
3,200.00	3,158.96	3,813.85	3,764.47	8.87	10.41	148.25	-575.27	-1,857.85	2,344.53	2,325.90	18.63	125.833	
3,300.00	3,256.40	3,912.62	3,859.88	9.16	10.71	148.59	-569.09	-1,833.04	2,337.65	2,318.55	19.10	122.422	
3,400.00	3,353.84	4,011.39	3,955.29	9.46	11.02	148.93	-562.92	-1,808.23	2,330.85	2,311.29	19.56	119.174	
3,500.00	3,451.27	4,110.17	4,050.69	9.75	11.33	149.27	-556.74	-1,783.42	2,324.13	2,304.11	20.02	116.076	
3,600.00	3,548.71	4,208.94	4,146.10	10.05	11.65	149.62	-550.57	-1,758.61	2,317.51	2,297.02	20.49	113.124	
3,700.00	3,646.15	4,307.71	4,241.51	10.34	11.96	149.97	-544.39	-1,733.80	2,310.96	2,290.01	20.95	110.306	
3,800.00	3,743.59	4,406.49	4,336.92	10.64	12.28	150.32	-538.21	-1,708.99	2,304.51	2,283.09	21.41	107.614	
3,900.00	3,841.03	4,505.26	4,432.32	10.94	12.60	150.67	-532.04	-1,684.18	2,298.14	2,276.26	21.88	105.039	
4,000.00	3,938.47	4,604.03	4,527.73	11.24	12.92	151.02	-525.86	-1,659.37	2,291.86	2,269.52	22.34	102.576	
4,100.00	4,035.90	4,702.81	4,623.14	11.54	13.25	151.38	-519.69	-1,634.56	2,285.67	2,262.87	22.81	100.216	
4,200.00	4,133.34	4,801.58	4,718.55	11.84	13.57	151.74	-513.51	-1,609.75	2,279.57	2,256.30	23.27	97.955	
4,300.00	4,230.78	4,900.36	4,813.95	12.14	13.90	152.10	-507.34	-1,584.94	2,273.56	2,249.83	23.74	95.786	
4,400.00	4,328.22	4,999.13	4,909.36	12.45	14.23	152.46	-501.16	-1,560.13	2,267.65	2,243.45	24.20	93.705	
4,500.00	4,425.66	5,097.90	5,004.77	12.75	14.56	152.82	-494.99	-1,535.32	2,261.82	2,237.16	24.66	91.705	
4,600.00	4,523.09	5,196.68	5,100.18	13.05	14.89	153.19	-488.81	-1,510.51	2,256.09	2,230.96	25.13	89.783	
4,700.00	4,620.53	5,295.45	5,195.58	13.36	15.22	153.55	-482.64	-1,485.70	2,250.45	2,224.86	25.59	87.935	
4,800.00	4,717.97	5,394.22	5,290.99	13.66	15.55	153.92	-476.46	-1,460.89	2,244.91	2,218.86	26.06	86.157	
4,900.00	4,815.41	5,493.00	5,386.40	13.97	15.88	154.29	-470.29	-1,436.08	2,239.46	2,212.94	26.52	84.444	
5,000.00	4,912.85	5,591.77	5,481.81	14.27	16.21	154.66	-464.11	-1,411.27	2,234.11	2,207.13	26.98	82.794	
5,100.00	5,010.28	5,690.54	5,577.21	14.58	16.55	155.04	-457.94	-1,386.46	2,228.86	2,201.41	27.45	81.203	
5,200.00	5,107.72	5,789.32	5,672.62	14.89	16.88	155.41	-451.76	-1,361.65	2,223.70	2,195.78	27.91	79.668	
5,300.00	5,205.30	5,888.10	5,768.03	15.16	17.21	155.76	-445.59	-1,336.84	2,218.07	2,189.72	28.35	78.239	
5,400.00	5,303.38	5,961.35	5,838.86	15.44	17.45	155.97	-441.07	-1,318.69	2,210.67	2,181.90	28.77	76.851	
5,500.00	5,401.95	6,024.56	5,900.23	15.69	17.65	156.12	-437.41	-1,304.01	2,202.49	2,173.33	29.16	75.535	
5,600.00	5,500.92	6,100.00	5,973.79	15.91	17.88	156.28	-433.37	-1,287.77	2,193.65	2,164.08	29.56	74.203	
5,700.00	5,600.23	6,151.49	6,024.18	16.10	18.02	156.34	-430.82	-1,277.51	2,183.97	2,154.07	29.90	73.043	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 137H - OH - Plan 2

Offset Site Error: 0.00 usft

Survey Program: 204-MWD+HRGM+SAG+FDIR (rev.5), 1003-MWD+HRGM+SAG+FDIR (rev.5)

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,800.00	5,699.82	6,200.00	6,071.78	16.26	18.15	156.38	-428.56	-1,268.43	2,173.68	2,143.47	30.21	71.958	
5,900.00	5,799.60	6,279.03	6,149.57	16.39	18.35	156.46	-425.19	-1,254.91	2,162.48	2,131.92	30.56	70.766	
6,000.00	5,899.53	6,343.01	6,212.74	16.50	18.49	156.48	-422.76	-1,245.12	2,150.61	2,119.76	30.85	69.711	
6,100.00	5,999.52	6,400.00	6,269.16	16.57	18.62	-90.63	-420.80	-1,237.25	2,138.00	2,106.96	31.04	68.869	
6,200.00	6,099.52	6,471.40	6,339.99	16.62	18.75	-90.58	-418.63	-1,228.56	2,125.86	2,094.64	31.22	68.100	
6,300.00	6,199.52	6,535.95	6,404.16	16.66	18.86	-90.53	-416.95	-1,221.80	2,115.37	2,084.00	31.36	67.447	
6,400.00	6,299.52	6,600.00	6,467.95	16.70	18.97	-90.50	-415.54	-1,216.14	2,106.51	2,075.01	31.50	66.871	
6,500.00	6,399.52	6,665.67	6,533.43	16.74	19.06	-90.46	-414.37	-1,211.41	2,099.31	2,067.68	31.63	66.370	
6,600.00	6,499.52	6,730.76	6,598.42	16.79	19.14	-90.44	-413.47	-1,207.81	2,093.76	2,062.01	31.75	65.946	
6,700.00	6,599.52	6,800.00	6,667.60	16.83	19.21	-90.42	-412.81	-1,205.15	2,089.87	2,058.00	31.87	65.573	
6,800.00	6,699.52	6,861.24	6,728.83	16.88	19.26	-90.41	-412.48	-1,203.82	2,087.63	2,055.68	31.95	65.341	
6,900.00	6,799.52	6,931.93	6,799.52	16.92	19.30	-90.41	-412.38	-1,203.43	2,087.03	2,055.01	32.02	65.180	
7,000.00	6,899.52	7,031.93	6,899.52	16.96	19.34	-90.41	-412.38	-1,203.43	2,087.03	2,054.93	32.11	65.005	
7,100.00	6,999.52	7,131.93	6,999.52	17.01	19.39	-90.41	-412.38	-1,203.43	2,087.03	2,054.83	32.20	64.817	
7,200.00	7,099.52	7,231.93	7,099.52	17.05	19.44	-90.41	-412.38	-1,203.43	2,087.03	2,054.74	32.29	64.628	
7,300.00	7,199.52	7,331.93	7,199.52	17.10	19.49	-90.41	-412.38	-1,203.43	2,087.03	2,054.65	32.39	64.440	
7,400.00	7,299.52	7,431.93	7,299.52	17.15	19.54	-90.41	-412.38	-1,203.43	2,087.03	2,054.55	32.48	64.251	
7,500.00	7,399.52	7,531.93	7,399.52	17.19	19.59	-90.41	-412.38	-1,203.43	2,087.03	2,054.46	32.58	64.063	
7,600.00	7,499.52	7,631.93	7,499.52	17.24	19.64	-90.41	-412.38	-1,203.43	2,087.03	2,054.36	32.67	63.874	
7,700.00	7,599.52	7,731.93	7,599.52	17.28	19.69	-90.41	-412.38	-1,203.43	2,087.03	2,054.26	32.77	63.686	
7,800.00	7,699.52	7,831.93	7,699.52	17.33	19.74	-90.41	-412.38	-1,203.43	2,087.03	2,054.17	32.87	63.498	
7,900.00	7,799.52	7,931.93	7,799.52	17.38	19.79	-90.41	-412.38	-1,203.43	2,087.03	2,054.07	32.97	63.309	
8,000.00	7,899.52	8,031.93	7,899.52	17.43	19.84	-90.41	-412.38	-1,203.43	2,087.03	2,053.97	33.06	63.121	
8,100.00	7,999.52	8,131.93	7,999.52	17.47	19.90	-90.41	-412.38	-1,203.43	2,087.03	2,053.87	33.16	62.933	
8,200.00	8,099.52	8,231.93	8,099.52	17.52	19.95	-90.41	-412.38	-1,203.43	2,087.03	2,053.77	33.26	62.746	
8,300.00	8,199.52	8,331.93	8,199.52	17.57	20.00	-90.41	-412.38	-1,203.43	2,087.03	2,053.67	33.36	62.558	
8,400.00	8,299.52	8,431.93	8,299.52	17.62	20.05	-90.41	-412.38	-1,203.43	2,087.03	2,053.57	33.46	62.371	
8,500.00	8,399.52	8,531.93	8,399.52	17.67	20.10	-90.41	-412.38	-1,203.43	2,087.03	2,053.47	33.56	62.183	
8,600.00	8,499.52	8,631.93	8,499.52	17.71	20.16	-90.41	-412.38	-1,203.43	2,087.03	2,053.37	33.66	61.996	
8,700.00	8,599.52	8,731.93	8,599.52	17.76	20.21	-90.41	-412.38	-1,203.43	2,087.03	2,053.27	33.77	61.810	
8,800.00	8,699.52	8,831.93	8,699.52	17.81	20.26	-90.41	-412.38	-1,203.43	2,087.03	2,053.17	33.87	61.623	
8,900.00	8,799.52	8,931.93	8,799.52	17.86	20.32	-90.41	-412.38	-1,203.43	2,087.03	2,053.06	33.97	61.437	
9,000.00	8,899.52	9,031.93	8,899.52	17.91	20.37	-90.41	-412.38	-1,203.43	2,087.03	2,052.96	34.07	61.251	
9,100.00	8,999.52	9,131.93	8,999.52	17.96	20.42	-90.41	-412.38	-1,203.43	2,087.03	2,052.86	34.18	61.065	
9,200.00	9,099.52	9,231.93	9,099.52	18.01	20.48	-90.41	-412.38	-1,203.43	2,087.03	2,052.75	34.28	60.880	
9,300.00	9,199.52	9,331.93	9,199.52	18.06	20.53	-90.41	-412.38	-1,203.43	2,087.03	2,052.65	34.39	60.695	
9,400.00	9,299.52	9,431.93	9,299.52	18.11	20.58	-90.41	-412.38	-1,203.43	2,087.03	2,052.54	34.49	60.510	
9,500.00	9,399.52	9,531.93	9,399.52	18.16	20.64	-90.41	-412.38	-1,203.43	2,087.03	2,052.44	34.60	60.325	
9,600.00	9,499.52	9,631.93	9,499.52	18.22	20.69	-90.41	-412.38	-1,203.43	2,087.03	2,052.33	34.70	60.141	
9,700.00	9,599.52	9,731.93	9,599.52	18.27	20.75	-90.41	-412.38	-1,203.43	2,087.03	2,052.23	34.81	59.957	
9,800.00	9,699.52	9,831.93	9,699.52	18.32	20.80	-90.41	-412.38	-1,203.43	2,087.03	2,052.12	34.92	59.774	
9,900.00	9,799.52	9,931.93	9,799.52	18.37	20.86	-90.41	-412.38	-1,203.43	2,087.03	2,052.01	35.02	59.591	
10,000.00	9,899.52	10,031.93	9,899.52	18.42	20.91	-90.41	-412.38	-1,203.43	2,087.03	2,051.90	35.13	59.408	
10,100.00	9,999.52	10,131.93	9,999.52	18.47	20.97	-90.41	-412.38	-1,203.43	2,087.03	2,051.80	35.24	59.226	
10,200.00	10,099.52	10,231.93	10,099.52	18.53	21.02	-90.41	-412.38	-1,203.43	2,087.03	2,051.69	35.35	59.044	
10,300.00	10,199.52	10,331.93	10,199.52	18.58	21.08	-90.41	-412.38	-1,203.43	2,087.03	2,051.58	35.46	58.863	
10,400.00	10,299.52	10,431.93	10,299.52	18.63	21.14	-90.41	-412.38	-1,203.43	2,087.03	2,051.47	35.57	58.682	
10,500.00	10,399.52	10,531.93	10,399.52	18.69	21.19	-90.41	-412.38	-1,203.43	2,087.03	2,051.36	35.67	58.501	
10,600.00	10,499.52	10,631.93	10,499.52	18.74	21.25	-90.41	-412.38	-1,203.43	2,087.03	2,051.25	35.79	58.321	
10,700.00	10,599.52	10,731.93	10,599.52	18.79	21.30	-90.41	-412.38	-1,203.43	2,087.03	2,051.14	35.90	58.142	
10,800.00	10,699.52	10,831.93	10,699.52	18.85	21.36	-90.41	-412.38	-1,203.43	2,087.03	2,051.03	36.01	57.962	
10,900.00	10,799.52	10,931.93	10,799.52	18.90	21.42	-90.41	-412.38	-1,203.43	2,087.03	2,050.92	36.12	57.784	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 137H - OH - Plan 2 — **Offset Site Error:** 0.00 usft

Survey Program: 204-MWD+HRGM+SAG+FDIR (rev.5), 1003-MWD+HRGM+SAG+FDIR (rev.5) — **Rule Assigned:** — **Offset Well Error:** 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,000.00	10,899.52	11,031.93	10,899.52	18.95	21.47	-90.41	-412.38	-1,203.43	2,087.03	2,050.80	36.23	57.605	
11,100.00	10,999.52	11,131.93	10,999.52	19.01	21.53	-90.41	-412.38	-1,203.43	2,087.03	2,050.69	36.34	57.428	
11,200.00	11,099.52	11,231.93	11,099.52	19.06	21.59	-90.41	-412.38	-1,203.43	2,087.03	2,050.58	36.45	57.250	
11,300.00	11,199.52	11,331.93	11,199.52	19.12	21.65	-90.41	-412.38	-1,203.43	2,087.03	2,050.47	36.57	57.074	
11,400.00	11,299.52	11,431.93	11,299.52	19.17	21.70	-90.41	-412.38	-1,203.43	2,087.03	2,050.35	36.68	56.897	
11,500.00	11,399.52	11,531.93	11,399.52	19.23	21.76	-90.41	-412.38	-1,203.43	2,087.03	2,050.24	36.79	56.721	CC
11,500.32	11,399.83	11,532.25	11,399.83	19.23	21.76	90.11	-412.38	-1,203.43	2,087.03	2,050.24	36.79	56.721	
11,600.00	11,499.47	11,631.88	11,499.47	19.29	21.82	90.16	-412.38	-1,203.43	2,087.04	2,050.16	36.88	56.588	
11,700.00	11,597.96	11,731.98	11,599.51	19.45	21.87	90.56	-414.19	-1,203.41	2,087.13	2,050.17	36.96	56.467	
11,800.00	11,692.07	11,835.62	11,701.52	19.66	21.93	91.02	-431.70	-1,203.26	2,087.38	2,050.33	37.04	56.348	
11,900.00	11,778.95	11,942.70	11,801.82	19.93	21.97	91.46	-468.75	-1,202.94	2,087.75	2,050.58	37.17	56.166	
12,000.00	11,855.96	12,053.27	11,896.30	20.27	22.02	91.86	-525.87	-1,202.45	2,088.20	2,050.83	37.38	55.869	
12,100.00	11,920.75	12,167.20	11,980.32	20.70	22.09	92.20	-602.53	-1,201.79	2,088.68	2,050.96	37.72	55.377	
12,200.00	11,971.37	12,284.11	12,049.04	21.23	22.23	92.47	-696.85	-1,200.98	2,089.12	2,050.87	38.26	54.609	
12,300.00	12,006.26	12,403.34	12,097.96	21.86	22.48	92.65	-805.35	-1,200.05	2,089.46	2,050.42	39.04	53.516	
12,400.00	12,024.37	12,524.03	12,123.57	22.58	22.85	92.74	-923.06	-1,199.03	2,089.66	2,049.56	40.10	52.107	
12,500.00	12,027.30	12,634.04	12,127.39	23.37	23.29	92.75	-1,032.94	-1,198.08	2,089.72	2,048.41	41.31	50.581	
12,600.00	12,028.00	12,734.04	12,128.27	24.23	23.76	92.75	-1,132.93	-1,197.22	2,089.78	2,047.16	42.61	49.041	
12,700.00	12,028.71	12,834.04	12,129.14	25.13	24.28	92.75	-1,232.93	-1,196.36	2,089.83	2,045.79	44.04	47.452	
12,800.00	12,029.42	12,934.04	12,130.01	26.08	24.86	92.76	-1,332.92	-1,195.50	2,089.89	2,044.30	45.59	45.845	
12,900.00	12,030.13	13,034.04	12,130.88	27.06	25.49	92.76	-1,432.91	-1,194.64	2,089.94	2,042.70	47.24	44.242	
13,000.00	12,030.84	13,134.04	12,131.75	28.07	26.16	92.77	-1,532.90	-1,193.78	2,090.00	2,041.01	48.99	42.663	
13,100.00	12,031.55	13,234.04	12,132.62	29.10	26.87	92.77	-1,632.90	-1,192.92	2,090.05	2,039.23	50.83	41.122	
13,200.00	12,032.26	13,334.04	12,133.50	30.17	27.63	92.78	-1,732.89	-1,192.06	2,090.11	2,037.37	52.74	39.630	
13,300.00	12,032.97	13,434.04	12,134.37	31.25	28.42	92.78	-1,832.88	-1,191.19	2,090.16	2,035.44	54.73	38.192	
13,400.00	12,033.68	13,534.04	12,135.24	32.36	29.25	92.79	-1,932.87	-1,190.33	2,090.22	2,033.44	56.78	36.815	
13,500.00	12,034.39	13,634.04	12,136.11	33.49	30.12	92.79	-2,032.87	-1,189.47	2,090.27	2,031.39	58.88	35.499	
13,600.00	12,035.10	13,734.04	12,136.98	34.63	31.02	92.79	-2,132.86	-1,188.61	2,090.33	2,029.29	61.04	34.245	
13,700.00	12,035.80	13,834.04	12,137.85	35.78	31.94	92.80	-2,232.85	-1,187.75	2,090.38	2,027.14	63.24	33.053	
13,800.00	12,036.51	13,934.04	12,138.73	36.95	32.90	92.80	-2,332.84	-1,186.89	2,090.44	2,024.95	65.49	31.921	
13,900.00	12,037.22	14,034.04	12,139.60	38.14	33.88	92.81	-2,432.83	-1,186.03	2,090.49	2,022.72	67.77	30.847	
14,000.00	12,037.93	14,134.04	12,140.47	39.33	34.89	92.81	-2,532.83	-1,185.17	2,090.55	2,020.46	70.09	29.829	
14,100.00	12,038.64	14,234.04	12,141.34	40.54	35.92	92.82	-2,632.82	-1,184.30	2,090.61	2,018.17	72.43	28.864	
14,200.00	12,039.35	14,334.04	12,142.21	41.75	36.96	92.82	-2,732.81	-1,183.44	2,090.66	2,015.86	74.80	27.949	
14,300.00	12,040.06	14,434.04	12,143.08	42.97	38.03	92.82	-2,832.80	-1,182.58	2,090.72	2,013.52	77.20	27.082	
14,400.00	12,040.77	14,534.04	12,143.96	44.20	39.12	92.83	-2,932.80	-1,181.72	2,090.77	2,011.15	79.62	26.260	
14,500.00	12,041.48	14,634.04	12,144.83	45.44	40.22	92.83	-3,032.79	-1,180.86	2,090.83	2,008.77	82.06	25.480	
14,600.00	12,042.19	14,734.04	12,145.70	46.69	41.34	92.84	-3,132.78	-1,180.00	2,090.88	2,006.36	84.52	24.739	
14,700.00	12,042.89	14,834.04	12,146.57	47.94	42.47	92.84	-3,232.77	-1,179.14	2,090.94	2,003.94	86.99	24.036	
14,800.00	12,043.60	14,934.04	12,147.44	49.20	43.61	92.85	-3,332.77	-1,178.28	2,090.99	2,001.51	89.48	23.367	
14,900.00	12,044.31	15,034.04	12,148.31	50.46	44.77	92.85	-3,432.76	-1,177.41	2,091.05	1,999.06	91.99	22.731	
15,000.00	12,045.02	15,134.04	12,149.19	51.73	45.94	92.86	-3,532.75	-1,176.55	2,091.10	1,996.59	94.51	22.126	
15,100.00	12,045.73	15,234.04	12,150.06	53.01	47.12	92.86	-3,632.74	-1,175.69	2,091.16	1,994.12	97.04	21.550	
15,200.00	12,046.44	15,334.04	12,150.93	54.28	48.31	92.86	-3,732.74	-1,174.83	2,091.21	1,991.63	99.58	21.000	
15,300.00	12,047.15	15,434.04	12,151.80	55.57	49.51	92.87	-3,832.73	-1,173.97	2,091.27	1,989.14	102.13	20.476	
15,400.00	12,047.86	15,534.04	12,152.67	56.85	50.71	92.87	-3,932.72	-1,173.11	2,091.32	1,986.63	104.69	19.976	
15,500.00	12,048.57	15,634.04	12,153.54	58.14	51.93	92.88	-4,032.71	-1,172.25	2,091.38	1,984.12	107.26	19.498	
15,600.00	12,049.28	15,734.04	12,154.42	59.44	53.15	92.88	-4,132.70	-1,171.38	2,091.43	1,981.59	109.84	19.040	
15,700.00	12,049.99	15,834.04	12,155.29	60.73	54.38	92.89	-4,232.70	-1,170.52	2,091.49	1,979.06	112.43	18.603	
15,800.00	12,050.69	15,934.04	12,156.16	62.03	55.61	92.89	-4,332.69	-1,169.66	2,091.55	1,976.52	115.02	18.184	
15,900.00	12,051.40	16,034.04	12,157.03	63.33	56.85	92.89	-4,432.68	-1,168.80	2,091.60	1,973.98	117.62	17.783	
16,000.00	12,052.11	16,134.04	12,157.90	64.64	58.10	92.90	-4,532.67	-1,167.94	2,091.66	1,971.43	120.23	17.398	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 137H - OH - Plan 2

Offset Site Error: 0.00 usft

Survey Program: 204-MWD+HRGM+SAG+FDIR (rev.5), 1003-MWD+HRGM+SAG+FDIR (rev.5)

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,100.00	12,052.82	16,234.04	12,158.77	65.95	59.35	92.90	-4,632.67	-1,167.08	2,091.71	1,968.87	122.84	17.028	
16,200.00	12,053.53	16,334.04	12,159.64	67.26	60.61	92.91	-4,732.66	-1,166.22	2,091.77	1,966.31	125.46	16.673	
16,300.00	12,054.24	16,434.04	12,160.52	68.57	61.87	92.91	-4,832.65	-1,165.36	2,091.82	1,963.75	128.08	16.332	
16,400.00	12,054.95	16,534.04	12,161.39	69.88	63.14	92.92	-4,932.64	-1,164.49	2,091.88	1,961.17	130.70	16.005	
16,500.00	12,055.66	16,634.04	12,162.26	71.20	64.41	92.92	-5,032.64	-1,163.63	2,091.93	1,958.60	133.34	15.689	
16,600.00	12,056.37	16,734.04	12,163.13	72.52	65.69	92.93	-5,132.63	-1,162.77	2,091.99	1,956.02	135.97	15.386	
16,700.00	12,057.08	16,834.04	12,164.00	73.84	66.96	92.93	-5,232.62	-1,161.91	2,092.05	1,953.43	138.61	15.093	
16,800.00	12,057.79	16,934.04	12,164.87	75.16	68.25	92.93	-5,332.61	-1,161.05	2,092.10	1,950.85	141.25	14.811	
16,900.00	12,058.49	17,034.04	12,165.75	76.48	69.53	92.94	-5,432.61	-1,160.19	2,092.16	1,948.26	143.90	14.539	
17,000.00	12,059.20	17,134.04	12,166.62	77.81	70.82	92.94	-5,532.60	-1,159.33	2,092.21	1,945.66	146.55	14.276	
17,100.00	12,059.91	17,234.04	12,167.49	79.14	72.11	92.95	-5,632.59	-1,158.47	2,092.27	1,943.06	149.20	14.023	
17,200.00	12,060.62	17,334.04	12,168.36	80.46	73.41	92.95	-5,732.58	-1,157.60	2,092.32	1,940.46	151.86	13.778	
17,300.00	12,061.33	17,434.04	12,169.23	81.79	74.70	92.96	-5,832.57	-1,156.74	2,092.38	1,937.86	154.52	13.541	
17,400.00	12,062.04	17,534.04	12,170.10	83.12	76.00	92.96	-5,932.57	-1,155.88	2,092.43	1,935.25	157.18	13.312	
17,500.00	12,062.75	17,634.04	12,170.98	84.45	77.30	92.97	-6,032.56	-1,155.02	2,092.49	1,932.64	159.85	13.091	
17,600.00	12,063.46	17,734.04	12,171.85	85.79	78.61	92.97	-6,132.55	-1,154.16	2,092.55	1,930.03	162.51	12.876	
17,700.00	12,064.17	17,834.04	12,172.72	87.12	79.92	92.97	-6,232.54	-1,153.30	2,092.60	1,927.42	165.18	12.669	
17,800.00	12,064.88	17,934.04	12,173.59	88.46	81.22	92.98	-6,332.54	-1,152.44	2,092.66	1,924.81	167.85	12.467	
17,900.00	12,065.59	18,034.04	12,174.46	89.79	82.53	92.98	-6,432.53	-1,151.58	2,092.71	1,922.19	170.52	12.272	
18,000.00	12,066.29	18,134.04	12,175.33	91.13	83.85	92.99	-6,532.52	-1,150.71	2,092.77	1,919.57	173.20	12.083	
18,100.00	12,067.00	18,234.04	12,176.21	92.47	85.16	92.99	-6,632.51	-1,149.85	2,092.82	1,916.95	175.88	11.899	
18,200.00	12,067.71	18,334.04	12,177.08	93.81	86.48	93.00	-6,732.51	-1,148.99	2,092.88	1,914.32	178.56	11.721	
18,300.00	12,068.42	18,434.04	12,177.95	95.15	87.80	93.00	-6,832.50	-1,148.13	2,092.94	1,911.70	181.24	11.548	
18,400.00	12,069.13	18,534.04	12,178.82	96.49	89.11	93.00	-6,932.49	-1,147.27	2,092.99	1,909.07	183.92	11.380	
18,500.00	12,069.84	18,634.04	12,179.69	97.83	90.43	93.01	-7,032.48	-1,146.41	2,093.05	1,906.44	186.60	11.217	
18,600.00	12,070.55	18,734.04	12,180.56	99.17	91.76	93.01	-7,132.48	-1,145.55	2,093.10	1,903.82	189.29	11.058	
18,700.00	12,071.26	18,834.03	12,181.44	100.51	93.08	93.02	-7,232.47	-1,144.69	2,093.16	1,901.18	191.97	10.903	
18,800.00	12,071.97	18,934.03	12,182.31	101.86	94.41	93.02	-7,332.46	-1,143.82	2,093.21	1,898.55	194.66	10.753	
18,900.00	12,072.68	19,034.03	12,183.18	103.20	95.73	93.03	-7,432.45	-1,142.96	2,093.27	1,895.92	197.35	10.607	
19,000.00	12,073.39	19,134.03	12,184.05	104.55	97.06	93.03	-7,532.44	-1,142.10	2,093.33	1,893.28	200.04	10.464	
19,100.00	12,074.09	19,234.03	12,184.92	105.89	98.39	93.04	-7,632.44	-1,141.24	2,093.38	1,890.65	202.73	10.326	
19,200.00	12,074.80	19,334.03	12,185.79	107.24	99.72	93.04	-7,732.43	-1,140.38	2,093.44	1,888.01	205.43	10.191	
19,300.00	12,075.51	19,434.03	12,186.66	108.58	101.05	93.04	-7,832.42	-1,139.52	2,093.49	1,885.37	208.12	10.059	
19,400.00	12,076.22	19,534.03	12,187.54	109.93	102.38	93.05	-7,932.41	-1,138.66	2,093.55	1,882.73	210.82	9.931	
19,500.00	12,076.93	19,634.03	12,188.41	111.28	103.71	93.05	-8,032.41	-1,137.79	2,093.60	1,880.09	213.51	9.806	
19,600.00	12,077.64	19,734.03	12,189.28	112.63	105.05	93.06	-8,132.40	-1,136.93	2,093.66	1,877.45	216.21	9.684	
19,700.00	12,078.35	19,834.03	12,190.15	113.98	106.38	93.06	-8,232.39	-1,136.07	2,093.72	1,874.81	218.91	9.564	
19,800.00	12,079.06	19,934.03	12,191.02	115.33	107.72	93.07	-8,332.38	-1,135.21	2,093.77	1,872.17	221.61	9.448	
19,900.00	12,079.77	20,034.03	12,191.89	116.68	109.05	93.07	-8,432.38	-1,134.35	2,093.83	1,869.52	224.31	9.335	
20,000.00	12,080.48	20,134.03	12,192.77	118.03	110.39	93.07	-8,532.37	-1,133.49	2,093.88	1,866.88	227.01	9.224	
20,100.00	12,081.18	20,234.03	12,193.64	119.38	111.73	93.08	-8,632.36	-1,132.63	2,093.94	1,864.23	229.71	9.116	
20,200.00	12,081.89	20,334.03	12,194.51	120.73	113.07	93.08	-8,732.35	-1,131.77	2,094.00	1,861.59	232.41	9.010	
20,300.00	12,082.60	20,434.03	12,195.38	122.08	114.41	93.09	-8,832.35	-1,130.90	2,094.05	1,858.94	235.11	8.907	
20,400.00	12,083.31	20,534.03	12,196.25	123.43	115.75	93.09	-8,932.34	-1,130.04	2,094.11	1,856.29	237.82	8.806	
20,500.00	12,084.02	20,634.03	12,197.12	124.78	117.09	93.10	-9,032.33	-1,129.18	2,094.16	1,853.64	240.52	8.707	
20,600.00	12,084.73	20,734.03	12,198.00	126.14	118.43	93.10	-9,132.32	-1,128.32	2,094.22	1,850.99	243.23	8.610	
20,700.00	12,085.44	20,834.03	12,198.87	127.49	119.77	93.11	-9,232.31	-1,127.46	2,094.28	1,848.34	245.93	8.516	
20,800.00	12,086.15	20,934.03	12,199.74	128.84	121.11	93.11	-9,332.31	-1,126.60	2,094.33	1,845.69	248.64	8.423	
20,900.00	12,086.86	21,034.03	12,200.61	130.20	122.46	93.11	-9,432.30	-1,125.74	2,094.39	1,843.04	251.35	8.333	
21,000.00	12,087.57	21,134.03	12,201.48	131.55	123.80	93.12	-9,532.29	-1,124.88	2,094.44	1,840.39	254.05	8.244	
21,100.00	12,088.28	21,234.03	12,202.35	132.90	125.15	93.12	-9,632.28	-1,124.01	2,094.50	1,837.74	256.76	8.157	
21,200.00	12,088.98	21,334.03	12,203.23	134.26	126.49	93.13	-9,732.28	-1,123.15	2,094.56	1,835.09	259.47	8.072	

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 137H - OH - Plan 2

Offset Site Error: 0.00 usft

Survey Program: 204-MWD+HRGM+SAG+FDIR (rev.5), 1003-MWD+HRGM+SAG+FDIR (rev.5)

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
21,300.00	12,089.69	21,434.03	12,204.10	135.61	127.84	93.13	-9,832.27	-1,122.29	2,094.61	1,832.43	262.18	7.989	
21,400.00	12,090.40	21,534.03	12,204.97	136.97	129.18	93.14	-9,932.26	-1,121.43	2,094.67	1,829.78	264.89	7.908	
21,500.00	12,091.11	21,634.03	12,205.84	138.32	130.53	93.14	-10,032.25	-1,120.57	2,094.73	1,827.12	267.60	7.828	
21,600.00	12,091.82	21,734.03	12,206.71	139.68	131.88	93.14	-10,132.25	-1,119.71	2,094.78	1,824.47	270.31	7.749	
21,700.00	12,092.53	21,834.03	12,207.58	141.04	133.22	93.15	-10,232.24	-1,118.85	2,094.84	1,821.81	273.02	7.673	
21,800.00	12,093.24	21,934.03	12,208.46	142.39	134.57	93.15	-10,332.23	-1,117.99	2,094.89	1,819.16	275.74	7.597	
21,900.00	12,093.95	22,034.03	12,209.33	143.75	135.92	93.16	-10,432.22	-1,117.12	2,094.95	1,816.50	278.45	7.524	
22,000.00	12,094.66	22,134.03	12,210.20	145.11	137.27	93.16	-10,532.22	-1,116.26	2,095.01	1,813.85	281.16	7.451	
22,100.00	12,095.37	22,234.03	12,211.07	146.46	138.62	93.17	-10,632.21	-1,115.40	2,095.06	1,811.19	283.87	7.380	
22,200.00	12,096.08	22,334.03	12,211.94	147.82	139.97	93.17	-10,732.20	-1,114.54	2,095.12	1,808.53	286.59	7.311	
22,300.00	12,096.78	22,434.03	12,212.81	149.18	141.32	93.17	-10,832.19	-1,113.68	2,095.17	1,805.87	289.30	7.242	
22,300.01	12,096.78	22,434.04	12,212.81	149.18	141.32	93.17	-10,832.20	-1,113.68	2,095.17	1,805.87	289.30	7.242	
22,386.82	12,097.40	22,512.84	12,213.50	150.36	142.38	93.18	-10,911.00	-1,113.00	2,095.24	1,803.79	291.45	7.189	ES, SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 156H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	0.00	0.50	0.50	0.00	160.00	0.00	160.00				
100.00	100.00	101.00	100.00	0.98	0.99	0.00	160.00	0.00	160.00	158.03	1.97	81.315	
200.00	200.00	201.00	200.00	1.56	1.57	0.00	160.00	0.00	160.00	156.87	3.13	51.177	
300.00	300.00	301.04	300.04	1.98	1.99	0.00	160.00	0.00	160.00	156.03	3.97	40.337	
400.00	400.00	404.96	403.95	2.33	2.42	-0.22	158.69	-0.61	158.74	154.00	4.74	33.506	
500.00	500.00	508.73	507.63	2.63	2.80	-0.89	154.83	-2.40	155.03	149.63	5.40	28.718	
600.00	600.00	612.19	610.85	2.91	3.11	-2.07	148.43	-5.36	148.92	142.96	5.96	24.967	
700.00	700.00	712.55	710.83	3.02	3.26	-133.81	140.55	-9.02	141.48	135.26	6.22	22.756	
800.00	799.96	812.20	810.09	3.31	3.50	-136.42	132.67	-12.67	135.77	129.06	6.71	20.231	
900.00	899.82	911.80	909.31	3.59	3.73	-139.96	124.79	-16.32	132.34	125.15	7.19	18.414	
988.85	988.42	1,000.20	997.39	3.74	3.93	-143.75	117.80	-19.56	131.36	123.83	7.53	17.453	CC, ES
1,000.00	999.51	1,011.29	1,008.43	3.76	3.96	-144.31	116.93	-19.97	131.52	123.95	7.57	17.378	
1,100.00	1,099.13	1,110.73	1,107.49	3.96	4.18	-148.87	109.06	-23.61	132.25	124.26	7.99	16.550	
1,200.00	1,198.75	1,210.16	1,206.55	4.17	4.39	-153.35	101.20	-27.26	133.81	125.42	8.39	15.943	
1,300.00	1,298.37	1,310.57	1,306.53	4.37	4.53	-157.91	92.90	-31.18	135.98	127.27	8.71	15.609	
1,400.00	1,397.99	1,411.29	1,406.58	4.57	4.79	-163.23	82.60	-36.48	138.03	128.90	9.13	15.117	
1,500.00	1,497.50	1,511.23	1,505.51	4.79	5.05	-163.55	70.22	-43.20	141.45	131.89	9.56	14.798	
1,600.00	1,596.74	1,609.97	1,602.88	5.02	5.30	-166.99	55.90	-51.28	148.35	138.35	10.00	14.837	
1,700.00	1,695.65	1,707.28	1,698.38	5.25	5.53	-172.06	39.76	-60.62	159.89	149.45	10.44	15.314	
1,800.00	1,794.15	1,803.36	1,792.37	5.48	5.70	-177.41	22.56	-70.73	176.76	165.90	10.86	16.283	
1,900.00	1,892.17	1,898.81	1,885.73	5.71	5.90	177.94	5.44	-80.78	198.64	187.31	11.32	17.543	
2,000.00	1,989.70	1,993.63	1,978.47	5.85	6.10	173.67	-11.56	-90.76	224.68	212.97	11.70	19.202	
2,100.00	2,087.14	2,088.32	2,071.10	6.05	6.30	169.68	-28.54	-100.73	252.46	240.32	12.14	20.795	
2,200.00	2,184.58	2,183.02	2,163.73	6.25	6.51	166.48	-45.52	-110.71	281.18	268.59	12.58	22.343	
2,300.00	2,282.02	2,277.71	2,256.35	6.45	6.71	163.87	-62.50	-120.68	310.56	297.53	13.03	23.829	
2,400.00	2,379.46	2,372.41	2,348.98	6.66	6.91	161.70	-79.48	-130.65	340.44	326.96	13.49	25.246	
2,500.00	2,476.89	2,467.11	2,441.60	6.90	7.17	159.88	-96.46	-140.62	370.70	356.76	13.94	26.589	
2,600.00	2,574.33	2,561.80	2,534.23	7.17	7.44	158.34	-113.44	-150.60	401.25	386.85	14.40	27.861	
2,700.00	2,671.77	2,656.50	2,626.86	7.45	7.70	157.01	-130.42	-160.57	432.04	417.17	14.87	29.063	
2,800.00	2,769.21	2,751.19	2,719.48	7.73	7.97	155.86	-147.40	-170.54	463.00	447.67	15.33	30.198	
2,900.00	2,866.65	2,845.89	2,812.11	8.01	8.24	154.85	-164.38	-180.51	494.11	478.31	15.80	31.271	
3,000.00	2,964.08	2,940.59	2,904.73	8.29	8.50	153.96	-181.36	-190.49	525.35	509.08	16.27	32.284	
3,100.00	3,061.52	3,035.28	2,997.36	8.58	8.77	153.17	-198.34	-200.46	556.69	539.94	16.75	33.241	
3,200.00	3,158.96	3,129.98	3,089.99	8.87	9.04	152.46	-215.32	-210.43	588.12	570.89	17.22	34.147	
3,300.00	3,256.40	3,224.68	3,182.61	9.16	9.31	151.83	-232.30	-220.40	619.62	601.91	17.70	35.004	
3,400.00	3,353.84	3,319.37	3,275.24	9.46	9.58	151.25	-249.28	-230.37	651.18	632.99	18.18	35.815	
3,500.00	3,451.27	3,414.07	3,367.86	9.75	9.85	150.73	-266.26	-240.35	682.79	664.13	18.66	36.585	
3,600.00	3,548.71	3,508.76	3,460.49	10.05	10.13	150.26	-283.24	-250.32	714.45	695.30	19.15	37.315	
3,700.00	3,646.15	3,603.46	3,553.12	10.34	10.40	149.82	-300.22	-260.29	746.15	726.52	19.63	38.008	
3,800.00	3,743.59	3,698.16	3,645.74	10.64	10.67	149.42	-317.20	-270.26	777.89	757.77	20.12	38.667	
3,900.00	3,841.03	3,792.95	3,738.47	10.94	10.94	149.05	-334.20	-280.25	809.66	789.06	20.60	39.307	
4,000.00	3,938.47	3,902.44	3,845.88	11.24	11.23	148.75	-352.49	-290.99	840.61	819.45	21.16	39.735	
4,100.00	4,035.90	4,013.29	3,955.20	11.54	11.51	148.64	-368.29	-300.27	869.88	848.18	21.70	40.093	
4,200.00	4,133.34	4,125.33	4,066.19	11.84	11.75	148.71	-381.48	-308.01	897.44	875.22	22.21	40.400	
4,300.00	4,230.78	4,238.39	4,178.59	12.14	11.97	148.95	-391.93	-314.15	923.26	900.55	22.70	40.665	
4,400.00	4,328.22	4,352.29	4,292.14	12.45	12.15	149.34	-399.56	-318.63	947.34	924.18	23.16	40.897	
4,500.00	4,425.66	4,466.82	4,406.53	12.75	12.30	149.87	-404.28	-321.41	969.71	946.12	23.59	41.105	
4,600.00	4,523.09	4,581.79	4,521.48	13.05	12.40	150.54	-406.05	-322.44	990.39	966.45	23.95	41.361	
4,700.00	4,620.53	4,680.84	4,620.53	13.36	12.44	151.17	-406.06	-322.45	1,010.17	985.95	24.22	41.714	
4,800.00	4,717.97	4,778.28	4,717.97	13.66	12.47	151.77	-406.06	-322.45	1,030.04	1,005.55	24.49	42.066	
4,900.00	4,815.41	4,875.72	4,815.41	13.97	12.51	152.35	-406.06	-322.45	1,050.02	1,025.27	24.76	42.415	
5,000.00	4,912.85	4,973.15	4,912.85	14.27	12.55	152.91	-406.06	-322.45	1,070.10	1,045.08	25.02	42.762	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 156H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Rule Assigned: Warning
5,100.00	5,010.28	5,070.59	5,010.28	14.58	12.59	153.44	-406.06	-322.45	1,090.28	1,064.98	25.29	43.106	
5,200.00	5,107.72	5,168.03	5,107.72	14.89	12.63	153.96	-406.06	-322.45	1,110.54	1,084.98	25.56	43.446	
5,300.00	5,205.30	5,265.60	5,205.30	15.16	12.67	154.53	-406.06	-322.45	1,130.34	1,104.53	25.80	43.806	
5,400.00	5,303.38	5,363.69	5,303.38	15.44	12.71	155.06	-406.06	-322.45	1,147.99	1,121.92	26.07	44.031	
5,500.00	5,401.95	5,462.26	5,401.95	15.69	12.75	155.51	-406.06	-322.45	1,163.35	1,137.02	26.33	44.180	
5,600.00	5,500.92	5,561.23	5,500.92	15.91	12.79	155.88	-406.06	-322.45	1,176.39	1,149.81	26.58	44.253	
5,700.00	5,600.23	5,660.54	5,600.23	16.10	12.83	156.17	-406.06	-322.45	1,187.08	1,160.26	26.82	44.254	
5,800.00	5,699.82	5,760.12	5,699.82	16.26	12.87	156.40	-406.06	-322.45	1,195.41	1,168.35	27.05	44.185	
5,900.00	5,799.60	5,859.91	5,799.60	16.39	12.92	156.56	-406.06	-322.45	1,201.35	1,174.07	27.27	44.051	
6,000.00	5,899.53	5,959.83	5,899.53	16.50	12.96	156.65	-406.06	-322.45	1,204.89	1,177.41	27.47	43.855	
6,100.00	5,999.52	6,059.82	5,999.52	16.57	13.00	-90.41	-406.06	-322.45	1,206.03	1,178.43	27.60	43.692	
6,200.00	6,099.52	6,159.82	6,099.52	16.62	13.05	-90.41	-406.06	-322.45	1,206.03	1,178.34	27.69	43.558	
6,300.00	6,199.52	6,259.82	6,199.52	16.66	13.09	-90.41	-406.06	-322.45	1,206.03	1,178.26	27.77	43.425	
6,400.00	6,299.52	6,359.82	6,299.52	16.70	13.13	-90.41	-406.06	-322.45	1,206.03	1,178.17	27.86	43.291	
6,500.00	6,399.52	6,459.82	6,399.52	16.74	13.18	-90.41	-406.06	-322.45	1,206.03	1,178.09	27.95	43.156	
6,600.00	6,499.52	6,559.82	6,499.52	16.79	13.23	-90.41	-406.06	-322.45	1,206.03	1,178.00	28.03	43.022	
6,700.00	6,599.52	6,659.82	6,599.52	16.83	13.27	-90.41	-406.06	-322.45	1,206.03	1,177.91	28.12	42.887	
6,800.00	6,699.52	6,759.82	6,699.52	16.88	13.32	-90.41	-406.06	-322.45	1,206.03	1,177.82	28.21	42.752	
6,900.00	6,799.52	6,859.82	6,799.52	16.92	13.36	-90.41	-406.06	-322.45	1,206.03	1,177.73	28.30	42.617	
7,000.00	6,899.52	6,959.82	6,899.52	16.96	13.41	-90.41	-406.06	-322.45	1,206.03	1,177.64	28.39	42.482	
7,100.00	6,999.52	7,059.82	6,999.52	17.01	13.46	-90.41	-406.06	-322.45	1,206.03	1,177.55	28.48	42.347	
7,200.00	7,099.52	7,159.82	7,099.52	17.05	13.50	-90.41	-406.06	-322.45	1,206.03	1,177.46	28.57	42.211	
7,300.00	7,199.52	7,259.82	7,199.52	17.10	13.55	-90.41	-406.06	-322.45	1,206.03	1,177.37	28.66	42.076	
7,400.00	7,299.52	7,359.82	7,299.52	17.15	13.60	-90.41	-406.06	-322.45	1,206.03	1,177.28	28.76	41.940	
7,500.00	7,399.52	7,459.82	7,399.52	17.19	13.65	-90.41	-406.06	-322.45	1,206.03	1,177.18	28.85	41.805	
7,600.00	7,499.52	7,559.82	7,499.52	17.24	13.70	-90.41	-406.06	-322.45	1,206.03	1,177.09	28.94	41.669	
7,700.00	7,599.52	7,659.82	7,599.52	17.28	13.75	-90.41	-406.06	-322.45	1,206.03	1,176.99	29.04	41.533	
7,800.00	7,699.52	7,759.82	7,699.52	17.33	13.80	-90.41	-406.06	-322.45	1,206.03	1,176.90	29.13	41.398	
7,900.00	7,799.52	7,859.82	7,799.52	17.38	13.85	-90.41	-406.06	-322.45	1,206.03	1,176.80	29.23	41.262	
8,000.00	7,899.52	7,959.82	7,899.52	17.43	13.90	-90.41	-406.06	-322.45	1,206.03	1,176.71	29.32	41.127	
8,100.00	7,999.52	8,059.82	7,999.52	17.47	13.95	-90.41	-406.06	-322.45	1,206.03	1,176.61	29.42	40.991	
8,200.00	8,099.52	8,159.82	8,099.52	17.52	14.00	-90.41	-406.06	-322.45	1,206.03	1,176.51	29.52	40.856	
8,300.00	8,199.52	8,259.82	8,199.52	17.57	14.05	-90.41	-406.06	-322.45	1,206.03	1,176.41	29.62	40.721	
8,400.00	8,299.52	8,359.82	8,299.52	17.62	14.10	-90.41	-406.06	-322.45	1,206.03	1,176.32	29.72	40.585	
8,500.00	8,399.52	8,459.82	8,399.52	17.67	14.15	-90.41	-406.06	-322.45	1,206.03	1,176.22	29.82	40.450	
8,600.00	8,499.52	8,559.82	8,499.52	17.71	14.20	-90.41	-406.06	-322.45	1,206.03	1,176.12	29.91	40.316	
8,700.00	8,599.52	8,659.82	8,599.52	17.76	14.26	-90.41	-406.06	-322.45	1,206.03	1,176.02	30.02	40.181	
8,800.00	8,699.52	8,759.82	8,699.52	17.81	14.31	-90.41	-406.06	-322.45	1,206.03	1,175.92	30.12	40.046	
8,900.00	8,799.52	8,859.82	8,799.52	17.86	14.36	-90.41	-406.06	-322.45	1,206.03	1,175.81	30.22	39.912	
9,000.00	8,899.52	8,959.82	8,899.52	17.91	14.41	-90.41	-406.06	-322.45	1,206.03	1,175.71	30.32	39.778	
9,100.00	8,999.52	9,059.82	8,999.52	17.96	14.47	-90.41	-406.06	-322.45	1,206.03	1,175.61	30.42	39.644	
9,200.00	9,099.52	9,159.82	9,099.52	18.01	14.52	-90.41	-406.06	-322.45	1,206.03	1,175.51	30.52	39.510	
9,300.00	9,199.52	9,259.82	9,199.52	18.06	14.58	-90.41	-406.06	-322.45	1,206.03	1,175.40	30.63	39.376	
9,400.00	9,299.52	9,359.82	9,299.52	18.11	14.63	-90.41	-406.06	-322.45	1,206.03	1,175.30	30.73	39.243	
9,500.00	9,399.52	9,459.82	9,399.52	18.16	14.68	-90.41	-406.06	-322.45	1,206.03	1,175.19	30.84	39.110	
9,600.00	9,499.52	9,559.82	9,499.52	18.22	14.74	-90.41	-406.06	-322.45	1,206.03	1,175.09	30.94	38.977	
9,700.00	9,599.52	9,659.82	9,599.52	18.27	14.79	-90.41	-406.06	-322.45	1,206.03	1,174.98	31.05	38.845	
9,800.00	9,699.52	9,759.82	9,699.52	18.32	14.85	-90.41	-406.06	-322.45	1,206.03	1,174.88	31.15	38.712	
9,900.00	9,799.52	9,859.82	9,799.52	18.37	14.91	-90.41	-406.06	-322.45	1,206.03	1,174.77	31.26	38.580	
10,000.00	9,899.52	9,959.82	9,899.52	18.42	14.96	-90.41	-406.06	-322.45	1,206.03	1,174.66	31.37	38.449	
10,100.00	9,999.52	10,059.82	9,999.52	18.47	15.02	-90.41	-406.06	-322.45	1,206.03	1,174.56	31.47	38.317	
10,200.00	10,099.52	10,159.82	10,099.52	18.53	15.07	-90.41	-406.06	-322.45	1,206.03	1,174.45	31.58	38.186	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 156H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,199.52	10,259.82	10,199.52	18.58	15.13	-90.41	-406.06	-322.45	1,206.03	1,174.34	31.69	38.056	
10,400.00	10,299.52	10,359.82	10,299.52	18.63	15.19	-90.41	-406.06	-322.45	1,206.03	1,174.23	31.80	37.925	
10,500.00	10,399.52	10,459.82	10,399.52	18.69	15.24	-90.41	-406.06	-322.45	1,206.03	1,174.12	31.91	37.795	
10,600.00	10,499.52	10,559.82	10,499.52	18.74	15.30	-90.41	-406.06	-322.45	1,206.03	1,174.01	32.02	37.665	
10,700.00	10,599.52	10,659.82	10,599.52	18.79	15.36	-90.41	-406.06	-322.45	1,206.03	1,173.90	32.13	37.536	
10,800.00	10,699.52	10,759.82	10,699.52	18.85	15.42	-90.41	-406.06	-322.45	1,206.03	1,173.79	32.24	37.407	
10,900.00	10,799.52	10,859.82	10,799.52	18.90	15.48	-90.41	-406.06	-322.45	1,206.03	1,173.68	32.35	37.279	
11,000.00	10,899.52	10,959.82	10,899.52	18.95	15.53	-90.41	-406.06	-322.45	1,206.03	1,173.57	32.46	37.150	
11,100.00	10,999.52	11,059.82	10,999.52	19.01	15.59	-90.41	-406.06	-322.45	1,206.03	1,173.46	32.57	37.027	
11,181.64	11,081.15	11,141.53	11,081.15	19.05	15.65	-90.52	-408.35	-322.43	1,206.03	1,173.37	32.65	36.933	
11,200.00	11,099.52	11,159.76	11,099.28	19.06	15.68	-90.61	-410.26	-322.41	1,206.03	1,173.35	32.68	36.904	
11,300.00	11,199.52	11,255.75	11,193.15	19.12	15.87	-91.54	-429.78	-322.23	1,206.24	1,173.35	32.89	36.680	
11,400.00	11,299.52	11,343.11	11,274.68	19.17	16.12	-93.02	-460.93	-321.95	1,207.43	1,174.24	33.19	36.380	
11,500.00	11,399.52	11,419.55	11,341.42	19.23	16.38	-94.78	-498.08	-321.61	1,210.76	1,177.18	33.57	36.062	
11,600.00	11,499.47	11,485.63	11,394.69	19.29	16.65	83.62	-537.11	-321.26	1,217.21	1,183.20	34.01	35.790	
11,700.00	11,597.96	11,550.00	11,441.94	19.45	16.97	81.13	-580.78	-320.86	1,225.80	1,191.22	34.58	35.447	
11,800.00	11,692.07	11,609.45	11,480.97	19.66	17.31	78.83	-625.59	-320.45	1,235.49	1,200.17	35.32	34.982	
11,900.00	11,778.95	11,669.42	11,515.43	19.93	17.71	76.68	-674.64	-320.01	1,245.49	1,209.28	36.21	34.392	
12,000.00	11,855.96	11,728.54	11,544.19	20.27	18.16	74.79	-726.25	-319.54	1,255.07	1,217.83	37.24	33.705	
12,100.00	11,920.75	11,787.02	11,567.27	20.70	18.64	73.21	-779.95	-319.05	1,263.57	1,225.22	38.35	32.949	
12,200.00	11,971.37	11,850.00	11,585.86	21.23	19.20	71.94	-840.09	-318.50	1,270.49	1,230.94	39.55	32.124	
12,300.00	12,006.26	11,900.00	11,595.86	21.86	19.67	71.15	-889.06	-318.06	1,275.37	1,234.70	40.67	31.359	
12,400.00	12,024.37	11,960.31	11,602.17	22.58	20.27	70.70	-949.01	-317.51	1,277.98	1,236.12	41.87	30.525	
12,500.00	12,027.30	12,040.34	11,603.23	23.37	21.09	70.63	-1,029.02	-316.79	1,278.41	1,235.14	43.27	29.545	
12,600.00	12,028.00	12,140.34	11,603.75	24.23	22.15	70.62	-1,129.02	-315.88	1,278.47	1,233.50	44.97	28.427	
12,700.00	12,028.71	12,240.34	11,604.28	25.13	23.25	70.61	-1,229.01	-314.97	1,278.53	1,231.78	46.76	27.343	
12,800.00	12,029.42	12,340.34	11,604.80	26.08	24.37	70.60	-1,329.01	-314.06	1,278.59	1,229.98	48.62	26.300	
12,900.00	12,030.13	12,440.34	11,605.33	27.06	25.52	70.60	-1,429.00	-313.15	1,278.66	1,228.12	50.54	25.301	
13,000.00	12,030.84	12,540.34	11,605.85	28.07	26.69	70.59	-1,529.00	-312.24	1,278.72	1,226.20	52.52	24.348	
13,100.00	12,031.55	12,640.34	11,606.38	29.10	27.88	70.58	-1,628.99	-311.33	1,278.78	1,224.23	54.55	23.442	
13,200.00	12,032.26	12,740.34	11,606.90	30.17	29.08	70.57	-1,728.98	-310.43	1,278.84	1,222.21	56.63	22.583	
13,300.00	12,032.97	12,840.34	11,607.43	31.25	30.30	70.56	-1,828.98	-309.52	1,278.90	1,220.15	58.75	21.770	
13,400.00	12,033.68	12,940.34	11,607.95	32.36	31.52	70.56	-1,928.97	-308.61	1,278.96	1,218.06	60.90	21.000	
13,500.00	12,034.39	13,040.34	11,608.48	33.49	32.76	70.55	-2,028.97	-307.70	1,279.02	1,215.93	63.09	20.273	
13,600.00	12,035.10	13,140.34	11,609.00	34.63	34.01	70.54	-2,128.96	-306.79	1,279.08	1,213.77	65.31	19.585	
13,700.00	12,035.80	13,240.34	11,609.53	35.78	35.27	70.53	-2,228.96	-305.88	1,279.14	1,211.59	67.55	18.935	
13,800.00	12,036.51	13,340.34	11,610.05	36.95	36.54	70.53	-2,328.95	-304.97	1,279.20	1,209.38	69.82	18.320	
13,900.00	12,037.22	13,440.34	11,610.58	38.14	37.81	70.52	-2,428.95	-304.06	1,279.27	1,207.15	72.12	17.739	
14,000.00	12,037.93	13,540.34	11,611.11	39.33	39.09	70.51	-2,528.94	-303.15	1,279.33	1,204.90	74.43	17.189	
14,100.00	12,038.64	13,640.34	11,611.63	40.54	40.37	70.50	-2,628.93	-302.24	1,279.39	1,202.63	76.76	16.668	
14,200.00	12,039.35	13,740.34	11,612.16	41.75	41.66	70.49	-2,728.93	-301.34	1,279.45	1,200.35	79.10	16.175	
14,300.00	12,040.06	13,840.34	11,612.68	42.97	42.96	70.49	-2,828.92	-300.43	1,279.51	1,198.05	81.46	15.706	
14,400.00	12,040.77	13,940.34	11,613.21	44.20	44.26	70.48	-2,928.92	-299.52	1,279.57	1,195.73	83.84	15.262	
14,500.00	12,041.48	14,040.34	11,613.73	45.44	45.56	70.47	-3,028.91	-298.61	1,279.63	1,193.41	86.23	14.840	
14,600.00	12,042.19	14,140.34	11,614.26	46.69	46.87	70.46	-3,128.91	-297.70	1,279.69	1,191.07	88.62	14.439	
14,700.00	12,042.89	14,240.34	11,614.78	47.94	48.18	70.46	-3,228.90	-296.79	1,279.75	1,188.72	91.03	14.058	
14,800.00	12,043.60	14,340.34	11,615.31	49.20	49.50	70.45	-3,328.89	-295.88	1,279.82	1,186.36	93.45	13.695	
14,900.00	12,044.31	14,440.34	11,615.83	50.46	50.81	70.44	-3,428.89	-294.97	1,279.88	1,184.00	95.88	13.349	
15,000.00	12,045.02	14,540.34	11,616.36	51.73	52.13	70.43	-3,528.88	-294.06	1,279.94	1,181.62	98.32	13.018	
15,100.00	12,045.73	14,640.34	11,616.88	53.01	53.45	70.42	-3,628.88	-293.16	1,280.00	1,179.24	100.76	12.703	
15,200.00	12,046.44	14,740.34	11,617.41	54.28	54.78	70.42	-3,728.87	-292.25	1,280.06	1,176.85	103.21	12.402	
15,300.00	12,047.15	14,840.34	11,617.93	55.57	56.10	70.41	-3,828.87	-291.34	1,280.12	1,174.45	105.67	12.114	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 156H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	12,047.86	14,940.34	11,618.46	56.85	57.43	70.40	-3,928.86	-290.43	1,280.18	1,172.05	108.14	11.839	
15,500.00	12,048.57	15,040.34	11,618.98	58.14	58.76	70.39	-4,028.85	-289.52	1,280.25	1,169.64	110.61	11.575	
15,600.00	12,049.28	15,140.34	11,619.51	59.44	60.10	70.39	-4,128.85	-288.61	1,280.31	1,167.23	113.08	11.322	
15,700.00	12,049.99	15,240.34	11,620.03	60.73	61.43	70.38	-4,228.84	-287.70	1,280.37	1,164.81	115.56	11.080	
15,800.00	12,050.69	15,340.34	11,620.56	62.03	62.76	70.37	-4,328.84	-286.79	1,280.43	1,162.38	118.05	10.847	
15,900.00	12,051.40	15,440.34	11,621.08	63.33	64.10	70.36	-4,428.83	-285.88	1,280.49	1,159.96	120.53	10.623	
16,000.00	12,052.11	15,540.34	11,621.61	64.64	65.44	70.35	-4,528.83	-284.98	1,280.55	1,157.52	123.03	10.409	
16,100.00	12,052.82	15,640.34	11,622.13	65.95	66.78	70.35	-4,628.82	-284.07	1,280.61	1,155.09	125.52	10.202	
16,200.00	12,053.53	15,740.34	11,622.66	67.26	68.12	70.34	-4,728.81	-283.16	1,280.68	1,152.65	128.03	10.003	
16,300.00	12,054.24	15,840.34	11,623.18	68.57	69.46	70.33	-4,828.81	-282.25	1,280.74	1,150.21	130.53	9.812	
16,400.00	12,054.95	15,940.34	11,623.71	69.88	70.80	70.32	-4,928.80	-281.34	1,280.80	1,147.76	133.04	9.627	
16,500.00	12,055.66	16,040.34	11,624.23	71.20	72.15	70.32	-5,028.80	-280.43	1,280.86	1,145.31	135.55	9.450	
16,600.00	12,056.37	16,140.34	11,624.76	72.52	73.49	70.31	-5,128.79	-279.52	1,280.92	1,142.86	138.06	9.278	
16,700.00	12,057.08	16,240.34	11,625.28	73.84	74.84	70.30	-5,228.79	-278.61	1,280.98	1,140.41	140.57	9.112	
16,800.00	12,057.79	16,340.33	11,625.81	75.16	76.18	70.29	-5,328.78	-277.70	1,281.05	1,137.95	143.09	8.953	
16,900.00	12,058.49	16,440.33	11,626.33	76.48	77.53	70.29	-5,428.77	-276.80	1,281.11	1,135.49	145.61	8.798	
17,000.00	12,059.20	16,540.33	11,626.86	77.81	78.88	70.28	-5,528.77	-275.89	1,281.17	1,133.03	148.14	8.649	
17,100.00	12,059.91	16,640.33	11,627.38	79.14	80.23	70.27	-5,628.76	-274.98	1,281.23	1,130.57	150.66	8.504	
17,200.00	12,060.62	16,740.33	11,627.91	80.46	81.57	70.26	-5,728.76	-274.07	1,281.29	1,128.11	153.19	8.364	
17,300.00	12,061.33	16,840.33	11,628.43	81.79	82.92	70.25	-5,828.75	-273.16	1,281.35	1,125.64	155.72	8.229	
17,400.00	12,062.04	16,940.33	11,628.96	83.12	84.27	70.25	-5,928.75	-272.25	1,281.42	1,123.17	158.25	8.098	
17,500.00	12,062.75	17,040.33	11,629.48	84.45	85.63	70.24	-6,028.74	-271.34	1,281.48	1,120.70	160.78	7.971	
17,600.00	12,063.46	17,140.33	11,630.01	85.79	86.98	70.23	-6,128.74	-270.43	1,281.54	1,118.23	163.31	7.847	
17,700.00	12,064.17	17,240.33	11,630.53	87.12	88.33	70.22	-6,228.73	-269.52	1,281.60	1,115.76	165.85	7.728	
17,800.00	12,064.88	17,340.33	11,631.06	88.46	89.68	70.22	-6,328.72	-268.61	1,281.66	1,113.28	168.38	7.612	
17,900.00	12,065.59	17,440.33	11,631.58	89.79	91.04	70.21	-6,428.72	-267.71	1,281.73	1,110.81	170.92	7.499	
18,000.00	12,066.29	17,540.33	11,632.11	91.13	92.39	70.20	-6,528.71	-266.80	1,281.79	1,108.33	173.46	7.390	
18,100.00	12,067.00	17,640.33	11,632.63	92.47	93.74	70.19	-6,628.71	-265.89	1,281.85	1,105.85	176.00	7.283	
18,200.00	12,067.71	17,740.33	11,633.16	93.81	95.10	70.18	-6,728.70	-264.98	1,281.91	1,103.37	178.54	7.180	
18,300.00	12,068.42	17,840.33	11,633.68	95.15	96.45	70.18	-6,828.70	-264.07	1,281.97	1,100.89	181.08	7.080	
18,400.00	12,069.13	17,940.33	11,634.21	96.49	97.81	70.17	-6,928.69	-263.16	1,282.04	1,098.41	183.63	6.982	
18,500.00	12,069.84	18,040.33	11,634.73	97.83	99.16	70.16	-7,028.68	-262.25	1,282.10	1,095.93	186.17	6.887	
18,600.00	12,070.55	18,140.33	11,635.26	99.17	100.52	70.15	-7,128.68	-261.34	1,282.16	1,093.45	188.71	6.794	
18,700.00	12,071.26	18,240.33	11,635.78	100.51	101.88	70.15	-7,228.67	-260.43	1,282.22	1,090.96	191.26	6.704	
18,800.00	12,071.97	18,340.33	11,636.31	101.86	103.23	70.14	-7,328.67	-259.53	1,282.29	1,088.48	193.81	6.616	
18,900.00	12,072.68	18,440.33	11,636.83	103.20	104.59	70.13	-7,428.66	-258.62	1,282.35	1,085.99	196.36	6.531	
19,000.00	12,073.39	18,540.33	11,637.36	104.55	105.95	70.12	-7,528.66	-257.71	1,282.41	1,083.51	198.90	6.447	
19,100.00	12,074.09	18,640.33	11,637.88	105.89	107.31	70.11	-7,628.65	-256.80	1,282.47	1,081.02	201.45	6.366	
19,200.00	12,074.80	18,740.33	11,638.41	107.24	108.66	70.11	-7,728.64	-255.89	1,282.53	1,078.53	204.00	6.287	
19,300.00	12,075.51	18,840.33	11,638.94	108.58	110.02	70.10	-7,828.64	-254.98	1,282.60	1,076.04	206.55	6.209	
19,400.00	12,076.22	18,940.33	11,639.46	109.93	111.38	70.09	-7,928.63	-254.07	1,282.66	1,073.55	209.11	6.134	
19,500.00	12,076.93	19,040.33	11,639.99	111.28	112.74	70.08	-8,028.63	-253.16	1,282.72	1,071.06	211.66	6.060	
19,600.00	12,077.64	19,140.33	11,640.51	112.63	114.10	70.08	-8,128.62	-252.25	1,282.78	1,068.57	214.21	5.988	
19,700.00	12,078.35	19,240.33	11,641.04	113.98	115.46	70.07	-8,228.62	-251.35	1,282.85	1,066.08	216.76	5.918	
19,800.00	12,079.06	19,340.33	11,641.56	115.33	116.82	70.06	-8,328.61	-250.44	1,282.91	1,063.59	219.32	5.850	
19,900.00	12,079.77	19,440.33	11,642.09	116.68	118.18	70.05	-8,428.60	-249.53	1,282.97	1,061.10	221.87	5.783	
20,000.00	12,080.48	19,540.33	11,642.61	118.03	119.54	70.05	-8,528.60	-248.62	1,283.03	1,058.61	224.42	5.717	
20,100.00	12,081.18	19,640.33	11,643.14	119.38	120.90	70.04	-8,628.59	-247.71	1,283.10	1,056.12	226.98	5.653	
20,200.00	12,081.89	19,740.33	11,643.66	120.73	122.26	70.03	-8,728.59	-246.80	1,283.16	1,053.62	229.53	5.590	
20,300.00	12,082.60	19,840.33	11,644.19	122.08	123.62	70.02	-8,828.58	-245.89	1,283.22	1,051.13	232.09	5.529	
20,400.00	12,083.31	19,940.33	11,644.71	123.43	124.98	70.01	-8,928.58	-244.98	1,283.28	1,048.64	234.65	5.469	
20,500.00	12,084.02	20,040.33	11,645.24	124.78	126.34	70.01	-9,028.57	-244.07	1,283.35	1,046.14	237.20	5.410	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 156H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,084.73	20,140.33	11,645.76	126.14	127.70	70.00	-9,128.56	-243.17	1,283.41	1,043.65	239.76	5.353	
20,700.00	12,085.44	20,240.33	11,646.29	127.49	129.07	69.99	-9,228.56	-242.26	1,283.47	1,041.16	242.32	5.297	
20,800.00	12,086.15	20,340.33	11,646.81	128.84	130.43	69.98	-9,328.55	-241.35	1,283.53	1,038.66	244.87	5.242	
20,900.00	12,086.86	20,440.33	11,647.34	130.20	131.79	69.98	-9,428.55	-240.44	1,283.60	1,036.17	247.43	5.188	
21,000.00	12,087.57	20,540.33	11,647.86	131.55	133.15	69.97	-9,528.54	-239.53	1,283.66	1,033.67	249.99	5.135	
21,100.00	12,088.28	20,640.33	11,648.39	132.90	134.51	69.96	-9,628.54	-238.62	1,283.72	1,031.18	252.55	5.083	
21,200.00	12,088.98	20,740.33	11,648.91	134.26	135.88	69.95	-9,728.53	-237.71	1,283.79	1,028.68	255.10	5.032	
21,300.00	12,089.69	20,840.33	11,649.44	135.61	137.24	69.94	-9,828.53	-236.80	1,283.85	1,026.19	257.66	4.983	
21,400.00	12,090.40	20,940.33	11,649.96	136.97	138.60	69.94	-9,928.52	-235.89	1,283.91	1,023.69	260.22	4.934	
21,500.00	12,091.11	21,040.33	11,650.49	138.32	139.96	69.93	-10,028.51	-234.99	1,283.97	1,021.19	262.78	4.886	
21,600.00	12,091.82	21,140.33	11,651.01	139.68	141.33	69.92	-10,128.51	-234.08	1,284.04	1,018.70	265.34	4.839	
21,700.00	12,092.53	21,240.33	11,651.54	141.04	142.69	69.91	-10,228.50	-233.17	1,284.10	1,016.20	267.90	4.793	
21,800.00	12,093.24	21,340.33	11,652.06	142.39	144.05	69.91	-10,328.50	-232.26	1,284.16	1,013.70	270.46	4.748	
21,900.00	12,093.95	21,440.33	11,652.59	143.75	145.41	69.90	-10,428.49	-231.35	1,284.23	1,011.21	273.02	4.704	
22,000.00	12,094.66	21,540.33	11,653.11	145.11	146.78	69.89	-10,528.49	-230.44	1,284.29	1,008.71	275.58	4.660	
22,100.00	12,095.37	21,640.33	11,653.64	146.46	148.14	69.88	-10,628.48	-229.53	1,284.35	1,006.21	278.14	4.618	
22,200.00	12,096.08	21,740.33	11,654.16	147.82	149.50	69.88	-10,728.47	-228.62	1,284.41	1,003.72	280.70	4.576	
22,300.00	12,096.78	21,840.33	11,654.69	149.18	150.87	69.87	-10,828.47	-227.71	1,284.48	1,001.22	283.26	4.535	
22,301.14	12,096.79	21,841.46	11,654.69	149.19	150.88	69.87	-10,829.61	-227.70	1,284.48	1,001.19	283.29	4.534	
22,386.82	12,097.40	21,918.86	11,655.10	150.36	151.94	69.86	-10,907.00	-227.00	1,284.56	999.23	285.33	4.502	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 158H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.50	0.50	180.00	-25.00	0.00	25.00				
100.00	100.00	100.00	100.00	0.98	0.98	180.00	-25.00	0.00	25.00	23.04	1.96	12.741	
200.00	200.00	200.00	200.00	1.56	1.56	180.00	-25.00	0.00	25.00	21.88	3.12	8.007	
300.00	300.00	300.00	300.00	1.98	1.98	180.00	-25.00	0.00	25.00	21.04	3.96	6.309	CC, ES
400.00	400.00	399.56	399.55	2.33	2.41	177.80	-25.83	0.99	25.86	21.17	4.69	5.515	
500.00	500.00	498.98	498.89	2.63	2.77	172.02	-28.33	3.97	28.63	23.30	5.33	5.369	
600.00	600.00	598.14	597.83	2.91	3.09	164.66	-32.48	8.91	33.74	27.81	5.93	5.690	
700.00	700.00	696.92	696.21	3.02	3.40	27.75	-38.24	15.78	41.26	34.91	6.35	6.498	
800.00	799.96	795.45	794.06	3.31	3.68	22.87	-45.63	24.58	49.45	42.54	6.91	7.152	
900.00	899.82	894.62	892.29	3.59	3.82	19.54	-54.38	35.01	57.41	50.09	7.32	7.841	
1,000.00	999.51	994.43	991.13	3.76	4.04	17.65	-63.31	45.65	63.23	55.51	7.72	8.190	
1,100.00	1,099.13	1,094.29	1,090.02	3.96	4.27	16.32	-72.24	56.30	68.24	60.08	8.16	8.361	
1,200.00	1,198.75	1,194.15	1,188.91	4.17	4.50	15.17	-81.17	66.94	73.28	64.67	8.61	8.514	
1,300.00	1,298.37	1,293.30	1,287.00	4.37	4.71	13.50	-89.81	78.50	78.74	69.72	9.02	8.728	
1,400.00	1,397.99	1,392.09	1,384.46	4.57	4.93	10.49	-97.83	92.46	85.38	75.93	9.45	9.036	
1,500.00	1,497.50	1,490.59	1,481.31	4.79	5.15	12.97	-105.23	108.85	92.47	82.58	9.89	9.349	
1,600.00	1,596.74	1,588.91	1,577.57	5.02	5.38	13.44	-112.03	127.62	99.02	88.68	10.34	9.577	
1,700.00	1,695.65	1,688.23	1,674.50	5.25	5.56	12.94	-118.46	148.34	104.67	93.92	10.75	9.734	
1,800.00	1,794.15	1,788.07	1,771.91	5.48	5.77	12.57	-124.91	169.25	108.29	97.09	11.20	9.667	
1,900.00	1,892.17	1,888.01	1,869.42	5.71	6.01	12.42	-131.36	190.17	109.67	98.01	11.66	9.409	
2,000.00	1,989.70	1,987.98	1,966.96	5.85	6.27	12.00	-137.82	211.10	108.92	96.90	12.02	9.063	
2,100.00	2,087.14	2,087.95	2,064.51	6.05	6.55	10.93	-144.28	232.03	107.79	95.34	12.44	8.662	
2,200.00	2,184.58	2,187.92	2,162.05	6.25	6.83	9.84	-150.73	252.97	106.70	93.83	12.87	8.289	
2,300.00	2,282.02	2,287.90	2,259.59	6.45	7.12	8.73	-157.19	273.90	105.65	92.35	13.30	7.942	
2,400.00	2,379.46	2,387.87	2,357.14	6.66	7.40	7.60	-163.64	294.83	104.64	90.91	13.73	7.620	
2,500.00	2,476.89	2,487.84	2,454.68	6.90	7.69	6.45	-170.10	315.76	103.67	89.51	14.16	7.320	
2,600.00	2,574.33	2,587.82	2,552.23	7.17	7.98	5.27	-176.56	336.69	102.75	88.15	14.59	7.040	
2,700.00	2,671.77	2,687.79	2,649.77	7.45	8.27	4.08	-183.01	357.62	101.87	86.84	15.03	6.779	
2,800.00	2,769.21	2,787.76	2,747.31	7.73	8.56	2.86	-189.47	378.55	101.03	85.57	15.46	6.535	
2,900.00	2,866.65	2,887.74	2,844.86	8.01	8.85	1.62	-195.92	399.48	100.24	84.35	15.90	6.307	
3,000.00	2,964.08	2,987.71	2,942.40	8.29	9.15	0.37	-202.38	420.42	99.50	83.17	16.33	6.093	
3,100.00	3,061.52	3,087.68	3,039.95	8.58	9.44	-0.91	-208.84	441.35	98.81	82.04	16.77	5.892	
3,200.00	3,158.96	3,187.66	3,137.49	8.87	9.74	-2.20	-215.29	462.28	98.16	80.95	17.21	5.703	
3,300.00	3,256.40	3,287.63	3,235.04	9.16	10.03	-3.50	-221.75	483.21	97.57	79.92	17.66	5.526	
3,400.00	3,353.84	3,387.60	3,332.58	9.46	10.33	-4.83	-228.20	504.14	97.03	78.93	18.10	5.360	
3,500.00	3,451.27	3,487.58	3,430.12	9.75	10.63	-6.16	-234.66	525.07	96.54	77.98	18.56	5.203	
3,600.00	3,548.71	3,587.55	3,527.67	10.05	10.93	-7.51	-241.12	546.00	96.10	77.09	19.01	5.055	
3,700.00	3,646.15	3,687.52	3,625.21	10.34	11.22	-8.87	-247.57	566.93	95.72	76.25	19.48	4.915	
3,800.00	3,743.59	3,787.50	3,722.76	10.64	11.52	-10.24	-254.03	587.87	95.39	75.45	19.94	4.783	
3,900.00	3,841.03	3,887.47	3,820.30	10.94	11.82	-11.62	-260.48	608.80	95.12	74.70	20.42	4.659	
4,000.00	3,938.47	3,987.44	3,917.84	11.24	12.12	-13.01	-266.94	629.73	94.90	74.00	20.90	4.541	
4,100.00	4,035.90	4,087.42	4,015.39	11.54	12.42	-14.40	-273.40	650.66	94.74	73.35	21.39	4.430	
4,200.00	4,133.34	4,187.39	4,112.93	11.84	12.72	-15.80	-279.85	671.59	94.63	72.75	21.88	4.325	
4,300.00	4,230.78	4,287.36	4,210.48	12.14	13.02	-17.20	-286.31	692.52	94.58	72.20	22.39	4.225	
4,337.44	4,267.26	4,324.79	4,246.99	12.26	13.13	-17.72	-288.73	700.36	94.58	72.00	22.58	4.189	
4,400.00	4,328.22	4,387.34	4,308.02	12.45	13.32	-18.60	-292.76	713.45	94.59	71.69	22.90	4.131	
4,500.00	4,425.66	4,487.31	4,405.57	12.75	13.62	-19.99	-299.22	734.38	94.66	71.23	23.42	4.041	
4,600.00	4,523.09	4,587.28	4,503.11	13.05	13.93	-21.39	-305.68	755.32	94.78	70.82	23.95	3.957	
4,700.00	4,620.53	4,687.26	4,600.65	13.36	14.23	-22.78	-312.13	776.25	94.95	70.46	24.49	3.877	
4,800.00	4,717.97	4,787.23	4,698.20	13.66	14.53	-24.17	-318.59	797.18	95.18	70.14	25.04	3.801	
4,900.00	4,815.41	4,887.20	4,795.74	13.97	14.83	-25.54	-325.05	818.11	95.47	69.87	25.60	3.730	
5,000.00	4,912.85	4,987.18	4,893.29	14.27	15.13	-26.91	-331.50	839.04	95.81	69.65	26.16	3.662	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 158H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,010.28	5,087.15	4,990.83	14.58	15.44	-28.27	-337.96	859.97	96.21	69.47	26.74	3.598	
5,200.00	5,107.72	5,187.12	5,088.37	14.89	15.74	-29.62	-344.41	880.90	96.66	69.33	27.33	3.537	
5,300.00	5,205.30	5,287.10	5,185.92	15.16	16.04	-30.77	-350.87	901.83	97.70	69.82	27.88	3.504	SF
5,400.00	5,303.38	5,387.04	5,283.43	15.44	16.34	-31.17	-357.32	922.76	100.90	72.50	28.40	3.553	
5,500.00	5,401.95	5,486.89	5,380.85	15.69	16.65	-30.82	-363.77	943.66	106.34	77.49	28.84	3.687	
5,600.00	5,500.92	5,587.00	5,478.54	15.91	16.93	-29.86	-370.23	964.59	114.02	84.80	29.21	3.903	
5,700.00	5,600.23	5,689.53	5,578.95	16.10	17.22	-28.73	-376.33	984.38	122.43	92.85	29.58	4.139	
5,800.00	5,699.82	5,792.30	5,680.13	16.26	17.48	-27.65	-381.65	1,001.62	130.71	100.79	29.92	4.369	
5,900.00	5,799.60	5,895.32	5,782.00	16.39	17.72	-26.61	-386.17	1,016.28	138.86	108.64	30.23	4.594	
6,000.00	5,899.53	5,998.59	5,884.49	16.50	17.92	-25.60	-389.89	1,028.34	146.88	116.38	30.50	4.816	
6,100.00	5,999.52	6,102.11	5,987.53	16.57	18.09	88.29	-392.80	1,037.77	154.75	124.08	30.67	5.046	
6,200.00	6,099.52	6,205.95	6,091.13	16.62	18.23	89.11	-394.89	1,044.54	161.23	130.44	30.79	5.236	
6,300.00	6,199.52	6,310.11	6,195.20	16.66	18.34	89.57	-396.15	1,048.63	165.14	134.23	30.91	5.343	
6,400.00	6,299.52	6,414.42	6,299.49	16.70	18.42	89.72	-396.57	1,050.00	166.45	135.46	30.99	5.370	
6,500.00	6,399.52	6,514.44	6,399.52	16.74	18.45	89.72	-396.57	1,050.00	166.45	135.39	31.07	5.358	
6,600.00	6,499.52	6,614.44	6,499.52	16.79	18.49	89.72	-396.57	1,050.00	166.45	135.31	31.15	5.344	
6,700.00	6,599.52	6,714.44	6,599.52	16.83	18.53	89.72	-396.57	1,050.00	166.45	135.23	31.23	5.330	
6,800.00	6,699.52	6,814.44	6,699.52	16.88	18.57	89.72	-396.57	1,050.00	166.45	135.14	31.31	5.317	
6,900.00	6,799.52	6,914.44	6,799.52	16.92	18.61	89.72	-396.57	1,050.00	166.45	135.06	31.39	5.303	
7,000.00	6,899.52	7,014.44	6,899.52	16.96	18.65	89.72	-396.57	1,050.00	166.45	134.98	31.47	5.289	
7,100.00	6,999.52	7,114.44	6,999.52	17.01	18.69	89.72	-396.57	1,050.00	166.45	134.89	31.56	5.275	
7,200.00	7,099.52	7,214.44	7,099.52	17.05	18.73	89.72	-396.57	1,050.00	166.45	134.81	31.64	5.261	
7,300.00	7,199.52	7,314.44	7,199.52	17.10	18.77	89.72	-396.57	1,050.00	166.45	134.73	31.73	5.247	
7,400.00	7,299.52	7,414.44	7,299.52	17.15	18.81	89.72	-396.57	1,050.00	166.45	134.64	31.81	5.232	
7,500.00	7,399.52	7,514.44	7,399.52	17.19	18.85	89.72	-396.57	1,050.00	166.45	134.55	31.90	5.218	
7,600.00	7,499.52	7,614.44	7,499.52	17.24	18.89	89.72	-396.57	1,050.00	166.45	134.47	31.98	5.204	
7,700.00	7,599.52	7,714.44	7,599.52	17.28	18.93	89.72	-396.57	1,050.00	166.45	134.38	32.07	5.190	
7,800.00	7,699.52	7,814.44	7,699.52	17.33	18.98	89.72	-396.57	1,050.00	166.45	134.29	32.16	5.176	
7,900.00	7,799.52	7,914.44	7,799.52	17.38	19.02	89.72	-396.57	1,050.00	166.45	134.20	32.25	5.162	
8,000.00	7,899.52	8,014.44	7,899.52	17.43	19.06	89.72	-396.57	1,050.00	166.45	134.12	32.34	5.147	
8,100.00	7,999.52	8,114.44	7,999.52	17.47	19.10	89.72	-396.57	1,050.00	166.45	134.03	32.43	5.133	
8,200.00	8,099.52	8,214.44	8,099.52	17.52	19.15	89.72	-396.57	1,050.00	166.45	133.94	32.52	5.119	
8,300.00	8,199.52	8,314.44	8,199.52	17.57	19.19	89.72	-396.57	1,050.00	166.45	133.84	32.61	5.105	
8,400.00	8,299.52	8,414.44	8,299.52	17.62	19.23	89.72	-396.57	1,050.00	166.45	133.75	32.70	5.091	
8,500.00	8,399.52	8,514.44	8,399.52	17.67	19.28	89.72	-396.57	1,050.00	166.45	133.66	32.79	5.076	
8,600.00	8,499.52	8,614.44	8,499.52	17.71	19.32	89.72	-396.57	1,050.00	166.45	133.57	32.88	5.062	
8,700.00	8,599.52	8,714.44	8,599.52	17.76	19.37	89.72	-396.57	1,050.00	166.45	133.48	32.98	5.048	
8,800.00	8,699.52	8,814.44	8,699.52	17.81	19.41	89.72	-396.57	1,050.00	166.45	133.38	33.07	5.034	
8,900.00	8,799.52	8,914.44	8,799.52	17.86	19.46	89.72	-396.57	1,050.00	166.45	133.29	33.16	5.019	
9,000.00	8,899.52	9,014.44	8,899.52	17.91	19.50	89.72	-396.57	1,050.00	166.45	133.19	33.26	5.005	
9,100.00	8,999.52	9,114.44	8,999.52	17.96	19.55	89.72	-396.57	1,050.00	166.45	133.10	33.35	4.991	
9,200.00	9,099.52	9,214.44	9,099.52	18.01	19.59	89.72	-396.57	1,050.00	166.45	133.00	33.45	4.976	
9,300.00	9,199.52	9,314.44	9,199.52	18.06	19.64	89.72	-396.57	1,050.00	166.45	132.91	33.54	4.962	
9,400.00	9,299.52	9,414.44	9,299.52	18.11	19.68	89.72	-396.57	1,050.00	166.45	132.81	33.64	4.948	
9,500.00	9,399.52	9,514.44	9,399.52	18.16	19.73	89.72	-396.57	1,050.00	166.45	132.71	33.74	4.934	
9,600.00	9,499.52	9,614.44	9,499.52	18.22	19.78	89.72	-396.57	1,050.00	166.45	132.62	33.84	4.919	
9,700.00	9,599.52	9,714.44	9,599.52	18.27	19.82	89.72	-396.57	1,050.00	166.45	132.52	33.93	4.905	
9,800.00	9,699.52	9,814.44	9,699.52	18.32	19.87	89.72	-396.57	1,050.00	166.45	132.42	34.03	4.891	
9,900.00	9,799.52	9,914.44	9,799.52	18.37	19.92	89.72	-396.57	1,050.00	166.45	132.32	34.13	4.877	
10,000.00	9,899.52	10,014.44	9,899.52	18.42	19.97	89.72	-396.57	1,050.00	166.45	132.22	34.23	4.863	
10,100.00	9,999.52	10,114.44	9,999.52	18.47	20.01	89.72	-396.57	1,050.00	166.45	132.12	34.33	4.848	
10,200.00	10,099.52	10,214.44	10,099.52	18.53	20.06	89.72	-396.57	1,050.00	166.45	132.02	34.43	4.834	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 158H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,199.52	10,314.44	10,199.52	18.58	20.11	89.72	-396.57	1,050.00	166.45	131.92	34.53	4.820	
10,400.00	10,299.52	10,414.44	10,299.52	18.63	20.16	89.72	-396.57	1,050.00	166.45	131.82	34.63	4.806	
10,500.00	10,399.52	10,514.44	10,399.52	18.69	20.21	89.72	-396.57	1,050.00	166.45	131.72	34.74	4.792	
10,600.00	10,499.52	10,614.44	10,499.52	18.74	20.26	89.72	-396.57	1,050.00	166.45	131.61	34.84	4.778	
10,700.00	10,599.52	10,714.44	10,599.52	18.79	20.31	89.72	-396.57	1,050.00	166.45	131.51	34.94	4.764	
10,800.00	10,699.52	10,814.44	10,699.52	18.85	20.35	89.72	-396.57	1,050.00	166.45	131.41	35.05	4.750	
10,900.00	10,799.52	10,914.44	10,799.52	18.90	20.40	89.72	-396.57	1,050.00	166.45	131.30	35.15	4.736	
11,000.00	10,899.52	11,014.44	10,899.52	18.95	20.45	89.72	-396.57	1,050.00	166.45	131.20	35.25	4.722	
11,100.00	10,999.52	11,114.52	10,999.59	19.01	20.50	89.72	-396.58	1,050.00	166.45	131.10	35.35	4.708	
11,200.00	11,099.52	11,215.48	11,099.97	19.06	20.61	92.99	-406.06	1,049.36	166.04	130.79	35.25	4.711	
11,213.10	11,112.62	11,228.36	11,112.62	19.07	20.63	93.85	-408.54	1,049.19	166.02	130.80	35.22	4.714	
11,300.00	11,199.52	11,310.33	11,191.40	19.12	20.76	101.52	-430.84	1,047.69	167.71	132.66	35.06	4.784	
11,400.00	11,299.52	11,395.09	11,268.65	19.17	20.94	112.81	-465.45	1,045.36	178.24	142.80	35.44	5.030	
11,500.00	11,399.52	11,468.21	11,330.58	19.23	21.12	123.85	-504.16	1,042.76	203.72	166.76	36.95	5.513	
11,600.00	11,499.47	11,530.92	11,379.38	19.29	21.29	-45.10	-543.40	1,040.12	244.39	205.25	39.13	6.245	
11,700.00	11,597.96	11,590.59	11,421.57	19.45	21.49	-35.91	-585.47	1,037.29	288.96	247.69	41.26	7.003	
11,800.00	11,692.07	11,650.00	11,458.99	19.66	21.71	-29.37	-631.47	1,034.19	331.82	288.68	43.14	7.691	
11,900.00	11,778.95	11,700.00	11,486.64	19.93	21.92	-25.07	-673.01	1,031.40	370.82	325.78	45.03	8.234	
12,000.00	11,855.96	11,763.24	11,516.25	20.27	22.22	-21.51	-728.73	1,027.65	404.38	357.96	46.42	8.711	
12,100.00	11,920.75	11,819.49	11,537.27	20.70	22.52	-19.10	-780.77	1,024.14	431.95	384.15	47.80	9.036	
12,200.00	11,971.37	11,875.38	11,553.00	21.23	22.85	-17.36	-834.25	1,020.55	452.90	403.88	49.02	9.239	
12,300.00	12,006.26	11,931.00	11,563.39	21.86	23.21	-16.11	-888.75	1,016.88	466.85	416.77	50.08	9.323	
12,400.00	12,024.37	11,986.47	11,568.44	22.58	23.59	-15.27	-943.84	1,013.17	473.56	422.59	50.97	9.292	
12,500.00	12,027.30	12,066.59	11,569.26	23.37	24.18	-14.58	-1,023.81	1,008.39	473.37	421.88	51.49	9.194	
12,600.00	12,028.00	12,162.59	11,569.76	24.23	24.97	-14.13	-1,119.76	1,005.52	472.58	420.73	51.85	9.115	
12,644.51	12,028.32	12,205.37	11,569.99	24.63	25.34	-14.06	-1,162.54	1,005.27	472.49	420.48	52.01	9.085	
12,700.00	12,028.71	12,260.03	11,570.27	25.13	25.82	-14.04	-1,217.19	1,005.69	472.57	420.37	52.20	9.052	
12,800.00	12,029.42	12,360.03	11,570.80	26.08	26.74	-14.04	-1,317.19	1,006.59	472.75	420.19	52.56	8.994	
12,900.00	12,030.13	12,460.03	11,571.32	27.06	27.70	-14.03	-1,417.18	1,007.49	472.93	419.99	52.94	8.933	
13,000.00	12,030.84	12,560.03	11,571.85	28.07	28.69	-14.03	-1,517.18	1,008.39	473.10	419.76	53.34	8.869	
13,100.00	12,031.55	12,660.03	11,572.37	29.10	29.70	-14.02	-1,617.17	1,009.29	473.28	419.52	53.76	8.804	
13,200.00	12,032.26	12,760.03	11,572.90	30.17	30.75	-14.01	-1,717.17	1,010.19	473.46	419.26	54.20	8.736	
13,300.00	12,032.97	12,860.03	11,573.42	31.25	31.81	-14.01	-1,817.16	1,011.10	473.64	418.98	54.65	8.666	
13,400.00	12,033.68	12,960.03	11,573.95	32.36	32.89	-14.00	-1,917.16	1,012.00	473.81	418.68	55.13	8.595	
13,500.00	12,034.39	13,060.03	11,574.47	33.49	34.00	-13.99	-2,017.15	1,012.90	473.99	418.37	55.62	8.522	
13,600.00	12,035.10	13,160.03	11,575.00	34.63	35.12	-13.99	-2,117.14	1,013.80	474.17	418.04	56.13	8.448	
13,700.00	12,035.80	13,260.03	11,575.52	35.78	36.25	-13.98	-2,217.14	1,014.70	474.34	417.69	56.66	8.372	
13,800.00	12,036.51	13,360.03	11,576.05	36.95	37.41	-13.98	-2,317.13	1,015.60	474.52	417.32	57.20	8.296	
13,900.00	12,037.22	13,460.03	11,576.57	38.14	38.57	-13.97	-2,417.13	1,016.50	474.70	416.94	57.76	8.219	
14,000.00	12,037.93	13,560.03	11,577.09	39.33	39.75	-13.96	-2,517.12	1,017.41	474.88	416.55	58.33	8.141	
14,100.00	12,038.64	13,660.03	11,577.62	40.54	40.93	-13.96	-2,617.12	1,018.31	475.05	416.14	58.92	8.063	
14,200.00	12,039.35	13,760.03	11,578.14	41.75	42.13	-13.95	-2,717.11	1,019.21	475.23	415.71	59.52	7.984	
14,300.00	12,040.06	13,860.03	11,578.67	42.97	43.34	-13.95	-2,817.10	1,020.11	475.41	415.27	60.14	7.906	
14,400.00	12,040.77	13,960.03	11,579.19	44.20	44.55	-13.94	-2,917.10	1,021.01	475.58	414.82	60.76	7.827	
14,500.00	12,041.48	14,060.03	11,579.72	45.44	45.78	-13.93	-3,017.09	1,021.91	475.76	414.35	61.41	7.748	
14,600.00	12,042.19	14,160.03	11,580.24	46.69	47.01	-13.93	-3,117.09	1,022.81	475.94	413.88	62.06	7.669	
14,700.00	12,042.89	14,260.03	11,580.77	47.94	48.25	-13.92	-3,217.08	1,023.72	476.12	413.39	62.73	7.590	
14,800.00	12,043.60	14,360.03	11,581.29	49.20	49.49	-13.91	-3,317.08	1,024.62	476.29	412.89	63.41	7.512	
14,900.00	12,044.31	14,460.03	11,581.82	50.46	50.74	-13.91	-3,417.07	1,025.52	476.47	412.37	64.10	7.433	
15,000.00	12,045.02	14,560.03	11,582.34	51.73	52.00	-13.90	-3,517.07	1,026.42	476.65	411.85	64.80	7.356	
15,100.00	12,045.73	14,660.02	11,582.87	53.01	53.26	-13.90	-3,617.06	1,027.32	476.82	411.31	65.51	7.279	
15,200.00	12,046.44	14,760.02	11,583.39	54.28	54.53	-13.89	-3,717.05	1,028.22	477.00	410.77	66.23	7.202	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 158H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,300.00	12,047.15	14,860.02	11,583.92	55.57	55.80	-13.88	-3,817.05	1,029.13	477.18	410.21	66.96	7.126	
15,400.00	12,047.86	14,960.02	11,584.44	56.85	57.08	-13.88	-3,917.04	1,030.03	477.36	409.65	67.71	7.050	
15,500.00	12,048.57	15,060.02	11,584.97	58.14	58.36	-13.87	-4,017.04	1,030.93	477.53	409.08	68.46	6.976	
15,600.00	12,049.28	15,160.02	11,585.49	59.44	59.64	-13.87	-4,117.03	1,031.83	477.71	408.49	69.22	6.902	
15,700.00	12,049.99	15,260.02	11,586.02	60.73	60.93	-13.86	-4,217.03	1,032.73	477.89	407.90	69.99	6.828	
15,800.00	12,050.69	15,360.02	11,586.54	62.03	62.22	-13.85	-4,317.02	1,033.63	478.07	407.30	70.76	6.756	
15,900.00	12,051.40	15,460.02	11,587.07	63.33	63.51	-13.85	-4,417.02	1,034.53	478.24	406.70	71.55	6.684	
16,000.00	12,052.11	15,560.02	11,587.59	64.64	64.81	-13.84	-4,517.01	1,035.44	478.42	406.08	72.34	6.614	
16,100.00	12,052.82	15,660.02	11,588.12	65.95	66.11	-13.83	-4,617.00	1,036.34	478.60	405.46	73.14	6.544	
16,200.00	12,053.53	15,760.02	11,588.64	67.26	67.41	-13.83	-4,717.00	1,037.24	478.77	404.83	73.95	6.475	
16,300.00	12,054.24	15,860.02	11,589.16	68.57	68.71	-13.82	-4,816.99	1,038.14	478.95	404.19	74.76	6.406	
16,400.00	12,054.95	15,960.02	11,589.69	69.88	70.02	-13.82	-4,916.99	1,039.04	479.13	403.55	75.58	6.339	
16,500.00	12,055.66	16,060.02	11,590.21	71.20	71.33	-13.81	-5,016.98	1,039.94	479.31	402.90	76.41	6.273	
16,600.00	12,056.37	16,160.02	11,590.74	72.52	72.64	-13.80	-5,116.98	1,040.85	479.48	402.24	77.24	6.207	
16,700.00	12,057.08	16,260.02	11,591.26	73.84	73.96	-13.80	-5,216.97	1,041.75	479.66	401.58	78.08	6.143	
16,800.00	12,057.79	16,360.02	11,591.79	75.16	75.27	-13.79	-5,316.96	1,042.65	479.84	400.91	78.93	6.079	
16,900.00	12,058.49	16,460.02	11,592.31	76.48	76.59	-13.79	-5,416.96	1,043.55	480.02	400.23	79.78	6.017	
17,000.00	12,059.20	16,560.02	11,592.84	77.81	77.91	-13.78	-5,516.95	1,044.45	480.19	399.55	80.64	5.955	
17,100.00	12,059.91	16,660.02	11,593.36	79.14	79.23	-13.77	-5,616.95	1,045.35	480.37	398.87	81.50	5.894	
17,200.00	12,060.62	16,760.02	11,593.89	80.46	80.55	-13.77	-5,716.94	1,046.25	480.55	398.18	82.37	5.834	
17,300.00	12,061.33	16,860.02	11,594.41	81.79	81.87	-13.76	-5,816.94	1,047.16	480.72	397.48	83.24	5.775	
17,400.00	12,062.04	16,960.02	11,594.94	83.12	83.20	-13.76	-5,916.93	1,048.06	480.90	396.78	84.12	5.717	
17,500.00	12,062.75	17,060.02	11,595.46	84.45	84.52	-13.75	-6,016.93	1,048.96	481.08	396.08	85.00	5.660	
17,600.00	12,063.46	17,160.02	11,595.99	85.79	85.85	-13.74	-6,116.92	1,049.86	481.26	395.37	85.89	5.603	
17,700.00	12,064.17	17,260.02	11,596.51	87.12	87.18	-13.74	-6,216.91	1,050.76	481.43	394.66	86.78	5.548	
17,800.00	12,064.88	17,360.02	11,597.04	88.46	88.51	-13.73	-6,316.91	1,051.66	481.61	393.94	87.67	5.493	
17,900.00	12,065.59	17,460.02	11,597.56	89.79	89.84	-13.73	-6,416.90	1,052.56	481.79	393.22	88.57	5.439	
18,000.00	12,066.29	17,560.02	11,598.09	91.13	91.18	-13.72	-6,516.90	1,053.47	481.97	392.49	89.48	5.387	
18,100.00	12,067.00	17,660.02	11,598.61	92.47	92.51	-13.71	-6,616.89	1,054.37	482.14	391.76	90.38	5.334	
18,200.00	12,067.71	17,760.02	11,599.14	93.81	93.84	-13.71	-6,716.89	1,055.27	482.32	391.03	91.29	5.283	
18,300.00	12,068.42	17,860.02	11,599.66	95.15	95.18	-13.70	-6,816.88	1,056.17	482.50	390.29	92.21	5.233	
18,400.00	12,069.13	17,960.02	11,600.19	96.49	96.52	-13.70	-6,916.87	1,057.07	482.67	389.55	93.12	5.183	
18,500.00	12,069.84	18,060.02	11,600.71	97.83	97.85	-13.69	-7,016.87	1,057.97	482.85	388.81	94.05	5.134	
18,600.00	12,070.55	18,160.02	11,601.24	99.17	99.19	-13.68	-7,116.86	1,058.88	483.03	388.06	94.97	5.086	
18,700.00	12,071.26	18,260.02	11,601.76	100.51	100.53	-13.68	-7,216.86	1,059.78	483.21	387.31	95.90	5.039	
18,800.00	12,071.97	18,360.02	11,602.28	101.86	101.87	-13.67	-7,316.85	1,060.68	483.38	386.56	96.83	4.992	
18,900.00	12,072.68	18,460.02	11,602.81	103.20	103.21	-13.67	-7,416.85	1,061.58	483.56	385.80	97.76	4.946	
19,000.00	12,073.39	18,560.02	11,603.33	104.55	104.55	-13.66	-7,516.84	1,062.48	483.74	385.04	98.70	4.901	
19,100.00	12,074.09	18,660.02	11,603.86	105.89	105.89	-13.65	-7,616.84	1,063.38	483.92	384.28	99.64	4.857	
19,200.00	12,074.80	18,760.02	11,604.38	107.24	107.24	-13.65	-7,716.83	1,064.28	484.09	383.52	100.58	4.813	
19,300.00	12,075.51	18,860.02	11,604.91	108.58	108.58	-13.64	-7,816.82	1,065.19	484.27	382.75	101.52	4.770	
19,400.00	12,076.22	18,960.02	11,605.43	109.93	109.92	-13.64	-7,916.82	1,066.09	484.45	381.98	102.47	4.728	
19,500.00	12,076.93	19,060.02	11,605.96	111.28	111.27	-13.63	-8,016.81	1,066.99	484.63	381.21	103.42	4.686	
19,600.00	12,077.64	19,160.02	11,606.48	112.63	112.61	-13.62	-8,116.81	1,067.89	484.80	380.43	104.37	4.645	
19,700.00	12,078.35	19,260.02	11,607.01	113.98	113.96	-13.62	-8,216.80	1,068.79	484.98	379.66	105.32	4.605	
19,800.00	12,079.06	19,360.02	11,607.53	115.33	115.31	-13.61	-8,316.80	1,069.69	485.16	378.88	106.28	4.565	
19,900.00	12,079.77	19,460.02	11,608.06	116.68	116.65	-13.61	-8,416.79	1,070.59	485.34	378.10	107.24	4.526	
20,000.00	12,080.48	19,560.02	11,608.58	118.03	118.00	-13.60	-8,516.79	1,071.50	485.51	377.32	108.20	4.487	
20,100.00	12,081.18	19,660.02	11,609.11	119.38	119.35	-13.59	-8,616.78	1,072.40	485.69	376.53	109.16	4.449	
20,200.00	12,081.89	19,760.02	11,609.63	120.73	120.70	-13.59	-8,716.77	1,073.30	485.87	375.75	110.12	4.412	
20,300.00	12,082.60	19,860.02	11,610.16	122.08	122.04	-13.58	-8,816.77	1,074.20	486.05	374.96	111.09	4.375	
20,400.00	12,083.31	19,960.02	11,610.68	123.43	123.39	-13.58	-8,916.76	1,075.10	486.22	374.17	112.06	4.339	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 158H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,500.00	12,084.02	20,060.02	11,611.21	124.78	124.74	-13.57	-9,016.76	1,076.00	486.40	373.37	113.03	4.303	
20,600.00	12,084.73	20,160.02	11,611.73	126.14	126.09	-13.56	-9,116.75	1,076.91	486.58	372.58	114.00	4.268	
20,700.00	12,085.44	20,260.02	11,612.26	127.49	127.44	-13.56	-9,216.75	1,077.81	486.76	371.78	114.97	4.234	
20,800.00	12,086.15	20,360.02	11,612.78	128.84	128.79	-13.55	-9,316.74	1,078.71	486.93	370.99	115.95	4.200	
20,900.00	12,086.86	20,460.02	11,613.31	130.20	130.15	-13.55	-9,416.73	1,079.61	487.11	370.19	116.92	4.166	
21,000.00	12,087.57	20,560.02	11,613.83	131.55	131.50	-13.54	-9,516.73	1,080.51	487.29	369.39	117.90	4.133	
21,100.00	12,088.28	20,660.01	11,614.35	132.90	132.85	-13.54	-9,616.72	1,081.41	487.47	368.59	118.88	4.101	
21,200.00	12,088.98	20,760.01	11,614.88	134.26	134.20	-13.53	-9,716.72	1,082.31	487.64	367.78	119.86	4.068	
21,300.00	12,089.69	20,860.01	11,615.40	135.61	135.55	-13.52	-9,816.71	1,083.22	487.82	366.98	120.84	4.037	
21,400.00	12,090.40	20,960.01	11,615.93	136.97	136.91	-13.52	-9,916.71	1,084.12	488.00	366.17	121.83	4.006	
21,500.00	12,091.11	21,060.01	11,616.45	138.32	138.26	-13.51	-10,016.70	1,085.02	488.18	365.37	122.81	3.975	
21,600.00	12,091.82	21,160.01	11,616.98	139.68	139.61	-13.51	-10,116.70	1,085.92	488.35	364.56	123.80	3.945	
21,700.00	12,092.53	21,260.01	11,617.50	141.04	140.97	-13.50	-10,216.69	1,086.82	488.53	363.75	124.78	3.915	
21,800.00	12,093.24	21,360.01	11,618.03	142.39	142.32	-13.49	-10,316.68	1,087.72	488.71	362.94	125.77	3.886	
21,900.00	12,093.95	21,460.01	11,618.55	143.75	143.68	-13.49	-10,416.68	1,088.62	488.89	362.12	126.76	3.857	
22,000.00	12,094.66	21,560.01	11,619.08	145.11	145.03	-13.48	-10,516.67	1,089.53	489.06	361.31	127.75	3.828	
22,100.00	12,095.37	21,660.01	11,619.60	146.46	146.39	-13.48	-10,616.67	1,090.43	489.24	360.50	128.75	3.800	
22,200.00	12,096.08	21,760.01	11,620.13	147.82	147.74	-13.47	-10,716.66	1,091.33	489.42	359.68	129.74	3.772	
22,300.00	12,096.78	21,860.01	11,620.65	149.18	149.10	-13.46	-10,816.66	1,092.23	489.60	358.86	130.73	3.745	
22,386.82	12,097.40	21,945.36	11,621.10	150.36	150.25	-13.46	-10,902.00	1,093.00	489.75	358.10	131.65	3.720	

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 213H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	0.00	0.50	0.50	8.88	160.00	25.00	161.94				
100.00	100.00	101.00	100.00	0.98	0.99	8.88	160.00	25.00	161.94	159.97	1.97	82.302	
200.00	200.00	201.00	200.00	1.56	1.57	8.88	160.00	25.00	161.94	158.81	3.13	51.798	
300.00	300.00	301.00	300.00	1.98	1.98	8.88	160.00	25.00	161.94	157.98	3.97	40.835	
400.00	400.00	401.00	400.00	2.33	2.33	8.88	160.00	25.00	161.94	157.28	4.66	34.737	
500.00	500.00	501.04	500.04	2.63	2.64	8.88	160.00	25.00	161.94	156.67	5.27	30.715	
600.00	600.00	605.36	604.34	2.91	2.98	8.78	158.63	24.50	160.57	154.68	5.89	27.263	
700.00	700.00	709.52	708.41	3.02	3.29	-121.66	154.60	23.04	156.71	150.41	6.30	24.879	
800.00	799.96	813.41	812.05	3.31	3.55	-123.15	147.92	20.60	151.42	144.63	6.79	22.290	
900.00	899.82	913.81	912.08	3.59	3.68	-125.72	139.75	17.63	145.97	138.81	7.15	20.403	
1,000.00	999.51	1,013.36	1,011.25	3.76	3.89	-129.24	131.60	14.66	142.38	134.86	7.52	18.934	
1,100.00	1,099.13	1,112.86	1,110.37	3.96	4.10	-133.15	123.45	11.70	139.97	132.03	7.94	17.633	
1,200.00	1,198.75	1,212.36	1,209.49	4.17	4.29	-137.19	115.30	8.73	138.23	129.90	8.34	16.585	
1,300.00	1,298.37	1,312.02	1,308.75	4.37	4.41	-141.50	107.01	5.31	137.17	128.52	8.65	15.855	
1,373.02	1,371.12	1,384.59	1,380.92	4.51	4.57	-145.29	100.58	1.38	136.88	127.93	8.95	15.292	CC
1,400.00	1,397.99	1,411.30	1,407.47	4.57	4.63	-146.83	98.12	-0.39	136.93	127.86	9.06	15.112	ES
1,500.00	1,497.50	1,509.66	1,505.03	4.79	4.84	-147.47	88.65	-8.48	138.93	129.46	9.47	14.669	
1,600.00	1,596.74	1,606.61	1,600.90	5.02	5.06	-151.44	78.66	-18.83	145.28	135.40	9.89	14.697	
1,700.00	1,695.65	1,701.81	1,694.71	5.25	5.27	-157.07	68.23	-31.28	157.41	147.11	10.30	15.284	
1,800.00	1,794.15	1,794.97	1,786.11	5.48	5.48	-163.06	57.44	-45.65	176.17	165.46	10.71	16.444	
1,900.00	1,892.17	1,885.80	1,874.81	5.71	5.68	-168.59	46.36	-61.74	201.79	190.66	11.13	18.136	
2,000.00	1,989.70	1,974.13	1,960.64	5.85	5.88	-173.84	35.07	-79.34	233.77	222.32	11.45	20.419	
2,100.00	2,087.14	2,062.74	2,046.29	6.05	6.04	-178.82	23.30	-98.71	269.66	257.87	11.80	22.858	
2,200.00	2,184.58	2,153.43	2,133.90	6.25	6.23	177.21	11.17	-118.81	307.31	295.12	12.19	25.202	
2,300.00	2,282.02	2,244.13	2,221.50	6.45	6.46	174.09	-0.95	-138.91	345.99	333.40	12.60	27.470	
2,400.00	2,379.46	2,334.82	2,309.10	6.66	6.71	171.58	-13.08	-159.01	385.40	372.38	13.02	29.605	
2,500.00	2,476.89	2,425.52	2,396.71	6.90	6.97	169.53	-25.20	-179.12	425.32	411.88	13.44	31.646	
2,600.00	2,574.33	2,516.21	2,484.31	7.17	7.25	167.83	-37.33	-199.22	465.64	451.77	13.87	33.582	
2,700.00	2,671.77	2,606.91	2,571.92	7.45	7.52	166.39	-49.45	-219.32	506.24	491.95	14.30	35.414	
2,800.00	2,769.21	2,697.61	2,659.52	7.73	7.81	165.17	-61.58	-239.43	547.08	532.35	14.73	37.145	
2,900.00	2,866.65	2,788.30	2,747.13	8.01	8.09	164.11	-73.70	-259.53	588.10	572.94	15.16	38.782	
3,000.00	2,964.08	2,879.00	2,834.73	8.29	8.39	163.19	-85.83	-279.63	629.26	613.66	15.60	40.328	
3,100.00	3,061.52	2,969.69	2,922.34	8.58	8.68	162.39	-97.96	-299.73	670.55	654.50	16.05	41.791	
3,200.00	3,158.96	3,060.39	3,009.94	8.87	8.97	161.67	-110.08	-319.84	711.93	695.44	16.49	43.174	
3,300.00	3,256.40	3,151.08	3,097.55	9.16	9.27	161.04	-122.21	-339.94	753.39	736.46	16.94	44.484	
3,400.00	3,353.84	3,241.78	3,185.15	9.46	9.57	160.47	-134.33	-360.04	794.92	777.54	17.38	45.725	
3,500.00	3,451.27	3,332.48	3,272.75	9.75	9.87	159.95	-146.46	-380.14	836.52	818.68	17.84	46.902	
3,600.00	3,548.71	3,423.17	3,360.36	10.05	10.18	159.49	-158.58	-400.25	878.16	859.87	18.29	48.018	
3,700.00	3,646.15	3,513.87	3,447.96	10.34	10.48	159.06	-170.71	-420.35	919.85	901.10	18.74	49.079	
3,800.00	3,743.59	3,604.56	3,535.57	10.64	10.79	158.68	-182.83	-440.45	961.57	942.37	19.20	50.087	
3,900.00	3,841.03	3,695.26	3,623.17	10.94	11.10	158.32	-194.96	-460.55	1,003.33	983.67	19.66	51.046	
4,000.00	3,938.47	3,785.95	3,710.78	11.24	11.41	158.00	-207.08	-480.66	1,045.11	1,025.00	20.11	51.959	
4,100.00	4,035.90	3,876.65	3,798.38	11.54	11.72	157.70	-219.21	-500.76	1,086.93	1,066.35	20.57	52.829	
4,200.00	4,133.34	3,967.34	3,885.99	11.84	12.03	157.42	-231.34	-520.86	1,128.76	1,107.73	21.04	53.660	
4,300.00	4,230.78	4,058.04	3,973.59	12.14	12.34	157.16	-243.46	-540.97	1,170.62	1,149.12	21.50	54.452	
4,400.00	4,328.22	4,148.74	4,061.19	12.45	12.66	156.92	-255.59	-561.07	1,212.49	1,190.53	21.96	55.209	
4,500.00	4,425.66	4,239.43	4,148.80	12.75	12.97	156.69	-267.71	-581.17	1,254.38	1,231.96	22.43	55.932	
4,600.00	4,523.09	4,330.13	4,236.40	13.05	13.29	156.48	-279.84	-601.27	1,296.29	1,273.40	22.89	56.625	
4,700.00	4,620.53	4,420.82	4,324.01	13.36	13.60	156.28	-291.96	-621.38	1,338.21	1,314.85	23.36	57.287	
4,800.00	4,717.97	4,511.52	4,411.61	13.66	13.92	156.10	-304.09	-641.48	1,380.14	1,356.32	23.83	57.922	
4,900.00	4,815.41	4,602.21	4,499.22	13.97	14.23	155.92	-316.21	-661.58	1,422.09	1,397.79	24.30	58.531	
5,000.00	4,912.85	4,692.91	4,586.82	14.27	14.55	155.76	-328.34	-681.68	1,464.04	1,439.27	24.77	59.115	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 213H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,010.28	4,783.60	4,674.43	14.58	14.87	155.60	-340.46	-701.79	1,506.00	1,480.77	25.23	59.679	
5,200.00	5,107.72	4,915.32	4,802.10	14.89	15.31	155.43	-357.17	-729.49	1,546.96	1,521.05	25.92	59.689	
5,300.00	5,205.30	5,058.71	4,942.26	15.16	15.73	155.51	-372.78	-755.36	1,584.51	1,557.91	26.59	59.583	
5,400.00	5,303.38	5,206.96	5,088.26	15.44	16.12	155.68	-386.05	-777.36	1,616.84	1,589.57	27.27	59.299	
5,500.00	5,401.95	5,359.50	5,239.41	15.69	16.44	155.86	-396.63	-794.91	1,643.65	1,615.76	27.89	58.939	
5,600.00	5,500.92	5,515.59	5,394.79	15.91	16.71	156.05	-404.23	-807.50	1,664.75	1,636.30	28.45	58.505	
5,700.00	5,600.23	5,674.36	5,553.33	16.10	16.90	156.26	-408.59	-814.73	1,680.01	1,651.06	28.95	58.041	
5,800.00	5,699.82	5,820.87	5,699.82	16.26	17.00	156.46	-409.62	-816.44	1,689.41	1,660.13	29.27	57.712	
5,900.00	5,799.60	5,920.66	5,799.60	16.39	17.04	156.58	-409.62	-816.44	1,695.35	1,665.86	29.49	57.492	
6,000.00	5,899.53	6,020.58	5,899.53	16.50	17.07	156.66	-409.62	-816.44	1,698.89	1,669.21	29.69	57.228	
6,100.00	5,999.52	6,120.57	5,999.52	16.57	17.11	-90.41	-409.62	-816.44	1,700.03	1,670.23	29.81	57.031	
6,200.00	6,099.52	6,220.57	6,099.52	16.62	17.14	-90.41	-409.62	-816.44	1,700.03	1,670.15	29.89	56.883	
6,300.00	6,199.52	6,320.57	6,199.52	16.66	17.18	-90.41	-409.62	-816.44	1,700.03	1,670.07	29.97	56.734	
6,400.00	6,299.52	6,420.57	6,299.52	16.70	17.22	-90.41	-409.62	-816.44	1,700.03	1,669.99	30.04	56.584	
6,500.00	6,399.52	6,520.57	6,399.52	16.74	17.26	-90.41	-409.62	-816.44	1,700.03	1,669.91	30.12	56.435	
6,600.00	6,499.52	6,620.57	6,499.52	16.79	17.29	-90.41	-409.62	-816.44	1,700.03	1,669.83	30.20	56.284	
6,700.00	6,599.52	6,720.57	6,599.52	16.83	17.33	-90.41	-409.62	-816.44	1,700.03	1,669.75	30.29	56.133	
6,800.00	6,699.52	6,820.57	6,699.52	16.88	17.37	-90.41	-409.62	-816.44	1,700.03	1,669.67	30.37	55.982	
6,900.00	6,799.52	6,920.57	6,799.52	16.92	17.41	-90.41	-409.62	-816.44	1,700.03	1,669.58	30.45	55.831	
7,000.00	6,899.52	7,020.57	6,899.52	16.96	17.45	-90.41	-409.62	-816.44	1,700.03	1,669.50	30.53	55.679	
7,100.00	6,999.52	7,120.57	6,999.52	17.01	17.48	-90.41	-409.62	-816.44	1,700.03	1,669.42	30.62	55.527	
7,200.00	7,099.52	7,220.57	7,099.52	17.05	17.52	-90.41	-409.62	-816.44	1,700.03	1,669.33	30.70	55.374	
7,300.00	7,199.52	7,320.57	7,199.52	17.10	17.56	-90.41	-409.62	-816.44	1,700.03	1,669.25	30.79	55.221	
7,400.00	7,299.52	7,420.57	7,299.52	17.15	17.60	-90.41	-409.62	-816.44	1,700.03	1,669.16	30.87	55.068	
7,500.00	7,399.52	7,520.57	7,399.52	17.19	17.64	-90.41	-409.62	-816.44	1,700.03	1,669.08	30.96	54.915	
7,600.00	7,499.52	7,620.57	7,499.52	17.24	17.68	-90.41	-409.62	-816.44	1,700.03	1,668.99	31.04	54.761	
7,700.00	7,599.52	7,720.57	7,599.52	17.28	17.73	-90.41	-409.62	-816.44	1,700.03	1,668.90	31.13	54.607	
7,800.00	7,699.52	7,820.57	7,699.52	17.33	17.77	-90.41	-409.62	-816.44	1,700.03	1,668.81	31.22	54.453	
7,900.00	7,799.52	7,920.57	7,799.52	17.38	17.81	-90.41	-409.62	-816.44	1,700.03	1,668.73	31.31	54.299	
8,000.00	7,899.52	8,020.57	7,899.52	17.43	17.85	-90.41	-409.62	-816.44	1,700.03	1,668.64	31.40	54.144	
8,100.00	7,999.52	8,120.57	7,999.52	17.47	17.89	-90.41	-409.62	-816.44	1,700.03	1,668.55	31.49	53.990	
8,200.00	8,099.52	8,220.57	8,099.52	17.52	17.93	-90.41	-409.62	-816.44	1,700.03	1,668.46	31.58	53.835	
8,300.00	8,199.52	8,320.57	8,199.52	17.57	17.98	-90.41	-409.62	-816.44	1,700.03	1,668.36	31.67	53.680	
8,400.00	8,299.52	8,420.57	8,299.52	17.62	18.02	-90.41	-409.62	-816.44	1,700.03	1,668.27	31.76	53.526	
8,500.00	8,399.52	8,520.57	8,399.52	17.67	18.06	-90.41	-409.62	-816.44	1,700.03	1,668.18	31.85	53.371	
8,600.00	8,499.52	8,620.57	8,499.52	17.71	18.11	-90.41	-409.62	-816.44	1,700.03	1,668.09	31.95	53.216	
8,700.00	8,599.52	8,720.57	8,599.52	17.76	18.15	-90.41	-409.62	-816.44	1,700.03	1,667.99	32.04	53.061	
8,800.00	8,699.52	8,820.57	8,699.52	17.81	18.19	-90.41	-409.62	-816.44	1,700.03	1,667.90	32.13	52.906	
8,900.00	8,799.52	8,920.57	8,799.52	17.86	18.24	-90.41	-409.62	-816.44	1,700.03	1,667.81	32.23	52.751	
9,000.00	8,899.52	9,020.57	8,899.52	17.91	18.28	-90.41	-409.62	-816.44	1,700.03	1,667.71	32.32	52.596	
9,100.00	8,999.52	9,120.57	8,999.52	17.96	18.33	-90.41	-409.62	-816.44	1,700.03	1,667.62	32.42	52.441	
9,200.00	9,099.52	9,220.57	9,099.52	18.01	18.37	-90.41	-409.62	-816.44	1,700.03	1,667.52	32.51	52.286	
9,300.00	9,199.52	9,320.57	9,199.52	18.06	18.42	-90.41	-409.62	-816.44	1,700.03	1,667.42	32.61	52.131	
9,400.00	9,299.52	9,420.57	9,299.52	18.11	18.46	-90.41	-409.62	-816.44	1,700.03	1,667.33	32.71	51.976	
9,500.00	9,399.52	9,520.57	9,399.52	18.16	18.51	-90.41	-409.62	-816.44	1,700.03	1,667.23	32.81	51.822	
9,600.00	9,499.52	9,620.57	9,499.52	18.22	18.55	-90.41	-409.62	-816.44	1,700.03	1,667.13	32.90	51.667	
9,700.00	9,599.52	9,720.57	9,599.52	18.27	18.60	-90.41	-409.62	-816.44	1,700.03	1,667.03	33.00	51.513	
9,800.00	9,699.52	9,820.57	9,699.52	18.32	18.65	-90.41	-409.62	-816.44	1,700.03	1,666.93	33.10	51.358	
9,900.00	9,799.52	9,920.57	9,799.52	18.37	18.69	-90.41	-409.62	-816.44	1,700.03	1,666.83	33.20	51.204	
10,000.00	9,899.52	10,020.57	9,899.52	18.42	18.74	-90.41	-409.62	-816.44	1,700.03	1,666.73	33.30	51.050	
10,100.00	9,999.52	10,120.57	9,999.52	18.47	18.79	-90.41	-409.62	-816.44	1,700.03	1,666.63	33.40	50.896	
10,200.00	10,099.52	10,220.57	10,099.52	18.53	18.83	-90.41	-409.62	-816.44	1,700.03	1,666.53	33.50	50.742	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 213H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,199.52	10,320.57	10,199.52	18.58	18.88	-90.41	-409.62	-816.44	1,700.03	1,666.43	33.60	50.589	
10,400.00	10,299.52	10,420.57	10,299.52	18.63	18.93	-90.41	-409.62	-816.44	1,700.03	1,666.33	33.71	50.436	
10,500.00	10,399.52	10,520.57	10,399.52	18.69	18.98	-90.41	-409.62	-816.44	1,700.03	1,666.22	33.81	50.283	
10,600.00	10,499.52	10,620.57	10,499.52	18.74	19.03	-90.41	-409.62	-816.44	1,700.03	1,666.12	33.91	50.130	
10,700.00	10,599.52	10,720.57	10,599.52	18.79	19.07	-90.41	-409.62	-816.44	1,700.03	1,666.02	34.02	49.977	
10,800.00	10,699.52	10,820.57	10,699.52	18.85	19.12	-90.41	-409.62	-816.44	1,700.03	1,665.91	34.12	49.825	
10,900.00	10,799.52	10,920.57	10,799.52	18.90	19.17	-90.41	-409.62	-816.44	1,700.03	1,665.81	34.22	49.673	
11,000.00	10,899.52	11,020.57	10,899.52	18.95	19.22	-90.41	-409.62	-816.44	1,700.03	1,665.70	34.33	49.521	
11,100.00	10,999.52	11,120.57	10,999.52	19.01	19.27	-90.41	-409.62	-816.44	1,700.03	1,665.60	34.44	49.369	
11,200.00	11,099.52	11,220.57	11,099.52	19.06	19.32	-90.41	-409.62	-816.44	1,700.03	1,665.49	34.54	49.218	
11,300.00	11,199.52	11,320.57	11,199.52	19.12	19.37	-90.41	-409.62	-816.44	1,700.03	1,665.39	34.65	49.067	
11,400.00	11,299.52	11,420.57	11,299.52	19.17	19.42	-90.41	-409.62	-816.44	1,700.03	1,665.28	34.75	48.916	
11,500.00	11,399.52	11,520.57	11,399.52	19.23	19.47	-90.41	-409.62	-816.44	1,700.03	1,665.17	34.86	48.766	
11,501.25	11,400.76	11,521.82	11,400.76	19.23	19.47	90.11	-409.62	-816.44	1,700.03	1,665.17	34.86	48.764	
11,600.00	11,499.47	11,620.52	11,499.47	19.29	19.52	90.17	-409.62	-816.44	1,700.04	1,665.09	34.95	48.648	
11,700.00	11,597.96	11,719.01	11,597.96	19.45	19.57	90.70	-409.62	-816.44	1,700.17	1,665.10	35.07	48.477	
11,800.00	11,692.07	11,813.13	11,692.07	19.66	19.62	91.69	-409.62	-816.44	1,700.92	1,665.65	35.27	48.220	
11,900.00	11,778.95	11,900.01	11,778.95	19.93	19.66	92.89	-409.62	-816.44	1,703.23	1,667.67	35.55	47.904	
12,000.00	11,855.96	11,977.01	11,855.96	20.27	19.71	94.03	-409.62	-816.44	1,708.30	1,672.39	35.91	47.569	
12,100.00	11,920.75	12,070.19	11,948.98	20.70	19.80	95.45	-413.55	-816.40	1,717.11	1,680.76	36.36	47.229	
12,200.00	11,971.37	12,204.86	12,079.66	21.23	20.06	97.52	-444.79	-816.12	1,728.80	1,691.71	37.09	46.611	
12,300.00	12,006.26	12,400.26	12,248.15	21.86	20.68	100.36	-541.87	-815.25	1,741.70	1,703.09	38.61	45.114	
12,400.00	12,024.37	12,704.75	12,420.98	22.58	22.32	103.51	-788.19	-813.03	1,751.58	1,709.82	41.76	41.944	
12,500.00	12,027.30	12,949.38	12,455.21	23.37	24.29	104.13	-1,028.88	-810.87	1,753.12	1,708.41	44.70	39.217	
12,600.00	12,028.00	13,049.38	12,455.74	24.23	25.21	104.12	-1,128.87	-809.97	1,753.08	1,706.63	46.45	37.741	
12,700.00	12,028.71	13,149.38	12,456.26	25.13	26.17	104.12	-1,228.86	-809.07	1,753.04	1,704.76	48.28	36.309	
12,800.00	12,029.42	13,249.38	12,456.79	26.08	27.17	104.11	-1,328.86	-808.17	1,753.01	1,702.82	50.19	34.929	
12,900.00	12,030.13	13,349.38	12,457.31	27.06	28.20	104.10	-1,428.85	-807.27	1,752.97	1,700.81	52.16	33.607	
13,000.00	12,030.84	13,449.38	12,457.84	28.07	29.26	104.10	-1,528.85	-806.37	1,752.94	1,698.74	54.19	32.346	
13,100.00	12,031.55	13,549.38	12,458.37	29.10	30.34	104.09	-1,628.84	-805.47	1,752.90	1,696.62	56.28	31.147	
13,200.00	12,032.26	13,649.38	12,458.89	30.17	31.45	104.09	-1,728.84	-804.57	1,752.87	1,694.45	58.41	30.008	
13,300.00	12,032.97	13,749.38	12,459.42	31.25	32.57	104.08	-1,828.83	-803.67	1,752.83	1,692.24	60.59	28.930	
13,400.00	12,033.68	13,849.38	12,459.95	32.36	33.71	104.08	-1,928.83	-802.78	1,752.79	1,689.99	62.80	27.910	
13,500.00	12,034.39	13,949.38	12,460.47	33.49	34.87	104.07	-2,028.82	-801.88	1,752.76	1,687.71	65.05	26.945	
13,600.00	12,035.10	14,049.38	12,461.00	34.63	36.04	104.06	-2,128.81	-800.98	1,752.72	1,685.39	67.33	26.032	
13,700.00	12,035.80	14,149.38	12,461.52	35.78	37.23	104.06	-2,228.81	-800.08	1,752.69	1,683.05	69.64	25.169	
13,800.00	12,036.51	14,249.38	12,462.05	36.95	38.43	104.05	-2,328.80	-799.18	1,752.65	1,680.68	71.97	24.353	
13,900.00	12,037.22	14,349.38	12,462.58	38.14	39.64	104.05	-2,428.80	-798.28	1,752.62	1,678.29	74.32	23.581	
14,000.00	12,037.93	14,449.38	12,463.10	39.33	40.85	104.04	-2,528.79	-797.38	1,752.58	1,675.88	76.70	22.851	
14,100.00	12,038.64	14,549.38	12,463.63	40.54	42.08	104.03	-2,628.79	-796.48	1,752.55	1,673.45	79.09	22.158	
14,200.00	12,039.35	14,649.38	12,464.15	41.75	43.32	104.03	-2,728.78	-795.58	1,752.51	1,671.01	81.50	21.502	
14,300.00	12,040.06	14,749.38	12,464.68	42.97	44.56	104.02	-2,828.78	-794.68	1,752.48	1,668.55	83.93	20.880	
14,400.00	12,040.77	14,849.38	12,465.21	44.20	45.81	104.02	-2,928.77	-793.78	1,752.44	1,666.07	86.37	20.290	
14,500.00	12,041.48	14,949.38	12,465.73	45.44	47.07	104.01	-3,028.76	-792.88	1,752.40	1,663.58	88.83	19.729	
14,600.00	12,042.19	15,049.38	12,466.26	46.69	48.33	104.00	-3,128.76	-791.98	1,752.37	1,661.08	91.29	19.195	
14,700.00	12,042.89	15,149.38	12,466.79	47.94	49.59	104.00	-3,228.75	-791.08	1,752.33	1,658.56	93.77	18.688	
14,800.00	12,043.60	15,249.38	12,467.31	49.20	50.87	103.99	-3,328.75	-790.18	1,752.30	1,656.04	96.26	18.204	
14,900.00	12,044.31	15,349.38	12,467.84	50.46	52.14	103.99	-3,428.74	-789.28	1,752.26	1,653.51	98.76	17.743	
15,000.00	12,045.02	15,449.38	12,468.36	51.73	53.43	103.98	-3,528.74	-788.38	1,752.23	1,650.96	101.26	17.304	
15,100.00	12,045.73	15,549.38	12,468.89	53.01	54.71	103.98	-3,628.73	-787.48	1,752.19	1,648.41	103.78	16.884	
15,200.00	12,046.44	15,649.37	12,469.42	54.28	56.00	103.97	-3,728.72	-786.59	1,752.16	1,645.86	106.30	16.483	
15,300.00	12,047.15	15,749.37	12,469.94	55.57	57.29	103.96	-3,828.72	-785.69	1,752.12	1,643.29	108.83	16.100	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 213H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	12,047.86	15,849.37	12,470.47	56.85	58.59	103.96	-3,928.71	-784.79	1,752.09	1,640.72	111.37	15.733	
15,500.00	12,048.57	15,949.37	12,471.00	58.14	59.89	103.95	-4,028.71	-783.89	1,752.05	1,638.14	113.91	15.381	
15,600.00	12,049.28	16,049.37	12,471.52	59.44	61.19	103.95	-4,128.70	-782.99	1,752.02	1,635.56	116.46	15.044	
15,700.00	12,049.99	16,149.37	12,472.05	60.73	62.50	103.94	-4,228.70	-782.09	1,751.98	1,632.97	119.01	14.721	
15,800.00	12,050.69	16,249.37	12,472.57	62.03	63.81	103.93	-4,328.69	-781.19	1,751.95	1,630.38	121.57	14.411	
15,900.00	12,051.40	16,349.37	12,473.10	63.33	65.12	103.93	-4,428.69	-780.29	1,751.91	1,627.78	124.13	14.113	
16,000.00	12,052.11	16,449.37	12,473.63	64.64	66.43	103.92	-4,528.68	-779.39	1,751.88	1,625.17	126.70	13.827	
16,100.00	12,052.82	16,549.37	12,474.15	65.95	67.74	103.92	-4,628.67	-778.49	1,751.84	1,622.56	129.28	13.551	
16,200.00	12,053.53	16,649.37	12,474.68	67.26	69.06	103.91	-4,728.67	-777.59	1,751.81	1,619.95	131.85	13.286	
16,300.00	12,054.24	16,749.37	12,475.20	68.57	70.38	103.90	-4,828.66	-776.69	1,751.77	1,617.34	134.43	13.031	
16,400.00	12,054.95	16,849.37	12,475.73	69.88	71.70	103.90	-4,928.66	-775.79	1,751.74	1,614.72	137.02	12.785	
16,500.00	12,055.66	16,949.37	12,476.26	71.20	73.02	103.89	-5,028.65	-774.89	1,751.70	1,612.10	139.60	12.548	
16,600.00	12,056.37	17,049.37	12,476.78	72.52	74.35	103.89	-5,128.65	-773.99	1,751.67	1,609.47	142.20	12.319	
16,700.00	12,057.08	17,149.37	12,477.31	73.84	75.67	103.88	-5,228.64	-773.09	1,751.63	1,606.84	144.79	12.098	
16,800.00	12,057.79	17,249.37	12,477.84	75.16	77.00	103.88	-5,328.64	-772.19	1,751.60	1,604.21	147.39	11.884	
16,900.00	12,058.49	17,349.37	12,478.36	76.48	78.33	103.87	-5,428.63	-771.29	1,751.56	1,601.58	149.99	11.678	
17,000.00	12,059.20	17,449.37	12,478.89	77.81	79.66	103.86	-5,528.62	-770.40	1,751.53	1,598.94	152.59	11.479	
17,100.00	12,059.91	17,549.37	12,479.41	79.14	80.99	103.86	-5,628.62	-769.50	1,751.49	1,596.30	155.19	11.286	
17,200.00	12,060.62	17,649.37	12,479.94	80.46	82.32	103.85	-5,728.61	-768.60	1,751.46	1,593.66	157.80	11.099	
17,300.00	12,061.33	17,749.37	12,480.47	81.79	83.66	103.85	-5,828.61	-767.70	1,751.42	1,591.01	160.41	10.919	
17,400.00	12,062.04	17,849.37	12,480.99	83.12	84.99	103.84	-5,928.60	-766.80	1,751.39	1,588.37	163.02	10.743	
17,500.00	12,062.75	17,949.37	12,481.52	84.45	86.33	103.83	-6,028.60	-765.90	1,751.35	1,585.72	165.63	10.574	
17,600.00	12,063.46	18,049.37	12,482.05	85.79	87.66	103.83	-6,128.59	-765.00	1,751.32	1,583.07	168.25	10.409	
17,700.00	12,064.17	18,149.37	12,482.57	87.12	89.00	103.82	-6,228.58	-764.10	1,751.28	1,580.42	170.87	10.249	
17,800.00	12,064.88	18,249.37	12,483.10	88.46	90.34	103.82	-6,328.58	-763.20	1,751.25	1,577.76	173.48	10.095	
17,900.00	12,065.59	18,349.37	12,483.62	89.79	91.68	103.81	-6,428.57	-762.30	1,751.21	1,575.11	176.11	9.944	
18,000.00	12,066.29	18,449.37	12,484.15	91.13	93.02	103.80	-6,528.57	-761.40	1,751.18	1,572.45	178.73	9.798	
18,100.00	12,067.00	18,549.37	12,484.68	92.47	94.36	103.80	-6,628.56	-760.50	1,751.14	1,569.79	181.35	9.656	
18,200.00	12,067.71	18,649.37	12,485.20	93.81	95.70	103.79	-6,728.56	-759.60	1,751.11	1,567.13	183.98	9.518	
18,300.00	12,068.42	18,749.37	12,485.73	95.15	97.05	103.79	-6,828.55	-758.70	1,751.07	1,564.47	186.61	9.384	
18,400.00	12,069.13	18,849.37	12,486.25	96.49	98.39	103.78	-6,928.55	-757.80	1,751.04	1,561.80	189.23	9.253	
18,500.00	12,069.84	18,949.37	12,486.78	97.83	99.73	103.78	-7,028.54	-756.90	1,751.00	1,559.14	191.86	9.126	
18,600.00	12,070.55	19,049.37	12,487.31	99.17	101.08	103.77	-7,128.53	-756.00	1,750.97	1,556.47	194.49	9.003	
18,700.00	12,071.26	19,149.37	12,487.83	100.51	102.42	103.76	-7,228.53	-755.11	1,750.93	1,553.81	197.13	8.882	
18,800.00	12,071.97	19,249.37	12,488.36	101.86	103.77	103.76	-7,328.52	-754.21	1,750.90	1,551.14	199.76	8.765	
18,900.00	12,072.68	19,349.37	12,488.89	103.20	105.12	103.75	-7,428.52	-753.31	1,750.87	1,548.47	202.40	8.651	
19,000.00	12,073.39	19,449.37	12,489.41	104.55	106.46	103.75	-7,528.51	-752.41	1,750.83	1,545.80	205.03	8.539	
19,100.00	12,074.09	19,549.37	12,489.94	105.89	107.81	103.74	-7,628.51	-751.51	1,750.80	1,543.13	207.67	8.431	
19,200.00	12,074.80	19,649.37	12,490.46	107.24	109.16	103.73	-7,728.50	-750.61	1,750.76	1,540.45	210.31	8.325	
19,300.00	12,075.51	19,749.37	12,490.99	108.58	110.51	103.73	-7,828.50	-749.71	1,750.73	1,537.78	212.95	8.221	
19,400.00	12,076.22	19,849.37	12,491.52	109.93	111.86	103.72	-7,928.49	-748.81	1,750.69	1,535.11	215.59	8.121	
19,500.00	12,076.93	19,949.37	12,492.04	111.28	113.21	103.72	-8,028.48	-747.91	1,750.66	1,532.43	218.23	8.022	
19,600.00	12,077.64	20,049.37	12,492.57	112.63	114.56	103.71	-8,128.48	-747.01	1,750.62	1,529.75	220.87	7.926	
19,700.00	12,078.35	20,149.37	12,493.09	113.98	115.91	103.70	-8,228.47	-746.11	1,750.59	1,527.08	223.51	7.832	
19,800.00	12,079.06	20,249.37	12,493.62	115.33	117.26	103.70	-8,328.47	-745.21	1,750.55	1,524.40	226.16	7.740	
19,900.00	12,079.77	20,349.37	12,494.15	116.68	118.61	103.69	-8,428.46	-744.31	1,750.52	1,521.72	228.80	7.651	
20,000.00	12,080.48	20,449.37	12,494.67	118.03	119.96	103.69	-8,528.46	-743.41	1,750.49	1,519.04	231.45	7.563	
20,100.00	12,081.18	20,549.37	12,495.20	119.38	121.32	103.68	-8,628.45	-742.51	1,750.45	1,516.36	234.09	7.478	
20,200.00	12,081.89	20,649.37	12,495.73	120.73	122.67	103.68	-8,728.45	-741.61	1,750.42	1,513.68	236.74	7.394	
20,300.00	12,082.60	20,749.37	12,496.25	122.08	124.02	103.67	-8,828.44	-740.71	1,750.38	1,510.99	239.39	7.312	
20,400.00	12,083.31	20,849.37	12,496.78	123.43	125.38	103.66	-8,928.43	-739.81	1,750.35	1,508.31	242.04	7.232	
20,500.00	12,084.02	20,949.37	12,497.30	124.78	126.73	103.66	-9,028.43	-738.92	1,750.31	1,505.63	244.69	7.153	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 213H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,084.73	21,049.37	12,497.83	126.14	128.08	103.65	-9,128.42	-738.02	1,750.28	1,502.94	247.34	7.077	
20,700.00	12,085.44	21,149.37	12,498.36	127.49	129.44	103.65	-9,228.42	-737.12	1,750.25	1,500.26	249.99	7.001	
20,800.00	12,086.15	21,249.37	12,498.88	128.84	130.79	103.64	-9,328.41	-736.22	1,750.21	1,497.57	252.64	6.928	
20,900.00	12,086.86	21,349.37	12,499.41	130.20	132.15	103.63	-9,428.41	-735.32	1,750.18	1,494.89	255.29	6.856	
21,000.00	12,087.57	21,449.37	12,499.94	131.55	133.50	103.63	-9,528.40	-734.42	1,750.14	1,492.20	257.94	6.785	
21,100.00	12,088.28	21,549.37	12,500.46	132.90	134.86	103.62	-9,628.39	-733.52	1,750.11	1,489.51	260.60	6.716	
21,200.00	12,088.98	21,649.36	12,500.99	134.26	136.21	103.62	-9,728.39	-732.62	1,750.07	1,486.83	263.25	6.648	
21,300.00	12,089.69	21,749.36	12,501.51	135.61	137.57	103.61	-9,828.38	-731.72	1,750.04	1,484.14	265.90	6.581	
21,400.00	12,090.40	21,849.36	12,502.04	136.97	138.93	103.60	-9,928.38	-730.82	1,750.01	1,481.45	268.56	6.516	
21,500.00	12,091.11	21,949.36	12,502.57	138.32	140.28	103.60	-10,028.37	-729.92	1,749.97	1,478.76	271.21	6.452	
21,600.00	12,091.82	22,049.36	12,503.09	139.68	141.64	103.59	-10,128.37	-729.02	1,749.94	1,476.07	273.87	6.390	
21,700.00	12,092.53	22,149.36	12,503.62	141.04	143.00	103.59	-10,228.36	-728.12	1,749.90	1,473.38	276.53	6.328	
21,800.00	12,093.24	22,249.36	12,504.14	142.39	144.35	103.58	-10,328.36	-727.22	1,749.87	1,470.69	279.18	6.268	
21,900.00	12,093.95	22,349.36	12,504.67	143.75	145.71	103.58	-10,428.35	-726.32	1,749.84	1,467.99	281.84	6.209	
22,000.00	12,094.66	22,449.36	12,505.20	145.11	147.07	103.57	-10,528.34	-725.42	1,749.80	1,465.30	284.50	6.150	
22,100.00	12,095.37	22,549.36	12,505.72	146.46	148.43	103.56	-10,628.34	-724.52	1,749.77	1,462.61	287.16	6.093	
22,200.00	12,096.08	22,649.36	12,506.25	147.82	149.79	103.56	-10,728.33	-723.63	1,749.73	1,459.92	289.82	6.037	
22,300.00	12,096.78	22,749.36	12,506.78	149.18	151.14	103.55	-10,828.33	-722.73	1,749.70	1,457.22	292.48	5.982	
22,380.87	12,097.36	22,830.04	12,507.20	150.28	152.24	103.55	-10,909.00	-722.00	1,749.67	1,455.05	294.62	5.939	
22,386.82	12,097.40	22,830.04	12,507.20	150.36	152.24	103.55	-10,909.00	-722.00	1,749.68	1,454.99	294.70	5.937	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 214H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.50	0.50	90.00	0.00	25.00	25.00				
100.00	100.00	100.00	100.00	0.98	0.98	90.00	0.00	25.00	25.00	23.04	1.96	12.741	
200.00	200.00	200.00	200.00	1.56	1.56	90.00	0.00	25.00	25.00	21.88	3.12	8.007	
300.00	300.00	300.00	300.00	1.98	1.98	90.00	0.00	25.00	25.00	21.04	3.96	6.309	
400.00	400.00	399.37	399.36	2.33	2.41	90.97	-0.44	26.21	26.23	21.50	4.73	5.549	
500.00	500.00	498.60	498.51	2.63	2.77	93.38	-1.77	29.85	29.94	24.55	5.39	5.556	
600.00	600.00	598.45	598.22	2.91	3.03	95.84	-3.55	34.76	34.99	29.05	5.93	5.898	
700.00	700.00	698.33	697.97	3.02	3.28	-32.57	-5.34	39.67	39.81	33.51	6.29	6.324	
800.00	799.96	798.28	797.78	3.31	3.52	-32.91	-7.13	44.59	42.71	35.91	6.80	6.277	
900.00	899.82	898.26	897.63	3.59	3.75	-35.11	-8.92	49.51	43.45	36.17	7.28	5.966	
1,000.00	999.51	998.20	997.43	3.76	3.98	-39.36	-10.71	54.42	42.23	34.58	7.65	5.521	
1,100.00	1,099.13	1,098.11	1,097.20	3.96	4.19	-44.73	-12.50	59.33	40.60	32.55	8.05	5.046	
1,200.00	1,198.75	1,198.03	1,196.98	4.17	4.41	-50.48	-14.29	64.25	39.35	30.92	8.43	4.669	
1,300.00	1,298.37	1,297.94	1,296.75	4.37	4.61	-56.55	-16.07	69.16	38.53	29.73	8.79	4.381	
1,400.00	1,397.99	1,397.85	1,396.53	4.57	4.82	-62.80	-17.86	74.08	38.15	29.00	9.15	4.169	
1,500.00	1,497.50	1,497.72	1,496.26	4.79	5.02	-64.36	-19.65	78.99	37.31	27.82	9.49	3.932	
1,600.00	1,596.74	1,597.53	1,595.87	5.02	5.24	-69.55	-22.42	84.59	35.46	25.64	9.82	3.612	
1,700.00	1,695.65	1,697.46	1,695.43	5.25	5.46	-76.34	-27.32	91.72	32.74	22.59	10.15	3.225	
1,800.00	1,794.15	1,797.48	1,794.82	5.48	5.69	-85.50	-34.34	100.36	29.22	18.70	10.52	2.778	
1,900.00	1,892.17	1,897.37	1,893.80	5.71	5.82	-99.11	-43.31	110.36	25.41	14.53	10.88	2.336	
1,981.37	1,971.61	1,978.35	1,973.99	5.82	5.98	-116.52	-50.89	118.70	24.01	12.72	11.30	2.126	CC, ES
2,000.00	1,989.70	1,996.85	1,992.31	5.85	6.02	-121.68	-52.62	120.60	24.21	12.80	11.42	2.121	SF
2,100.00	2,087.14	2,096.29	2,090.79	6.05	6.21	-144.13	-61.93	130.83	27.36	15.29	12.07	2.267	
2,200.00	2,184.58	2,195.74	2,189.26	6.25	6.41	-160.12	-71.24	141.06	33.67	21.07	12.60	2.672	
2,300.00	2,282.02	2,295.18	2,287.74	6.45	6.61	-170.55	-80.55	151.30	41.73	28.68	13.05	3.198	
2,400.00	2,379.46	2,394.62	2,386.21	6.66	6.81	-177.46	-89.86	161.53	50.71	37.25	13.47	3.766	
2,500.00	2,476.89	2,494.06	2,484.69	6.90	7.00	177.74	-99.17	171.76	60.21	46.33	13.87	4.339	
2,600.00	2,574.33	2,593.50	2,583.16	7.17	7.20	174.27	-108.48	182.00	70.00	55.72	14.28	4.901	
2,700.00	2,671.77	2,692.94	2,681.64	7.45	7.40	171.66	-117.79	192.23	79.99	65.30	14.69	5.444	
2,800.00	2,769.21	2,792.39	2,780.11	7.73	7.59	169.63	-127.10	202.46	90.11	75.00	15.11	5.964	
2,900.00	2,866.65	2,891.83	2,878.59	8.01	7.79	168.01	-136.41	212.69	100.31	84.79	15.52	6.462	
3,000.00	2,964.08	2,991.27	2,977.06	8.29	7.99	166.69	-145.72	222.93	110.58	94.64	15.94	6.936	
3,100.00	3,061.52	3,090.71	3,075.54	8.58	8.19	165.60	-155.03	233.16	120.90	104.53	16.37	7.387	
3,200.00	3,158.96	3,190.15	3,174.01	8.87	8.38	164.67	-164.34	243.39	131.26	114.46	16.79	7.817	
3,300.00	3,256.40	3,289.60	3,272.49	9.16	8.58	163.89	-173.65	253.63	141.64	124.42	17.22	8.227	
3,400.00	3,353.84	3,389.04	3,370.96	9.46	8.78	163.21	-182.96	263.86	152.05	134.40	17.64	8.617	
3,500.00	3,451.27	3,488.48	3,469.44	9.75	8.98	162.61	-192.27	274.09	162.47	144.40	18.07	8.989	
3,600.00	3,548.71	3,587.92	3,567.91	10.05	9.18	162.09	-201.58	284.32	172.91	154.41	18.51	9.344	
3,700.00	3,646.15	3,687.36	3,666.39	10.34	9.37	161.63	-210.89	294.56	183.36	164.43	18.94	9.682	
3,800.00	3,743.59	3,786.81	3,764.86	10.64	9.57	161.22	-220.20	304.79	193.83	174.46	19.37	10.006	
3,900.00	3,841.03	3,886.25	3,863.34	10.94	9.77	160.85	-229.51	315.02	204.30	184.49	19.81	10.315	
4,000.00	3,938.47	3,985.69	3,961.81	11.24	9.97	160.51	-238.82	325.25	214.78	194.54	20.24	10.611	
4,100.00	4,035.90	4,085.13	4,060.29	11.54	10.17	160.21	-248.13	335.49	225.27	204.59	20.68	10.894	
4,200.00	4,133.34	4,184.57	4,158.76	11.84	10.37	159.94	-257.44	345.72	235.76	214.64	21.12	11.165	
4,300.00	4,230.78	4,284.02	4,257.24	12.14	10.56	159.68	-266.75	355.95	246.26	224.70	21.55	11.425	
4,400.00	4,328.22	4,383.46	4,355.71	12.45	10.76	159.45	-276.06	366.19	256.76	234.77	21.99	11.675	
4,500.00	4,425.66	4,482.90	4,454.19	12.75	10.96	159.24	-285.37	376.42	267.26	244.83	22.43	11.915	
4,600.00	4,523.09	4,582.34	4,552.66	13.05	11.16	159.04	-294.68	386.65	277.77	254.90	22.87	12.145	
4,700.00	4,620.53	4,681.78	4,651.14	13.36	11.36	158.86	-303.99	396.88	288.28	264.97	23.31	12.366	
4,800.00	4,717.97	4,781.23	4,749.61	13.66	11.56	158.69	-313.30	407.12	298.80	275.04	23.75	12.579	
4,900.00	4,815.41	4,880.67	4,848.09	13.97	11.76	158.53	-322.61	417.35	309.31	285.12	24.19	12.784	
5,000.00	4,912.85	4,980.11	4,946.56	14.27	11.96	158.38	-331.92	427.58	319.83	295.20	24.64	12.982	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

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Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 214H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,010.28	5,079.55	5,045.04	14.58	12.16	158.24	-341.23	437.82	330.35	305.27	25.08	13.173	
5,200.00	5,107.72	5,178.99	5,143.51	14.89	12.36	158.11	-350.54	448.05	340.88	315.35	25.52	13.356	
5,300.00	5,205.30	5,278.49	5,242.04	15.16	12.56	157.99	-359.86	458.29	350.83	324.89	25.94	13.525	
5,400.00	5,303.38	5,378.18	5,340.76	15.44	12.76	157.73	-369.19	468.55	358.48	332.09	26.39	13.583	
5,500.00	5,401.95	5,475.59	5,437.25	15.69	12.93	157.34	-378.21	478.46	363.85	337.05	26.80	13.576	
5,600.00	5,500.92	5,568.83	5,529.83	15.91	13.11	157.02	-385.63	486.61	368.28	341.08	27.19	13.543	
5,700.00	5,600.23	5,662.07	5,622.65	16.10	13.29	156.79	-391.52	493.09	372.11	344.55	27.56	13.501	
5,800.00	5,699.82	5,755.30	5,715.65	16.26	13.46	156.65	-395.89	497.89	375.34	347.45	27.90	13.455	
5,900.00	5,799.60	5,848.51	5,808.77	16.39	13.61	156.59	-398.73	501.01	377.97	349.78	28.19	13.408	
6,000.00	5,899.53	5,941.70	5,901.94	16.50	13.72	156.62	-400.03	502.44	379.98	351.56	28.42	13.371	
6,100.00	5,999.52	6,039.28	5,999.52	16.57	13.76	-90.41	-400.13	502.55	381.01	352.49	28.52	13.358	
6,200.00	6,099.52	6,139.28	6,099.52	16.62	13.80	-90.41	-400.13	502.55	381.01	352.41	28.60	13.321	
6,300.00	6,199.52	6,239.28	6,199.52	16.66	13.84	-90.41	-400.13	502.55	381.01	352.33	28.68	13.284	
6,400.00	6,299.52	6,339.28	6,299.52	16.70	13.87	-90.41	-400.13	502.55	381.01	352.25	28.76	13.247	
6,500.00	6,399.52	6,439.28	6,399.52	16.74	13.91	-90.41	-400.13	502.55	381.01	352.17	28.84	13.210	
6,600.00	6,499.52	6,539.28	6,499.52	16.79	13.95	-90.41	-400.13	502.55	381.01	352.09	28.92	13.173	
6,700.00	6,599.52	6,639.28	6,599.52	16.83	13.99	-90.41	-400.13	502.55	381.01	352.00	29.01	13.136	
6,800.00	6,699.52	6,739.28	6,699.52	16.88	14.03	-90.41	-400.13	502.55	381.01	351.92	29.09	13.098	
6,900.00	6,799.52	6,839.28	6,799.52	16.92	14.07	-90.41	-400.13	502.55	381.01	351.84	29.17	13.061	
7,000.00	6,899.52	6,939.28	6,899.52	16.96	14.11	-90.41	-400.13	502.55	381.01	351.75	29.26	13.023	
7,100.00	6,999.52	7,039.28	6,999.52	17.01	14.15	-90.41	-400.13	502.55	381.01	351.67	29.34	12.985	
7,200.00	7,099.52	7,139.28	7,099.52	17.05	14.20	-90.41	-400.13	502.55	381.01	351.58	29.43	12.948	
7,300.00	7,199.52	7,239.28	7,199.52	17.10	14.24	-90.41	-400.13	502.55	381.01	351.50	29.51	12.910	
7,400.00	7,299.52	7,339.28	7,299.52	17.15	14.28	-90.41	-400.13	502.55	381.01	351.41	29.60	12.872	
7,500.00	7,399.52	7,439.28	7,399.52	17.19	14.32	-90.41	-400.13	502.55	381.01	351.32	29.69	12.834	
7,600.00	7,499.52	7,539.28	7,499.52	17.24	14.36	-90.41	-400.13	502.55	381.01	351.23	29.78	12.796	
7,700.00	7,599.52	7,639.28	7,599.52	17.28	14.41	-90.41	-400.13	502.55	381.01	351.15	29.86	12.758	
7,800.00	7,699.52	7,739.28	7,699.52	17.33	14.45	-90.41	-400.13	502.55	381.01	351.06	29.95	12.720	
7,900.00	7,799.52	7,839.28	7,799.52	17.38	14.49	-90.41	-400.13	502.55	381.01	350.97	30.04	12.682	
8,000.00	7,899.52	7,939.28	7,899.52	17.43	14.54	-90.41	-400.13	502.55	381.01	350.88	30.13	12.644	
8,100.00	7,999.52	8,039.28	7,999.52	17.47	14.58	-90.41	-400.13	502.55	381.01	350.78	30.23	12.605	
8,200.00	8,099.52	8,139.28	8,099.52	17.52	14.63	-90.41	-400.13	502.55	381.01	350.69	30.32	12.567	
8,300.00	8,199.52	8,239.28	8,199.52	17.57	14.67	-90.41	-400.13	502.55	381.01	350.60	30.41	12.529	
8,400.00	8,299.52	8,339.28	8,299.52	17.62	14.72	-90.41	-400.13	502.55	381.01	350.51	30.50	12.491	
8,500.00	8,399.52	8,439.28	8,399.52	17.67	14.76	-90.41	-400.13	502.55	381.01	350.41	30.60	12.452	
8,600.00	8,499.52	8,539.28	8,499.52	17.71	14.81	-90.41	-400.13	502.55	381.01	350.32	30.69	12.414	
8,700.00	8,599.52	8,639.28	8,599.52	17.76	14.86	-90.41	-400.13	502.55	381.01	350.22	30.79	12.376	
8,800.00	8,699.52	8,739.28	8,699.52	17.81	14.90	-90.41	-400.13	502.55	381.01	350.13	30.88	12.338	
8,900.00	8,799.52	8,839.28	8,799.52	17.86	14.95	-90.41	-400.13	502.55	381.01	350.03	30.98	12.300	
9,000.00	8,899.52	8,939.28	8,899.52	17.91	15.00	-90.41	-400.13	502.55	381.01	349.94	31.07	12.261	
9,100.00	8,999.52	9,039.28	8,999.52	17.96	15.04	-90.41	-400.13	502.55	381.01	349.84	31.17	12.223	
9,200.00	9,099.52	9,139.28	9,099.52	18.01	15.09	-90.41	-400.13	502.55	381.01	349.74	31.27	12.185	
9,300.00	9,199.52	9,239.28	9,199.52	18.06	15.14	-90.41	-400.13	502.55	381.01	349.64	31.37	12.147	
9,400.00	9,299.52	9,339.28	9,299.52	18.11	15.19	-90.41	-400.13	502.55	381.01	349.54	31.47	12.109	
9,500.00	9,399.52	9,439.28	9,399.52	18.16	15.24	-90.41	-400.13	502.55	381.01	349.45	31.56	12.071	
9,600.00	9,499.52	9,539.28	9,499.52	18.22	15.29	-90.41	-400.13	502.55	381.01	349.35	31.66	12.033	
9,700.00	9,599.52	9,639.28	9,599.52	18.27	15.34	-90.41	-400.13	502.55	381.01	349.25	31.76	11.995	
9,800.00	9,699.52	9,739.28	9,699.52	18.32	15.39	-90.41	-400.13	502.55	381.01	349.14	31.87	11.957	
9,900.00	9,799.52	9,839.28	9,799.52	18.37	15.44	-90.41	-400.13	502.55	381.01	349.04	31.97	11.919	
10,000.00	9,899.52	9,939.28	9,899.52	18.42	15.49	-90.41	-400.13	502.55	381.01	348.94	32.07	11.881	
10,100.00	9,999.52	10,039.28	9,999.52	18.47	15.54	-90.41	-400.13	502.55	381.01	348.84	32.17	11.843	
10,200.00	10,099.52	10,139.28	10,099.52	18.53	15.59	-90.41	-400.13	502.55	381.01	348.74	32.27	11.805	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

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Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 214H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,199.52	10,239.28	10,199.52	18.58	15.64	-90.41	-400.13	502.55	381.01	348.63	32.38	11.768	
10,400.00	10,299.52	10,339.28	10,299.52	18.63	15.69	-90.41	-400.13	502.55	381.01	348.53	32.48	11.730	
10,500.00	10,399.52	10,439.28	10,399.52	18.69	15.74	-90.41	-400.13	502.55	381.01	348.42	32.59	11.693	
10,600.00	10,499.52	10,539.28	10,499.52	18.74	15.79	-90.41	-400.13	502.55	381.01	348.32	32.69	11.655	
10,700.00	10,599.52	10,639.28	10,599.52	18.79	15.84	-90.41	-400.13	502.55	381.01	348.21	32.80	11.618	
10,800.00	10,699.52	10,739.28	10,699.52	18.85	15.90	-90.41	-400.13	502.55	381.01	348.11	32.90	11.580	
10,900.00	10,799.52	10,839.28	10,799.52	18.90	15.95	-90.41	-400.13	502.55	381.01	348.00	33.01	11.543	
11,000.00	10,899.52	10,939.28	10,899.52	18.95	16.00	-90.41	-400.13	502.55	381.01	347.90	33.11	11.506	
11,100.00	10,999.52	11,039.28	10,999.52	19.01	16.06	-90.41	-400.13	502.55	381.01	347.79	33.22	11.469	
11,200.00	11,099.52	11,139.28	11,099.52	19.06	16.11	-90.41	-400.13	502.55	381.01	347.68	33.33	11.432	
11,300.00	11,199.52	11,239.28	11,199.52	19.12	16.16	-90.41	-400.13	502.55	381.01	347.57	33.44	11.395	
11,400.00	11,299.52	11,339.28	11,299.52	19.17	16.22	-90.41	-400.13	502.55	381.01	347.46	33.55	11.358	
11,500.00	11,399.52	11,439.28	11,399.52	19.23	16.27	-90.41	-400.13	502.55	381.01	347.36	33.65	11.321	
11,500.32	11,399.84	11,439.60	11,399.84	19.23	16.27	90.11	-400.13	502.55	381.01	347.35	33.65	11.321	
11,600.00	11,499.47	11,539.23	11,499.47	19.29	16.33	90.38	-400.13	502.55	381.02	347.28	33.73	11.295	
11,700.00	11,597.96	11,637.72	11,597.96	19.45	16.38	92.78	-400.13	502.55	381.49	347.69	33.79	11.289	
11,800.00	11,692.07	11,731.83	11,692.07	19.66	16.43	97.15	-400.13	502.55	384.61	350.75	33.86	11.358	
11,900.00	11,778.95	11,818.72	11,778.95	19.93	16.48	102.41	-400.13	502.55	394.37	360.43	33.94	11.618	
12,000.00	11,855.96	11,904.60	11,864.82	20.27	16.51	107.96	-400.96	502.56	415.12	381.07	34.05	12.193	
12,100.00	11,920.75	12,020.38	11,979.03	20.70	16.65	114.87	-418.79	502.72	445.16	410.56	34.60	12.865	
12,200.00	11,971.37	12,166.07	12,113.79	21.23	16.88	121.99	-473.09	503.21	479.83	443.38	36.44	13.166	
12,300.00	12,006.26	12,359.70	12,263.74	21.86	17.56	129.01	-594.13	504.31	512.85	472.34	40.51	12.660	
12,400.00	12,024.37	12,589.25	12,377.16	22.58	19.05	133.64	-791.85	506.11	534.69	489.09	45.60	11.726	
12,500.00	12,027.30	12,818.01	12,407.20	23.37	21.02	134.92	-1,017.30	508.16	538.05	488.79	49.26	10.923	
12,600.00	12,028.00	12,918.01	12,407.72	24.23	21.97	134.90	-1,117.30	509.07	537.92	487.68	50.24	10.706	
12,700.00	12,028.71	13,018.01	12,408.25	25.13	22.97	134.89	-1,217.29	509.98	537.79	486.50	51.29	10.484	
12,800.00	12,029.42	13,118.01	12,408.77	26.08	23.99	134.88	-1,317.29	510.88	537.66	485.26	52.40	10.260	
12,900.00	12,030.13	13,218.01	12,409.30	27.06	25.05	134.86	-1,417.28	511.79	537.53	483.96	53.57	10.034	
13,000.00	12,030.84	13,318.01	12,409.82	28.07	26.14	134.85	-1,517.28	512.70	537.40	482.61	54.79	9.809	
13,100.00	12,031.55	13,418.01	12,410.35	29.10	27.25	134.83	-1,617.27	513.61	537.27	481.22	56.05	9.585	
13,200.00	12,032.26	13,518.01	12,410.87	30.17	28.38	134.82	-1,717.26	514.52	537.14	479.77	57.37	9.363	
13,300.00	12,032.97	13,618.00	12,411.40	31.25	29.53	134.81	-1,817.26	515.43	537.01	478.29	58.72	9.145	
13,400.00	12,033.68	13,718.00	12,411.92	32.36	30.69	134.79	-1,917.25	516.34	536.88	476.76	60.12	8.930	
13,500.00	12,034.39	13,818.00	12,412.45	33.49	31.88	134.78	-2,017.25	517.24	536.75	475.20	61.55	8.720	
13,600.00	12,035.10	13,918.00	12,412.97	34.63	33.07	134.76	-2,117.24	518.15	536.62	473.60	63.02	8.515	
13,700.00	12,035.80	14,018.00	12,413.50	35.78	34.28	134.75	-2,217.24	519.06	536.49	471.97	64.52	8.315	
13,800.00	12,036.51	14,118.00	12,414.02	36.95	35.50	134.74	-2,317.23	519.97	536.36	470.31	66.05	8.120	
13,900.00	12,037.22	14,218.00	12,414.55	38.14	36.73	134.72	-2,417.22	520.88	536.23	468.62	67.61	7.931	
14,000.00	12,037.93	14,318.00	12,415.07	39.33	37.97	134.71	-2,517.22	521.79	536.10	466.90	69.20	7.747	
14,100.00	12,038.64	14,418.00	12,415.60	40.54	39.21	134.69	-2,617.21	522.70	535.97	465.16	70.81	7.569	
14,200.00	12,039.35	14,518.00	12,416.12	41.75	40.47	134.68	-2,717.21	523.61	535.84	463.39	72.45	7.396	
14,300.00	12,040.06	14,618.00	12,416.65	42.97	41.73	134.67	-2,817.20	524.51	535.71	461.61	74.11	7.229	
14,400.00	12,040.77	14,718.00	12,417.17	44.20	42.99	134.65	-2,917.20	525.42	535.58	459.80	75.78	7.067	
14,500.00	12,041.48	14,818.00	12,417.70	45.44	44.27	134.64	-3,017.19	526.33	535.46	457.97	77.48	6.911	
14,600.00	12,042.19	14,918.00	12,418.22	46.69	45.55	134.62	-3,117.18	527.24	535.33	456.13	79.20	6.759	
14,700.00	12,042.89	15,018.00	12,418.75	47.94	46.83	134.61	-3,217.18	528.15	535.20	454.27	80.93	6.613	
14,800.00	12,043.60	15,118.00	12,419.27	49.20	48.12	134.60	-3,317.17	529.06	535.07	452.39	82.68	6.472	
14,900.00	12,044.31	15,218.00	12,419.80	50.46	49.41	134.58	-3,417.17	529.97	534.94	450.50	84.44	6.335	
15,000.00	12,045.02	15,318.00	12,420.32	51.73	50.71	134.57	-3,517.16	530.87	534.81	448.59	86.22	6.203	
15,100.00	12,045.73	15,418.00	12,420.85	53.01	52.01	134.55	-3,617.16	531.78	534.68	446.67	88.01	6.075	
15,200.00	12,046.44	15,518.00	12,421.37	54.28	53.31	134.54	-3,717.15	532.69	534.55	444.74	89.81	5.952	
15,300.00	12,047.15	15,618.00	12,421.90	55.57	54.62	134.53	-3,817.15	533.60	534.42	442.80	91.63	5.833	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 214H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	12,047.86	15,718.00	12,422.42	56.85	55.93	134.51	-3,917.14	534.51	534.29	440.84	93.45	5.717	
15,500.00	12,048.57	15,818.00	12,422.95	58.14	57.24	134.50	-4,017.13	535.42	534.16	438.87	95.29	5.606	
15,600.00	12,049.28	15,918.00	12,423.47	59.44	58.55	134.48	-4,117.13	536.33	534.03	436.90	97.14	5.498	
15,700.00	12,049.99	16,018.00	12,424.00	60.73	59.87	134.47	-4,217.12	537.24	533.90	434.91	98.99	5.393	
15,800.00	12,050.69	16,118.00	12,424.52	62.03	61.19	134.46	-4,317.12	538.14	533.78	432.92	100.86	5.292	
15,900.00	12,051.40	16,218.00	12,425.05	63.33	62.51	134.44	-4,417.11	539.05	533.65	430.91	102.73	5.194	
16,000.00	12,052.11	16,318.00	12,425.57	64.64	63.83	134.43	-4,517.11	539.96	533.52	428.90	104.62	5.100	
16,100.00	12,052.82	16,418.00	12,426.10	65.95	65.16	134.41	-4,617.10	540.87	533.39	426.88	106.51	5.008	
16,200.00	12,053.53	16,518.00	12,426.62	67.26	66.49	134.40	-4,717.09	541.78	533.26	424.85	108.41	4.919	
16,300.00	12,054.24	16,618.00	12,427.15	68.57	67.82	134.38	-4,817.09	542.69	533.13	422.82	110.31	4.833	
16,400.00	12,054.95	16,718.00	12,427.67	69.88	69.15	134.37	-4,917.08	543.60	533.00	420.78	112.22	4.749	
16,500.00	12,055.66	16,818.00	12,428.20	71.20	70.48	134.36	-5,017.08	544.50	532.87	418.73	114.14	4.668	
16,600.00	12,056.37	16,918.00	12,428.72	72.52	71.81	134.34	-5,117.07	545.41	532.74	416.68	116.07	4.590	
16,700.00	12,057.08	17,018.00	12,429.25	73.84	73.14	134.33	-5,217.07	546.32	532.62	414.62	118.00	4.514	
16,800.00	12,057.79	17,118.00	12,429.77	75.16	74.48	134.31	-5,317.06	547.23	532.49	412.55	119.94	4.440	
16,900.00	12,058.49	17,218.00	12,430.30	76.48	75.82	134.30	-5,417.05	548.14	532.36	410.48	121.88	4.368	
17,000.00	12,059.20	17,318.00	12,430.82	77.81	77.15	134.29	-5,517.05	549.05	532.23	408.40	123.83	4.298	
17,100.00	12,059.91	17,418.00	12,431.35	79.14	78.49	134.27	-5,617.04	549.96	532.10	406.32	125.78	4.230	
17,200.00	12,060.62	17,518.00	12,431.87	80.46	79.83	134.26	-5,717.04	550.87	531.97	404.23	127.74	4.165	
17,300.00	12,061.33	17,618.00	12,432.40	81.79	81.17	134.24	-5,817.03	551.77	531.84	402.14	129.70	4.101	
17,400.00	12,062.04	17,718.00	12,432.92	83.12	82.52	134.23	-5,917.03	552.68	531.72	400.05	131.67	4.038	
17,500.00	12,062.75	17,818.00	12,433.45	84.45	83.86	134.21	-6,017.02	553.59	531.59	397.95	133.64	3.978	
17,600.00	12,063.46	17,918.00	12,433.97	85.79	85.20	134.20	-6,117.01	554.50	531.46	395.84	135.62	3.919	
17,700.00	12,064.17	18,018.00	12,434.50	87.12	86.55	134.19	-6,217.01	555.41	531.33	393.74	137.59	3.862	
17,800.00	12,064.88	18,118.00	12,435.02	88.46	87.89	134.17	-6,317.00	556.32	531.20	391.62	139.58	3.806	
17,900.00	12,065.59	18,218.00	12,435.54	89.79	89.24	134.16	-6,417.00	557.23	531.07	389.51	141.57	3.751	
18,000.00	12,066.29	18,318.00	12,436.07	91.13	90.58	134.14	-6,516.99	558.13	530.95	387.39	143.56	3.698	
18,100.00	12,067.00	18,418.00	12,436.59	92.47	91.93	134.13	-6,616.99	559.04	530.82	385.26	145.55	3.647	
18,200.00	12,067.71	18,518.00	12,437.12	93.81	93.28	134.11	-6,716.98	559.95	530.69	383.14	147.55	3.597	
18,300.00	12,068.42	18,618.00	12,437.64	95.15	94.63	134.10	-6,816.97	560.86	530.56	381.01	149.55	3.548	
18,400.00	12,069.13	18,718.00	12,438.17	96.49	95.98	134.09	-6,916.97	561.77	530.43	378.87	151.56	3.500	
18,500.00	12,069.84	18,818.00	12,438.69	97.83	97.33	134.07	-7,016.96	562.68	530.30	376.74	153.57	3.453	
18,600.00	12,070.55	18,918.00	12,439.22	99.17	98.68	134.06	-7,116.96	563.59	530.18	374.60	155.58	3.408	
18,700.00	12,071.26	19,018.00	12,439.74	100.51	100.03	134.04	-7,216.95	564.50	530.05	372.46	157.59	3.363	
18,800.00	12,071.97	19,118.00	12,440.27	101.86	101.38	134.03	-7,316.95	565.40	529.92	370.31	159.61	3.320	
18,900.00	12,072.68	19,218.00	12,440.79	103.20	102.73	134.01	-7,416.94	566.31	529.79	368.16	161.63	3.278	
19,000.00	12,073.39	19,318.00	12,441.32	104.55	104.08	134.00	-7,516.94	567.22	529.66	366.01	163.65	3.237	
19,100.00	12,074.09	19,418.00	12,441.84	105.89	105.43	133.99	-7,616.93	568.13	529.54	363.86	165.68	3.196	
19,200.00	12,074.80	19,518.00	12,442.37	107.24	106.79	133.97	-7,716.92	569.04	529.41	361.70	167.71	3.157	
19,300.00	12,075.51	19,617.99	12,442.89	108.58	108.14	133.96	-7,816.92	569.95	529.28	359.54	169.74	3.118	
19,400.00	12,076.22	19,717.99	12,443.42	109.93	109.49	133.94	-7,916.91	570.86	529.15	357.38	171.77	3.081	
19,500.00	12,076.93	19,817.99	12,443.94	111.28	110.85	133.93	-8,016.91	571.76	529.02	355.22	173.81	3.044	
19,600.00	12,077.64	19,917.99	12,444.47	112.63	112.20	133.91	-8,116.90	572.67	528.90	353.05	175.84	3.008	
19,700.00	12,078.35	20,017.99	12,444.99	113.98	113.56	133.90	-8,216.90	573.58	528.77	350.89	177.88	2.973	
19,800.00	12,079.06	20,117.99	12,445.52	115.33	114.91	133.89	-8,316.89	574.49	528.64	348.72	179.93	2.938	
19,900.00	12,079.77	20,217.99	12,446.04	116.68	116.27	133.87	-8,416.88	575.40	528.51	346.54	181.97	2.904	
20,000.00	12,080.48	20,317.99	12,446.57	118.03	117.62	133.86	-8,516.88	576.31	528.39	344.37	184.02	2.871	
20,100.00	12,081.18	20,417.99	12,447.09	119.38	118.98	133.84	-8,616.87	577.22	528.26	342.19	186.07	2.839	
20,200.00	12,081.89	20,517.99	12,447.62	120.73	120.34	133.83	-8,716.87	578.13	528.13	340.01	188.12	2.807	
20,300.00	12,082.60	20,617.99	12,448.14	122.08	121.69	133.81	-8,816.86	579.03	528.00	337.83	190.17	2.776	
20,400.00	12,083.31	20,717.99	12,448.67	123.43	123.05	133.80	-8,916.86	579.94	527.88	335.65	192.23	2.746	
20,500.00	12,084.02	20,817.99	12,449.19	124.78	124.41	133.78	-9,016.85	580.85	527.75	333.46	194.29	2.716	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 214H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Rule Assigned: Warning
20,600.00	12,084.73	20,917.99	12,449.72	126.14	125.77	133.77	-9,116.84	581.76	527.62	331.28	196.34	2.687	
20,700.00	12,085.44	21,017.99	12,450.24	127.49	127.12	133.76	-9,216.84	582.67	527.49	329.09	198.41	2.659	
20,800.00	12,086.15	21,117.99	12,450.77	128.84	128.48	133.74	-9,316.83	583.58	527.37	326.90	200.47	2.631	
20,900.00	12,086.86	21,217.99	12,451.29	130.20	129.84	133.73	-9,416.83	584.49	527.24	324.70	202.53	2.603	
21,000.00	12,087.57	21,317.99	12,451.82	131.55	131.20	133.71	-9,516.82	585.39	527.11	322.51	204.60	2.576	
21,100.00	12,088.28	21,417.99	12,452.34	132.90	132.56	133.70	-9,616.82	586.30	526.98	320.31	206.67	2.550	
21,200.00	12,088.98	21,517.99	12,452.87	134.26	133.92	133.68	-9,716.81	587.21	526.86	318.12	208.74	2.524	
21,300.00	12,089.69	21,617.99	12,453.39	135.61	135.28	133.67	-9,816.80	588.12	526.73	315.92	210.81	2.499	
21,400.00	12,090.40	21,717.99	12,453.92	136.97	136.64	133.65	-9,916.80	589.03	526.60	313.72	212.89	2.474	
21,500.00	12,091.11	21,817.99	12,454.44	138.32	137.99	133.64	-10,016.79	589.94	526.48	311.51	214.96	2.449	
21,600.00	12,091.82	21,917.99	12,454.97	139.68	139.35	133.63	-10,116.79	590.85	526.35	309.31	217.04	2.425	
21,700.00	12,092.53	22,017.99	12,455.49	141.04	140.71	133.61	-10,216.78	591.76	526.22	307.10	219.12	2.402	
21,800.00	12,093.24	22,117.99	12,456.02	142.39	142.07	133.60	-10,316.78	592.66	526.09	304.90	221.20	2.378	
21,900.00	12,093.95	22,217.99	12,456.54	143.75	143.44	133.58	-10,416.77	593.57	525.97	302.69	223.28	2.356	
22,000.00	12,094.66	22,317.99	12,457.07	145.11	144.80	133.57	-10,516.76	594.48	525.84	300.48	225.36	2.333	
22,100.00	12,095.37	22,417.99	12,457.59	146.46	146.16	133.55	-10,616.76	595.39	525.71	298.26	227.45	2.311	
22,200.00	12,096.08	22,517.99	12,458.12	147.82	147.52	133.54	-10,716.75	596.30	525.59	296.05	229.54	2.290	
22,300.00	12,096.78	22,617.99	12,458.64	149.18	148.85	133.52	-10,816.75	597.21	525.46	293.86	231.60	2.269	
22,386.82	12,097.40	22,704.81	12,459.10	150.36	149.91	133.51	-10,903.56	598.00	525.35	292.07	233.28	2.252	

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 216H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	0.00	0.50	0.50	0.00	210.00	0.00	210.00				
100.00	100.00	102.00	100.00	0.98	0.99	0.00	210.00	0.00	210.00	208.03	1.97	106.430	
200.00	200.00	202.00	200.00	1.56	1.57	0.00	210.00	0.00	210.00	206.87	3.13	67.081	
300.00	300.00	302.00	300.00	1.98	1.99	0.00	210.00	0.00	210.00	206.03	3.97	52.907	
400.00	400.00	402.00	400.00	2.33	2.34	0.00	210.00	0.00	210.00	205.34	4.66	45.017	
500.00	500.00	502.00	500.00	2.63	2.64	0.00	210.00	0.00	210.00	204.73	5.27	39.814	
600.00	600.00	602.00	600.00	2.91	2.92	0.00	210.00	0.00	210.00	204.17	5.83	36.050	
603.03	603.03	605.03	603.03	2.91	2.92	-130.00	210.00	0.00	210.00	204.16	5.84	35.982	
700.00	700.00	702.11	700.11	3.02	3.17	-130.07	210.00	0.00	210.21	204.02	6.19	33.961	
800.00	799.96	807.90	805.88	3.31	3.47	-130.67	208.48	-0.11	210.47	203.73	6.74	31.241	
900.00	899.82	912.85	910.74	3.59	3.72	-131.92	204.11	-0.44	209.76	202.53	7.23	29.005	
951.21	950.90	963.97	961.79	3.67	3.82	-132.74	201.44	-0.65	209.54	202.13	7.41	28.279	
1,000.00	999.51	1,012.64	1,010.39	3.76	3.92	-133.66	198.90	-0.84	209.87	202.29	7.58	27.687	
1,100.00	1,099.13	1,112.39	1,110.01	3.96	4.10	-135.57	193.70	-1.23	210.82	202.84	7.98	26.425	
1,200.00	1,198.75	1,212.14	1,209.62	4.17	4.28	-137.45	188.49	-1.62	212.01	203.65	8.36	25.367	
1,300.00	1,298.37	1,315.16	1,312.47	4.37	4.39	-139.44	182.59	-2.18	212.95	204.28	8.67	24.568	
1,400.00	1,397.99	1,420.07	1,417.02	4.57	4.61	-141.76	174.02	-3.44	211.87	202.78	9.08	23.328	
1,500.00	1,497.50	1,521.89	1,518.26	4.79	4.75	-138.65	163.42	-5.30	209.64	200.22	9.42	22.264	
1,579.07	1,576.00	1,600.31	1,596.22	4.97	4.89	-138.15	155.02	-6.80	208.98	199.24	9.74	21.462	CC
1,600.00	1,596.74	1,621.03	1,616.82	5.02	4.93	-138.23	152.80	-7.19	209.03	199.20	9.82	21.281	ES
1,700.00	1,695.65	1,719.85	1,715.05	5.25	5.12	-139.58	142.21	-9.08	210.73	200.50	10.23	20.597	
1,800.00	1,794.15	1,818.28	1,812.90	5.48	5.30	-142.08	131.67	-10.95	215.18	204.54	10.64	20.222	
1,900.00	1,892.17	1,916.26	1,910.29	5.71	5.49	-145.27	121.18	-12.82	222.77	211.72	11.05	20.159	
2,000.00	1,989.70	2,013.75	2,007.21	5.85	5.67	-149.30	110.74	-14.68	233.65	222.28	11.37	20.551	
2,100.00	2,087.14	2,111.16	2,104.03	6.05	5.85	-153.72	100.31	-16.54	246.41	234.66	11.75	20.975	
2,200.00	2,184.58	2,208.56	2,200.86	6.25	6.03	-157.70	89.87	-18.40	260.52	248.40	12.12	21.493	
2,300.00	2,282.02	2,305.96	2,297.68	6.45	6.21	-161.27	79.44	-20.26	275.77	263.28	12.49	22.077	
2,400.00	2,379.46	2,403.36	2,394.51	6.66	6.40	-164.47	69.01	-22.11	291.98	279.12	12.86	22.706	
2,500.00	2,476.89	2,500.76	2,491.33	6.90	6.58	-167.33	58.58	-23.97	309.00	295.77	13.23	23.363	
2,600.00	2,574.33	2,598.17	2,588.15	7.17	6.76	-169.89	48.15	-25.83	326.71	313.11	13.59	24.033	
2,700.00	2,671.77	2,695.57	2,684.98	7.45	6.94	-172.18	37.72	-27.69	344.99	331.03	13.96	24.707	
2,800.00	2,769.21	2,792.97	2,781.80	7.73	7.12	-174.25	27.28	-29.55	363.76	349.43	14.33	25.378	
2,900.00	2,866.65	2,890.37	2,878.63	8.01	7.30	-176.12	16.85	-31.40	382.96	368.25	14.71	26.040	
3,000.00	2,964.08	2,987.78	2,975.45	8.29	7.48	-177.81	6.42	-33.26	402.51	387.43	15.08	26.690	
3,100.00	3,061.52	3,085.18	3,072.28	8.58	7.66	-179.34	-4.01	-35.12	422.37	406.91	15.46	27.325	
3,200.00	3,158.96	3,182.58	3,169.10	8.87	7.84	179.26	-14.44	-36.98	442.50	426.66	15.84	27.943	
3,300.00	3,256.40	3,279.98	3,265.92	9.16	8.02	177.99	-24.87	-38.84	462.86	446.64	16.22	28.543	
3,400.00	3,353.84	3,377.38	3,362.75	9.46	8.20	176.82	-35.31	-40.69	483.42	466.83	16.60	29.125	
3,500.00	3,451.27	3,474.79	3,459.57	9.75	8.39	175.75	-45.74	-42.55	504.17	487.18	16.98	29.687	
3,600.00	3,548.71	3,572.19	3,556.40	10.05	8.57	174.76	-56.17	-44.41	525.07	507.70	17.37	30.230	
3,700.00	3,646.15	3,669.59	3,653.22	10.34	8.75	173.85	-66.60	-46.27	546.11	528.35	17.76	30.755	
3,800.00	3,743.59	3,766.99	3,750.04	10.64	8.93	173.00	-77.03	-48.13	567.27	549.12	18.15	31.262	
3,900.00	3,841.03	3,864.39	3,846.87	10.94	9.11	172.22	-87.46	-49.98	588.54	570.01	18.54	31.750	
4,000.00	3,938.47	3,961.80	3,943.69	11.24	9.29	171.48	-97.90	-51.84	609.92	590.99	18.93	32.222	
4,100.00	4,035.90	4,059.20	4,040.52	11.54	9.47	170.80	-108.33	-53.70	631.38	612.05	19.32	32.676	
4,200.00	4,133.34	4,156.60	4,137.34	11.84	9.65	170.17	-118.76	-55.56	652.92	633.20	19.72	33.114	
4,300.00	4,230.78	4,254.00	4,234.16	12.14	9.83	169.57	-129.19	-57.41	674.53	654.42	20.11	33.537	
4,400.00	4,328.22	4,351.41	4,330.99	12.45	10.01	169.01	-139.62	-59.27	696.21	675.70	20.51	33.945	
4,500.00	4,425.66	4,448.81	4,427.81	12.75	10.19	168.49	-150.05	-61.13	717.95	697.04	20.91	34.339	
4,600.00	4,523.09	4,546.21	4,524.64	13.05	10.37	167.99	-160.49	-62.99	739.74	718.44	21.31	34.718	
4,700.00	4,620.53	4,643.61	4,621.46	13.36	10.55	167.52	-170.92	-64.85	761.59	739.88	21.71	35.085	
4,800.00	4,717.97	4,741.01	4,718.29	13.66	10.73	167.08	-181.35	-66.70	783.47	761.37	22.11	35.439	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 216H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,815.41	4,838.42	4,815.11	13.97	10.91	166.67	-191.78	-68.56	805.40	782.89	22.51	35.781	
5,000.00	4,912.85	4,935.82	4,911.93	14.27	11.09	166.27	-202.21	-70.42	827.37	804.46	22.91	36.111	
5,100.00	5,010.28	5,033.22	5,008.76	14.58	11.27	165.90	-212.64	-72.28	849.38	826.06	23.31	36.431	
5,200.00	5,107.72	5,130.62	5,105.58	14.89	11.45	165.54	-223.08	-74.14	871.41	847.70	23.72	36.740	
5,300.00	5,205.30	5,228.15	5,202.53	15.16	11.63	165.25	-233.52	-76.00	892.89	868.79	24.10	37.052	
5,400.00	5,303.38	5,326.12	5,299.92	15.44	11.81	164.95	-244.01	-77.86	912.05	887.54	24.51	37.211	
5,500.00	5,401.95	5,424.51	5,397.72	15.69	11.99	164.62	-254.55	-79.74	928.75	903.84	24.92	37.275	
5,600.00	5,500.92	5,523.24	5,495.87	15.91	12.18	164.25	-265.12	-81.62	943.01	917.70	25.32	37.250	
5,700.00	5,600.23	5,622.24	5,594.28	16.10	12.36	163.83	-275.73	-83.51	954.83	929.13	25.71	37.142	
5,800.00	5,699.82	5,721.45	5,692.91	16.26	12.54	163.38	-286.35	-85.41	964.22	938.13	26.09	36.958	
5,900.00	5,799.60	5,820.80	5,791.67	16.39	12.73	162.88	-296.99	-87.30	971.18	944.72	26.46	36.703	
6,000.00	5,899.53	5,920.23	5,890.50	16.50	12.91	162.33	-307.64	-89.20	975.74	948.92	26.82	36.387	
6,100.00	5,999.52	6,019.65	5,989.34	16.57	13.10	-85.36	-318.29	-91.09	977.90	950.81	27.09	36.092	
6,200.00	6,099.52	6,119.06	6,088.15	16.62	13.28	-85.99	-328.94	-92.99	979.00	951.67	27.33	35.824	
6,300.00	6,199.52	6,218.47	6,186.97	16.66	13.46	-86.62	-339.58	-94.89	980.22	952.66	27.56	35.563	
6,400.00	6,299.52	6,317.87	6,285.79	16.70	13.65	-87.25	-350.23	-96.78	981.56	953.76	27.80	35.310	
6,500.00	6,399.52	6,417.28	6,384.60	16.74	13.83	-87.87	-360.87	-98.68	983.02	954.99	28.03	35.065	
6,600.00	6,499.52	6,516.69	6,483.42	16.79	14.01	-88.49	-371.52	-100.57	984.60	956.33	28.27	34.827	
6,700.00	6,599.52	6,616.09	6,582.23	16.83	14.19	-89.12	-382.17	-102.47	986.29	957.79	28.50	34.606	
6,800.00	6,699.52	6,720.08	6,685.75	16.88	14.38	-89.68	-391.92	-104.21	987.87	959.14	28.73	34.386	
6,900.00	6,799.52	6,824.55	6,789.97	16.92	14.57	-90.09	-398.93	-105.46	989.05	960.11	28.94	34.174	
7,000.00	6,899.52	6,929.33	6,894.67	16.96	14.75	-90.33	-403.13	-106.20	989.78	960.66	29.13	33.983	
7,100.00	6,999.52	7,034.20	6,999.52	17.01	14.87	-90.41	-404.51	-106.45	990.03	960.77	29.26	33.839	
7,200.00	7,099.52	7,134.20	7,099.52	17.05	14.88	-90.41	-404.51	-106.45	990.03	960.72	29.31	33.779	
7,300.00	7,199.52	7,234.20	7,199.52	17.10	14.91	-90.41	-404.51	-106.45	990.03	960.65	29.38	33.702	
7,400.00	7,299.52	7,334.20	7,299.52	17.15	14.94	-90.41	-404.51	-106.45	990.03	960.58	29.44	33.625	
7,500.00	7,399.52	7,434.20	7,399.52	17.19	14.96	-90.41	-404.51	-106.45	990.03	960.51	29.51	33.547	
7,600.00	7,499.52	7,534.20	7,499.52	17.24	14.99	-90.41	-404.51	-106.45	990.03	960.44	29.58	33.468	
7,700.00	7,599.52	7,634.20	7,599.52	17.28	15.02	-90.41	-404.51	-106.45	990.03	960.37	29.65	33.390	
7,800.00	7,699.52	7,734.20	7,699.52	17.33	15.04	-90.41	-404.51	-106.45	990.03	960.30	29.72	33.310	
7,900.00	7,799.52	7,834.20	7,799.52	17.38	15.07	-90.41	-404.51	-106.45	990.03	960.23	29.79	33.231	
8,000.00	7,899.52	7,934.20	7,899.52	17.43	15.10	-90.41	-404.51	-106.45	990.03	960.16	29.86	33.151	
8,100.00	7,999.52	8,034.20	7,999.52	17.47	15.13	-90.41	-404.51	-106.45	990.03	960.09	29.94	33.070	
8,200.00	8,099.52	8,134.20	8,099.52	17.52	15.16	-90.41	-404.51	-106.45	990.03	960.02	30.01	32.989	
8,300.00	8,199.52	8,234.20	8,199.52	17.57	15.19	-90.41	-404.51	-106.45	990.03	959.94	30.08	32.908	
8,400.00	8,299.52	8,334.20	8,299.52	17.62	15.22	-90.41	-404.51	-106.45	990.03	959.87	30.16	32.827	
8,500.00	8,399.52	8,434.20	8,399.52	17.67	15.25	-90.41	-404.51	-106.45	990.03	959.79	30.23	32.745	
8,600.00	8,499.52	8,534.20	8,499.52	17.71	15.28	-90.41	-404.51	-106.45	990.03	959.71	30.31	32.663	
8,700.00	8,599.52	8,634.20	8,599.52	17.76	15.31	-90.41	-404.51	-106.45	990.03	959.64	30.39	32.580	
8,800.00	8,699.52	8,734.20	8,699.52	17.81	15.34	-90.41	-404.51	-106.45	990.03	959.56	30.47	32.497	
8,900.00	8,799.52	8,834.20	8,799.52	17.86	15.37	-90.41	-404.51	-106.45	990.03	959.48	30.54	32.414	
9,000.00	8,899.52	8,934.20	8,899.52	17.91	15.41	-90.41	-404.51	-106.45	990.03	959.40	30.62	32.331	
9,100.00	8,999.52	9,034.20	8,999.52	17.96	15.44	-90.41	-404.51	-106.45	990.03	959.32	30.70	32.247	
9,200.00	9,099.52	9,134.20	9,099.52	18.01	15.47	-90.41	-404.51	-106.45	990.03	959.24	30.78	32.163	
9,300.00	9,199.52	9,234.20	9,199.52	18.06	15.50	-90.41	-404.51	-106.45	990.03	959.16	30.86	32.079	
9,400.00	9,299.52	9,334.20	9,299.52	18.11	15.54	-90.41	-404.51	-106.45	990.03	959.08	30.94	31.994	
9,500.00	9,399.52	9,434.20	9,399.52	18.16	15.57	-90.41	-404.51	-106.45	990.03	959.00	31.03	31.910	
9,600.00	9,499.52	9,534.20	9,499.52	18.22	15.61	-90.41	-404.51	-106.45	990.03	958.92	31.11	31.825	
9,700.00	9,599.52	9,634.20	9,599.52	18.27	15.64	-90.41	-404.51	-106.45	990.03	958.83	31.19	31.740	
9,800.00	9,699.52	9,734.20	9,699.52	18.32	15.68	-90.41	-404.51	-106.45	990.03	958.75	31.28	31.655	
9,900.00	9,799.52	9,834.20	9,799.52	18.37	15.71	-90.41	-404.51	-106.45	990.03	958.67	31.36	31.569	
10,000.00	9,899.52	9,934.20	9,899.52	18.42	15.75	-90.41	-404.51	-106.45	990.03	958.58	31.45	31.484	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 216H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.00	9,999.52	10,034.20	9,999.52	18.47	15.78	-90.41	-404.51	-106.45	990.03	958.49	31.53	31.398	
10,200.00	10,099.52	10,134.20	10,099.52	18.53	15.82	-90.41	-404.51	-106.45	990.03	958.41	31.62	31.312	
10,300.00	10,199.52	10,234.20	10,199.52	18.58	15.86	-90.41	-404.51	-106.45	990.03	958.32	31.70	31.227	
10,400.00	10,299.52	10,334.20	10,299.52	18.63	15.89	-90.41	-404.51	-106.45	990.03	958.23	31.79	31.141	
10,500.00	10,399.52	10,434.20	10,399.52	18.69	15.93	-90.41	-404.51	-106.45	990.03	958.15	31.88	31.054	
10,600.00	10,499.52	10,534.20	10,499.52	18.74	15.97	-90.41	-404.51	-106.45	990.03	958.06	31.97	30.968	
10,700.00	10,599.52	10,634.20	10,599.52	18.79	16.01	-90.41	-404.51	-106.45	990.03	957.97	32.06	30.882	
10,800.00	10,699.52	10,734.20	10,699.52	18.85	16.04	-90.41	-404.51	-106.45	990.03	957.88	32.15	30.795	
10,900.00	10,799.52	10,834.20	10,799.52	18.90	16.08	-90.41	-404.51	-106.45	990.03	957.79	32.24	30.709	
11,000.00	10,899.52	10,934.20	10,899.52	18.95	16.12	-90.41	-404.51	-106.45	990.03	957.70	32.33	30.622	
11,100.00	10,999.52	11,034.20	10,999.52	19.01	16.16	-90.41	-404.51	-106.45	990.03	957.60	32.42	30.536	
11,200.00	11,099.52	11,134.20	11,099.52	19.06	16.20	-90.41	-404.51	-106.45	990.03	957.51	32.51	30.449	
11,300.00	11,199.52	11,234.20	11,199.52	19.12	16.24	-90.41	-404.51	-106.45	990.03	957.42	32.61	30.363	
11,400.00	11,299.52	11,334.20	11,299.52	19.17	16.28	-90.41	-404.51	-106.45	990.03	957.33	32.70	30.276	
11,500.00	11,399.52	11,434.20	11,399.52	19.23	16.32	-90.41	-404.51	-106.45	990.03	957.23	32.79	30.189	
11,503.66	11,403.18	11,437.86	11,403.18	19.23	16.32	90.11	-404.51	-106.45	990.03	957.23	32.80	30.187	
11,600.00	11,499.47	11,534.15	11,499.47	19.29	16.36	90.21	-404.51	-106.45	990.03	957.17	32.86	30.128	
11,700.00	11,597.96	11,632.64	11,597.96	19.45	16.40	91.13	-404.51	-106.45	990.23	957.30	32.93	30.068	
11,800.00	11,692.07	11,726.75	11,692.07	19.66	16.44	92.82	-404.51	-106.45	991.48	958.44	33.04	30.006	
11,900.00	11,778.95	11,813.63	11,778.95	19.93	16.48	94.89	-404.51	-106.45	995.36	962.17	33.19	29.991	
12,000.00	11,855.96	11,890.64	11,855.96	20.27	16.51	96.84	-404.51	-106.45	1,003.93	970.57	33.37	30.088	
12,100.00	11,920.75	12,001.56	11,966.19	20.70	16.75	99.83	-415.20	-106.35	1,017.82	984.08	33.74	30.168	
12,200.00	11,971.37	12,143.44	12,100.64	21.23	17.14	103.32	-459.36	-105.95	1,035.28	1,000.54	34.74	29.798	
12,300.00	12,006.26	12,339.76	12,260.49	21.86	17.66	107.54	-571.67	-104.93	1,053.49	1,016.34	37.15	28.360	
12,400.00	12,024.37	12,588.05	12,393.13	22.58	18.88	111.05	-779.16	-103.04	1,066.48	1,025.38	41.10	25.949	
12,500.00	12,027.30	12,835.96	12,429.20	23.37	21.41	112.10	-1,022.72	-100.83	1,068.49	1,023.54	44.95	23.768	
12,600.00	12,028.00	12,935.96	12,429.73	24.23	22.51	112.09	-1,122.72	-99.92	1,068.42	1,021.77	46.66	22.899	
12,700.00	12,028.71	13,035.96	12,430.25	25.13	23.64	112.08	-1,222.71	-99.01	1,068.35	1,019.92	48.44	22.056	
12,800.00	12,029.42	13,135.96	12,430.78	26.08	24.79	112.07	-1,322.71	-98.10	1,068.29	1,018.00	50.29	21.245	
12,900.00	12,030.13	13,235.96	12,431.30	27.06	25.97	112.06	-1,422.70	-97.20	1,068.22	1,016.02	52.19	20.467	
13,000.00	12,030.84	13,335.96	12,431.83	28.07	27.16	112.05	-1,522.70	-96.29	1,068.15	1,013.99	54.16	19.724	
13,100.00	12,031.55	13,435.96	12,432.35	29.10	28.37	112.04	-1,622.69	-95.38	1,068.08	1,011.91	56.17	19.016	
13,200.00	12,032.26	13,535.96	12,432.88	30.17	29.59	112.03	-1,722.68	-94.47	1,068.01	1,009.79	58.22	18.344	
13,300.00	12,032.97	13,635.96	12,433.40	31.25	30.82	112.02	-1,822.68	-93.56	1,067.94	1,007.62	60.32	17.706	
13,400.00	12,033.68	13,735.96	12,433.93	32.36	32.07	112.01	-1,922.67	-92.65	1,067.87	1,005.42	62.45	17.101	
13,500.00	12,034.39	13,835.96	12,434.45	33.49	33.33	112.00	-2,022.67	-91.74	1,067.80	1,003.19	64.61	16.528	
13,600.00	12,035.10	13,935.96	12,434.98	34.63	34.59	111.99	-2,122.66	-90.83	1,067.73	1,000.93	66.80	15.985	
13,700.00	12,035.80	14,035.96	12,435.50	35.78	35.86	111.99	-2,222.66	-89.92	1,067.66	998.65	69.01	15.470	
13,800.00	12,036.51	14,135.96	12,436.03	36.95	37.14	111.98	-2,322.65	-89.02	1,067.59	996.34	71.25	14.983	
13,900.00	12,037.22	14,235.96	12,436.55	38.14	38.42	111.97	-2,422.64	-88.11	1,067.52	994.01	73.52	14.521	
14,000.00	12,037.93	14,335.96	12,437.08	39.33	39.72	111.96	-2,522.64	-87.20	1,067.45	991.66	75.80	14.083	
14,100.00	12,038.64	14,435.96	12,437.60	40.54	41.01	111.95	-2,622.63	-86.29	1,067.39	989.29	78.10	13.667	
14,200.00	12,039.35	14,535.96	12,438.13	41.75	42.31	111.94	-2,722.63	-85.38	1,067.32	986.90	80.41	13.273	
14,300.00	12,040.06	14,635.96	12,438.65	42.97	43.62	111.93	-2,822.62	-84.47	1,067.25	984.50	82.74	12.898	
14,400.00	12,040.77	14,735.96	12,439.18	44.20	44.92	111.92	-2,922.62	-83.56	1,067.18	982.09	85.09	12.542	
14,500.00	12,041.48	14,835.96	12,439.71	45.44	46.24	111.91	-3,022.61	-82.65	1,067.11	979.66	87.45	12.203	
14,600.00	12,042.19	14,935.96	12,440.23	46.69	47.55	111.90	-3,122.60	-81.74	1,067.04	977.22	89.82	11.880	
14,700.00	12,042.89	15,035.96	12,440.76	47.94	48.87	111.89	-3,222.60	-80.84	1,066.97	974.77	92.20	11.573	
14,800.00	12,043.60	15,135.96	12,441.28	49.20	50.19	111.88	-3,322.59	-79.93	1,066.90	972.31	94.59	11.279	
14,900.00	12,044.31	15,235.96	12,441.81	50.46	51.51	111.88	-3,422.59	-79.02	1,066.83	969.85	96.99	11.000	
15,000.00	12,045.02	15,335.96	12,442.33	51.73	52.84	111.87	-3,522.58	-78.11	1,066.77	967.37	99.40	10.732	
15,100.00	12,045.73	15,435.96	12,442.86	53.01	54.17	111.86	-3,622.58	-77.20	1,066.70	964.88	101.82	10.477	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 216H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,200.00	12,046.44	15,535.96	12,443.38	54.28	55.50	111.85	-3,722.57	-76.29	1,066.63	962.39	104.24	10.232	
15,300.00	12,047.15	15,635.96	12,443.91	55.57	56.83	111.84	-3,822.56	-75.38	1,066.56	959.89	106.67	9.998	
15,400.00	12,047.86	15,735.96	12,444.43	56.85	58.16	111.83	-3,922.56	-74.47	1,066.49	957.38	109.11	9.774	
15,500.00	12,048.57	15,835.96	12,444.96	58.14	59.50	111.82	-4,022.55	-73.56	1,066.42	954.87	111.56	9.560	
15,600.00	12,049.28	15,935.96	12,445.48	59.44	60.83	111.81	-4,122.55	-72.66	1,066.35	952.35	114.01	9.353	
15,700.00	12,049.99	16,035.96	12,446.01	60.73	62.17	111.80	-4,222.54	-71.75	1,066.28	949.82	116.46	9.156	
15,800.00	12,050.69	16,135.96	12,446.53	62.03	63.51	111.79	-4,322.54	-70.84	1,066.22	947.29	118.92	8.966	
15,900.00	12,051.40	16,235.96	12,447.06	63.33	64.85	111.78	-4,422.53	-69.93	1,066.15	944.76	121.39	8.783	
16,000.00	12,052.11	16,335.96	12,447.58	64.64	66.19	111.77	-4,522.53	-69.02	1,066.08	942.22	123.86	8.607	
16,100.00	12,052.82	16,435.96	12,448.11	65.95	67.54	111.77	-4,622.52	-68.11	1,066.01	939.67	126.34	8.438	
16,200.00	12,053.53	16,535.96	12,448.63	67.26	68.88	111.76	-4,722.51	-67.20	1,065.94	937.13	128.82	8.275	
16,300.00	12,054.24	16,635.96	12,449.16	68.57	70.23	111.75	-4,822.51	-66.29	1,065.87	934.57	131.30	8.118	
16,400.00	12,054.95	16,735.96	12,449.68	69.88	71.57	111.74	-4,922.50	-65.39	1,065.81	932.02	133.79	7.966	
16,500.00	12,055.66	16,835.96	12,450.21	71.20	72.92	111.73	-5,022.50	-64.48	1,065.74	929.46	136.28	7.820	
16,600.00	12,056.37	16,935.96	12,450.73	72.52	74.27	111.72	-5,122.49	-63.57	1,065.67	926.90	138.77	7.679	
16,700.00	12,057.08	17,035.96	12,451.26	73.84	75.62	111.71	-5,222.49	-62.66	1,065.60	924.33	141.27	7.543	
16,800.00	12,057.79	17,135.96	12,451.78	75.16	76.97	111.70	-5,322.48	-61.75	1,065.53	921.76	143.77	7.412	
16,900.00	12,058.49	17,235.96	12,452.31	76.48	78.31	111.69	-5,422.47	-60.84	1,065.46	919.19	146.27	7.284	
17,000.00	12,059.20	17,335.96	12,452.83	77.81	79.67	111.68	-5,522.47	-59.93	1,065.40	916.62	148.78	7.161	
17,100.00	12,059.91	17,435.96	12,453.36	79.14	81.02	111.67	-5,622.46	-59.02	1,065.33	914.04	151.28	7.042	
17,200.00	12,060.62	17,535.96	12,453.88	80.46	82.37	111.66	-5,722.46	-58.11	1,065.26	911.46	153.80	6.926	
17,300.00	12,061.33	17,635.96	12,454.41	81.79	83.72	111.66	-5,822.45	-57.21	1,065.19	908.88	156.31	6.815	
17,400.00	12,062.04	17,735.96	12,454.93	83.12	85.07	111.65	-5,922.45	-56.30	1,065.12	906.30	158.82	6.706	
17,500.00	12,062.75	17,835.96	12,455.46	84.45	86.43	111.64	-6,022.44	-55.39	1,065.05	903.71	161.34	6.601	
17,600.00	12,063.46	17,935.96	12,455.98	85.79	87.78	111.63	-6,122.43	-54.48	1,064.99	901.12	163.86	6.499	
17,700.00	12,064.17	18,035.96	12,456.51	87.12	89.14	111.62	-6,222.43	-53.57	1,064.92	898.53	166.38	6.400	
17,800.00	12,064.88	18,135.96	12,457.03	88.46	90.49	111.61	-6,322.42	-52.66	1,064.85	895.94	168.91	6.304	
17,900.00	12,065.59	18,235.96	12,457.56	89.79	91.85	111.60	-6,422.42	-51.75	1,064.78	893.35	171.43	6.211	
18,000.00	12,066.29	18,335.96	12,458.08	91.13	93.20	111.59	-6,522.41	-50.84	1,064.71	890.75	173.96	6.120	
18,100.00	12,067.00	18,435.96	12,458.61	92.47	94.56	111.58	-6,622.41	-49.93	1,064.65	888.16	176.49	6.032	
18,200.00	12,067.71	18,535.96	12,459.13	93.81	95.91	111.57	-6,722.40	-49.03	1,064.58	885.56	179.02	5.947	
18,300.00	12,068.42	18,635.95	12,459.66	95.15	97.27	111.56	-6,822.39	-48.12	1,064.51	882.96	181.55	5.863	
18,400.00	12,069.13	18,735.95	12,460.18	96.49	98.63	111.55	-6,922.39	-47.21	1,064.44	880.35	184.09	5.782	
18,500.00	12,069.84	18,835.95	12,460.71	97.83	99.99	111.55	-7,022.38	-46.30	1,064.37	877.75	186.62	5.703	
18,600.00	12,070.55	18,935.95	12,461.23	99.17	101.34	111.54	-7,122.38	-45.39	1,064.31	875.15	189.16	5.626	
18,700.00	12,071.26	19,035.95	12,461.76	100.51	102.70	111.53	-7,222.37	-44.48	1,064.24	872.54	191.70	5.552	
18,800.00	12,071.97	19,135.95	12,462.28	101.86	104.06	111.52	-7,322.37	-43.57	1,064.17	869.93	194.24	5.479	
18,900.00	12,072.68	19,235.95	12,462.81	103.20	105.42	111.51	-7,422.36	-42.66	1,064.10	867.32	196.78	5.408	
19,000.00	12,073.39	19,335.95	12,463.33	104.55	106.78	111.50	-7,522.35	-41.75	1,064.04	864.71	199.32	5.338	
19,100.00	12,074.09	19,435.95	12,463.86	105.89	108.14	111.49	-7,622.35	-40.85	1,063.97	862.10	201.87	5.271	
19,200.00	12,074.80	19,535.95	12,464.38	107.24	109.50	111.48	-7,722.34	-39.94	1,063.90	859.49	204.41	5.205	
19,300.00	12,075.51	19,635.95	12,464.91	108.58	110.86	111.47	-7,822.34	-39.03	1,063.83	856.87	206.96	5.140	
19,400.00	12,076.22	19,735.95	12,465.43	109.93	112.22	111.46	-7,922.33	-38.12	1,063.77	854.26	209.51	5.077	
19,500.00	12,076.93	19,835.95	12,465.96	111.28	113.58	111.45	-8,022.33	-37.21	1,063.70	851.64	212.06	5.016	
19,600.00	12,077.64	19,935.95	12,466.48	112.63	114.94	111.44	-8,122.32	-36.30	1,063.63	849.02	214.61	4.956	
19,700.00	12,078.35	20,035.95	12,467.01	113.98	116.30	111.43	-8,222.32	-35.39	1,063.56	846.41	217.16	4.898	
19,800.00	12,079.06	20,135.95	12,467.53	115.33	117.66	111.43	-8,322.31	-34.48	1,063.50	843.79	219.71	4.840	
19,900.00	12,079.77	20,235.95	12,468.06	116.68	119.02	111.42	-8,422.30	-33.57	1,063.43	841.17	222.26	4.785	
20,000.00	12,080.48	20,335.95	12,468.58	118.03	120.38	111.41	-8,522.30	-32.67	1,063.36	838.54	224.82	4.730	
20,100.00	12,081.18	20,435.95	12,469.11	119.38	121.74	111.40	-8,622.29	-31.76	1,063.29	835.92	227.37	4.676	
20,200.00	12,081.89	20,535.95	12,469.63	120.73	123.11	111.39	-8,722.29	-30.85	1,063.23	833.30	229.93	4.624	
20,300.00	12,082.60	20,635.95	12,470.16	122.08	124.47	111.38	-8,822.28	-29.94	1,063.16	830.67	232.48	4.573	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 216H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,400.00	12,083.31	20,735.95	12,470.68	123.43	125.83	111.37	-8,922.28	-29.03	1,063.09	828.05	235.04	4.523	
20,500.00	12,084.02	20,835.95	12,471.21	124.78	127.19	111.36	-9,022.27	-28.12	1,063.02	825.42	237.60	4.474	
20,600.00	12,084.73	20,935.95	12,471.73	126.14	128.55	111.35	-9,122.26	-27.21	1,062.96	822.80	240.16	4.426	
20,700.00	12,085.44	21,035.95	12,472.26	127.49	129.92	111.34	-9,222.26	-26.30	1,062.89	820.17	242.72	4.379	
20,800.00	12,086.15	21,135.95	12,472.78	128.84	131.28	111.33	-9,322.25	-25.39	1,062.82	817.54	245.28	4.333	
20,900.00	12,086.86	21,235.95	12,473.31	130.20	132.64	111.32	-9,422.25	-24.49	1,062.75	814.91	247.84	4.288	
21,000.00	12,087.57	21,335.95	12,473.83	131.55	134.00	111.31	-9,522.24	-23.58	1,062.69	812.28	250.41	4.244	
21,100.00	12,088.28	21,435.95	12,474.36	132.90	135.37	111.31	-9,622.24	-22.67	1,062.62	809.65	252.97	4.201	
21,200.00	12,088.98	21,535.95	12,474.88	134.26	136.73	111.30	-9,722.23	-21.76	1,062.55	807.02	255.53	4.158	
21,300.00	12,089.69	21,635.95	12,475.41	135.61	138.09	111.29	-9,822.22	-20.85	1,062.49	804.39	258.10	4.117	
21,400.00	12,090.40	21,735.95	12,475.93	136.97	139.46	111.28	-9,922.22	-19.94	1,062.42	801.76	260.66	4.076	
21,500.00	12,091.11	21,835.95	12,476.46	138.32	140.82	111.27	-10,022.21	-19.03	1,062.35	799.12	263.23	4.036	
21,600.00	12,091.82	21,935.95	12,476.98	139.68	142.18	111.26	-10,122.21	-18.12	1,062.29	796.49	265.80	3.997	
21,700.00	12,092.53	22,035.95	12,477.51	141.04	143.55	111.25	-10,222.20	-17.22	1,062.22	793.85	268.36	3.958	
21,800.00	12,093.24	22,135.95	12,478.03	142.39	144.91	111.24	-10,322.20	-16.31	1,062.15	791.22	270.93	3.920	
21,900.00	12,093.95	22,235.95	12,478.56	143.75	146.28	111.23	-10,422.19	-15.40	1,062.08	788.58	273.50	3.883	
22,000.00	12,094.66	22,335.95	12,479.08	145.11	147.64	111.22	-10,522.18	-14.49	1,062.02	785.95	276.07	3.847	
22,100.00	12,095.37	22,435.95	12,479.61	146.46	149.00	111.21	-10,622.18	-13.58	1,061.95	783.31	278.64	3.811	
22,200.00	12,096.08	22,535.95	12,480.14	147.82	150.37	111.20	-10,722.17	-12.67	1,061.88	780.67	281.21	3.776	
22,300.00	12,096.78	22,635.95	12,480.66	149.18	151.73	111.19	-10,822.17	-11.76	1,061.82	778.03	283.79	3.742	
22,383.56	12,097.38	22,719.50	12,481.10	150.31	152.84	111.19	-10,905.72	-11.00	1,061.76	775.86	285.91	3.714	
22,386.82	12,097.40	22,719.79	12,481.10	150.36	152.85	111.19	-10,906.00	-11.00	1,061.76	775.84	285.92	3.713	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 217H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
3,200.00	3,158.96	3,829.65	3,781.83	8.87	9.76	148.57	-575.29	-1,940.87	2,428.05	2,410.26	17.79	136.463	
3,300.00	3,256.40	3,928.19	3,877.02	9.16	10.06	148.94	-567.59	-1,916.56	2,421.42	2,403.18	18.24	132.723	
3,400.00	3,353.84	4,026.74	3,972.21	9.46	10.36	149.31	-559.88	-1,892.24	2,414.90	2,396.20	18.70	129.162	
3,500.00	3,451.27	4,125.28	4,067.39	9.75	10.66	149.68	-552.18	-1,867.92	2,408.48	2,389.33	19.15	125.769	
3,600.00	3,548.71	4,223.83	4,162.58	10.05	10.97	150.05	-544.48	-1,843.61	2,402.16	2,382.55	19.60	122.532	
3,700.00	3,646.15	4,322.37	4,257.77	10.34	11.28	150.42	-536.78	-1,819.29	2,395.94	2,375.88	20.06	119.442	
3,800.00	3,743.59	4,420.92	4,352.96	10.64	11.59	150.80	-529.08	-1,794.97	2,389.83	2,369.32	20.52	116.491	
3,900.00	3,841.03	4,519.47	4,448.14	10.94	11.90	151.17	-521.38	-1,770.66	2,383.83	2,362.86	20.97	113.669	
4,000.00	3,938.47	4,618.01	4,543.33	11.24	12.22	151.55	-513.67	-1,746.34	2,377.93	2,356.50	21.43	110.970	
4,100.00	4,035.90	4,716.56	4,638.52	11.54	12.53	151.93	-505.97	-1,722.02	2,372.14	2,350.25	21.89	108.385	
4,200.00	4,133.34	4,815.10	4,733.70	11.84	12.85	152.32	-498.27	-1,697.71	2,366.45	2,344.11	22.34	105.908	
4,300.00	4,230.78	4,913.65	4,828.89	12.14	13.17	152.70	-490.57	-1,673.39	2,360.88	2,338.08	22.80	103.533	
4,400.00	4,328.22	5,012.19	4,924.08	12.45	13.49	153.09	-482.87	-1,649.08	2,355.41	2,332.15	23.26	101.254	
4,500.00	4,425.66	5,110.74	5,019.27	12.75	13.81	153.48	-475.17	-1,624.76	2,350.06	2,326.34	23.72	99.067	
4,600.00	4,523.09	5,209.28	5,114.45	13.05	14.13	153.87	-467.46	-1,600.44	2,344.81	2,320.63	24.18	96.965	
4,700.00	4,620.53	5,307.83	5,209.64	13.36	14.46	154.26	-459.76	-1,576.13	2,339.68	2,315.04	24.64	94.946	
4,800.00	4,717.97	5,400.00	5,298.67	13.66	14.75	154.63	-452.56	-1,553.39	2,334.68	2,309.60	25.08	93.078	
4,900.00	4,815.41	5,462.71	5,359.42	13.97	14.95	154.87	-447.85	-1,538.52	2,330.78	2,305.29	25.49	91.434	
5,000.00	4,912.85	5,524.79	5,419.78	14.27	15.14	155.11	-443.49	-1,524.74	2,328.55	2,302.65	25.89	89.931	
5,100.00	5,010.28	5,600.00	5,493.23	14.58	15.36	155.39	-438.60	-1,509.30	2,328.03	2,301.71	26.31	88.474	
5,107.09	5,017.19	5,600.00	5,493.23	14.60	15.36	155.39	-438.60	-1,509.30	2,328.02	2,301.68	26.33	88.410	
5,200.00	5,107.72	5,649.22	5,541.46	14.89	15.49	155.57	-435.63	-1,499.95	2,329.04	2,302.37	26.67	87.318	
5,300.00	5,205.30	5,700.00	5,591.35	15.16	15.62	155.76	-432.77	-1,490.91	2,331.24	2,304.24	27.00	86.338	
5,400.00	5,303.38	5,774.03	5,664.29	15.44	15.80	156.00	-428.96	-1,478.88	2,332.71	2,305.31	27.40	85.141	
5,500.00	5,401.95	5,836.65	5,726.18	15.69	15.94	156.18	-426.07	-1,469.76	2,333.46	2,305.71	27.75	84.082	
5,600.00	5,500.92	5,900.00	5,788.93	15.91	16.07	156.33	-423.46	-1,461.51	2,333.43	2,305.34	28.09	83.071	
5,700.00	5,600.23	5,962.26	5,850.74	16.10	16.18	156.45	-421.20	-1,454.38	2,332.61	2,304.20	28.40	82.128	
5,800.00	5,699.82	6,025.22	5,913.36	16.26	16.29	156.54	-419.23	-1,448.14	2,330.98	2,302.28	28.70	81.230	
5,900.00	5,799.60	6,100.00	5,987.86	16.39	16.41	156.62	-417.29	-1,442.01	2,328.59	2,299.59	29.00	80.300	
6,000.00	5,899.53	6,151.39	6,039.12	16.50	16.47	156.64	-416.21	-1,438.61	2,325.29	2,296.07	29.21	79.599	
6,100.00	5,999.52	6,200.00	6,087.66	16.57	16.53	-90.44	-415.38	-1,435.99	2,321.29	2,291.95	29.34	79.125	
6,200.00	6,099.52	6,277.79	6,165.39	16.62	16.61	-90.42	-414.44	-1,433.03	2,317.58	2,288.10	29.48	78.615	
6,300.00	6,199.52	6,341.09	6,228.67	16.66	16.67	-90.41	-414.03	-1,431.74	2,315.53	2,285.98	29.55	78.349	
6,400.00	6,299.52	6,411.94	6,299.52	16.70	16.71	-90.41	-413.93	-1,431.42	2,315.03	2,285.41	29.62	78.170	
6,500.00	6,399.52	6,511.94	6,399.52	16.74	16.77	-90.41	-413.93	-1,431.42	2,315.03	2,285.31	29.72	77.905	
6,600.00	6,499.52	6,611.94	6,499.52	16.79	16.83	-90.41	-413.93	-1,431.42	2,315.03	2,285.21	29.82	77.640	
6,700.00	6,599.52	6,711.94	6,599.52	16.83	16.89	-90.41	-413.93	-1,431.42	2,315.03	2,285.11	29.92	77.375	
6,800.00	6,699.52	6,811.94	6,699.52	16.88	16.94	-90.41	-413.93	-1,431.42	2,315.03	2,285.01	30.02	77.111	
6,900.00	6,799.52	6,911.94	6,799.52	16.92	17.00	-90.41	-413.93	-1,431.42	2,315.03	2,284.90	30.13	76.847	
7,000.00	6,899.52	7,011.94	6,899.52	16.96	17.06	-90.41	-413.93	-1,431.42	2,315.03	2,284.80	30.23	76.584	
7,100.00	6,999.52	7,111.94	6,999.52	17.01	17.12	-90.41	-413.93	-1,431.42	2,315.03	2,284.70	30.33	76.321	
7,200.00	7,099.52	7,211.94	7,099.52	17.05	17.18	-90.41	-413.93	-1,431.42	2,315.03	2,284.59	30.44	76.059	
7,300.00	7,199.52	7,311.94	7,199.52	17.10	17.24	-90.41	-413.93	-1,431.42	2,315.03	2,284.49	30.54	75.797	
7,400.00	7,299.52	7,411.94	7,299.52	17.15	17.30	-90.41	-413.93	-1,431.42	2,315.03	2,284.38	30.65	75.536	
7,500.00	7,399.52	7,511.94	7,399.52	17.19	17.36	-90.41	-413.93	-1,431.42	2,315.03	2,284.28	30.75	75.276	
7,600.00	7,499.52	7,611.94	7,499.52	17.24	17.42	-90.41	-413.93	-1,431.42	2,315.03	2,284.17	30.86	75.016	
7,700.00	7,599.52	7,711.94	7,599.52	17.28	17.48	-90.41	-413.93	-1,431.42	2,315.03	2,284.06	30.97	74.756	
7,800.00	7,699.52	7,811.94	7,699.52	17.33	17.54	-90.41	-413.93	-1,431.42	2,315.03	2,283.95	31.08	74.498	
7,900.00	7,799.52	7,911.94	7,799.52	17.38	17.60	-90.41	-413.93	-1,431.42	2,315.03	2,283.85	31.18	74.240	
8,000.00	7,899.52	8,011.94	7,899.52	17.43	17.66	-90.41	-413.93	-1,431.42	2,315.03	2,283.74	31.29	73.982	
8,100.00	7,999.52	8,111.94	7,999.52	17.47	17.72	-90.41	-413.93	-1,431.42	2,315.03	2,283.63	31.40	73.726	
8,200.00	8,099.52	8,211.94	8,099.52	17.52	17.78	-90.41	-413.93	-1,431.42	2,315.03	2,283.52	31.51	73.470	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 217H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,300.00	8,199.52	8,311.94	8,199.52	17.57	17.84	-90.41	-413.93	-1,431.42	2,315.03	2,283.41	31.62	73.214	
8,400.00	8,299.52	8,411.94	8,299.52	17.62	17.90	-90.41	-413.93	-1,431.42	2,315.03	2,283.30	31.73	72.960	
8,500.00	8,399.52	8,511.94	8,399.52	17.67	17.96	-90.41	-413.93	-1,431.42	2,315.03	2,283.19	31.84	72.706	
8,600.00	8,499.52	8,611.94	8,499.52	17.71	18.02	-90.41	-413.93	-1,431.42	2,315.03	2,283.08	31.95	72.453	
8,700.00	8,599.52	8,711.94	8,599.52	17.76	18.08	-90.41	-413.93	-1,431.42	2,315.03	2,282.97	32.06	72.201	
8,800.00	8,699.52	8,811.94	8,699.52	17.81	18.15	-90.41	-413.93	-1,431.42	2,315.03	2,282.85	32.18	71.949	
8,900.00	8,799.52	8,911.94	8,799.52	17.86	18.21	-90.41	-413.93	-1,431.42	2,315.03	2,282.74	32.29	71.698	
9,000.00	8,899.52	9,011.94	8,899.52	17.91	18.27	-90.41	-413.93	-1,431.42	2,315.03	2,282.63	32.40	71.448	
9,100.00	8,999.52	9,111.94	8,999.52	17.96	18.33	-90.41	-413.93	-1,431.42	2,315.03	2,282.51	32.51	71.199	
9,200.00	9,099.52	9,211.94	9,099.52	18.01	18.39	-90.41	-413.93	-1,431.42	2,315.03	2,282.40	32.63	70.951	
9,300.00	9,199.52	9,311.94	9,199.52	18.06	18.46	-90.41	-413.93	-1,431.42	2,315.03	2,282.29	32.74	70.704	
9,400.00	9,299.52	9,411.94	9,299.52	18.11	18.52	-90.41	-413.93	-1,431.42	2,315.03	2,282.17	32.86	70.457	
9,500.00	9,399.52	9,511.94	9,399.52	18.16	18.58	-90.41	-413.93	-1,431.42	2,315.03	2,282.06	32.97	70.211	
9,600.00	9,499.52	9,611.94	9,499.52	18.22	18.64	-90.41	-413.93	-1,431.42	2,315.03	2,281.94	33.09	69.966	
9,700.00	9,599.52	9,711.94	9,599.52	18.27	18.71	-90.41	-413.93	-1,431.42	2,315.03	2,281.83	33.20	69.722	
9,800.00	9,699.52	9,811.94	9,699.52	18.32	18.77	-90.41	-413.93	-1,431.42	2,315.03	2,281.71	33.32	69.479	
9,900.00	9,799.52	9,911.94	9,799.52	18.37	18.83	-90.41	-413.93	-1,431.42	2,315.03	2,281.59	33.44	69.237	
10,000.00	9,899.52	10,011.94	9,899.52	18.42	18.90	-90.41	-413.93	-1,431.42	2,315.03	2,281.48	33.55	68.996	
10,100.00	9,999.52	10,111.94	9,999.52	18.47	18.96	-90.41	-413.93	-1,431.42	2,315.03	2,281.36	33.67	68.755	
10,200.00	10,099.52	10,211.94	10,099.52	18.53	19.03	-90.41	-413.93	-1,431.42	2,315.03	2,281.24	33.79	68.516	
10,300.00	10,199.52	10,311.94	10,199.52	18.58	19.09	-90.41	-413.93	-1,431.42	2,315.03	2,281.12	33.91	68.277	
10,400.00	10,299.52	10,411.94	10,299.52	18.63	19.15	-90.41	-413.93	-1,431.42	2,315.03	2,281.00	34.02	68.039	
10,500.00	10,399.52	10,511.94	10,399.52	18.69	19.22	-90.41	-413.93	-1,431.42	2,315.03	2,280.89	34.14	67.803	
10,600.00	10,499.52	10,611.94	10,499.52	18.74	19.28	-90.41	-413.93	-1,431.42	2,315.03	2,280.77	34.26	67.567	
10,700.00	10,599.52	10,711.94	10,599.52	18.79	19.35	-90.41	-413.93	-1,431.42	2,315.03	2,280.65	34.38	67.332	
10,800.00	10,699.52	10,811.94	10,699.52	18.85	19.41	-90.41	-413.93	-1,431.42	2,315.03	2,280.53	34.50	67.098	
10,900.00	10,799.52	10,911.94	10,799.52	18.90	19.48	-90.41	-413.93	-1,431.42	2,315.03	2,280.41	34.62	66.865	
11,000.00	10,899.52	11,011.94	10,899.52	18.95	19.54	-90.41	-413.93	-1,431.42	2,315.03	2,280.29	34.74	66.633	
11,100.00	10,999.52	11,111.94	10,999.52	19.01	19.60	-90.41	-413.93	-1,431.42	2,315.03	2,280.17	34.86	66.402	
11,200.00	11,099.52	11,211.94	11,099.52	19.06	19.67	-90.41	-413.93	-1,431.42	2,315.03	2,280.04	34.99	66.171	
11,300.00	11,199.52	11,311.94	11,199.52	19.12	19.74	-90.41	-413.93	-1,431.42	2,315.03	2,279.92	35.11	65.942	
11,400.00	11,299.52	11,411.94	11,299.52	19.17	19.80	-90.41	-413.93	-1,431.42	2,315.03	2,279.80	35.23	65.714	
11,500.00	11,399.52	11,511.94	11,399.52	19.23	19.87	-90.41	-413.93	-1,431.42	2,315.03	2,279.68	35.35	65.487	CC
11,500.01	11,399.52	11,511.94	11,399.52	19.23	19.87	-90.41	-413.93	-1,431.42	2,315.03	2,279.68	35.35	65.487	
11,600.00	11,499.47	11,611.89	11,499.47	19.29	19.93	90.16	-413.93	-1,431.42	2,315.03	2,279.58	35.45	65.306	
11,700.00	11,597.96	11,710.38	11,597.96	19.45	20.00	90.55	-413.93	-1,431.42	2,315.14	2,279.56	35.58	65.077	
11,800.00	11,692.07	11,804.49	11,692.07	19.66	20.06	91.27	-413.93	-1,431.42	2,315.71	2,279.95	35.76	64.751	
11,900.00	11,778.95	11,895.77	11,783.34	19.93	20.10	92.20	-414.44	-1,431.42	2,317.41	2,281.42	36.00	64.380	
12,000.00	11,855.96	12,006.03	11,892.37	20.27	20.17	93.33	-429.63	-1,431.28	2,320.40	2,284.17	36.23	64.043	
12,100.00	11,920.75	12,133.23	12,011.81	20.70	20.22	94.50	-472.63	-1,430.91	2,324.33	2,287.81	36.52	63.647	
12,200.00	11,971.37	12,283.10	12,136.21	21.23	20.28	95.68	-555.45	-1,430.20	2,328.69	2,291.77	36.93	63.061	
12,300.00	12,006.26	12,460.30	12,249.63	21.86	20.44	96.75	-690.67	-1,429.04	2,332.62	2,294.97	37.65	61.962	
12,400.00	12,024.37	12,662.73	12,321.83	22.58	20.87	97.42	-878.65	-1,427.42	2,335.00	2,296.04	38.96	59.936	
12,500.00	12,027.30	12,818.92	12,332.39	23.37	21.43	97.51	-1,034.18	-1,426.08	2,335.34	2,294.85	40.49	57.683	
12,600.00	12,028.00	12,918.92	12,332.91	24.23	21.88	97.50	-1,134.18	-1,425.22	2,335.36	2,293.54	41.82	55.840	
12,700.00	12,028.71	13,018.92	12,333.44	25.13	22.40	97.50	-1,234.17	-1,424.36	2,335.38	2,292.09	43.29	53.951	
12,800.00	12,029.42	13,118.92	12,333.96	26.08	22.97	97.49	-1,334.17	-1,423.49	2,335.40	2,290.53	44.87	52.049	
12,900.00	12,030.13	13,218.92	12,334.48	27.06	23.61	97.49	-1,434.16	-1,422.63	2,335.43	2,288.87	46.56	50.163	
13,000.00	12,030.84	13,318.92	12,335.00	28.07	24.30	97.48	-1,534.16	-1,421.77	2,335.45	2,287.11	48.34	48.314	
13,100.00	12,031.55	13,418.92	12,335.52	29.10	25.04	97.48	-1,634.15	-1,420.91	2,335.47	2,285.26	50.21	46.517	
13,200.00	12,032.26	13,518.92	12,336.04	30.17	25.82	97.47	-1,734.15	-1,420.05	2,335.49	2,283.34	52.15	44.783	
13,300.00	12,032.97	13,618.92	12,336.56	31.25	26.65	97.47	-1,834.14	-1,419.19	2,335.52	2,281.35	54.16	43.120	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 217H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,400.00	12,033.68	13,718.92	12,337.08	32.36	27.52	97.46	-1,934.14	-1,418.33	2,335.54	2,279.30	56.24	41.530	
13,500.00	12,034.39	13,818.92	12,337.61	33.49	28.42	97.46	-2,034.13	-1,417.47	2,335.56	2,277.20	58.36	40.017	
13,600.00	12,035.10	13,918.92	12,338.13	34.63	29.36	97.46	-2,134.13	-1,416.61	2,335.58	2,275.04	60.54	38.579	
13,700.00	12,035.80	14,018.92	12,338.65	35.78	30.34	97.45	-2,234.12	-1,415.74	2,335.61	2,272.85	62.76	37.215	
13,800.00	12,036.51	14,118.92	12,339.17	36.95	31.33	97.45	-2,334.12	-1,414.88	2,335.63	2,270.61	65.02	35.922	
13,900.00	12,037.22	14,218.92	12,339.69	38.14	32.36	97.44	-2,434.11	-1,414.02	2,335.65	2,268.34	67.31	34.698	
14,000.00	12,037.93	14,318.92	12,340.21	39.33	33.41	97.44	-2,534.11	-1,413.16	2,335.68	2,266.04	69.64	33.540	
14,100.00	12,038.64	14,418.92	12,340.73	40.54	34.48	97.43	-2,634.10	-1,412.30	2,335.70	2,263.71	71.99	32.444	
14,200.00	12,039.35	14,518.92	12,341.26	41.75	35.57	97.43	-2,734.10	-1,411.44	2,335.72	2,261.35	74.37	31.406	
14,300.00	12,040.06	14,618.92	12,341.78	42.97	36.68	97.42	-2,834.09	-1,410.58	2,335.74	2,258.97	76.77	30.424	
14,400.00	12,040.77	14,718.92	12,342.30	44.20	37.81	97.42	-2,934.08	-1,409.72	2,335.77	2,256.57	79.20	29.493	
14,500.00	12,041.48	14,818.92	12,342.82	45.44	38.95	97.41	-3,034.08	-1,408.85	2,335.79	2,254.15	81.64	28.611	
14,600.00	12,042.19	14,918.92	12,343.34	46.69	40.11	97.41	-3,134.07	-1,407.99	2,335.81	2,251.71	84.10	27.774	
14,700.00	12,042.89	15,018.92	12,343.86	47.94	41.27	97.40	-3,234.07	-1,407.13	2,335.83	2,249.26	86.58	26.980	
14,800.00	12,043.60	15,118.92	12,344.38	49.20	42.45	97.40	-3,334.06	-1,406.27	2,335.86	2,246.79	89.07	26.226	
14,900.00	12,044.31	15,218.92	12,344.91	50.46	43.65	97.39	-3,434.06	-1,405.41	2,335.88	2,244.31	91.57	25.509	
15,000.00	12,045.02	15,318.92	12,345.43	51.73	44.85	97.39	-3,534.05	-1,404.55	2,335.90	2,241.82	94.09	24.827	
15,100.00	12,045.73	15,418.92	12,345.95	53.01	46.06	97.38	-3,634.05	-1,403.69	2,335.93	2,239.31	96.61	24.178	
15,200.00	12,046.44	15,518.92	12,346.47	54.28	47.28	97.38	-3,734.04	-1,402.83	2,335.95	2,236.80	99.15	23.559	
15,300.00	12,047.15	15,618.92	12,346.99	55.57	48.51	97.38	-3,834.04	-1,401.97	2,335.97	2,234.27	101.70	22.970	
15,400.00	12,047.86	15,718.92	12,347.51	56.85	49.74	97.37	-3,934.03	-1,401.10	2,335.99	2,231.74	104.26	22.406	
15,500.00	12,048.57	15,818.92	12,348.03	58.14	50.98	97.37	-4,034.03	-1,400.24	2,336.02	2,229.20	106.82	21.869	
15,600.00	12,049.28	15,918.92	12,348.55	59.44	52.23	97.36	-4,134.02	-1,399.38	2,336.04	2,226.65	109.39	21.355	
15,700.00	12,049.99	16,018.92	12,349.08	60.73	53.48	97.36	-4,234.02	-1,398.52	2,336.06	2,224.09	111.97	20.863	
15,800.00	12,050.69	16,118.92	12,349.60	62.03	54.74	97.35	-4,334.01	-1,397.66	2,336.09	2,221.53	114.56	20.392	
15,900.00	12,051.40	16,218.92	12,350.12	63.33	56.01	97.35	-4,434.01	-1,396.80	2,336.11	2,218.96	117.15	19.941	
16,000.00	12,052.11	16,318.92	12,350.64	64.64	57.28	97.34	-4,534.00	-1,395.94	2,336.13	2,216.38	119.75	19.509	
16,100.00	12,052.82	16,418.92	12,351.16	65.95	58.55	97.34	-4,634.00	-1,395.08	2,336.16	2,213.80	122.35	19.094	
16,200.00	12,053.53	16,518.92	12,351.68	67.26	59.83	97.33	-4,733.99	-1,394.21	2,336.18	2,211.22	124.96	18.695	
16,300.00	12,054.24	16,618.91	12,352.20	68.57	61.11	97.33	-4,833.99	-1,393.35	2,336.20	2,208.63	127.57	18.312	
16,400.00	12,054.95	16,718.91	12,352.73	69.88	62.40	97.32	-4,933.98	-1,392.49	2,336.23	2,206.03	130.19	17.944	
16,500.00	12,055.66	16,818.91	12,353.25	71.20	63.69	97.32	-5,033.97	-1,391.63	2,336.25	2,203.43	132.81	17.590	
16,600.00	12,056.37	16,918.91	12,353.77	72.52	64.98	97.31	-5,133.97	-1,390.77	2,336.27	2,200.83	135.44	17.249	
16,700.00	12,057.08	17,018.91	12,354.29	73.84	66.28	97.31	-5,233.96	-1,389.91	2,336.29	2,198.22	138.07	16.921	
16,800.00	12,057.79	17,118.91	12,354.81	75.16	67.57	97.30	-5,333.96	-1,389.05	2,336.32	2,195.61	140.70	16.604	
16,900.00	12,058.49	17,218.91	12,355.33	76.48	68.88	97.30	-5,433.95	-1,388.19	2,336.34	2,193.00	143.34	16.299	
17,000.00	12,059.20	17,318.91	12,355.85	77.81	70.18	97.29	-5,533.95	-1,387.33	2,336.36	2,190.38	145.98	16.005	
17,100.00	12,059.91	17,418.91	12,356.38	79.14	71.49	97.29	-5,633.94	-1,386.46	2,336.39	2,187.76	148.62	15.720	
17,200.00	12,060.62	17,518.91	12,356.90	80.46	72.80	97.29	-5,733.94	-1,385.60	2,336.41	2,185.14	151.27	15.445	
17,300.00	12,061.33	17,618.91	12,357.42	81.79	74.11	97.28	-5,833.93	-1,384.74	2,336.43	2,182.52	153.92	15.180	
17,400.00	12,062.04	17,718.91	12,357.94	83.12	75.42	97.28	-5,933.93	-1,383.88	2,336.46	2,179.89	156.57	14.923	
17,500.00	12,062.75	17,818.91	12,358.46	84.45	76.73	97.27	-6,033.92	-1,383.02	2,336.48	2,177.26	159.22	14.674	
17,600.00	12,063.46	17,918.91	12,358.98	85.79	78.05	97.27	-6,133.92	-1,382.16	2,336.50	2,174.63	161.88	14.434	
17,700.00	12,064.17	18,018.91	12,359.50	87.12	79.37	97.26	-6,233.91	-1,381.30	2,336.53	2,171.99	164.54	14.201	
17,800.00	12,064.88	18,118.91	12,360.03	88.46	80.69	97.26	-6,333.91	-1,380.44	2,336.55	2,169.35	167.20	13.975	
17,900.00	12,065.59	18,218.91	12,360.55	89.79	82.01	97.25	-6,433.90	-1,379.57	2,336.57	2,166.72	169.86	13.756	
18,000.00	12,066.29	18,318.91	12,361.07	91.13	83.34	97.25	-6,533.90	-1,378.71	2,336.60	2,164.07	172.52	13.544	
18,100.00	12,067.00	18,418.91	12,361.59	92.47	84.66	97.24	-6,633.89	-1,377.85	2,336.62	2,161.43	175.19	13.338	
18,200.00	12,067.71	18,518.91	12,362.11	93.81	85.99	97.24	-6,733.89	-1,376.99	2,336.64	2,158.79	177.86	13.138	
18,300.00	12,068.42	18,618.91	12,362.63	95.15	87.31	97.23	-6,833.88	-1,376.13	2,336.67	2,156.14	180.52	12.944	
18,400.00	12,069.13	18,718.91	12,363.15	96.49	88.64	97.23	-6,933.87	-1,375.27	2,336.69	2,153.49	183.20	12.755	
18,500.00	12,069.84	18,818.91	12,363.67	97.83	89.97	97.22	-7,033.87	-1,374.41	2,336.71	2,150.85	185.87	12.572	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 217H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,600.00	12,070.55	18,918.91	12,364.20	99.17	91.31	97.22	-7,133.86	-1,373.55	2,336.74	2,148.20	188.54	12.394	
18,700.00	12,071.26	19,018.91	12,364.72	100.51	92.64	97.21	-7,233.86	-1,372.69	2,336.76	2,145.54	191.22	12.220	
18,800.00	12,071.97	19,118.91	12,365.24	101.86	93.97	97.21	-7,333.85	-1,371.82	2,336.78	2,142.89	193.89	12.052	
18,900.00	12,072.68	19,218.91	12,365.76	103.20	95.31	97.21	-7,433.85	-1,370.96	2,336.81	2,140.24	196.57	11.888	
19,000.00	12,073.39	19,318.91	12,366.28	104.55	96.64	97.20	-7,533.84	-1,370.10	2,336.83	2,137.58	199.25	11.728	
19,100.00	12,074.09	19,418.91	12,366.80	105.89	97.98	97.20	-7,633.84	-1,369.24	2,336.85	2,134.92	201.93	11.573	
19,200.00	12,074.80	19,518.91	12,367.32	107.24	99.32	97.19	-7,733.83	-1,368.38	2,336.88	2,132.27	204.61	11.421	
19,300.00	12,075.51	19,618.91	12,367.85	108.58	100.65	97.19	-7,833.83	-1,367.52	2,336.90	2,129.61	207.29	11.273	
19,400.00	12,076.22	19,718.91	12,368.37	109.93	101.99	97.18	-7,933.82	-1,366.66	2,336.93	2,126.95	209.98	11.129	
19,500.00	12,076.93	19,818.91	12,368.89	111.28	103.33	97.18	-8,033.82	-1,365.80	2,336.95	2,124.29	212.66	10.989	
19,600.00	12,077.64	19,918.91	12,369.41	112.63	104.67	97.17	-8,133.81	-1,364.93	2,336.97	2,121.62	215.35	10.852	
19,700.00	12,078.35	20,018.91	12,369.93	113.98	106.02	97.17	-8,233.81	-1,364.07	2,337.00	2,118.96	218.03	10.718	
19,800.00	12,079.06	20,118.91	12,370.45	115.33	107.36	97.16	-8,333.80	-1,363.21	2,337.02	2,116.30	220.72	10.588	
19,900.00	12,079.77	20,218.91	12,370.97	116.68	108.70	97.16	-8,433.80	-1,362.35	2,337.04	2,113.63	223.41	10.461	
20,000.00	12,080.48	20,318.91	12,371.50	118.03	110.04	97.15	-8,533.79	-1,361.49	2,337.07	2,110.97	226.10	10.336	
20,100.00	12,081.18	20,418.91	12,372.02	119.38	111.39	97.15	-8,633.79	-1,360.63	2,337.09	2,108.30	228.79	10.215	
20,200.00	12,081.89	20,518.91	12,372.54	120.73	112.73	97.14	-8,733.78	-1,359.77	2,337.11	2,105.63	231.48	10.096	
20,300.00	12,082.60	20,618.91	12,373.06	122.08	114.08	97.14	-8,833.77	-1,358.91	2,337.14	2,102.97	234.17	9.980	
20,400.00	12,083.31	20,718.91	12,373.58	123.43	115.42	97.13	-8,933.77	-1,358.05	2,337.16	2,100.30	236.87	9.867	
20,500.00	12,084.02	20,818.91	12,374.10	124.78	116.77	97.13	-9,033.76	-1,357.18	2,337.19	2,097.63	239.56	9.756	
20,600.00	12,084.73	20,918.91	12,374.62	126.14	118.12	97.13	-9,133.76	-1,356.32	2,337.21	2,094.96	242.25	9.648	
20,700.00	12,085.44	21,018.91	12,375.14	127.49	119.47	97.12	-9,233.75	-1,355.46	2,337.23	2,092.29	244.95	9.542	
20,800.00	12,086.15	21,118.91	12,375.67	128.84	120.81	97.12	-9,333.75	-1,354.60	2,337.26	2,089.62	247.64	9.438	
20,900.00	12,086.86	21,218.91	12,376.19	130.20	122.16	97.11	-9,433.74	-1,353.74	2,337.28	2,086.94	250.34	9.337	
21,000.00	12,087.57	21,318.91	12,376.71	131.55	123.51	97.11	-9,533.74	-1,352.88	2,337.31	2,084.27	253.03	9.237	
21,100.00	12,088.28	21,418.91	12,377.23	132.90	124.86	97.10	-9,633.73	-1,352.02	2,337.33	2,081.60	255.73	9.140	
21,200.00	12,088.98	21,518.91	12,377.75	134.26	126.21	97.10	-9,733.73	-1,351.16	2,337.35	2,078.92	258.43	9.044	
21,300.00	12,089.69	21,618.91	12,378.27	135.61	127.56	97.09	-9,833.72	-1,350.29	2,337.38	2,076.25	261.13	8.951	
21,400.00	12,090.40	21,718.91	12,378.79	136.97	128.91	97.09	-9,933.72	-1,349.43	2,337.40	2,073.57	263.83	8.860	
21,500.00	12,091.11	21,818.91	12,379.32	138.32	130.26	97.08	-10,033.71	-1,348.57	2,337.42	2,070.90	266.52	8.770	
21,600.00	12,091.82	21,918.91	12,379.84	139.68	131.61	97.08	-10,133.71	-1,347.71	2,337.45	2,068.22	269.22	8.682	
21,700.00	12,092.53	22,018.90	12,380.36	141.04	132.97	97.07	-10,233.70	-1,346.85	2,337.47	2,065.55	271.93	8.596	
21,800.00	12,093.24	22,118.90	12,380.88	142.39	134.32	97.07	-10,333.70	-1,345.99	2,337.50	2,062.87	274.63	8.512	
21,900.00	12,093.95	22,218.90	12,381.40	143.75	135.67	97.06	-10,433.69	-1,345.13	2,337.52	2,060.19	277.33	8.429	
22,000.00	12,094.66	22,318.90	12,381.92	145.11	137.02	97.06	-10,533.69	-1,344.27	2,337.54	2,057.52	280.03	8.348	
22,100.00	12,095.37	22,418.90	12,382.44	146.46	138.38	97.05	-10,633.68	-1,343.41	2,337.57	2,054.84	282.73	8.268	
22,200.00	12,096.08	22,518.90	12,382.97	147.82	139.73	97.05	-10,733.68	-1,342.54	2,337.59	2,052.16	285.43	8.190	
22,300.00	12,096.78	22,618.90	12,383.49	149.18	141.08	97.05	-10,833.67	-1,341.68	2,337.62	2,049.48	288.14	8.113	
22,302.92	12,096.81	22,621.83	12,383.50	149.22	141.12	97.05	-10,836.59	-1,341.66	2,337.62	2,049.40	288.22	8.111	
22,386.82	12,097.40	22,698.24	12,383.90	150.36	142.16	97.04	-10,913.00	-1,341.00	2,337.65	2,047.34	290.31	8.052	ES, SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 218H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.50	0.50	135.00	-25.00	25.00	35.36				
100.00	100.00	100.00	100.00	0.98	0.98	135.00	-25.00	25.00	35.36	33.39	1.96	18.018	
200.00	200.00	200.00	200.00	1.56	1.56	135.00	-25.00	25.00	35.36	32.23	3.12	11.324	
300.00	300.00	300.00	300.00	1.98	1.98	135.00	-25.00	25.00	35.36	31.39	3.96	8.923	CC, ES
400.00	400.00	399.17	399.15	2.33	2.41	134.06	-25.38	26.23	36.51	31.79	4.72	7.739	
500.00	500.00	498.20	498.11	2.63	2.77	131.56	-26.52	29.91	40.02	34.64	5.37	7.446	
600.00	600.00	596.96	596.66	2.91	3.10	128.26	-28.41	36.02	46.00	40.03	5.97	7.703	
700.00	700.00	695.36	694.66	3.02	3.40	-5.14	-31.05	44.53	54.22	47.84	6.38	8.494	
800.00	799.96	793.49	792.12	3.31	3.69	-8.51	-34.41	55.41	62.81	55.85	6.95	9.036	
900.00	899.82	892.41	890.11	3.59	3.83	-11.81	-38.42	68.37	71.07	63.71	7.36	9.660	
1,000.00	999.51	992.14	988.86	3.76	4.05	-14.94	-42.53	81.62	77.24	69.50	7.75	9.969	
1,100.00	1,099.13	1,091.90	1,087.66	3.96	4.27	-17.81	-46.63	94.89	82.75	74.57	8.18	10.112	
1,200.00	1,198.75	1,191.67	1,186.45	4.17	4.49	-20.31	-50.74	108.15	88.44	79.83	8.61	10.271	
1,300.00	1,298.37	1,291.44	1,285.25	4.37	4.71	-22.51	-54.85	121.42	94.28	85.25	9.03	10.439	
1,400.00	1,397.99	1,391.21	1,384.05	4.57	4.93	-24.45	-58.95	134.68	100.24	90.79	9.45	10.605	
1,500.00	1,497.50	1,491.04	1,482.91	4.79	5.15	-20.12	-63.06	147.95	105.05	95.16	9.88	10.627	
1,600.00	1,596.74	1,590.97	1,581.87	5.02	5.36	-17.73	-67.17	161.24	107.32	96.99	10.33	10.393	
1,700.00	1,695.65	1,690.93	1,680.85	5.25	5.57	-16.57	-71.29	174.53	107.06	96.29	10.77	9.941	
1,800.00	1,794.15	1,790.84	1,779.79	5.48	5.78	-16.25	-75.40	187.81	104.26	93.05	11.21	9.299	
1,900.00	1,892.17	1,890.64	1,878.62	5.71	6.00	-16.65	-79.51	201.08	98.96	87.30	11.65	8.491	
2,000.00	1,989.70	1,990.28	1,977.29	5.85	6.20	-18.26	-83.61	214.33	91.41	79.41	12.00	7.617	
2,100.00	2,087.14	2,089.88	2,075.92	6.05	6.41	-21.04	-87.71	227.57	83.60	71.18	12.42	6.734	
2,200.00	2,184.58	2,189.49	2,174.56	6.25	6.62	-24.39	-91.80	240.81	76.03	63.19	12.83	5.925	
2,300.00	2,282.02	2,287.90	2,271.91	6.45	6.81	-28.16	-96.09	254.54	69.40	56.18	13.23	5.248	
2,400.00	2,379.46	2,386.18	2,368.75	6.66	7.04	-31.63	-101.18	270.52	65.32	51.65	13.67	4.779	
2,500.00	2,476.89	2,484.68	2,465.34	6.90	7.29	-34.32	-107.12	288.89	63.70	49.57	14.13	4.509	
2,519.44	2,495.84	2,503.84	2,484.07	6.95	7.33	-34.71	-108.38	292.73	63.65	49.44	14.21	4.478	
2,600.00	2,574.33	2,583.27	2,561.48	7.17	7.53	-35.87	-113.91	309.61	64.38	49.79	14.59	4.411	
2,700.00	2,671.77	2,682.78	2,658.07	7.45	7.75	-36.45	-121.42	332.34	66.77	51.71	15.05	4.436	
2,800.00	2,769.21	2,782.75	2,755.07	7.73	8.01	-36.92	-129.01	355.30	69.27	53.73	15.54	4.457	
2,900.00	2,866.65	2,882.71	2,852.06	8.01	8.30	-37.37	-136.59	378.26	71.78	55.74	16.04	4.474	
3,000.00	2,964.08	2,982.68	2,949.06	8.29	8.60	-37.78	-144.18	401.22	74.29	57.75	16.55	4.490	
3,100.00	3,061.52	3,082.65	3,046.06	8.58	8.90	-38.17	-151.76	424.18	76.81	59.75	17.06	4.504	
3,200.00	3,158.96	3,182.62	3,143.06	8.87	9.21	-38.53	-159.35	447.15	79.33	61.76	17.57	4.516	
3,300.00	3,256.40	3,282.58	3,240.06	9.16	9.52	-38.87	-166.94	470.11	81.85	63.77	18.08	4.526	
3,400.00	3,353.84	3,382.55	3,337.05	9.46	9.83	-39.19	-174.52	493.07	84.38	65.78	18.60	4.536	
3,500.00	3,451.27	3,482.52	3,434.05	9.75	10.14	-39.49	-182.11	516.03	86.91	67.78	19.13	4.544	
3,600.00	3,548.71	3,582.48	3,531.05	10.05	10.46	-39.77	-189.70	538.99	89.44	69.79	19.65	4.551	
3,700.00	3,646.15	3,682.45	3,628.05	10.34	10.77	-40.04	-197.28	561.95	91.97	71.79	20.18	4.558	
3,800.00	3,743.59	3,782.42	3,725.05	10.64	11.09	-40.29	-204.87	584.91	94.50	73.80	20.71	4.563	
3,900.00	3,841.03	3,882.38	3,822.05	10.94	11.41	-40.53	-212.46	607.87	97.04	75.80	21.24	4.568	
4,000.00	3,938.47	3,982.35	3,919.04	11.24	11.73	-40.76	-220.04	630.83	99.58	77.80	21.78	4.573	
4,100.00	4,035.90	4,082.32	4,016.04	11.54	12.05	-40.98	-227.63	653.79	102.12	79.80	22.31	4.576	
4,200.00	4,133.34	4,182.29	4,113.04	11.84	12.38	-41.18	-235.21	676.76	104.66	81.80	22.85	4.580	
4,300.00	4,230.78	4,282.25	4,210.04	12.14	12.70	-41.38	-242.80	699.72	107.20	83.81	23.39	4.582	
4,400.00	4,328.22	4,382.22	4,307.04	12.45	13.02	-41.57	-250.39	722.68	109.74	85.81	23.94	4.585	
4,500.00	4,425.66	4,482.19	4,404.03	12.75	13.35	-41.75	-257.97	745.64	112.29	87.81	24.48	4.587	
4,600.00	4,523.09	4,582.15	4,501.03	13.05	13.67	-41.92	-265.56	768.60	114.83	89.81	25.03	4.588	
4,700.00	4,620.53	4,682.12	4,598.03	13.36	14.00	-42.08	-273.15	791.56	117.38	91.81	25.57	4.590	
4,800.00	4,717.97	4,782.09	4,695.03	13.66	14.32	-42.24	-280.73	814.52	119.93	93.80	26.12	4.591	
4,900.00	4,815.41	4,882.05	4,792.03	13.97	14.65	-42.39	-288.32	837.48	122.47	95.80	26.67	4.592	
5,000.00	4,912.85	4,982.02	4,889.03	14.27	14.98	-42.53	-295.90	860.44	125.02	97.80	27.22	4.593	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 218H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,010.28	5,081.99	4,986.02	14.58	15.30	-42.67	-303.49	883.40	127.57	99.80	27.77	4.593	
5,200.00	5,107.72	5,181.96	5,083.02	14.89	15.63	-42.80	-311.08	906.36	130.12	101.80	28.33	4.594	
5,300.00	5,205.30	5,281.91	5,180.01	15.16	15.96	-42.77	-318.66	929.32	133.13	104.29	28.84	4.617	
5,400.00	5,303.38	5,381.77	5,276.90	15.44	16.29	-42.06	-326.24	952.26	137.98	108.67	29.31	4.708	
5,500.00	5,401.95	5,481.48	5,373.65	15.69	16.62	-40.74	-333.81	975.16	144.82	115.12	29.70	4.876	
5,600.00	5,500.92	5,580.95	5,470.17	15.91	16.95	-38.95	-341.36	998.01	153.76	123.74	30.03	5.121	
5,700.00	5,600.23	5,680.13	5,566.40	16.10	17.27	-36.82	-348.88	1,020.79	164.93	134.63	30.30	5.444	
5,800.00	5,699.82	5,778.95	5,662.29	16.26	17.60	-34.52	-356.38	1,043.49	178.45	147.92	30.53	5.845	
5,900.00	5,799.60	5,879.86	5,760.30	16.39	17.91	-32.15	-363.92	1,066.29	194.09	163.34	30.75	6.312	
6,000.00	5,899.53	5,983.19	5,861.22	16.50	18.22	-30.02	-370.87	1,087.33	210.10	179.11	30.99	6.779	
6,100.00	5,999.52	6,087.05	5,963.23	16.57	18.50	84.76	-376.99	1,105.86	226.18	195.01	31.17	7.256	
6,200.00	6,099.52	6,191.66	6,066.47	16.62	18.75	86.37	-382.28	1,121.86	241.07	209.75	31.32	7.698	
6,300.00	6,199.52	6,297.14	6,170.99	16.66	18.97	87.57	-386.71	1,135.27	253.55	222.08	31.47	8.057	
6,400.00	6,299.52	6,403.32	6,276.57	16.70	19.16	88.44	-390.25	1,145.99	263.54	231.92	31.62	8.334	
6,500.00	6,399.52	6,510.05	6,382.97	16.74	19.32	89.04	-392.88	1,153.96	270.95	239.18	31.77	8.529	
6,600.00	6,499.52	6,617.17	6,489.95	16.79	19.44	89.42	-394.58	1,159.11	275.74	243.84	31.90	8.643	
6,700.00	6,599.52	6,724.52	6,597.26	16.83	19.52	89.58	-395.35	1,161.42	277.88	245.88	32.00	8.683	
6,800.00	6,699.52	6,826.77	6,699.52	16.88	19.55	89.59	-395.39	1,161.55	278.01	245.95	32.05	8.674	
6,900.00	6,799.52	6,926.77	6,799.52	16.92	19.59	89.59	-395.39	1,161.55	278.01	245.87	32.13	8.652	
7,000.00	6,899.52	7,026.77	6,899.52	16.96	19.63	89.59	-395.39	1,161.55	278.01	245.79	32.21	8.630	
7,100.00	6,999.52	7,126.77	6,999.52	17.01	19.67	89.59	-395.39	1,161.55	278.01	245.71	32.29	8.608	
7,200.00	7,099.52	7,226.77	7,099.52	17.05	19.71	89.59	-395.39	1,161.55	278.01	245.63	32.38	8.587	
7,300.00	7,199.52	7,326.77	7,199.52	17.10	19.74	89.59	-395.39	1,161.55	278.01	245.55	32.46	8.565	
7,400.00	7,299.52	7,426.77	7,299.52	17.15	19.78	89.59	-395.39	1,161.55	278.01	245.46	32.54	8.543	
7,500.00	7,399.52	7,526.77	7,399.52	17.19	19.82	89.59	-395.39	1,161.55	278.01	245.38	32.63	8.521	
7,600.00	7,499.52	7,626.77	7,499.52	17.24	19.86	89.59	-395.39	1,161.55	278.01	245.30	32.71	8.499	
7,700.00	7,599.52	7,726.77	7,599.52	17.28	19.90	89.59	-395.39	1,161.55	278.01	245.21	32.80	8.477	
7,800.00	7,699.52	7,826.77	7,699.52	17.33	19.94	89.59	-395.39	1,161.55	278.01	245.12	32.88	8.455	
7,900.00	7,799.52	7,926.77	7,799.52	17.38	19.98	89.59	-395.39	1,161.55	278.01	245.04	32.97	8.432	
8,000.00	7,899.52	8,026.77	7,899.52	17.43	20.02	89.59	-395.39	1,161.55	278.01	244.95	33.06	8.410	
8,100.00	7,999.52	8,126.77	7,999.52	17.47	20.06	89.59	-395.39	1,161.55	278.01	244.86	33.14	8.388	
8,200.00	8,099.52	8,226.77	8,099.52	17.52	20.11	89.59	-395.39	1,161.55	278.01	244.78	33.23	8.366	
8,300.00	8,199.52	8,326.77	8,199.52	17.57	20.15	89.59	-395.39	1,161.55	278.01	244.69	33.32	8.344	
8,400.00	8,299.52	8,426.77	8,299.52	17.62	20.19	89.59	-395.39	1,161.55	278.01	244.60	33.41	8.321	
8,500.00	8,399.52	8,526.77	8,399.52	17.67	20.23	89.59	-395.39	1,161.55	278.01	244.51	33.50	8.299	
8,600.00	8,499.52	8,626.77	8,499.52	17.71	20.27	89.59	-395.39	1,161.55	278.01	244.42	33.59	8.277	
8,700.00	8,599.52	8,726.77	8,599.52	17.76	20.32	89.59	-395.39	1,161.55	278.01	244.33	33.68	8.254	
8,800.00	8,699.52	8,826.77	8,699.52	17.81	20.36	89.59	-395.39	1,161.55	278.01	244.24	33.77	8.232	
8,900.00	8,799.52	8,926.77	8,799.52	17.86	20.40	89.59	-395.39	1,161.55	278.01	244.14	33.86	8.210	
9,000.00	8,899.52	9,026.77	8,899.52	17.91	20.44	89.59	-395.39	1,161.55	278.01	244.05	33.96	8.187	
9,100.00	8,999.52	9,126.77	8,999.52	17.96	20.49	89.59	-395.39	1,161.55	278.01	243.96	34.05	8.165	
9,200.00	9,099.52	9,226.77	9,099.52	18.01	20.53	89.59	-395.39	1,161.55	278.01	243.87	34.14	8.143	
9,300.00	9,199.52	9,326.77	9,199.52	18.06	20.57	89.59	-395.39	1,161.55	278.01	243.77	34.24	8.120	
9,400.00	9,299.52	9,426.77	9,299.52	18.11	20.62	89.59	-395.39	1,161.55	278.01	243.68	34.33	8.098	
9,500.00	9,399.52	9,526.77	9,399.52	18.16	20.66	89.59	-395.39	1,161.55	278.01	243.58	34.43	8.076	
9,600.00	9,499.52	9,626.77	9,499.52	18.22	20.71	89.59	-395.39	1,161.55	278.01	243.49	34.52	8.053	
9,700.00	9,599.52	9,726.77	9,599.52	18.27	20.75	89.59	-395.39	1,161.55	278.01	243.39	34.62	8.031	
9,800.00	9,699.52	9,826.77	9,699.52	18.32	20.80	89.59	-395.39	1,161.55	278.01	243.29	34.71	8.009	
9,900.00	9,799.52	9,926.77	9,799.52	18.37	20.84	89.59	-395.39	1,161.55	278.01	243.20	34.81	7.986	
10,000.00	9,899.52	10,026.77	9,899.52	18.42	20.89	89.59	-395.39	1,161.55	278.01	243.10	34.91	7.964	
10,100.00	9,999.52	10,126.77	9,999.52	18.47	20.93	89.59	-395.39	1,161.55	278.01	243.00	35.01	7.942	
10,200.00	10,099.52	10,226.77	10,099.52	18.53	20.98	89.59	-395.39	1,161.55	278.01	242.90	35.10	7.919	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 218H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,199.52	10,326.77	10,199.52	18.58	21.03	89.59	-395.39	1,161.55	278.01	242.80	35.20	7.897	
10,400.00	10,299.52	10,426.77	10,299.52	18.63	21.07	89.59	-395.39	1,161.55	278.01	242.70	35.30	7.875	
10,500.00	10,399.52	10,526.77	10,399.52	18.69	21.12	89.59	-395.39	1,161.55	278.01	242.60	35.40	7.853	
10,600.00	10,499.52	10,626.77	10,499.52	18.74	21.17	89.59	-395.39	1,161.55	278.01	242.50	35.50	7.830	
10,700.00	10,599.52	10,726.77	10,599.52	18.79	21.21	89.59	-395.39	1,161.55	278.01	242.40	35.60	7.808	
10,800.00	10,699.52	10,826.77	10,699.52	18.85	21.26	89.59	-395.39	1,161.55	278.01	242.30	35.71	7.786	
10,900.00	10,799.52	10,926.77	10,799.52	18.90	21.31	89.59	-395.39	1,161.55	278.01	242.20	35.81	7.764	
11,000.00	10,899.52	11,026.77	10,899.52	18.95	21.35	89.59	-395.39	1,161.55	278.01	242.10	35.91	7.742	
11,100.00	10,999.52	11,126.77	10,999.52	19.01	21.40	89.59	-395.39	1,161.55	278.01	241.99	36.01	7.720	
11,200.00	11,099.52	11,226.77	11,099.52	19.06	21.45	89.59	-395.39	1,161.55	278.01	241.89	36.12	7.698	
11,300.00	11,199.52	11,326.77	11,199.52	19.12	21.50	89.59	-395.39	1,161.55	278.01	241.79	36.22	7.676	
11,400.00	11,299.52	11,426.77	11,299.52	19.17	21.55	89.59	-395.39	1,161.55	278.01	241.68	36.32	7.654	
11,500.00	11,399.52	11,526.77	11,399.52	19.23	21.60	89.59	-395.39	1,161.55	278.01	241.58	36.43	7.632	
11,536.45	11,435.96	11,563.22	11,435.96	19.25	21.61	-90.00	-395.39	1,161.55	278.01	241.54	36.46	7.624	
11,600.00	11,499.47	11,626.73	11,499.47	19.29	21.64	-90.26	-395.39	1,161.55	278.01	241.48	36.53	7.610	
11,700.00	11,597.96	11,725.21	11,597.96	19.45	21.69	-93.56	-395.39	1,161.55	278.58	241.69	36.89	7.551	
11,800.00	11,692.07	11,819.33	11,692.07	19.66	21.74	-99.52	-395.39	1,161.55	282.70	245.04	37.65	7.508	
11,900.00	11,778.95	11,906.21	11,778.95	19.93	21.78	-106.59	-395.39	1,161.55	295.63	256.76	38.87	7.606	
12,000.00	11,855.96	12,001.78	11,874.38	20.27	21.84	-114.59	-399.13	1,161.58	321.48	281.19	40.29	7.979	
12,100.00	11,920.75	12,121.86	11,991.38	20.70	22.03	-122.85	-425.19	1,161.82	355.69	313.82	41.87	8.495	
12,200.00	11,971.37	12,269.74	12,123.97	21.23	22.37	-130.50	-489.73	1,162.41	392.87	348.87	44.01	8.927	
12,300.00	12,006.26	12,458.01	12,261.57	21.86	23.01	-137.07	-616.97	1,163.56	426.34	379.45	46.89	9.092	
12,400.00	12,024.37	12,693.18	12,364.19	22.58	24.26	-141.26	-826.73	1,165.47	447.52	398.10	49.42	9.055	
12,500.00	12,027.30	12,879.38	12,382.19	23.37	25.58	-141.93	-1,011.44	1,167.15	450.83	400.93	49.90	9.035	
12,600.00	12,028.00	12,979.38	12,382.72	24.23	26.37	-141.91	-1,111.44	1,168.06	450.68	400.24	50.44	8.934	
12,700.00	12,028.71	13,079.38	12,383.24	25.13	27.21	-141.90	-1,211.43	1,168.96	450.54	399.49	51.05	8.826	
12,800.00	12,029.42	13,179.38	12,383.77	26.08	28.09	-141.88	-1,311.43	1,169.87	450.39	398.68	51.71	8.709	
12,900.00	12,030.13	13,279.38	12,384.30	27.06	29.01	-141.87	-1,411.42	1,170.78	450.25	397.81	52.43	8.587	
13,000.00	12,030.84	13,379.38	12,384.82	28.07	29.96	-141.86	-1,511.42	1,171.69	450.10	396.89	53.21	8.459	
13,100.00	12,031.55	13,479.38	12,385.35	29.10	30.93	-141.84	-1,611.41	1,172.60	449.96	395.92	54.04	8.327	
13,200.00	12,032.26	13,579.38	12,385.87	30.17	31.94	-141.83	-1,711.40	1,173.51	449.82	394.90	54.92	8.191	
13,300.00	12,032.97	13,679.38	12,386.40	31.25	32.96	-141.81	-1,811.40	1,174.42	449.67	393.83	55.84	8.053	
13,400.00	12,033.68	13,779.38	12,386.93	32.36	34.01	-141.80	-1,911.39	1,175.32	449.53	392.72	56.81	7.913	
13,500.00	12,034.39	13,879.38	12,387.45	33.49	35.08	-141.78	-2,011.39	1,176.23	449.38	391.56	57.82	7.772	
13,600.00	12,035.10	13,979.38	12,387.98	34.63	36.17	-141.77	-2,111.38	1,177.14	449.24	390.36	58.88	7.630	
13,700.00	12,035.80	14,079.38	12,388.50	35.78	37.28	-141.75	-2,211.38	1,178.05	449.10	389.12	59.97	7.489	
13,800.00	12,036.51	14,179.38	12,389.03	36.95	38.40	-141.74	-2,311.37	1,178.96	448.95	387.85	61.10	7.348	
13,900.00	12,037.22	14,279.38	12,389.55	38.14	39.53	-141.73	-2,411.36	1,179.87	448.81	386.54	62.27	7.208	
14,000.00	12,037.93	14,379.38	12,390.08	39.33	40.68	-141.71	-2,511.36	1,180.77	448.66	385.20	63.46	7.070	
14,100.00	12,038.64	14,479.38	12,390.61	40.54	41.84	-141.70	-2,611.35	1,181.68	448.52	383.83	64.69	6.933	
14,200.00	12,039.35	14,579.38	12,391.13	41.75	43.01	-141.68	-2,711.35	1,182.59	448.38	382.42	65.95	6.798	
14,300.00	12,040.06	14,679.38	12,391.66	42.97	44.20	-141.67	-2,811.34	1,183.50	448.23	380.99	67.24	6.666	
14,400.00	12,040.77	14,779.38	12,392.18	44.20	45.39	-141.65	-2,911.34	1,184.41	448.09	379.53	68.55	6.536	
14,500.00	12,041.48	14,879.38	12,392.71	45.44	46.59	-141.64	-3,011.33	1,185.32	447.94	378.05	69.89	6.409	
14,600.00	12,042.19	14,979.38	12,393.24	46.69	47.80	-141.62	-3,111.32	1,186.23	447.80	376.55	71.26	6.284	
14,700.00	12,042.89	15,079.38	12,393.76	47.94	49.02	-141.61	-3,211.32	1,187.13	447.66	375.02	72.64	6.163	
14,800.00	12,043.60	15,179.38	12,394.29	49.20	50.24	-141.59	-3,311.31	1,188.04	447.51	373.47	74.05	6.044	
14,900.00	12,044.31	15,279.38	12,394.81	50.46	51.47	-141.58	-3,411.31	1,188.95	447.37	371.90	75.47	5.927	
15,000.00	12,045.02	15,379.38	12,395.34	51.73	52.71	-141.57	-3,511.30	1,189.86	447.23	370.31	76.92	5.814	
15,100.00	12,045.73	15,479.38	12,395.86	53.01	53.95	-141.55	-3,611.30	1,190.77	447.08	368.70	78.38	5.704	
15,200.00	12,046.44	15,579.38	12,396.39	54.28	55.20	-141.54	-3,711.29	1,191.68	446.94	367.07	79.87	5.596	
15,300.00	12,047.15	15,679.38	12,396.92	55.57	56.46	-141.52	-3,811.29	1,192.59	446.80	365.43	81.36	5.491	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 218H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	12,047.86	15,779.38	12,397.44	56.85	57.72	-141.51	-3,911.28	1,193.49	446.65	363.78	82.88	5.389	
15,500.00	12,048.57	15,879.38	12,397.97	58.14	58.98	-141.49	-4,011.27	1,194.40	446.51	362.10	84.41	5.290	
15,600.00	12,049.28	15,979.38	12,398.49	59.44	60.25	-141.48	-4,111.27	1,195.31	446.37	360.42	85.95	5.193	
15,700.00	12,049.99	16,079.38	12,399.02	60.73	61.53	-141.46	-4,211.26	1,196.22	446.22	358.72	87.50	5.100	
15,800.00	12,050.69	16,179.38	12,399.55	62.03	62.80	-141.45	-4,311.26	1,197.13	446.08	357.01	89.07	5.008	
15,900.00	12,051.40	16,279.38	12,400.07	63.33	64.08	-141.43	-4,411.25	1,198.04	445.94	355.28	90.65	4.919	
16,000.00	12,052.11	16,379.38	12,400.60	64.64	65.37	-141.42	-4,511.25	1,198.95	445.79	353.55	92.24	4.833	
16,100.00	12,052.82	16,479.38	12,401.12	65.95	66.65	-141.40	-4,611.24	1,199.85	445.65	351.80	93.85	4.749	
16,200.00	12,053.53	16,579.38	12,401.65	67.26	67.94	-141.39	-4,711.23	1,200.76	445.51	350.05	95.46	4.667	
16,300.00	12,054.24	16,679.38	12,402.18	68.57	69.24	-141.38	-4,811.23	1,201.67	445.36	348.28	97.08	4.587	
16,400.00	12,054.95	16,779.38	12,402.70	69.88	70.53	-141.36	-4,911.22	1,202.58	445.22	346.50	98.72	4.510	
16,500.00	12,055.66	16,879.37	12,403.23	71.20	71.83	-141.35	-5,011.22	1,203.49	445.08	344.72	100.36	4.435	
16,600.00	12,056.37	16,979.37	12,403.75	72.52	73.13	-141.33	-5,111.21	1,204.40	444.93	342.92	102.01	4.362	
16,700.00	12,057.08	17,079.37	12,404.28	73.84	74.43	-141.32	-5,211.21	1,205.30	444.79	341.12	103.67	4.291	
16,800.00	12,057.79	17,179.37	12,404.80	75.16	75.74	-141.30	-5,311.20	1,206.21	444.65	339.31	105.34	4.221	
16,900.00	12,058.49	17,279.37	12,405.33	76.48	77.05	-141.29	-5,411.19	1,207.12	444.50	337.49	107.01	4.154	
17,000.00	12,059.20	17,379.37	12,405.86	77.81	78.36	-141.27	-5,511.19	1,208.03	444.36	335.67	108.69	4.088	
17,100.00	12,059.91	17,479.37	12,406.38	79.14	79.67	-141.26	-5,611.18	1,208.94	444.22	333.84	110.38	4.024	
17,200.00	12,060.62	17,579.37	12,406.91	80.46	80.98	-141.24	-5,711.18	1,209.85	444.07	332.00	112.08	3.962	
17,300.00	12,061.33	17,679.37	12,407.43	81.79	82.30	-141.23	-5,811.17	1,210.76	443.93	330.15	113.78	3.902	
17,400.00	12,062.04	17,779.37	12,407.96	83.12	83.62	-141.21	-5,911.17	1,211.66	443.79	328.30	115.49	3.843	
17,500.00	12,062.75	17,879.37	12,408.49	84.45	84.93	-141.20	-6,011.16	1,212.57	443.65	326.44	117.21	3.785	
17,600.00	12,063.46	17,979.37	12,409.01	85.79	86.25	-141.18	-6,111.15	1,213.48	443.50	324.57	118.93	3.729	
17,700.00	12,064.17	18,079.37	12,409.54	87.12	87.58	-141.17	-6,211.15	1,214.39	443.36	322.70	120.66	3.675	
17,800.00	12,064.88	18,179.37	12,410.06	88.46	88.90	-141.15	-6,311.14	1,215.30	443.22	320.83	122.39	3.621	
17,900.00	12,065.59	18,279.37	12,410.59	89.79	90.22	-141.14	-6,411.14	1,216.21	443.08	318.95	124.13	3.570	
18,000.00	12,066.29	18,379.37	12,411.11	91.13	91.55	-141.12	-6,511.13	1,217.12	442.93	317.06	125.87	3.519	
18,100.00	12,067.00	18,479.37	12,411.64	92.47	92.87	-141.11	-6,611.13	1,218.02	442.79	315.17	127.62	3.470	
18,200.00	12,067.71	18,579.37	12,412.17	93.81	94.20	-141.09	-6,711.12	1,218.93	442.65	313.28	129.37	3.422	
18,300.00	12,068.42	18,679.37	12,412.69	95.15	95.53	-141.08	-6,811.11	1,219.84	442.50	311.38	131.13	3.375	
18,400.00	12,069.13	18,779.37	12,413.22	96.49	96.86	-141.06	-6,911.11	1,220.75	442.36	309.47	132.89	3.329	
18,500.00	12,069.84	18,879.37	12,413.74	97.83	98.19	-141.05	-7,011.10	1,221.66	442.22	307.56	134.66	3.284	
18,600.00	12,070.55	18,979.37	12,414.27	99.17	99.53	-141.03	-7,111.10	1,222.57	442.08	305.65	136.43	3.240	
18,700.00	12,071.26	19,079.37	12,414.80	100.51	100.86	-141.02	-7,211.09	1,223.47	441.93	303.73	138.20	3.198	
18,800.00	12,071.97	19,179.37	12,415.32	101.86	102.19	-141.00	-7,311.09	1,224.38	441.79	301.81	139.98	3.156	
18,900.00	12,072.68	19,279.37	12,415.85	103.20	103.53	-140.99	-7,411.08	1,225.29	441.65	299.89	141.76	3.115	
19,000.00	12,073.39	19,379.37	12,416.37	104.55	104.86	-140.97	-7,511.08	1,226.20	441.51	297.96	143.55	3.076	
19,100.00	12,074.09	19,479.37	12,416.90	105.89	106.20	-140.96	-7,611.07	1,227.11	441.36	296.02	145.34	3.037	
19,200.00	12,074.80	19,579.37	12,417.42	107.24	107.54	-140.94	-7,711.06	1,228.02	441.22	294.09	147.13	2.999	
19,300.00	12,075.51	19,679.37	12,417.95	108.58	108.88	-140.93	-7,811.06	1,228.93	441.08	292.15	148.93	2.962	
19,400.00	12,076.22	19,779.37	12,418.48	109.93	110.22	-140.91	-7,911.05	1,229.83	440.94	290.21	150.73	2.925	
19,500.00	12,076.93	19,879.37	12,419.00	111.28	111.56	-140.90	-8,011.05	1,230.74	440.80	288.26	152.54	2.890	
19,600.00	12,077.64	19,979.37	12,419.53	112.63	112.90	-140.88	-8,111.04	1,231.65	440.65	286.31	154.34	2.855	
19,700.00	12,078.35	20,079.37	12,420.05	113.98	114.24	-140.87	-8,211.04	1,232.56	440.51	284.36	156.15	2.821	
19,800.00	12,079.06	20,179.37	12,420.58	115.33	115.58	-140.85	-8,311.03	1,233.47	440.37	282.40	157.97	2.788	
19,900.00	12,079.77	20,279.37	12,421.11	116.68	116.92	-140.84	-8,411.02	1,234.38	440.23	280.44	159.78	2.755	
20,000.00	12,080.48	20,379.37	12,421.63	118.03	118.27	-140.82	-8,511.02	1,235.29	440.08	278.48	161.60	2.723	
20,100.00	12,081.18	20,479.37	12,422.16	119.38	119.61	-140.81	-8,611.01	1,236.19	439.94	276.52	163.42	2.692	
20,200.00	12,081.89	20,579.37	12,422.68	120.73	120.95	-140.79	-8,711.01	1,237.10	439.80	274.55	165.25	2.661	
20,300.00	12,082.60	20,679.37	12,423.21	122.08	122.30	-140.78	-8,811.00	1,238.01	439.66	272.58	167.08	2.631	
20,400.00	12,083.31	20,779.37	12,423.74	123.43	123.64	-140.76	-8,911.00	1,238.92	439.52	270.61	168.91	2.602	
20,500.00	12,084.02	20,879.37	12,424.26	124.78	124.99	-140.75	-9,010.99	1,239.83	439.37	268.63	170.74	2.573	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 218H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,084.73	20,979.37	12,424.79	126.14	126.34	-140.73	-9,110.98	1,240.74	439.23	266.66	172.58	2.545	
20,700.00	12,085.44	21,079.37	12,425.31	127.49	127.68	-140.72	-9,210.98	1,241.65	439.09	264.68	174.42	2.518	
20,800.00	12,086.15	21,179.37	12,425.84	128.84	129.03	-140.70	-9,310.97	1,242.55	438.95	262.69	176.26	2.490	
20,900.00	12,086.86	21,279.37	12,426.36	130.20	130.38	-140.69	-9,410.97	1,243.46	438.81	260.71	178.10	2.464	
21,000.00	12,087.57	21,379.37	12,426.89	131.55	131.73	-140.67	-9,510.96	1,244.37	438.67	258.72	179.94	2.438	
21,100.00	12,088.28	21,479.37	12,427.42	132.90	133.07	-140.66	-9,610.96	1,245.28	438.52	256.73	181.79	2.412	
21,200.00	12,088.98	21,579.37	12,427.94	134.26	134.42	-140.64	-9,710.95	1,246.19	438.38	254.74	183.64	2.387	
21,300.00	12,089.69	21,679.37	12,428.47	135.61	135.77	-140.63	-9,810.94	1,247.10	438.24	252.74	185.50	2.363	
21,400.00	12,090.40	21,779.37	12,428.99	136.97	137.12	-140.61	-9,910.94	1,248.00	438.10	250.75	187.35	2.338	
21,500.00	12,091.11	21,879.37	12,429.52	138.32	138.47	-140.60	-10,010.93	1,248.91	437.96	248.75	189.21	2.315	
21,600.00	12,091.82	21,979.37	12,430.05	139.68	139.82	-140.58	-10,110.93	1,249.82	437.81	246.75	191.07	2.291	
21,700.00	12,092.53	22,079.37	12,430.57	141.04	141.17	-140.57	-10,210.92	1,250.73	437.67	244.75	192.93	2.269	
21,800.00	12,093.24	22,179.37	12,431.10	142.39	142.52	-140.55	-10,310.92	1,251.64	437.53	242.74	194.79	2.246	
21,900.00	12,093.95	22,279.37	12,431.62	143.75	143.88	-140.54	-10,410.91	1,252.55	437.39	240.73	196.66	2.224	
22,000.00	12,094.66	22,379.37	12,432.15	145.11	145.23	-140.52	-10,510.90	1,253.46	437.25	238.72	198.52	2.202	
22,100.00	12,095.37	22,479.37	12,432.67	146.46	146.58	-140.51	-10,610.90	1,254.36	437.11	236.71	200.39	2.181	
22,200.00	12,096.08	22,579.37	12,433.20	147.82	147.93	-140.49	-10,710.89	1,255.27	436.97	234.70	202.27	2.160	
22,300.00	12,096.78	22,679.37	12,433.73	149.18	149.29	-140.48	-10,810.89	1,256.18	436.82	232.69	204.14	2.140	
22,386.82	12,097.40	22,766.19	12,434.18	150.36	150.46	-140.46	-10,897.70	1,256.97	436.70	230.94	205.77	2.122	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 223H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	0.00	0.50	0.50	6.79	210.00	25.00	211.48				
100.00	100.00	102.00	100.00	0.98	0.99	6.79	210.00	25.00	211.48	209.51	1.97	107.182	
200.00	200.00	202.00	200.00	1.56	1.57	6.79	210.00	25.00	211.48	208.35	3.13	67.554	
300.00	300.00	302.00	300.00	1.98	1.99	6.79	210.00	25.00	211.48	207.51	3.97	53.280	
400.00	400.00	402.00	400.00	2.33	2.34	6.79	210.00	25.00	211.48	206.82	4.66	45.335	
500.00	500.00	502.00	500.00	2.63	2.64	6.79	210.00	25.00	211.48	206.21	5.27	40.095	
600.00	600.00	602.00	600.00	2.91	2.92	6.79	210.00	25.00	211.48	205.66	5.83	36.305	CC
600.05	600.05	602.05	600.05	2.91	2.92	6.79	210.00	25.00	211.48	205.66	5.83	36.304	
700.00	700.00	702.00	700.00	3.02	3.17	-123.28	210.00	25.00	211.66	205.47	6.19	34.205	ES
800.00	799.96	801.96	799.96	3.31	3.40	-123.85	210.00	25.00	213.11	206.44	6.67	31.947	
900.00	899.82	901.82	899.82	3.59	3.63	-124.97	210.00	25.00	216.07	208.94	7.13	30.308	
1,000.00	999.51	1,001.51	999.51	3.76	3.84	-126.58	210.00	25.00	220.65	213.15	7.50	29.437	
1,100.00	1,099.13	1,101.13	1,099.13	3.96	4.04	-128.35	210.00	25.00	225.96	218.05	7.91	28.576	
1,200.00	1,198.75	1,200.75	1,198.75	4.17	4.23	-130.04	210.00	25.00	231.48	223.18	8.31	27.867	
1,300.00	1,298.37	1,300.37	1,298.37	4.37	4.42	-131.65	210.00	25.00	237.20	228.50	8.70	27.279	
1,400.00	1,397.99	1,399.99	1,397.99	4.57	4.60	-133.18	210.00	25.00	243.09	234.01	9.08	26.774	
1,500.00	1,497.50	1,499.50	1,497.50	4.79	4.78	-128.78	210.00	25.00	249.52	240.07	9.46	26.379	
1,600.00	1,596.74	1,598.74	1,596.74	5.02	4.95	-126.90	210.00	25.00	257.06	247.21	9.84	26.114	
1,700.00	1,695.65	1,697.65	1,695.65	5.25	5.11	-126.63	210.00	25.00	265.93	255.70	10.23	25.996	
1,800.00	1,794.15	1,796.15	1,794.15	5.48	5.27	-127.39	210.00	25.00	276.40	265.78	10.62	26.030	
1,900.00	1,892.17	1,894.17	1,892.17	5.71	5.43	-128.84	210.00	25.00	288.74	277.73	11.01	26.223	
2,000.00	1,989.70	1,991.70	1,989.70	5.85	5.58	-131.24	210.00	25.00	303.09	291.76	11.33	26.761	
2,100.00	2,087.14	2,092.38	2,090.37	6.05	5.74	-134.52	209.18	24.24	318.12	306.42	11.70	27.187	
2,200.00	2,184.58	2,192.82	2,190.74	6.25	5.89	-137.91	206.44	21.69	333.09	321.05	12.05	27.646	
2,300.00	2,282.02	2,292.59	2,290.30	6.45	6.04	-141.38	201.80	17.37	348.28	335.89	12.39	28.114	
2,400.00	2,379.46	2,391.54	2,388.86	6.66	6.19	-144.92	195.32	11.34	363.94	351.22	12.72	28.609	
2,500.00	2,476.89	2,489.56	2,486.22	6.90	6.34	-148.50	187.06	3.66	380.36	367.31	13.05	29.146	
2,600.00	2,574.33	2,586.54	2,582.24	7.17	6.49	-152.10	177.10	-5.62	397.79	384.42	13.38	29.738	
2,700.00	2,671.77	2,682.37	2,676.74	7.45	6.63	-155.69	165.50	-16.41	416.49	402.79	13.70	30.394	
2,800.00	2,769.21	2,776.94	2,769.59	7.73	6.78	-159.24	152.35	-28.64	436.69	422.65	14.03	31.120	
2,900.00	2,866.65	2,870.66	2,861.28	8.01	6.91	-162.66	138.14	-41.86	458.54	444.17	14.37	31.915	
3,000.00	2,964.08	2,964.37	2,952.94	8.29	7.04	-165.79	123.88	-55.13	481.93	467.22	14.71	32.761	
3,100.00	3,061.52	3,058.08	3,044.61	8.58	7.17	-168.65	109.62	-68.40	506.65	491.59	15.06	33.639	
3,200.00	3,158.96	3,151.79	3,136.27	8.87	7.30	-171.24	95.36	-81.67	532.51	517.09	15.42	34.534	
3,300.00	3,256.40	3,245.50	3,227.93	9.16	7.43	-173.61	81.10	-94.94	559.36	543.57	15.79	35.433	
3,400.00	3,353.84	3,339.20	3,319.59	9.46	7.57	-175.77	66.84	-108.21	587.05	570.89	16.16	36.327	
3,500.00	3,451.27	3,432.91	3,411.25	9.75	7.72	-177.74	52.58	-121.47	615.48	598.94	16.54	37.205	
3,600.00	3,548.71	3,526.62	3,502.92	10.05	7.89	-179.54	38.32	-134.74	644.55	627.63	16.93	38.083	
3,700.00	3,646.15	3,620.33	3,594.58	10.34	8.08	178.81	24.06	-148.01	674.17	656.85	17.32	38.928	
3,800.00	3,743.59	3,714.04	3,686.24	10.64	8.28	177.30	9.80	-161.28	704.28	686.56	17.72	39.751	
3,900.00	3,841.03	3,807.75	3,777.90	10.94	8.49	175.91	-4.46	-174.55	734.81	716.69	18.12	40.550	
4,000.00	3,938.47	3,901.46	3,869.56	11.24	8.69	174.62	-18.72	-187.82	765.71	747.18	18.53	41.324	
4,100.00	4,035.90	3,995.17	3,961.23	11.54	8.91	173.43	-32.98	-201.08	796.95	778.01	18.94	42.071	
4,200.00	4,133.34	4,088.87	4,052.89	11.84	9.12	172.34	-47.24	-214.35	828.48	809.12	19.36	42.793	
4,300.00	4,230.78	4,182.58	4,144.55	12.14	9.34	171.31	-61.50	-227.62	860.27	840.49	19.78	43.488	
4,400.00	4,328.22	4,276.29	4,236.21	12.45	9.57	170.37	-75.76	-240.89	892.29	872.09	20.21	44.159	
4,500.00	4,425.66	4,370.00	4,327.87	12.75	9.79	169.48	-90.02	-254.16	924.53	903.89	20.63	44.804	
4,600.00	4,523.09	4,463.71	4,419.54	13.05	10.02	168.66	-104.28	-267.43	956.95	935.88	21.07	45.426	
4,700.00	4,620.53	4,557.42	4,511.20	13.36	10.25	167.88	-118.54	-280.70	989.54	968.03	21.50	46.023	
4,800.00	4,717.97	4,651.13	4,602.86	13.66	10.48	167.16	-132.80	-293.96	1,022.28	1,000.34	21.94	46.599	
4,900.00	4,815.41	4,744.84	4,694.52	13.97	10.72	166.48	-147.06	-307.23	1,055.16	1,032.78	22.38	47.153	
5,000.00	4,912.85	4,838.54	4,786.18	14.27	10.95	165.84	-161.32	-320.50	1,088.17	1,065.35	22.82	47.686	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 223H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,010.28	4,932.25	4,877.85	14.58	11.19	165.24	-175.58	-333.77	1,121.29	1,098.03	23.26	48.198	
5,200.00	5,107.72	5,025.96	4,969.51	14.89	11.43	164.67	-189.84	-347.04	1,154.52	1,130.81	23.71	48.692	
5,300.00	5,205.30	5,119.85	5,061.34	15.16	11.67	164.22	-204.13	-360.33	1,187.28	1,163.14	24.14	49.193	
5,400.00	5,303.38	5,214.41	5,153.84	15.44	11.92	163.81	-218.52	-373.72	1,217.86	1,193.27	24.59	49.524	
5,500.00	5,401.95	5,309.62	5,246.97	15.69	12.17	163.37	-233.00	-387.20	1,246.15	1,221.10	25.04	49.760	
5,600.00	5,500.92	5,405.41	5,340.67	15.91	12.42	162.92	-247.58	-400.76	1,272.13	1,246.64	25.49	49.908	
5,700.00	5,600.23	5,501.72	5,434.88	16.10	12.68	162.45	-262.24	-414.40	1,295.81	1,269.88	25.93	49.977	
5,800.00	5,699.82	5,598.48	5,529.53	16.26	12.93	161.95	-276.96	-428.10	1,317.19	1,290.84	26.36	49.974	
5,900.00	5,799.60	5,695.63	5,624.55	16.39	13.19	161.43	-291.75	-441.86	1,336.28	1,309.51	26.78	49.906	
6,000.00	5,899.53	5,793.10	5,719.89	16.50	13.46	160.88	-306.58	-455.66	1,353.08	1,325.91	27.18	49.786	
6,100.00	5,999.52	5,890.81	5,815.47	16.57	13.72	-86.79	-321.45	-469.49	1,367.61	1,340.11	27.50	49.723	
6,200.00	6,099.52	5,988.63	5,911.15	16.62	13.98	-87.44	-336.33	-483.34	1,381.16	1,353.37	27.79	49.704	
6,300.00	6,199.52	6,095.55	6,015.77	16.66	14.25	-88.14	-352.47	-498.36	1,394.79	1,366.71	28.08	49.668	
6,400.00	6,299.52	6,225.81	6,143.86	16.70	14.56	-88.87	-369.78	-514.46	1,406.92	1,378.43	28.49	49.385	
6,500.00	6,399.52	6,357.57	6,274.18	16.74	14.84	-89.46	-384.02	-527.72	1,416.89	1,388.02	28.86	49.090	
6,600.00	6,499.52	6,490.54	6,406.28	16.79	15.08	-89.91	-395.05	-537.98	1,424.59	1,395.39	29.20	48.786	
6,700.00	6,599.52	6,624.41	6,539.73	16.83	15.28	-90.21	-402.75	-545.14	1,429.95	1,400.46	29.50	48.481	
6,800.00	6,699.52	6,758.85	6,674.04	16.88	15.42	-90.39	-407.03	-549.13	1,432.94	1,403.19	29.74	48.174	
6,900.00	6,799.52	6,884.34	6,799.52	16.92	15.48	-90.42	-407.97	-550.00	1,433.59	1,403.71	29.88	47.979	
7,000.00	6,899.52	6,984.34	6,899.52	16.96	15.52	-90.42	-407.97	-550.00	1,433.59	1,403.63	29.96	47.853	
7,100.00	6,999.52	7,084.34	6,999.52	17.01	15.56	-90.42	-407.97	-550.00	1,433.59	1,403.55	30.04	47.719	
7,200.00	7,099.52	7,184.34	7,099.52	17.05	15.60	-90.42	-407.97	-550.00	1,433.59	1,403.46	30.13	47.584	
7,300.00	7,199.52	7,284.34	7,199.52	17.10	15.64	-90.42	-407.97	-550.00	1,433.59	1,403.38	30.21	47.449	
7,400.00	7,299.52	7,384.34	7,299.52	17.15	15.68	-90.42	-407.97	-550.00	1,433.59	1,403.29	30.30	47.314	
7,500.00	7,399.52	7,484.34	7,399.52	17.19	15.72	-90.42	-407.97	-550.00	1,433.59	1,403.20	30.39	47.179	
7,600.00	7,499.52	7,584.34	7,499.52	17.24	15.77	-90.42	-407.97	-550.00	1,433.59	1,403.12	30.47	47.044	
7,700.00	7,599.52	7,684.34	7,599.52	17.28	15.81	-90.42	-407.97	-550.00	1,433.59	1,403.03	30.56	46.908	
7,800.00	7,699.52	7,784.34	7,699.52	17.33	15.85	-90.42	-407.97	-550.00	1,433.59	1,402.94	30.65	46.772	
7,900.00	7,799.52	7,884.34	7,799.52	17.38	15.90	-90.42	-407.97	-550.00	1,433.59	1,402.85	30.74	46.637	
8,000.00	7,899.52	7,984.34	7,899.52	17.43	15.94	-90.42	-407.97	-550.00	1,433.59	1,402.76	30.83	46.501	
8,100.00	7,999.52	8,084.34	7,999.52	17.47	15.98	-90.42	-407.97	-550.00	1,433.59	1,402.67	30.92	46.364	
8,200.00	8,099.52	8,184.34	8,099.52	17.52	16.03	-90.42	-407.97	-550.00	1,433.59	1,402.58	31.01	46.228	
8,300.00	8,199.52	8,284.34	8,199.52	17.57	16.07	-90.42	-407.97	-550.00	1,433.59	1,402.49	31.10	46.092	
8,400.00	8,299.52	8,384.34	8,299.52	17.62	16.12	-90.42	-407.97	-550.00	1,433.59	1,402.39	31.20	45.956	
8,500.00	8,399.52	8,484.34	8,399.52	17.67	16.16	-90.42	-407.97	-550.00	1,433.59	1,402.30	31.29	45.819	
8,600.00	8,499.52	8,584.34	8,499.52	17.71	16.21	-90.42	-407.97	-550.00	1,433.59	1,402.21	31.38	45.683	
8,700.00	8,599.52	8,684.34	8,599.52	17.76	16.25	-90.42	-407.97	-550.00	1,433.59	1,402.11	31.48	45.546	
8,800.00	8,699.52	8,784.34	8,699.52	17.81	16.30	-90.42	-407.97	-550.00	1,433.59	1,402.02	31.57	45.410	
8,900.00	8,799.52	8,884.34	8,799.52	17.86	16.34	-90.42	-407.97	-550.00	1,433.59	1,401.92	31.66	45.274	
9,000.00	8,899.52	8,984.34	8,899.52	17.91	16.39	-90.42	-407.97	-550.00	1,433.59	1,401.83	31.76	45.137	
9,100.00	8,999.52	9,084.34	8,999.52	17.96	16.44	-90.42	-407.97	-550.00	1,433.59	1,401.73	31.86	45.001	
9,200.00	9,099.52	9,184.34	9,099.52	18.01	16.48	-90.42	-407.97	-550.00	1,433.59	1,401.64	31.95	44.865	
9,300.00	9,199.52	9,284.34	9,199.52	18.06	16.53	-90.42	-407.97	-550.00	1,433.59	1,401.54	32.05	44.728	
9,400.00	9,299.52	9,384.34	9,299.52	18.11	16.58	-90.42	-407.97	-550.00	1,433.59	1,401.44	32.15	44.592	
9,500.00	9,399.52	9,484.34	9,399.52	18.16	16.63	-90.42	-407.97	-550.00	1,433.59	1,401.34	32.25	44.456	
9,600.00	9,499.52	9,584.34	9,499.52	18.22	16.68	-90.42	-407.97	-550.00	1,433.59	1,401.24	32.35	44.320	
9,700.00	9,599.52	9,684.34	9,599.52	18.27	16.72	-90.42	-407.97	-550.00	1,433.59	1,401.14	32.45	44.185	
9,800.00	9,699.52	9,784.34	9,699.52	18.32	16.77	-90.42	-407.97	-550.00	1,433.59	1,401.04	32.55	44.049	
9,900.00	9,799.52	9,884.34	9,799.52	18.37	16.82	-90.42	-407.97	-550.00	1,433.59	1,400.94	32.65	43.913	
10,000.00	9,899.52	9,984.34	9,899.52	18.42	16.87	-90.42	-407.97	-550.00	1,433.59	1,400.84	32.75	43.778	
10,100.00	9,999.52	10,084.34	9,999.52	18.47	16.92	-90.42	-407.97	-550.00	1,433.59	1,400.74	32.85	43.643	
10,200.00	10,099.52	10,184.34	10,099.52	18.53	16.97	-90.42	-407.97	-550.00	1,433.59	1,400.64	32.95	43.508	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 223H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Rule Assigned: Warning
10,300.00	10,199.52	10,284.34	10,199.52	18.58	17.02	-90.42	-407.97	-550.00	1,433.59	1,400.54	33.05	43.373	
10,400.00	10,299.52	10,384.34	10,299.52	18.63	17.07	-90.42	-407.97	-550.00	1,433.59	1,400.43	33.16	43.239	
10,500.00	10,399.52	10,484.34	10,399.52	18.69	17.12	-90.42	-407.97	-550.00	1,433.59	1,400.33	33.26	43.104	
10,600.00	10,499.52	10,584.34	10,499.52	18.74	17.17	-90.42	-407.97	-550.00	1,433.59	1,400.23	33.36	42.970	
10,700.00	10,599.52	10,684.34	10,599.52	18.79	17.22	-90.42	-407.97	-550.00	1,433.59	1,400.12	33.47	42.836	
10,800.00	10,699.52	10,784.34	10,699.52	18.85	17.27	-90.42	-407.97	-550.00	1,433.59	1,400.02	33.57	42.702	
10,900.00	10,799.52	10,884.34	10,799.52	18.90	17.32	-90.42	-407.97	-550.00	1,433.59	1,399.91	33.68	42.569	
11,000.00	10,899.52	10,984.34	10,899.52	18.95	17.38	-90.42	-407.97	-550.00	1,433.59	1,399.81	33.78	42.435	
11,100.00	10,999.52	11,084.34	10,999.52	19.01	17.43	-90.42	-407.97	-550.00	1,433.59	1,399.70	33.89	42.303	
11,200.00	11,099.52	11,184.34	11,099.52	19.06	17.48	-90.42	-407.97	-550.00	1,433.59	1,399.59	34.00	42.170	
11,300.00	11,199.52	11,284.34	11,199.52	19.12	17.53	-90.42	-407.97	-550.00	1,433.59	1,399.49	34.10	42.037	
11,400.00	11,299.52	11,384.34	11,299.52	19.17	17.59	-90.42	-407.97	-550.00	1,433.59	1,399.38	34.21	41.905	
11,500.00	11,399.52	11,484.34	11,399.52	19.23	17.64	-90.42	-407.97	-550.00	1,433.59	1,399.27	34.32	41.773	
11,502.48	11,401.99	11,486.82	11,401.99	19.23	17.64	90.10	-407.97	-550.00	1,433.59	1,399.27	34.32	41.771	
11,600.00	11,499.47	11,584.29	11,499.47	19.29	17.69	90.17	-407.97	-550.00	1,433.59	1,399.19	34.40	41.672	
11,700.00	11,597.96	11,682.78	11,597.96	19.45	17.74	90.81	-407.97	-550.00	1,433.74	1,399.22	34.52	41.535	
11,800.00	11,692.07	11,776.90	11,692.07	19.66	17.79	91.97	-407.97	-550.00	1,434.61	1,399.91	34.70	41.344	
11,900.00	11,778.95	11,863.78	11,778.95	19.93	17.84	93.40	-407.97	-550.00	1,437.32	1,402.37	34.94	41.132	
12,000.00	11,855.96	11,940.78	11,855.96	20.27	17.88	94.75	-407.97	-550.00	1,443.29	1,408.05	35.25	40.948	
12,100.00	11,920.75	12,005.58	11,920.75	20.70	17.92	95.62	-407.97	-550.00	1,454.05	1,418.46	35.60	40.847	
12,200.00	11,971.37	12,056.19	11,971.37	21.23	17.95	95.64	-407.97	-550.00	1,470.90	1,434.93	35.97	40.887	
12,300.00	12,006.26	12,091.08	12,006.26	21.86	17.96	94.49	-407.97	-550.00	1,494.63	1,458.28	36.35	41.114	
12,400.00	12,024.37	12,109.20	12,024.37	22.58	17.97	91.98	-407.97	-550.00	1,525.32	1,488.62	36.70	41.558	
12,500.00	12,027.30	12,112.12	12,027.30	23.37	17.98	90.18	-407.97	-550.00	1,562.28	1,525.27	37.00	42.219	
12,600.00	12,028.00	13,400.00	12,796.97	24.23	24.46	119.26	-1,169.89	-481.30	1,573.19	1,524.10	49.09	32.046	
12,700.00	12,028.71	13,461.25	12,797.30	25.13	25.10	119.27	-1,231.12	-480.09	1,571.88	1,521.64	50.24	31.286	
12,800.00	12,029.42	13,554.39	12,797.79	26.08	26.10	119.27	-1,324.26	-479.24	1,571.77	1,520.02	51.75	30.373	
12,801.52	12,029.43	13,555.91	12,797.79	26.09	26.12	119.27	-1,325.78	-479.23	1,571.77	1,520.00	51.77	30.359	
12,900.00	12,030.13	13,654.39	12,798.31	27.06	27.21	119.26	-1,424.25	-478.33	1,571.68	1,518.29	53.39	29.439	
13,000.00	12,030.84	13,754.39	12,798.84	28.07	28.33	119.25	-1,524.24	-477.42	1,571.59	1,516.51	55.08	28.531	
13,100.00	12,031.55	13,854.39	12,799.36	29.10	29.48	119.25	-1,624.24	-476.51	1,571.50	1,514.66	56.84	27.650	
13,200.00	12,032.26	13,954.39	12,799.89	30.17	30.64	119.24	-1,724.23	-475.60	1,571.41	1,512.77	58.64	26.799	
13,300.00	12,032.97	14,054.39	12,800.42	31.25	31.82	119.24	-1,824.23	-474.69	1,571.32	1,510.84	60.48	25.980	
13,400.00	12,033.68	14,154.39	12,800.94	32.36	33.02	119.23	-1,924.22	-473.78	1,571.23	1,508.86	62.37	25.193	
13,500.00	12,034.39	14,254.39	12,801.47	33.49	34.22	119.23	-2,024.22	-472.87	1,571.14	1,506.85	64.29	24.439	
13,600.00	12,035.10	14,354.39	12,801.99	34.63	35.44	119.22	-2,124.21	-471.96	1,571.05	1,504.80	66.25	23.716	
13,700.00	12,035.80	14,454.39	12,802.52	35.78	36.67	119.21	-2,224.20	-471.05	1,570.95	1,502.72	68.23	23.023	
13,800.00	12,036.51	14,554.39	12,803.05	36.95	37.91	119.21	-2,324.20	-470.14	1,570.86	1,500.62	70.25	22.361	
13,900.00	12,037.22	14,654.39	12,803.57	38.14	39.15	119.20	-2,424.19	-469.23	1,570.77	1,498.48	72.29	21.729	
14,000.00	12,037.93	14,754.39	12,804.10	39.33	40.41	119.20	-2,524.19	-468.32	1,570.68	1,496.33	74.36	21.124	
14,100.00	12,038.64	14,854.39	12,804.62	40.54	41.67	119.19	-2,624.18	-467.41	1,570.59	1,494.15	76.44	20.546	
14,200.00	12,039.35	14,954.39	12,805.15	41.75	42.93	119.18	-2,724.18	-466.50	1,570.50	1,491.95	78.55	19.993	
14,300.00	12,040.06	15,054.39	12,805.68	42.97	44.21	119.18	-2,824.17	-465.59	1,570.41	1,489.73	80.68	19.465	
14,400.00	12,040.77	15,154.39	12,806.20	44.20	45.49	119.17	-2,924.16	-464.68	1,570.32	1,487.50	82.82	18.960	
14,500.00	12,041.48	15,254.39	12,806.73	45.44	46.77	119.17	-3,024.16	-463.77	1,570.23	1,485.25	84.98	18.477	
14,600.00	12,042.19	15,354.39	12,807.25	46.69	48.06	119.16	-3,124.15	-462.86	1,570.14	1,482.98	87.16	18.015	
14,700.00	12,042.89	15,454.39	12,807.78	47.94	49.35	119.16	-3,224.15	-461.95	1,570.05	1,480.70	89.35	17.573	
14,800.00	12,043.60	15,554.39	12,808.31	49.20	50.65	119.15	-3,324.14	-461.04	1,569.96	1,478.41	91.55	17.149	
14,900.00	12,044.31	15,654.39	12,808.83	50.46	51.95	119.14	-3,424.14	-460.13	1,569.87	1,476.11	93.76	16.743	
15,000.00	12,045.02	15,754.39	12,809.36	51.73	53.25	119.14	-3,524.13	-459.22	1,569.78	1,473.79	95.99	16.354	
15,100.00	12,045.73	15,854.38	12,809.88	53.01	54.56	119.13	-3,624.12	-458.30	1,569.69	1,471.46	98.22	15.981	
15,200.00	12,046.44	15,954.38	12,810.41	54.28	55.86	119.13	-3,724.12	-457.39	1,569.59	1,469.13	100.46	15.623	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 223H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,300.00	12,047.15	16,054.38	12,810.94	55.57	57.18	119.12	-3,824.11	-456.48	1,569.50	1,466.79	102.72	15.280	
15,400.00	12,047.86	16,154.38	12,811.46	56.85	58.49	119.11	-3,924.11	-455.57	1,569.41	1,464.43	104.98	14.950	
15,500.00	12,048.57	16,254.38	12,811.99	58.14	59.81	119.11	-4,024.10	-454.66	1,569.32	1,462.07	107.25	14.632	
15,600.00	12,049.28	16,354.38	12,812.51	59.44	61.13	119.10	-4,124.10	-453.75	1,569.23	1,459.70	109.53	14.327	
15,700.00	12,049.99	16,454.38	12,813.04	60.73	62.45	119.10	-4,224.09	-452.84	1,569.14	1,457.33	111.81	14.034	
15,800.00	12,050.69	16,554.38	12,813.57	62.03	63.77	119.09	-4,324.08	-451.93	1,569.05	1,454.95	114.10	13.751	
15,900.00	12,051.40	16,654.38	12,814.09	63.33	65.10	119.09	-4,424.08	-451.02	1,568.96	1,452.56	116.40	13.479	
16,000.00	12,052.11	16,754.38	12,814.62	64.64	66.43	119.08	-4,524.07	-450.11	1,568.87	1,450.17	118.70	13.217	
16,100.00	12,052.82	16,854.38	12,815.14	65.95	67.75	119.07	-4,624.07	-449.20	1,568.78	1,447.77	121.01	12.964	
16,200.00	12,053.53	16,954.38	12,815.67	67.26	69.08	119.07	-4,724.06	-448.29	1,568.69	1,445.36	123.33	12.720	
16,300.00	12,054.24	17,054.38	12,816.20	68.57	70.42	119.06	-4,824.06	-447.38	1,568.60	1,442.95	125.65	12.484	
16,400.00	12,054.95	17,154.38	12,816.72	69.88	71.75	119.06	-4,924.05	-446.47	1,568.51	1,440.54	127.97	12.257	
16,500.00	12,055.66	17,254.38	12,817.25	71.20	73.08	119.05	-5,024.05	-445.56	1,568.42	1,438.12	130.30	12.037	
16,600.00	12,056.37	17,354.38	12,817.77	72.52	74.42	119.04	-5,124.04	-444.65	1,568.33	1,435.70	132.63	11.825	
16,700.00	12,057.08	17,454.38	12,818.30	73.84	75.76	119.04	-5,224.03	-443.74	1,568.24	1,433.27	134.97	11.619	
16,800.00	12,057.79	17,554.38	12,818.83	75.16	77.09	119.03	-5,324.03	-442.83	1,568.15	1,430.84	137.31	11.420	
16,900.00	12,058.49	17,654.38	12,819.35	76.48	78.43	119.03	-5,424.02	-441.92	1,568.06	1,428.40	139.66	11.228	
17,000.00	12,059.20	17,754.38	12,819.88	77.81	79.77	119.02	-5,524.02	-441.01	1,567.97	1,425.96	142.00	11.042	
17,100.00	12,059.91	17,854.38	12,820.40	79.14	81.11	119.02	-5,624.01	-440.10	1,567.88	1,423.52	144.35	10.861	
17,200.00	12,060.62	17,954.38	12,820.93	80.46	82.46	119.01	-5,724.01	-439.19	1,567.79	1,421.08	146.71	10.686	
17,300.00	12,061.33	18,054.38	12,821.46	81.79	83.80	119.00	-5,824.00	-438.28	1,567.70	1,418.63	149.07	10.517	
17,400.00	12,062.04	18,154.38	12,821.98	83.12	85.14	119.00	-5,923.99	-437.37	1,567.61	1,416.18	151.43	10.352	
17,500.00	12,062.75	18,254.38	12,822.51	84.45	86.49	118.99	-6,023.99	-436.46	1,567.52	1,413.72	153.79	10.192	
17,600.00	12,063.46	18,354.38	12,823.03	85.79	87.83	118.99	-6,123.98	-435.55	1,567.43	1,411.27	156.16	10.037	
17,700.00	12,064.17	18,454.38	12,823.56	87.12	89.18	118.98	-6,223.98	-434.64	1,567.34	1,408.81	158.53	9.887	
17,800.00	12,064.88	18,554.38	12,824.09	88.46	90.53	118.98	-6,323.97	-433.73	1,567.25	1,406.35	160.90	9.741	
17,900.00	12,065.59	18,654.38	12,824.61	89.79	91.87	118.97	-6,423.97	-432.82	1,567.16	1,403.88	163.27	9.598	
18,000.00	12,066.29	18,754.38	12,825.14	91.13	93.22	118.96	-6,523.96	-431.91	1,567.07	1,401.42	165.65	9.460	
18,100.00	12,067.00	18,854.38	12,825.66	92.47	94.57	118.96	-6,623.95	-431.00	1,566.98	1,398.95	168.03	9.326	
18,200.00	12,067.71	18,954.38	12,826.19	93.81	95.92	118.95	-6,723.95	-430.09	1,566.89	1,396.48	170.41	9.195	
18,300.00	12,068.42	19,054.38	12,826.72	95.15	97.27	118.95	-6,823.94	-429.18	1,566.80	1,394.01	172.79	9.068	
18,400.00	12,069.13	19,154.38	12,827.24	96.49	98.62	118.94	-6,923.94	-428.27	1,566.71	1,391.53	175.17	8.944	
18,500.00	12,069.84	19,254.38	12,827.77	97.83	99.97	118.93	-7,023.93	-427.36	1,566.62	1,389.06	177.56	8.823	
18,600.00	12,070.55	19,354.38	12,828.29	99.17	101.32	118.93	-7,123.93	-426.45	1,566.53	1,386.58	179.95	8.705	
18,700.00	12,071.26	19,454.38	12,828.82	100.51	102.67	118.92	-7,223.92	-425.54	1,566.44	1,384.10	182.34	8.591	
18,800.00	12,071.97	19,554.38	12,829.35	101.86	104.02	118.92	-7,323.91	-424.63	1,566.35	1,381.62	184.73	8.479	
18,900.00	12,072.68	19,654.38	12,829.87	103.20	105.38	118.91	-7,423.91	-423.72	1,566.26	1,379.13	187.12	8.370	
19,000.00	12,073.39	19,754.38	12,830.40	104.55	106.73	118.91	-7,523.90	-422.81	1,566.17	1,376.65	189.52	8.264	
19,100.00	12,074.09	19,854.38	12,830.92	105.89	108.08	118.90	-7,623.90	-421.90	1,566.08	1,374.16	191.91	8.160	
19,200.00	12,074.80	19,954.38	12,831.45	107.24	109.44	118.89	-7,723.89	-420.98	1,565.99	1,371.67	194.31	8.059	
19,300.00	12,075.51	20,054.38	12,831.98	108.58	110.79	118.89	-7,823.89	-420.07	1,565.90	1,369.18	196.71	7.960	
19,400.00	12,076.22	20,154.38	12,832.50	109.93	112.15	118.88	-7,923.88	-419.16	1,565.81	1,366.69	199.11	7.864	
19,500.00	12,076.93	20,254.38	12,833.03	111.28	113.50	118.88	-8,023.87	-418.25	1,565.72	1,364.20	201.51	7.770	
19,600.00	12,077.64	20,354.38	12,833.55	112.63	114.86	118.87	-8,123.87	-417.34	1,565.63	1,361.71	203.92	7.678	
19,700.00	12,078.35	20,454.38	12,834.08	113.98	116.21	118.86	-8,223.86	-416.43	1,565.54	1,359.21	206.32	7.588	
19,800.00	12,079.06	20,554.38	12,834.61	115.33	117.57	118.86	-8,323.86	-415.52	1,565.45	1,356.72	208.73	7.500	
19,900.00	12,079.77	20,654.38	12,835.13	116.68	118.92	118.85	-8,423.85	-414.61	1,565.36	1,354.22	211.14	7.414	
20,000.00	12,080.48	20,754.38	12,835.66	118.03	120.28	118.85	-8,523.85	-413.70	1,565.27	1,351.72	213.55	7.330	
20,100.00	12,081.18	20,854.38	12,836.18	119.38	121.64	118.84	-8,623.84	-412.79	1,565.18	1,349.22	215.96	7.248	
20,200.00	12,081.89	20,954.38	12,836.71	120.73	122.99	118.84	-8,723.83	-411.88	1,565.09	1,346.72	218.37	7.167	
20,300.00	12,082.60	21,054.38	12,837.24	122.08	124.35	118.83	-8,823.83	-410.97	1,565.00	1,344.22	220.78	7.089	
20,400.00	12,083.31	21,154.38	12,837.76	123.43	125.71	118.82	-8,923.82	-410.06	1,564.91	1,341.72	223.19	7.012	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 223H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,500.00	12,084.02	21,254.38	12,838.29	124.78	127.07	118.82	-9,023.82	-409.15	1,564.82	1,339.21	225.61	6.936	
20,600.00	12,084.73	21,354.38	12,838.81	126.14	128.43	118.81	-9,123.81	-408.24	1,564.73	1,336.71	228.02	6.862	
20,700.00	12,085.44	21,454.38	12,839.34	127.49	129.78	118.81	-9,223.81	-407.33	1,564.64	1,334.20	230.44	6.790	
20,800.00	12,086.15	21,554.38	12,839.87	128.84	131.14	118.80	-9,323.80	-406.42	1,564.55	1,331.70	232.85	6.719	
20,900.00	12,086.86	21,654.38	12,840.39	130.20	132.50	118.79	-9,423.79	-405.51	1,564.46	1,329.19	235.27	6.650	
21,000.00	12,087.57	21,754.38	12,840.92	131.55	133.86	118.79	-9,523.79	-404.60	1,564.37	1,326.68	237.69	6.582	
21,100.00	12,088.28	21,854.37	12,841.44	132.90	135.22	118.78	-9,623.78	-403.69	1,564.28	1,324.17	240.11	6.515	
21,200.00	12,088.98	21,954.37	12,841.97	134.26	136.58	118.78	-9,723.78	-402.78	1,564.19	1,321.66	242.53	6.449	
21,300.00	12,089.69	22,054.37	12,842.50	135.61	137.94	118.77	-9,823.77	-401.87	1,564.10	1,319.15	244.95	6.385	
21,400.00	12,090.40	22,154.37	12,843.02	136.97	139.30	118.76	-9,923.77	-400.96	1,564.01	1,316.64	247.38	6.322	
21,500.00	12,091.11	22,254.37	12,843.55	138.32	140.66	118.76	-10,023.76	-400.05	1,563.92	1,314.12	249.80	6.261	
21,600.00	12,091.82	22,354.37	12,844.07	139.68	142.02	118.75	-10,123.75	-399.14	1,563.83	1,311.61	252.22	6.200	
21,700.00	12,092.53	22,454.37	12,844.60	141.04	143.38	118.75	-10,223.75	-398.23	1,563.74	1,309.09	254.65	6.141	
21,800.00	12,093.24	22,554.37	12,845.13	142.39	144.74	118.74	-10,323.74	-397.32	1,563.65	1,306.58	257.07	6.083	
21,900.00	12,093.95	22,654.37	12,845.65	143.75	146.10	118.74	-10,423.74	-396.41	1,563.56	1,304.06	259.50	6.025	
22,000.00	12,094.66	22,754.37	12,846.18	145.11	147.46	118.73	-10,523.73	-395.50	1,563.47	1,301.55	261.93	5.969	
22,100.00	12,095.37	22,854.37	12,846.70	146.46	148.82	118.72	-10,623.73	-394.59	1,563.39	1,299.03	264.36	5.914	
22,200.00	12,096.08	22,954.37	12,847.23	147.82	150.18	118.72	-10,723.72	-393.68	1,563.30	1,296.51	266.78	5.860	
22,300.00	12,096.78	23,054.37	12,847.76	149.18	151.54	118.71	-10,823.71	-392.77	1,563.21	1,293.99	269.21	5.807	
22,379.91	12,097.35	23,134.28	12,848.18	150.26	152.63	118.71	-10,903.62	-392.04	1,563.13	1,291.98	271.15	5.765	
22,386.82	12,097.40	23,139.21	12,848.20	150.36	152.71	118.71	-10,908.55	-392.00	1,563.13	1,291.84	271.29	5.762	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 224H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	0.00	0.50	0.50	45.00	25.00	25.00	35.36				
100.00	100.00	102.00	100.00	0.98	0.99	45.00	25.00	25.00	35.36	33.38	1.97	17.918	
200.00	200.00	202.00	200.00	1.56	1.57	45.00	25.00	25.00	35.36	32.22	3.13	11.294	
300.00	300.00	302.00	300.00	1.98	1.99	45.00	25.00	25.00	35.36	31.39	3.97	8.907	
400.00	400.00	402.00	400.00	2.33	2.34	45.00	25.00	25.00	35.36	30.69	4.66	7.579	
500.00	500.00	502.00	500.00	2.63	2.64	45.00	25.00	25.00	35.36	30.08	5.27	6.703	
600.00	600.00	602.00	600.00	2.91	2.92	45.00	25.00	25.00	35.36	29.53	5.83	6.069	
700.00	700.00	702.00	700.00	3.02	3.17	-85.53	25.00	25.00	35.33	29.14	6.19	5.710	
800.00	799.96	801.96	799.96	3.31	3.40	-89.78	25.00	25.00	35.22	28.57	6.65	5.297	
803.44	803.40	805.40	803.40	3.32	3.41	-90.00	25.00	25.00	35.22	28.56	6.66	5.285	CC
900.00	899.82	901.82	899.82	3.59	3.63	-98.22	25.00	25.00	35.59	28.50	7.09	5.020	
1,000.00	999.51	1,001.51	999.51	3.76	3.84	-110.05	25.00	25.00	37.51	30.05	7.46	5.030	
1,100.00	1,099.13	1,101.13	1,099.13	3.96	4.04	-121.45	25.00	25.00	41.33	33.44	7.89	5.239	
1,200.00	1,198.75	1,200.75	1,198.75	4.17	4.23	-130.63	25.00	25.00	46.49	38.18	8.31	5.595	
1,300.00	1,298.37	1,300.37	1,298.37	4.37	4.42	-137.84	25.00	25.00	52.59	43.88	8.71	6.036	
1,400.00	1,397.99	1,399.99	1,397.99	4.57	4.60	-143.49	25.00	25.00	59.35	50.24	9.11	6.515	
1,500.00	1,497.50	1,499.50	1,497.50	4.79	4.78	-142.73	25.00	25.00	67.22	57.71	9.51	7.070	
1,600.00	1,596.74	1,598.74	1,596.74	5.02	4.95	-144.45	25.00	25.00	77.11	67.19	9.91	7.778	
1,700.00	1,695.65	1,697.65	1,695.65	5.25	5.11	-147.28	25.00	25.00	89.35	79.04	10.32	8.661	
1,800.00	1,794.15	1,798.52	1,796.51	5.48	5.30	-150.22	24.41	26.13	103.08	92.34	10.74	9.601	
1,900.00	1,892.17	1,899.90	1,897.80	5.71	5.47	-152.75	22.57	29.63	117.01	105.87	11.14	10.505	
2,000.00	1,989.70	2,001.75	1,999.43	5.85	5.64	-155.44	19.48	35.55	130.87	119.42	11.45	11.431	
2,100.00	2,087.14	2,104.33	2,101.57	6.05	5.81	-158.04	15.08	43.94	142.94	131.12	11.82	12.093	
2,200.00	2,184.58	2,207.58	2,204.09	6.25	5.98	-159.96	9.38	54.83	152.65	140.46	12.19	12.524	
2,300.00	2,282.02	2,311.36	2,306.75	6.45	6.16	-161.41	2.36	68.25	159.88	147.33	12.56	12.734	
2,400.00	2,379.46	2,415.51	2,409.34	6.66	6.34	-162.52	-5.99	84.20	164.55	151.63	12.92	12.734	
2,500.00	2,476.89	2,519.89	2,511.60	6.90	6.52	-163.37	-15.65	102.66	166.60	153.32	13.29	12.537	
2,600.00	2,574.33	2,624.32	2,613.33	7.17	6.68	-164.01	-26.62	123.60	166.01	152.38	13.63	12.178	
2,700.00	2,671.77	2,725.29	2,711.22	7.45	6.79	-164.50	-38.09	145.51	163.56	149.60	13.95	11.723	
2,800.00	2,769.21	2,825.25	2,808.11	7.73	6.94	-165.00	-49.47	167.26	161.05	146.71	14.33	11.238	
2,900.00	2,866.65	2,925.21	2,905.01	8.01	7.10	-165.51	-60.86	189.01	158.55	143.83	14.71	10.777	
3,000.00	2,964.08	3,025.16	3,001.91	8.29	7.27	-166.04	-72.25	210.77	156.06	140.96	15.10	10.333	
3,100.00	3,061.52	3,125.12	3,098.80	8.58	7.51	-166.59	-83.64	232.52	153.59	138.10	15.49	9.914	
3,200.00	3,158.96	3,225.08	3,195.70	8.87	7.76	-167.16	-95.02	254.27	151.13	135.25	15.88	9.514	
3,300.00	3,256.40	3,325.04	3,292.59	9.16	8.01	-167.74	-106.41	276.03	148.69	132.41	16.28	9.133	
3,400.00	3,353.84	3,425.00	3,389.49	9.46	8.27	-168.35	-117.80	297.78	146.26	129.58	16.68	8.770	
3,500.00	3,451.27	3,524.96	3,486.39	9.75	8.54	-168.97	-129.19	319.53	143.85	126.77	17.08	8.423	
3,600.00	3,548.71	3,624.92	3,583.28	10.05	8.81	-169.62	-140.57	341.28	141.46	123.98	17.48	8.092	
3,700.00	3,646.15	3,724.87	3,680.18	10.34	9.09	-170.28	-151.96	363.04	139.09	121.20	17.89	7.776	
3,800.00	3,743.59	3,824.83	3,777.07	10.64	9.37	-170.97	-163.35	384.79	136.73	118.44	18.29	7.475	
3,900.00	3,841.03	3,924.79	3,873.97	10.94	9.66	-171.69	-174.74	406.54	134.40	115.70	18.70	7.186	
4,000.00	3,938.47	4,024.75	3,970.87	11.24	9.95	-172.43	-186.12	428.30	132.09	112.98	19.11	6.911	
4,100.00	4,035.90	4,124.71	4,067.76	11.54	10.24	-173.19	-197.51	450.05	129.80	110.27	19.53	6.647	
4,200.00	4,133.34	4,224.67	4,164.66	11.84	10.54	-173.99	-208.90	471.80	127.54	107.59	19.94	6.395	
4,300.00	4,230.78	4,324.62	4,261.55	12.14	10.84	-174.81	-220.29	493.55	125.30	104.94	20.36	6.154	
4,400.00	4,328.22	4,424.58	4,358.45	12.45	11.14	-175.66	-231.67	515.31	123.08	102.30	20.78	5.923	
4,500.00	4,425.66	4,524.54	4,455.35	12.75	11.45	-176.54	-243.06	537.06	120.90	99.69	21.21	5.701	
4,600.00	4,523.09	4,624.50	4,552.24	13.05	11.75	-177.46	-254.45	558.81	118.74	97.11	21.63	5.489	
4,700.00	4,620.53	4,724.46	4,649.14	13.36	12.06	-178.41	-265.84	580.57	116.62	94.55	22.07	5.285	
4,800.00	4,717.97	4,824.42	4,746.03	13.66	12.37	-179.39	-277.22	602.32	114.53	92.03	22.50	5.089	
4,900.00	4,815.41	4,924.38	4,842.93	13.97	12.68	179.59	-288.61	624.07	112.48	89.53	22.95	4.902	
5,000.00	4,912.85	5,024.33	4,939.83	14.27	13.00	178.54	-300.00	645.83	110.46	87.06	23.39	4.722	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 224H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,010.28	5,124.29	5,036.72	14.58	13.31	177.44	-311.39	667.58	108.48	84.63	23.85	4.549	
5,200.00	5,107.72	5,224.25	5,133.62	14.89	13.63	176.30	-322.78	689.33	106.54	82.23	24.31	4.383	
5,300.00	5,205.30	5,324.19	5,230.50	15.16	13.95	175.09	-334.16	711.08	104.02	79.27	24.76	4.202	
5,400.00	5,303.38	5,423.59	5,326.86	15.44	14.27	173.68	-345.47	732.68	99.12	73.86	25.26	3.924	
5,500.00	5,401.95	5,520.98	5,421.67	15.69	14.56	172.15	-355.80	752.41	93.35	67.57	25.77	3.622	
5,600.00	5,500.92	5,618.53	5,517.17	15.91	14.83	170.54	-365.02	770.03	87.54	61.26	26.28	3.331	
5,700.00	5,600.23	5,716.24	5,613.30	16.10	15.07	168.83	-373.12	785.50	81.71	54.93	26.78	3.051	
5,800.00	5,699.82	5,814.10	5,710.00	16.26	15.29	166.99	-380.09	798.81	75.85	48.59	27.26	2.782	
5,900.00	5,799.60	5,912.12	5,807.21	16.39	15.48	165.00	-385.91	809.94	69.97	42.24	27.73	2.523	
6,000.00	5,899.53	6,010.30	5,904.87	16.50	15.65	162.80	-390.59	818.87	64.07	35.89	28.19	2.273	
6,100.00	5,999.52	6,108.65	6,002.92	16.57	15.79	-86.75	-394.10	825.58	58.17	29.60	28.57	2.036	
6,200.00	6,099.52	6,207.22	6,101.35	16.62	15.91	-88.99	-396.44	830.06	53.53	24.66	28.88	1.854	Collision Risk Procedures Req.
6,300.00	6,199.52	6,305.98	6,200.08	16.66	16.00	-90.25	-397.61	832.28	51.27	22.18	29.09	1.762	Collision Risk Procedures Req.
6,364.66	6,264.18	6,370.08	6,264.18	16.69	16.02	-90.40	-397.75	832.55	51.00	21.87	29.13	1.751	Collision Risk Procedures Req.
6,400.00	6,299.52	6,405.42	6,299.52	16.70	16.03	-90.40	-397.75	832.55	51.00	21.85	29.15	1.749	Collision Risk Procedures Req.
6,500.00	6,399.52	6,505.42	6,399.52	16.74	16.07	-90.40	-397.75	832.55	51.00	21.76	29.24	1.744	Collision Risk Procedures Req.
6,600.00	6,499.52	6,605.42	6,499.52	16.79	16.12	-90.40	-397.75	832.55	51.00	21.67	29.34	1.739	Collision Risk Procedures Req.
6,700.00	6,599.52	6,705.42	6,599.52	16.83	16.17	-90.40	-397.75	832.55	51.00	21.57	29.43	1.733	Collision Risk Procedures Req.
6,800.00	6,699.52	6,805.42	6,699.52	16.88	16.22	-90.40	-397.75	832.55	51.00	21.48	29.52	1.728	Collision Risk Procedures Req.
6,900.00	6,799.52	6,905.42	6,799.52	16.92	16.27	-90.40	-397.75	832.55	51.00	21.39	29.61	1.722	Collision Risk Procedures Req.
7,000.00	6,899.52	7,005.42	6,899.52	16.96	16.32	-90.40	-397.75	832.55	51.00	21.29	29.71	1.717	Collision Risk Procedures Req.
7,100.00	6,999.52	7,105.42	6,999.52	17.01	16.37	-90.40	-397.75	832.55	51.00	21.20	29.80	1.711	Collision Risk Procedures Req.
7,200.00	7,099.52	7,205.42	7,099.52	17.05	16.42	-90.40	-397.75	832.55	51.00	21.10	29.90	1.706	Collision Risk Procedures Req.
7,300.00	7,199.52	7,305.42	7,199.52	17.10	16.47	-90.40	-397.75	832.55	51.00	21.01	29.99	1.700	Collision Risk Procedures Req.
7,400.00	7,299.52	7,405.42	7,299.52	17.15	16.52	-90.40	-397.75	832.55	51.00	20.91	30.09	1.695	Collision Risk Procedures Req.
7,500.00	7,399.52	7,505.42	7,399.52	17.19	16.57	-90.40	-397.75	832.55	51.00	20.81	30.19	1.689	Collision Risk Procedures Req.
7,600.00	7,499.52	7,605.42	7,499.52	17.24	16.62	-90.40	-397.75	832.55	51.00	20.72	30.29	1.684	Collision Risk Procedures Req.
7,700.00	7,599.52	7,705.42	7,599.52	17.28	16.67	-90.40	-397.75	832.55	51.00	20.62	30.38	1.679	Collision Risk Procedures Req.
7,800.00	7,699.52	7,805.42	7,699.52	17.33	16.73	-90.40	-397.75	832.55	51.00	20.52	30.48	1.673	Collision Risk Procedures Req.
7,900.00	7,799.52	7,905.42	7,799.52	17.38	16.78	-90.40	-397.75	832.55	51.00	20.42	30.58	1.668	Collision Risk Procedures Req.
8,000.00	7,899.52	8,005.42	7,899.52	17.43	16.83	-90.40	-397.75	832.55	51.00	20.32	30.68	1.662	Collision Risk Procedures Req.
8,100.00	7,999.52	8,105.42	7,999.52	17.47	16.88	-90.40	-397.75	832.55	51.00	20.22	30.78	1.657	Collision Risk Procedures Req.
8,200.00	8,099.52	8,205.42	8,099.52	17.52	16.93	-90.40	-397.75	832.55	51.00	20.12	30.88	1.651	Collision Risk Procedures Req.
8,300.00	8,199.52	8,305.42	8,199.52	17.57	16.99	-90.40	-397.75	832.55	51.00	20.02	30.98	1.646	Collision Risk Procedures Req.
8,400.00	8,299.52	8,405.42	8,299.52	17.62	17.04	-90.40	-397.75	832.55	51.00	19.91	31.09	1.641	Collision Risk Procedures Req.
8,500.00	8,399.52	8,505.42	8,399.52	17.67	17.09	-90.40	-397.75	832.55	51.00	19.81	31.19	1.635	Collision Risk Procedures Req.
8,600.00	8,499.52	8,605.42	8,499.52	17.71	17.15	-90.40	-397.75	832.55	51.00	19.71	31.29	1.630	Collision Risk Procedures Req.
8,700.00	8,599.52	8,705.42	8,599.52	17.76	17.20	-90.40	-397.75	832.55	51.00	19.61	31.40	1.624	Collision Risk Procedures Req.
8,800.00	8,699.52	8,805.42	8,699.52	17.81	17.26	-90.40	-397.75	832.55	51.00	19.50	31.50	1.619	Collision Risk Procedures Req.
8,900.00	8,799.52	8,905.42	8,799.52	17.86	17.31	-90.40	-397.75	832.55	51.00	19.40	31.60	1.614	Collision Risk Procedures Req.
9,000.00	8,899.52	9,005.42	8,899.52	17.91	17.36	-90.40	-397.75	832.55	51.00	19.29	31.71	1.608	Collision Risk Procedures Req.
9,100.00	8,999.52	9,105.42	8,999.52	17.96	17.42	-90.40	-397.75	832.55	51.00	19.19	31.81	1.603	Collision Risk Procedures Req.
9,200.00	9,099.52	9,205.42	9,099.52	18.01	17.47	-90.40	-397.75	832.55	51.00	19.08	31.92	1.598	Collision Risk Procedures Req.
9,300.00	9,199.52	9,305.42	9,199.52	18.06	17.53	-90.40	-397.75	832.55	51.00	18.97	32.03	1.592	Collision Risk Procedures Req.
9,400.00	9,299.52	9,405.42	9,299.52	18.11	17.58	-90.40	-397.75	832.55	51.00	18.87	32.13	1.587	Collision Risk Procedures Req.
9,500.00	9,399.52	9,505.42	9,399.52	18.16	17.64	-90.40	-397.75	832.55	51.00	18.76	32.24	1.582	Collision Risk Procedures Req.
9,600.00	9,499.52	9,605.42	9,499.52	18.22	17.70	-90.40	-397.75	832.55	51.00	18.65	32.35	1.577	Collision Risk Procedures Req.
9,700.00	9,599.52	9,705.42	9,599.52	18.27	17.75	-90.40	-397.75	832.55	51.00	18.54	32.46	1.571	Collision Risk Procedures Req.
9,800.00	9,699.52	9,805.42	9,699.52	18.32	17.81	-90.40	-397.75	832.55	51.00	18.43	32.57	1.566	Collision Risk Procedures Req.
9,900.00	9,799.52	9,905.42	9,799.52	18.37	17.86	-90.40	-397.75	832.55	51.00	18.33	32.68	1.561	Collision Risk Procedures Req.
10,000.00	9,899.52	10,005.42	9,899.52	18.42	17.92	-90.40	-397.75	832.55	51.00	18.22	32.79	1.556	Collision Risk Procedures Req.
10,100.00	9,999.52	10,105.42	9,999.52	18.47	17.98	-90.40	-397.75	832.55	51.00	18.11	32.90	1.550	Collision Risk Procedures Req.

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 224H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,200.00	10,099.52	10,205.42	10,099.52	18.53	18.03	-90.40	-397.75	832.55	51.00	17.99	33.01	1.545	Collision Risk Procedures Req.
10,300.00	10,199.52	10,305.42	10,199.52	18.58	18.09	-90.40	-397.75	832.55	51.00	17.88	33.12	1.540	Collision Risk Procedures Req.
10,400.00	10,299.52	10,405.42	10,299.52	18.63	18.15	-90.40	-397.75	832.55	51.00	17.77	33.23	1.535	Collision Risk Procedures Req.
10,500.00	10,399.52	10,505.42	10,399.52	18.69	18.21	-90.40	-397.75	832.55	51.00	17.66	33.34	1.530	Collision Risk Procedures Req.
10,600.00	10,499.52	10,605.42	10,499.52	18.74	18.26	-90.40	-397.75	832.55	51.00	17.55	33.45	1.525	Collision Risk Procedures Req.
10,700.00	10,599.52	10,705.42	10,599.52	18.79	18.32	-90.40	-397.75	832.55	51.00	17.44	33.57	1.519	Collision Risk Procedures Req.
10,800.00	10,699.52	10,805.42	10,699.52	18.85	18.38	-90.40	-397.75	832.55	51.00	17.32	33.68	1.514	Collision Risk Procedures Req.
10,900.00	10,799.52	10,905.42	10,799.52	18.90	18.44	-90.40	-397.75	832.55	51.00	17.21	33.79	1.509	Collision Risk Procedures Req.
11,000.00	10,899.52	11,005.42	10,899.52	18.95	18.50	-90.40	-397.75	832.55	51.00	17.09	33.91	1.504	Collision Risk Procedures Req.
11,100.00	10,999.52	11,105.42	10,999.52	19.01	18.55	-90.40	-397.75	832.55	51.00	16.98	34.02	1.499	Collision Avoidance Req.
11,200.00	11,099.52	11,205.42	11,099.52	19.06	18.61	-90.40	-397.75	832.55	51.00	16.87	34.14	1.494	Collision Avoidance Req.
11,300.00	11,199.52	11,305.42	11,199.52	19.12	18.67	-90.40	-397.75	832.55	51.00	16.75	34.25	1.489	Collision Avoidance Req.
11,400.00	11,299.52	11,405.42	11,299.52	19.17	18.73	-90.40	-397.75	832.55	51.00	16.64	34.37	1.484	Collision Avoidance Req.
11,500.00	11,399.52	11,505.42	11,399.52	19.23	18.79	-90.40	-397.75	832.55	51.00	16.52	34.48	1.479	Collision Avoidance Req.
11,500.58	11,400.10	11,506.00	11,400.10	19.23	18.79	90.12	-397.75	832.55	51.00	16.52	34.48	1.479	Collision Avoidance Req., ES, SF
11,600.00	11,499.47	11,605.37	11,499.47	19.29	18.85	92.14	-397.75	832.55	51.04	16.58	34.45	1.481	Collision Avoidance Req.
11,700.00	11,597.96	11,703.86	11,597.96	19.45	18.91	109.33	-397.75	832.55	54.25	20.35	33.89	1.600	Collision Risk Procedures Req.
11,800.00	11,692.07	11,797.97	11,692.07	19.66	18.97	132.79	-397.75	832.55	72.77	38.20	34.57	2.105	
11,900.00	11,778.95	11,884.85	11,778.95	19.93	19.02	148.53	-397.75	832.55	113.29	77.38	35.91	3.155	
12,000.00	11,855.96	11,961.86	11,855.96	20.27	19.06	156.52	-397.75	832.55	172.47	135.66	36.81	4.685	
12,100.00	11,920.75	12,026.65	11,920.75	20.70	19.10	159.94	-397.75	832.55	246.10	208.75	37.36	6.588	
12,200.00	11,971.37	12,077.27	11,971.37	21.23	19.13	160.04	-397.75	832.55	330.82	293.11	37.70	8.774	
12,300.00	12,006.26	12,112.16	12,006.26	21.86	19.15	155.52	-397.75	832.55	423.52	385.59	37.93	11.166	
12,400.00	12,024.37	12,130.27	12,024.37	22.58	19.16	134.00	-397.75	832.55	521.16	483.09	38.07	13.689	
12,500.00	12,027.30	12,133.20	12,027.30	23.37	19.17	94.92	-397.75	832.55	620.67	582.52	38.15	16.269	
12,600.00	12,028.00	13,315.76	12,741.71	24.23	24.14	175.91	-1,112.54	839.04	715.54	659.66	55.87	12.806	
12,700.00	12,028.71	13,415.76	12,742.24	25.13	25.04	175.91	-1,212.53	839.95	715.35	659.29	56.07	12.759	
12,800.00	12,029.42	13,515.76	12,742.76	26.08	25.98	175.91	-1,312.53	840.86	715.17	658.90	56.27	12.709	
12,900.00	12,030.13	13,615.76	12,743.29	27.06	26.96	175.91	-1,412.52	841.77	714.99	658.50	56.49	12.656	
13,000.00	12,030.84	13,715.76	12,743.82	28.07	27.97	175.91	-1,512.52	842.68	714.81	658.08	56.73	12.601	
13,100.00	12,031.55	13,815.76	12,744.34	29.10	29.01	175.91	-1,612.51	843.59	714.62	657.65	56.98	12.542	
13,200.00	12,032.26	13,915.76	12,744.87	30.17	30.07	175.91	-1,712.51	844.50	714.44	657.20	57.24	12.481	
13,300.00	12,032.97	14,015.76	12,745.39	31.25	31.16	175.91	-1,812.50	845.40	714.26	656.74	57.52	12.418	
13,400.00	12,033.68	14,115.76	12,745.92	32.36	32.27	175.90	-1,912.49	846.31	714.08	656.27	57.81	12.353	
13,500.00	12,034.39	14,215.76	12,746.44	33.49	33.40	175.90	-2,012.49	847.22	713.89	655.78	58.11	12.285	
13,600.00	12,035.10	14,315.76	12,746.97	34.63	34.54	175.90	-2,112.48	848.13	713.71	655.28	58.43	12.215	
13,700.00	12,035.80	14,415.76	12,747.50	35.78	35.70	175.90	-2,212.48	849.04	713.53	654.77	58.76	12.143	
13,800.00	12,036.51	14,515.76	12,748.02	36.95	36.88	175.90	-2,312.47	849.95	713.34	654.24	59.10	12.070	
13,900.00	12,037.22	14,615.76	12,748.55	38.14	38.06	175.90	-2,412.47	850.86	713.16	653.70	59.46	11.994	
14,000.00	12,037.93	14,715.76	12,749.07	39.33	39.26	175.90	-2,512.46	851.76	712.98	653.15	59.83	11.918	
14,100.00	12,038.64	14,815.76	12,749.60	40.54	40.47	175.90	-2,612.45	852.67	712.80	652.59	60.21	11.839	
14,200.00	12,039.35	14,915.76	12,750.13	41.75	41.69	175.90	-2,712.45	853.58	712.61	652.02	60.60	11.760	
14,300.00	12,040.06	15,015.76	12,750.65	42.97	42.91	175.89	-2,812.44	854.49	712.43	651.43	61.00	11.679	
14,400.00	12,040.77	15,115.76	12,751.18	44.20	44.15	175.89	-2,912.44	855.40	712.25	650.83	61.41	11.597	
14,500.00	12,041.48	15,215.76	12,751.70	45.44	45.39	175.89	-3,012.43	856.31	712.07	650.22	61.84	11.515	
14,600.00	12,042.19	15,315.76	12,752.23	46.69	46.64	175.89	-3,112.43	857.22	711.88	649.61	62.28	11.431	
14,700.00	12,042.89	15,415.76	12,752.76	47.94	47.90	175.89	-3,212.42	858.12	711.70	648.98	62.73	11.346	
14,800.00	12,043.60	15,515.76	12,753.28	49.20	49.16	175.89	-3,312.41	859.03	711.52	648.33	63.18	11.261	
14,900.00	12,044.31	15,615.76	12,753.81	50.46	50.42	175.89	-3,412.41	859.94	711.33	647.68	63.65	11.176	
15,000.00	12,045.02	15,715.76	12,754.33	51.73	51.70	175.89	-3,512.40	860.85	711.15	647.02	64.13	11.089	
15,100.00	12,045.73	15,815.76	12,754.86	53.01	52.97	175.89	-3,612.40	861.76	710.97	646.35	64.62	11.003	
15,200.00	12,046.44	15,915.76	12,755.38	54.28	54.25	175.89	-3,712.39	862.67	710.79	645.67	65.12	10.916	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 224H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,300.00	12,047.15	16,015.76	12,755.91	55.57	55.54	175.88	-3,812.39	863.58	710.60	644.98	65.62	10.829	
15,400.00	12,047.86	16,115.76	12,756.44	56.85	56.83	175.88	-3,912.38	864.48	710.42	644.28	66.14	10.741	
15,500.00	12,048.57	16,215.76	12,756.96	58.14	58.12	175.88	-4,012.38	865.39	710.24	643.57	66.66	10.654	
15,600.00	12,049.28	16,315.76	12,757.49	59.44	59.42	175.88	-4,112.37	866.30	710.06	642.86	67.20	10.567	
15,700.00	12,049.99	16,415.76	12,758.01	60.73	60.72	175.88	-4,212.36	867.21	709.87	642.13	67.74	10.479	
15,800.00	12,050.69	16,515.76	12,758.54	62.03	62.02	175.88	-4,312.36	868.12	709.69	641.40	68.29	10.392	
15,900.00	12,051.40	16,615.76	12,759.07	63.33	63.32	175.88	-4,412.35	869.03	709.51	640.66	68.85	10.305	
16,000.00	12,052.11	16,715.76	12,759.59	64.64	64.63	175.88	-4,512.35	869.93	709.32	639.91	69.42	10.218	
16,100.00	12,052.82	16,815.76	12,760.12	65.95	65.94	175.88	-4,612.34	870.84	709.14	639.15	69.99	10.132	
16,200.00	12,053.53	16,915.76	12,760.64	67.26	67.25	175.87	-4,712.34	871.75	708.96	638.39	70.57	10.046	
16,300.00	12,054.24	17,015.76	12,761.17	68.57	68.57	175.87	-4,812.33	872.66	708.78	637.61	71.16	9.960	
16,400.00	12,054.95	17,115.76	12,761.70	69.88	69.88	175.87	-4,912.32	873.57	708.59	636.83	71.76	9.875	
16,500.00	12,055.66	17,215.76	12,762.22	71.20	71.20	175.87	-5,012.32	874.48	708.41	636.05	72.36	9.790	
16,600.00	12,056.37	17,315.76	12,762.75	72.52	72.52	175.87	-5,112.31	875.39	708.23	635.26	72.97	9.705	
16,700.00	12,057.08	17,415.76	12,763.27	73.84	73.84	175.87	-5,212.31	876.29	708.05	634.46	73.59	9.621	
16,800.00	12,057.79	17,515.76	12,763.80	75.16	75.17	175.87	-5,312.30	877.20	707.86	633.65	74.21	9.538	
16,900.00	12,058.49	17,615.76	12,764.32	76.48	76.49	175.87	-5,412.30	878.11	707.68	632.84	74.84	9.455	
17,000.00	12,059.20	17,715.76	12,764.85	77.81	77.82	175.87	-5,512.29	879.02	707.50	632.02	75.48	9.373	
17,100.00	12,059.91	17,815.76	12,765.38	79.14	79.15	175.86	-5,612.28	879.93	707.31	631.19	76.12	9.292	
17,200.00	12,060.62	17,915.76	12,765.90	80.46	80.48	175.86	-5,712.28	880.84	707.13	630.36	76.77	9.211	
17,300.00	12,061.33	18,015.76	12,766.43	81.79	81.81	175.86	-5,812.27	881.75	706.95	629.53	77.42	9.131	
17,400.00	12,062.04	18,115.76	12,766.95	83.12	83.14	175.86	-5,912.27	882.65	706.77	628.68	78.08	9.051	
17,500.00	12,062.75	18,215.76	12,767.48	84.45	84.47	175.86	-6,012.26	883.56	706.58	627.84	78.75	8.973	
17,600.00	12,063.46	18,315.76	12,768.01	85.79	85.81	175.86	-6,112.26	884.47	706.40	626.98	79.42	8.895	
17,700.00	12,064.17	18,415.76	12,768.53	87.12	87.14	175.86	-6,212.25	885.38	706.22	626.13	80.09	8.817	
17,800.00	12,064.88	18,515.76	12,769.06	88.46	88.48	175.86	-6,312.24	886.29	706.04	625.26	80.77	8.741	
17,900.00	12,065.59	18,615.76	12,769.58	89.79	89.82	175.86	-6,412.24	887.20	705.85	624.39	81.46	8.665	
18,000.00	12,066.29	18,715.75	12,770.11	91.13	91.16	175.86	-6,512.23	888.11	705.67	623.52	82.15	8.590	
18,100.00	12,067.00	18,815.75	12,770.64	92.47	92.49	175.85	-6,612.23	889.01	705.49	622.64	82.84	8.516	
18,200.00	12,067.71	18,915.75	12,771.16	93.81	93.84	175.85	-6,712.22	889.92	705.30	621.76	83.54	8.442	
18,300.00	12,068.42	19,015.75	12,771.69	95.15	95.18	175.85	-6,812.22	890.83	705.12	620.88	84.25	8.370	
18,400.00	12,069.13	19,115.75	12,772.21	96.49	96.52	175.85	-6,912.21	891.74	704.94	619.98	84.95	8.298	
18,500.00	12,069.84	19,215.75	12,772.74	97.83	97.86	175.85	-7,012.20	892.65	704.76	619.09	85.67	8.227	
18,600.00	12,070.55	19,315.75	12,773.26	99.17	99.20	175.85	-7,112.20	893.56	704.57	618.19	86.38	8.156	
18,700.00	12,071.26	19,415.75	12,773.79	100.51	100.55	175.85	-7,212.19	894.47	704.39	617.29	87.10	8.087	
18,800.00	12,071.97	19,515.75	12,774.32	101.86	101.89	175.85	-7,312.19	895.37	704.21	616.38	87.83	8.018	
18,900.00	12,072.68	19,615.75	12,774.84	103.20	103.24	175.85	-7,412.18	896.28	704.03	615.47	88.56	7.950	
19,000.00	12,073.39	19,715.75	12,775.37	104.55	104.58	175.84	-7,512.18	897.19	703.84	614.55	89.29	7.883	
19,100.00	12,074.09	19,815.75	12,775.89	105.89	105.93	175.84	-7,612.17	898.10	703.66	613.64	90.02	7.816	
19,200.00	12,074.80	19,915.75	12,776.42	107.24	107.28	175.84	-7,712.17	899.01	703.48	612.71	90.76	7.751	
19,300.00	12,075.51	20,015.75	12,776.95	108.58	108.62	175.84	-7,812.16	899.92	703.29	611.79	91.51	7.686	
19,400.00	12,076.22	20,115.75	12,777.47	109.93	109.97	175.84	-7,912.15	900.83	703.11	610.86	92.25	7.622	
19,500.00	12,076.93	20,215.75	12,778.00	111.28	111.32	175.84	-8,012.15	901.73	702.93	609.93	93.00	7.558	
19,600.00	12,077.64	20,315.75	12,778.52	112.63	112.67	175.84	-8,112.14	902.64	702.75	608.99	93.75	7.496	
19,700.00	12,078.35	20,415.75	12,779.05	113.98	114.02	175.84	-8,212.14	903.55	702.56	608.05	94.51	7.434	
19,800.00	12,079.06	20,515.75	12,779.57	115.33	115.37	175.84	-8,312.13	904.46	702.38	607.11	95.27	7.373	
19,900.00	12,079.77	20,615.75	12,780.10	116.68	116.72	175.83	-8,412.13	905.37	702.20	606.17	96.03	7.312	
20,000.00	12,080.48	20,715.75	12,780.63	118.03	118.07	175.83	-8,512.12	906.28	702.02	605.22	96.80	7.253	
20,100.00	12,081.18	20,815.75	12,781.15	119.38	119.42	175.83	-8,612.11	907.19	701.83	604.27	97.56	7.194	
20,200.00	12,081.89	20,915.75	12,781.68	120.73	120.77	175.83	-8,712.11	908.09	701.65	603.32	98.33	7.135	
20,300.00	12,082.60	21,015.75	12,782.20	122.08	122.13	175.83	-8,812.10	909.00	701.47	602.36	99.11	7.078	
20,400.00	12,083.31	21,115.75	12,782.73	123.43	123.48	175.83	-8,912.10	909.91	701.28	601.40	99.88	7.021	

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 224H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,500.00	12,084.02	21,215.75	12,783.26	124.78	124.83	175.83	-9,012.09	910.82	701.10	600.44	100.66	6.965	
20,600.00	12,084.73	21,315.75	12,783.78	126.14	126.19	175.83	-9,112.09	911.73	700.92	599.48	101.44	6.910	
20,700.00	12,085.44	21,415.75	12,784.31	127.49	127.54	175.83	-9,212.08	912.64	700.74	598.51	102.23	6.855	
20,800.00	12,086.15	21,515.75	12,784.83	128.84	128.89	175.82	-9,312.07	913.54	700.55	597.54	103.01	6.801	
20,900.00	12,086.86	21,615.75	12,785.36	130.20	130.25	175.82	-9,412.07	914.45	700.37	596.57	103.80	6.747	
21,000.00	12,087.57	21,715.75	12,785.89	131.55	131.60	175.82	-9,512.06	915.36	700.19	595.60	104.59	6.695	
21,100.00	12,088.28	21,815.75	12,786.41	132.90	132.96	175.82	-9,612.06	916.27	700.01	594.62	105.38	6.642	
21,200.00	12,088.98	21,915.75	12,786.94	134.26	134.31	175.82	-9,712.05	917.18	699.82	593.64	106.18	6.591	
21,300.00	12,089.69	22,015.75	12,787.46	135.61	135.67	175.82	-9,812.05	918.09	699.64	592.66	106.98	6.540	
21,400.00	12,090.40	22,115.75	12,787.99	136.97	137.02	175.82	-9,912.04	919.00	699.46	591.68	107.78	6.490	
21,500.00	12,091.11	22,215.75	12,788.51	138.32	138.38	175.82	-10,012.03	919.90	699.28	590.70	108.58	6.440	
21,600.00	12,091.82	22,315.75	12,789.04	139.68	139.74	175.82	-10,112.03	920.81	699.09	589.71	109.38	6.391	
21,700.00	12,092.53	22,415.75	12,789.57	141.04	141.09	175.81	-10,212.02	921.72	698.91	588.72	110.19	6.343	
21,800.00	12,093.24	22,515.75	12,790.09	142.39	142.45	175.81	-10,312.02	922.63	698.73	587.73	110.99	6.295	
21,900.00	12,093.95	22,615.75	12,790.62	143.75	143.81	175.81	-10,412.01	923.54	698.54	586.74	111.80	6.248	
22,000.00	12,094.66	22,715.75	12,791.14	145.11	145.16	175.81	-10,512.01	924.45	698.36	585.75	112.62	6.201	
22,100.00	12,095.37	22,815.75	12,791.67	146.46	146.52	175.81	-10,612.00	925.36	698.18	584.75	113.43	6.155	
22,200.00	12,096.08	22,915.75	12,792.20	147.82	147.88	175.81	-10,711.99	926.26	698.00	583.75	114.24	6.110	
22,300.00	12,096.78	23,015.75	12,792.72	149.18	149.24	175.81	-10,811.99	927.17	697.81	582.75	115.06	6.065	
22,386.82	12,097.40	23,102.57	12,793.18	150.36	150.42	175.81	-10,898.80	927.96	697.65	581.88	115.77	6.026	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Total Directional

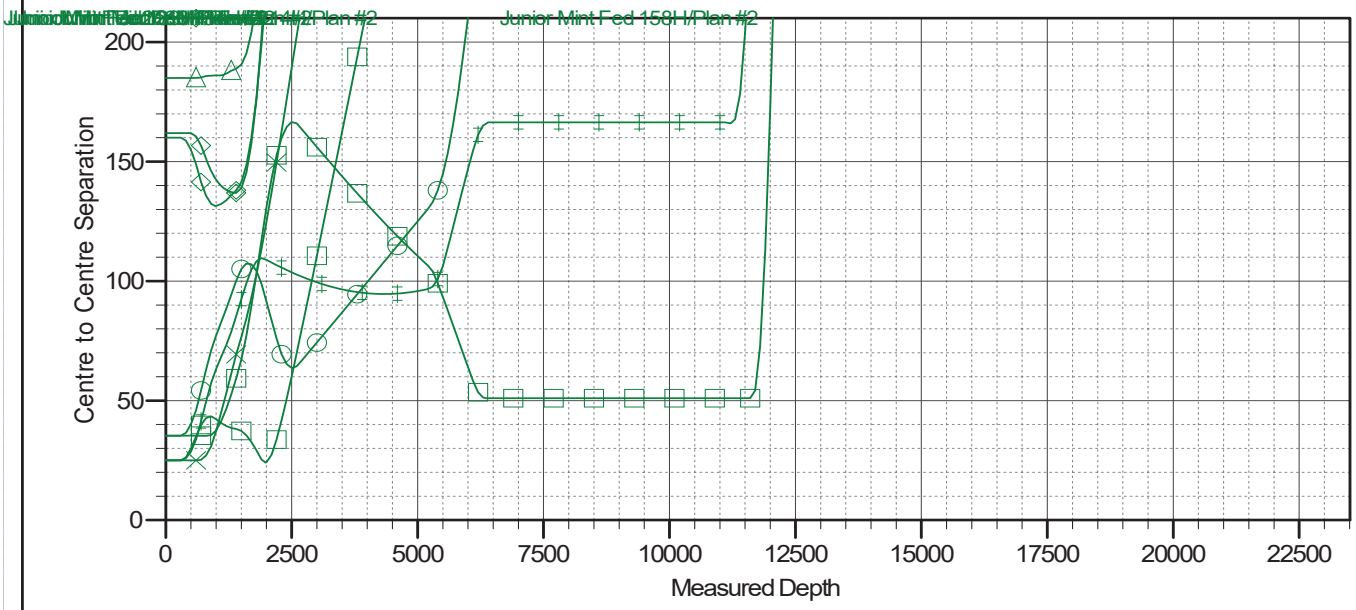
Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to GE 3220 + 26 @ 3246.00usft (26' KB)
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: Junior Mint Fed 138H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.52°

Ladder Plot



LEGEND

Junior Mint Fed 217H, OH, Plan #1 V0
Junior Mint Fed 158H, OH, Plan #2 V0
Junior Mint Fed 133H, OH, Plan #2 V0
Junior Mint Fed 213H, OH, Plan #2 V0
Junior Mint Fed 214H, OH, Plan #2 V0
Junior Mint Fed 216H, OH, Plan #2 V0
Junior Mint Fed 218H, OH, Plan #2 V0
Junior Mint Fed 156H, OH, Plan #2 V0
Junior Mint Fed 134H, OH, Plan #2 V0
Junior Mint Fed 137H, OH, Plan 2 V0
Junior Mint Fed 224H, OH, Plan #2 V0
Junior Mint Fed 223H, OH, Plan #2 V0

Total Directional

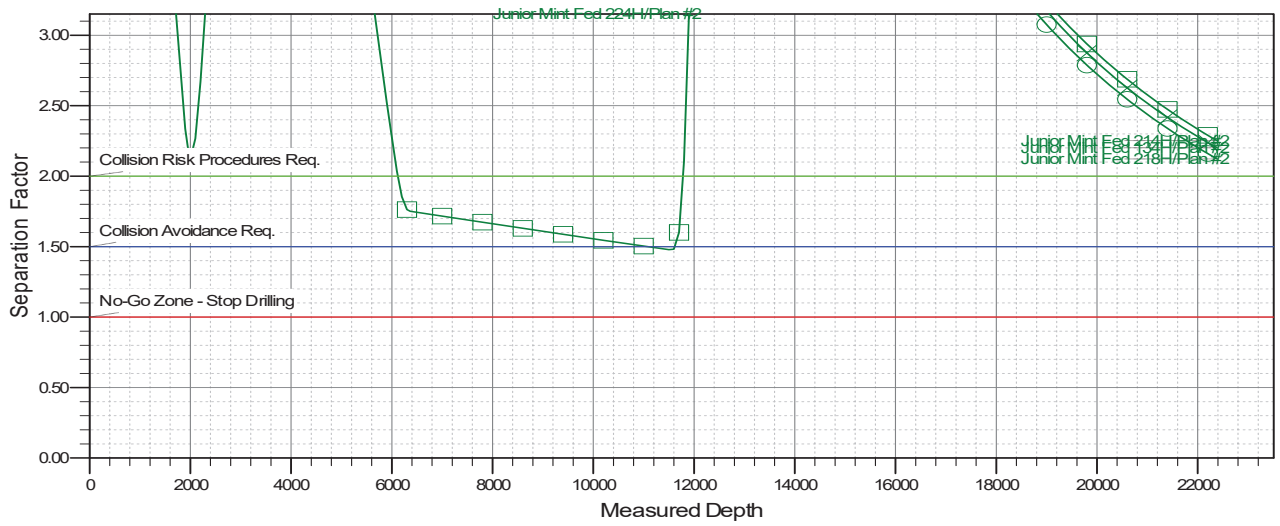
Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 138H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 138H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.50 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to GE 3220 + 26 @ 3246.00usft (26' KB)
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: Junior Mint Fed 138H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.52°

Separation Factor Plot



LEGEND

Junior Mint Fed 217H, OH, Plan #1 V0
Junior Mint Fed 158H, OH, Plan #2 V0
Junior Mint Fed 133H, OH, Plan #2 V0
Junior Mint Fed 213H, OH, Plan #2 V0
Junior Mint Fed 214H, OH, Plan #2 V0
Junior Mint Fed 216H, OH, Plan #2 V0
Junior Mint Fed 218H, OH, Plan #2 V0
Junior Mint Fed 156H, OH, Plan #2 V0
Junior Mint Fed 134H, OH, Plan #2 V0
Junior Mint Fed 137H, OH, Plan 2 V0
Junior Mint Fed 224H, OH, Plan #2 V0
Junior Mint Fed 223H, OH, Plan #2 V0

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: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-025-	98185	WC-025 G-09 S253502B; LWR BONE SPRING

Property Code	Property Name	Well Number
	JUNIOR MINT FED	138H

OGRID No.	Operator Name	Ground Level Elevation
332195	CIVITAS PERMIAN OPERATING, LLC	3224'

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
O	10	25-S	35-E	-	524' S	1635' E	N 32.1390653	W 103.3521500	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
P	22	25-S	35-E	-	5' S	609' E	N 32.1086037	W 103.3488313	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidated Code
1280.00	Infill	30-025-54739 (131H)	N	N/A

Order Numbers: NSP
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
A	15	25-S	35-E	-	100' N	609' E	N 32.1373435	W 103.3488270	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
A	15	25-S	35-E	-	100' N	609' E	N 32.1373435	W 103.3488270	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
P	22	25-S	35-E	-	100' S	609' E	N 32.1088649	W 103.3488312	LEA

Unitized Area or Area of Uniform Intrest	Spacing Unity Type	Ground Floor Elevation
Y	☒ Horizontal ☐ Vertical	3224'

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 — 9-16-25

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

4/17/2025 8:09:35 AM

Signature and Seal of Professional Surveyor — Date

Certificate Number

Date of Survey: 06/07/2022

M:\SURVEY\CIVITAS_RESOURCES_INC\LEA\JUNIOR_MINT_UNIT\FINAL_PRODUCTS\TAPROCK C-102 UPDATES\C-102_JUNIOR_MINT_FED_138H_REV3.dwg YAHIR.MENDIETA 4/17/2025 8:09 AM

C-102

Submit Electronically
Via OCD Permitting

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

Revised July 9, 2024

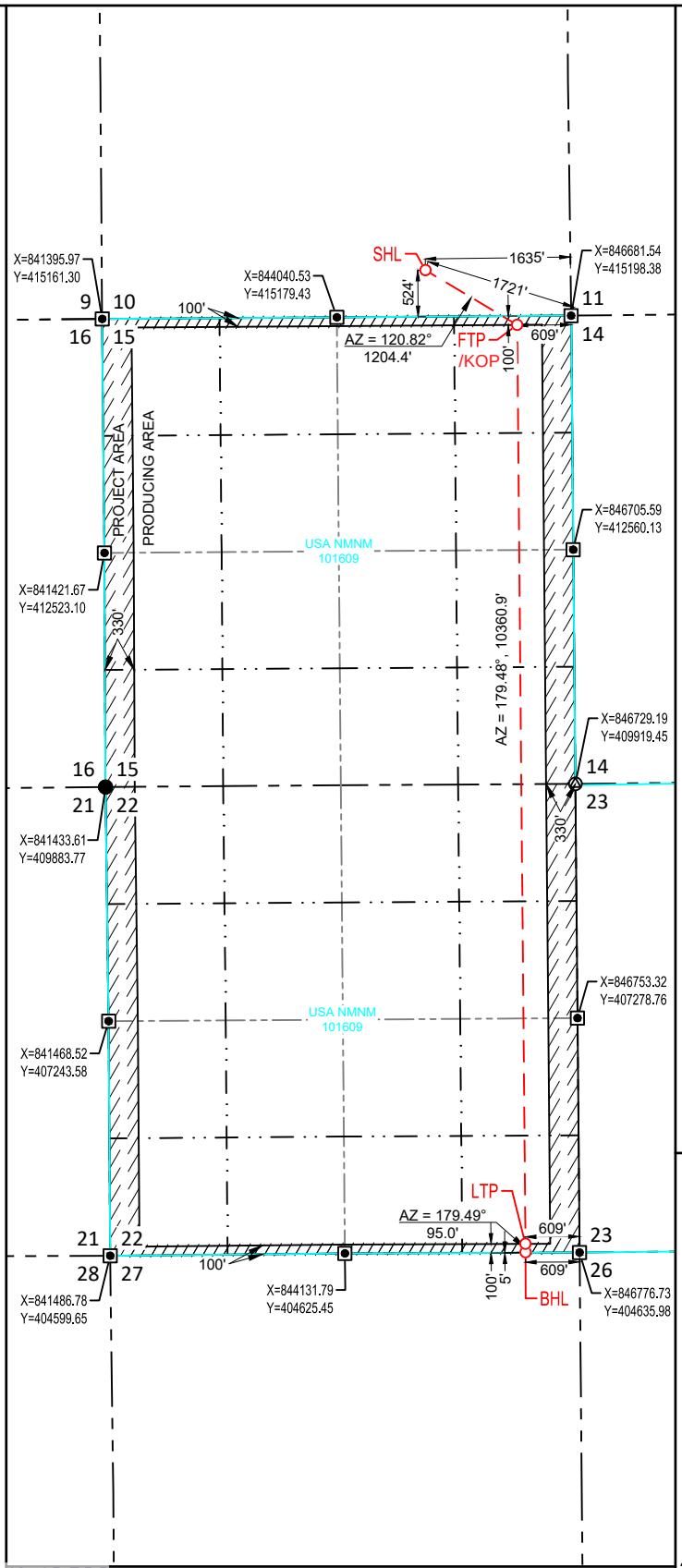
Submittal Type:
- [X] Initial Submittal
- [ ] Amended Report
- [ ] As Drilled

Property Name and Well Number

JUNIOR MINT FED 138H

SURFACE LOCATION (SHL)
NEW MEXICO EAST
NAD 1983
X=845039
Y=415711
LAT.: N 32.1390653
LONG.: W 103.3521500
524' FSL 1635' FEL

KICK OFF POINT (KOP) / FIRST TAKE POINT (FTP)
NEW MEXICO EAST
NAD 1983
X=846073
Y=415094
LAT.: N 32.1373435
LONG.: W 103.3488270
100' FNL 609' FEL



LAST TAKE POINT (LTP)
NEW MEXICO EAST
NAD 1983
X=846167
Y=404734
LAT.: N 32.1088649
LONG.: W 103.3488312
100' FSL 609' FEL

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST
NAD 1983
X=846168
Y=404639
LAT.: N 32.1086037
LONG.: W 103.3488313
5' FSL 609' FEL

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.

06/07/2022
Date of Survey

Signature and Seal of Professional Surveyor:

RAMON DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

4/17/2025 8:09:38 AM

M:\SURVEY\CVITAS_RESOURCES_INC\LEA\JUNIOR_MINT_UNIT\FINAL_PRODUCTS\XPROCK C-102 UPDATES\C-102_JUNIOR_MINT_FED_138H_REV 3.dwg YAHIR.MENDIETA 4/17/2025 8:09 AM

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 E2 Pad

Well Name	API	ULSTR	Footages	Anticipated Oil (BBL/D)	Anticipated Gas (MCF/D)	Anticipated Produced Water (BBL/D)
Junior Mint Fed 113H	TBD	O-10-25S-35E	373' FSL/1477' FEL	620	800	960
Junior Mint Fed 117H	TBD	O-10-25S-35E	349' FSL/1558' FEL	620	800	960
Junior Mint Fed 118H	TBD	O-10-25S-35E	348' FSL/1452' FEL	620	800	960
Junior Mint Fed 123H	TBD	O-10-25S-35E	374' FSL/1558' FEL	620	800	960
Junior Mint Fed 124H	TBD	O-10-25S-35E	373' FSL/1453' FEL	620	800	960
Junior Mint Fed 133H	TBD	O-10-25S-35E	525' FSL/1740' FEL	620	800	960
Junior Mint Fed 134H	TBD	O-10-25S-35E	525' FSL/1715' FEL	620	800	960
Junior Mint Fed 138H	TBD	O-10-25S-35E	524' FSL/1635' FEL	620	800	960
Junior Mint Fed 156H	TBD	O-10-25S-35E	350' FSL/1663' FEL	620	800	960
Junior Mint Fed 158H	TBD	O-10-25S-35E	350' FSL/1638' FEL	620	800	960
Junior Mint Fed 213H	TBD	O-10-25S-35E	550' FSL/1740' FEL	620	800	960
Junior Mint Fed 214H	TBD	O-10-25S-35E	549' FSL/1635' FEL	620	800	960
Junior Mint Fed 216H	TBD	O-10-25S-35E	550' FSL/1715' FEL	620	800	960
Junior Mint Fed 218H	TBD	O-10-25S-35E	549' FSL/1610' FEL	620	800	960
Junior Mint Fed 223H	TBD	O-10-25S-35E	375' FSL/1663' FEL	620	800	960
Junior Mint Fed 224H	TBD	O-10-25S-35E	375' FSL/1637' FEL	620	800	960

V. Anticipated Schedule: Junior Mint E2 Pad

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Junior Mint Fed 113H	TBD	9/12/2026	12/11/2026	3/11/2027	3/31/2027	4/20/2027
Junior Mint Fed 117H	TBD	9/10/2026	12/9/2026	3/9/2027	3/29/2027	4/18/2027
Junior Mint Fed 118H	TBD	9/13/2026	12/12/2026	3/12/2027	4/1/2027	4/21/2027
Junior Mint Fed 123H	TBD	9/14/2026	12/13/2026	3/13/2027	4/2/2027	4/22/2027
Junior Mint Fed 124H	TBD	9/15/2026	12/14/2026	3/14/2027	4/3/2027	4/23/2027
Junior Mint Fed 133H	TBD	3/28/2026	6/26/2026	9/24/2026	10/14/2026	11/3/2026
Junior Mint Fed 134H	TBD	2/22/2026	5/23/2026	8/21/2026	9/10/2026	9/30/2026
Junior Mint Fed 138H	TBD	2/23/2026	5/24/2026	8/22/2026	9/11/2026	10/1/2026
Junior Mint Fed 156H	TBD	3/27/2026	6/25/2026	9/23/2026	10/13/2026	11/2/2026
Junior Mint Fed 158H	TBD	2/12/2026	5/13/2026	8/11/2026	8/31/2026	9/20/2026
Junior Mint Fed 213H	TBD	4/1/2026	6/30/2026	9/28/2026	10/18/2026	11/7/2026
Junior Mint Fed 214H	TBD	2/25/2026	5/26/2026	8/24/2026	9/13/2026	10/3/2026
Junior Mint Fed 216H	TBD	3/29/2026	6/27/2026	9/25/2026	10/15/2026	11/4/2026
Junior Mint Fed 218H	TBD	2/26/2026	5/27/2026	8/25/2026	9/14/2026	10/4/2026
Junior Mint Fed 223H	TBD	3/30/2026	6/28/2026	9/26/2026	10/16/2026	11/5/2026
Junior Mint Fed 224H	TBD	2/27/2026	5/28/2026	8/26/2026	9/15/2026	10/5/2026

CIVITAS

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
04/11/2025

APD ID: 10400086506
Submission Date: 07/06/2022
Operator Name: TAP ROCK OPERATING LLC
Well Name: JUNIOR MINT FED
Well Number: 138H
Well Type: OIL 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
9894156	QUATERNARY	3224	0	0	OTHER : Caliche	NONE	N
9894157	RUSTLER	2564	660	660	SALT	OTHER : Salt	N
9894158	TOP SALT	2124	1100	1100	SALT	OTHER : Salt	N
9894159	BASE OF SALT	-1696	4920	4970	SALT	OTHER : Salt	N
9894160	DELAWARE	-1936	5160	5214	OTHER, SANDSTONE : Mountain Group	NONE	N
9894161	LAMAR	-1941	5165	5219	SANDSTONE	NATURAL GAS, OIL	N
9894162	BELL CANYON	-1961	5185	5239	SANDSTONE	NATURAL GAS, OIL	N
9894163	RAMSEY SAND	-1981	5205	5260	SANDSTONE	NATURAL GAS, OIL	N
9894164	CHERRY CANYON	-2926	6150	6221	OTHER : Carbonate	NATURAL GAS, OIL	N
9894165	BRUSHY CANYON	-4396	7620	7716	SANDSTONE	NATURAL GAS, OIL	N
9894166	BONE SPRING LIME	-5706	8930	9032	OTHER : Carbonate	NATURAL GAS, OIL	N
9894167	UPPER AVALON SHALE	-5731	8955	9057	OTHER : Carbonate	NATURAL GAS, OIL	N
9894168	AVALON SAND	-5961	9185	9287	OTHER : Middle Carbonate	NATURAL GAS, OIL	N
9894169	BONE SPRING 1ST	-6941	10165	10267	SANDSTONE	NATURAL GAS, OIL	N
9894170	BONE SPRING 2ND	-7106	10330	10432	OTHER : Carbonate	NATURAL GAS, OIL	N
9894171	BONE SPRING 2ND	-7491	10715	10817	SANDSTONE	NATURAL GAS, OIL	N
9894154	BONE SPRING 3RD	-8041	11265	11367	OTHER : Carbonate	NATURAL GAS, OIL	N

Operator Name: TAP ROCK OPERATING LLC

Well Name: JUNIOR MINT FED **Well Number:** 138H

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
9894155	BONE SPRING 3RD	-8671	11895	12059	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

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

Equipment: At 22,547', 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_20220703102536.pdf

BOP Diagram Attachment:

10M_BOP_Stack_5M_Annular_Preventer_20220703102544.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	3224	2539	685	J-55	42	BUTT	1.13	1.15	DRY	1.6	DRY	1.6
2	PRODUCTION	6.75	5.5	NEW	NON API	N	0	11256	0	11154	3221	-7930	11256	P-110	20	OTHER - TXP	1.13	1.15	DRY	1.6	DRY	1.6

Operator Name: TAP ROCK OPERATING LLC

Well Name: JUNIOR MINT FED **Well Number:** 138H

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
3	INTERMEDIATE	9.875	7.625	NEW	API	N	0	11456	0	11354	3221	-8130	11456	P-110	29.7	BUTT	1.13	1.15	DRY	1.6	DRY	1.6
4	PRODUCTION	6.75	5.5	NEW	NON API	N	11256	22547	11154	12097	-7930	-8873	11291	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_20220703102610.pdf

Casing ID: 2 **String** PRODUCTION

Inspection Document:

Spec Document:

5.5in_TXP_Casing_Spec_20220703102711.PDF

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_20220703102719.pdf

Operator Name: TAP ROCK OPERATING LLC

Well Name: JUNIOR MINT FED **Well Number:** 138H

Casing Attachments

Casing ID: 3 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_20220703102645.pdf

Casing ID: 4 **String** PRODUCTION

Inspection Document:

Spec Document:

5.5in_W441_Casing_Spec_20220703102744.pdf

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_20220703102753.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		11256	22547	913	1.24	14.5	1132	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	10456	862	4.29	10.5	3700	65	Class C	Bentonite + 1% CaCL2 + 8% NaCL+

Operator Name: TAP ROCK OPERATING LLC

Well Name: JUNIOR MINT FED **Well Number:** 138H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
											LCM
INTERMEDIATE	Tail		10456	11456	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	11456	OTHER : Diesel Brine Emulsion	9.2	9.2							
11456	22547	OIL-BASED MUD	12.5	12.5							

Operator Name: TAP ROCK OPERATING LLC

Well Name: JUNIOR MINT FED **Well Number:** 138H

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: 7863 **Anticipated Surface Pressure:** 5201

Anticipated Bottom Hole Temperature(F): 195

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_E2_H2S_Plan_v2_RDC_20221112091334.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

JM_138H_Horizontal_Plan_20220703102946.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

JM_138H_Drill_Plan_20220703102956.pdf
CoFlex_Certs_20220703103032.pdf
JM_138H_Anticollision_Report_20220703103124.pdf
Well_Control_Plan_10M_BOP_5M_Annular_20220703103133.pdf
Wellhead_3T_11.75_1.625_5.5_062922_20220703103133.pdf

Other Variance attachment:

TAP ROCK RESOURCES

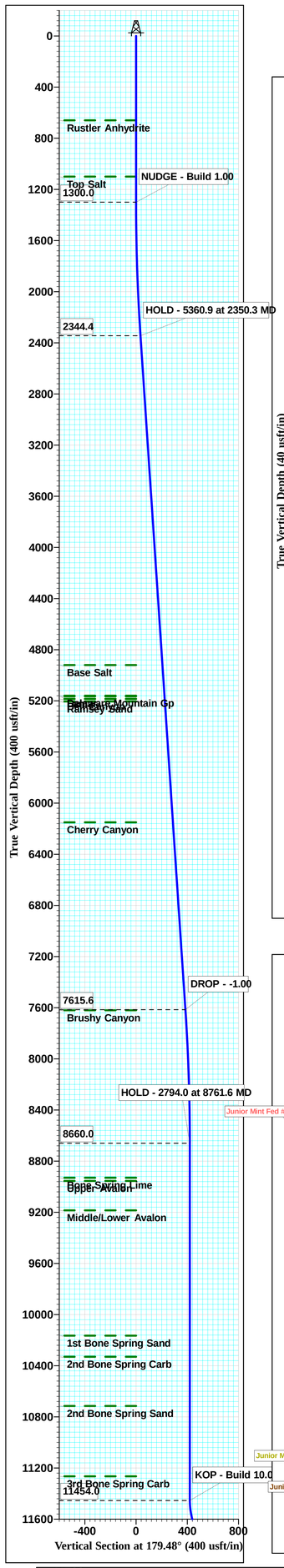
INTREPID

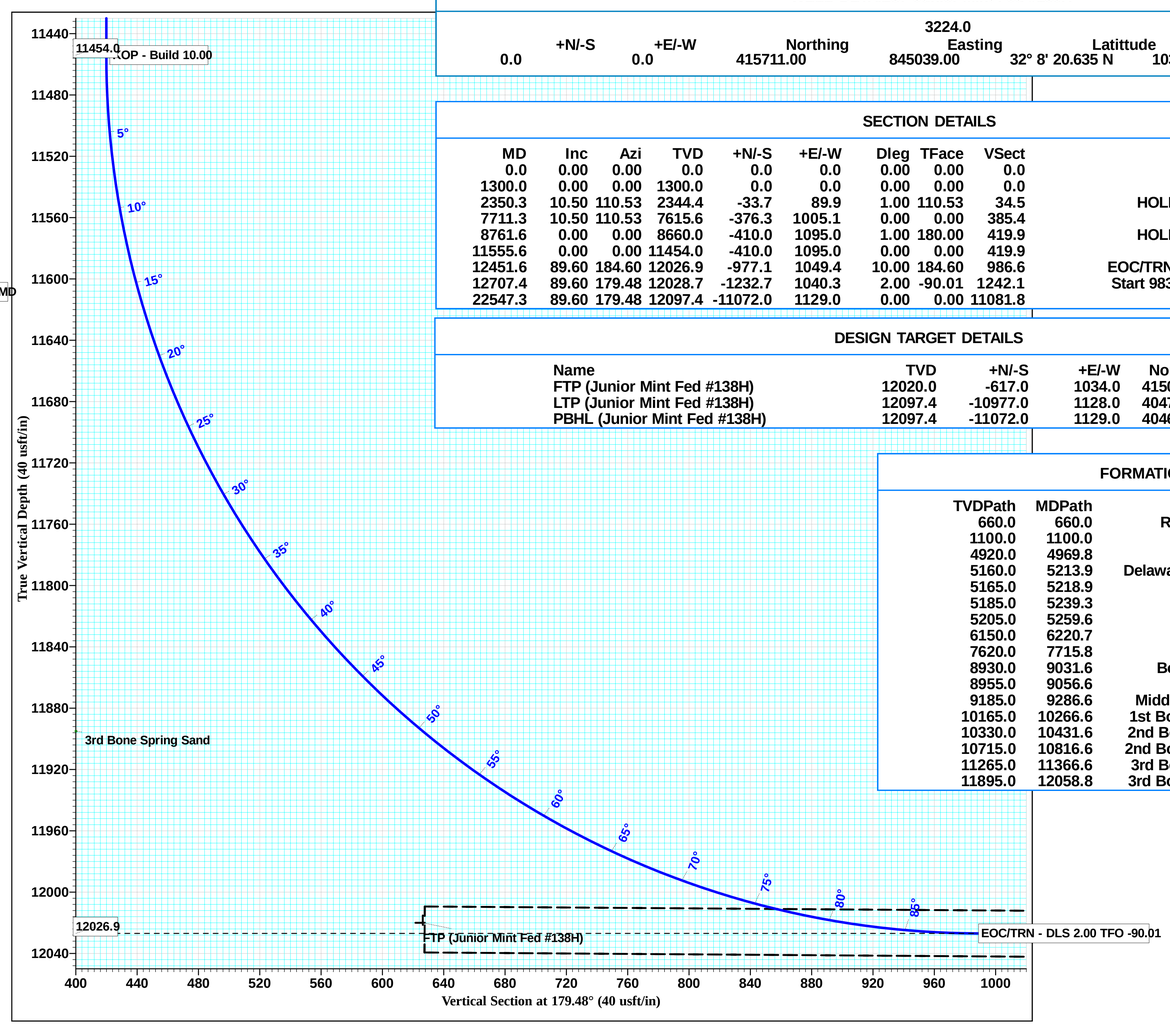
Azimuths to Grid North
True North: -0.52°
Magnetic North: 5.77°

Magnetic Field
Strength: 47396.2nT
Dip Angle: 59.95°
Date: 06/23/2022
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 5.77°

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 #138H
Wellbore: OWB
Design: Plan #1
Lat: 32° 8' 20.635 N
Long: 103° 21' 7.742 W
Pad GL: 3224.0
KB: KB @ 3250.0usft





WELL DETAILS: Junior Mint Fed #138H

	+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
3224.0	0.0	0.0	415711.00	845039.00	32° 8' 20.635 N	103° 21' 7.742 W

SECTION DETAILS

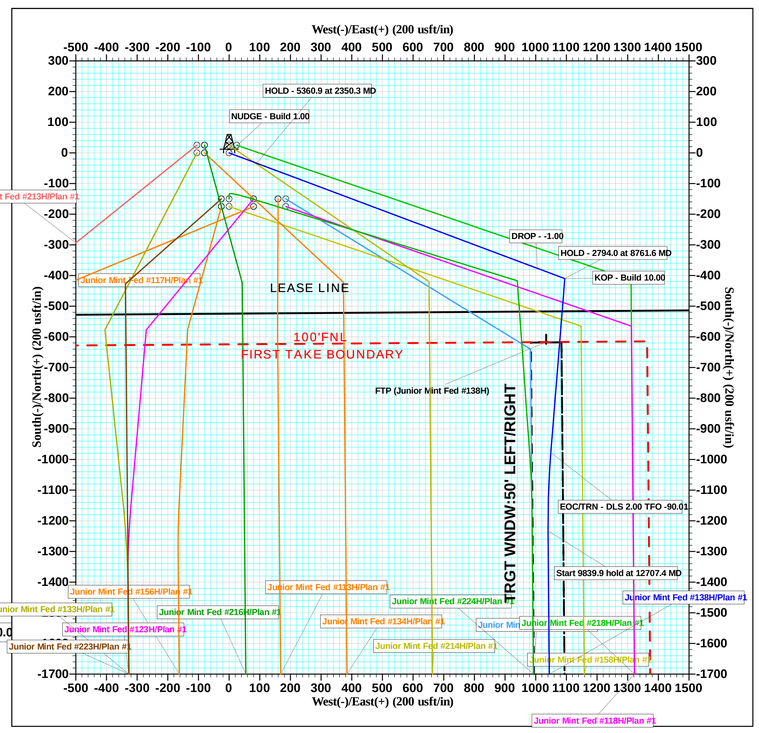
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1300.0	0.00	0.00	1300.0	0.0	0.0	0.00	0.00	0.0	NUDGE - Build 1.00
2350.3	10.50	110.53	2344.4	-33.7	89.9	1.00	110.53	34.5	HOLD - 5360.9 at 2350.3 MD
7711.3	10.50	110.53	7615.6	-376.3	1005.1	0.00	0.00	385.4	DROP - -1.00
8761.6	0.00	0.00	8660.0	-410.0	1095.0	1.00	180.00	419.9	HOLD - 2794.0 at 8761.6 MD
11555.6	0.00	0.00	11454.0	-410.0	1095.0	0.00	0.00	419.9	KOP - Build 10.00
12451.6	89.60	184.60	12026.9	-977.1	1049.4	10.00	184.60	986.6	EOC/TRN - DLS 2.00 TFO -90.01
12707.4	89.60	179.48	12028.7	-1232.7	1040.3	2.00	-90.01	1242.1	Start 9839.9 hold at 12707.4 MD
22547.3	89.60	179.48	12097.4	-11072.0	1129.0	0.00	0.00	11081.8	TD at 22547.3

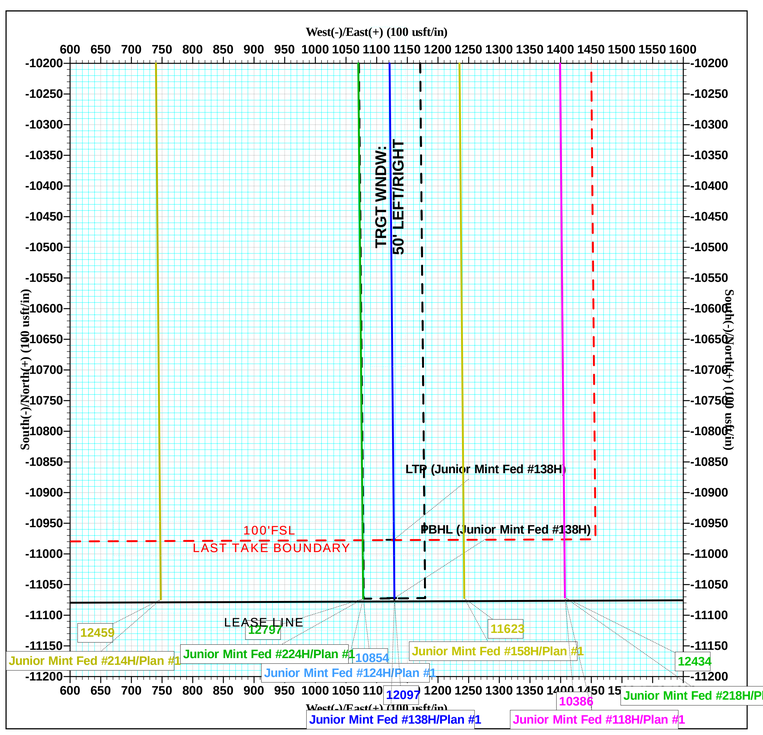
DESIGN TARGET DETAILS

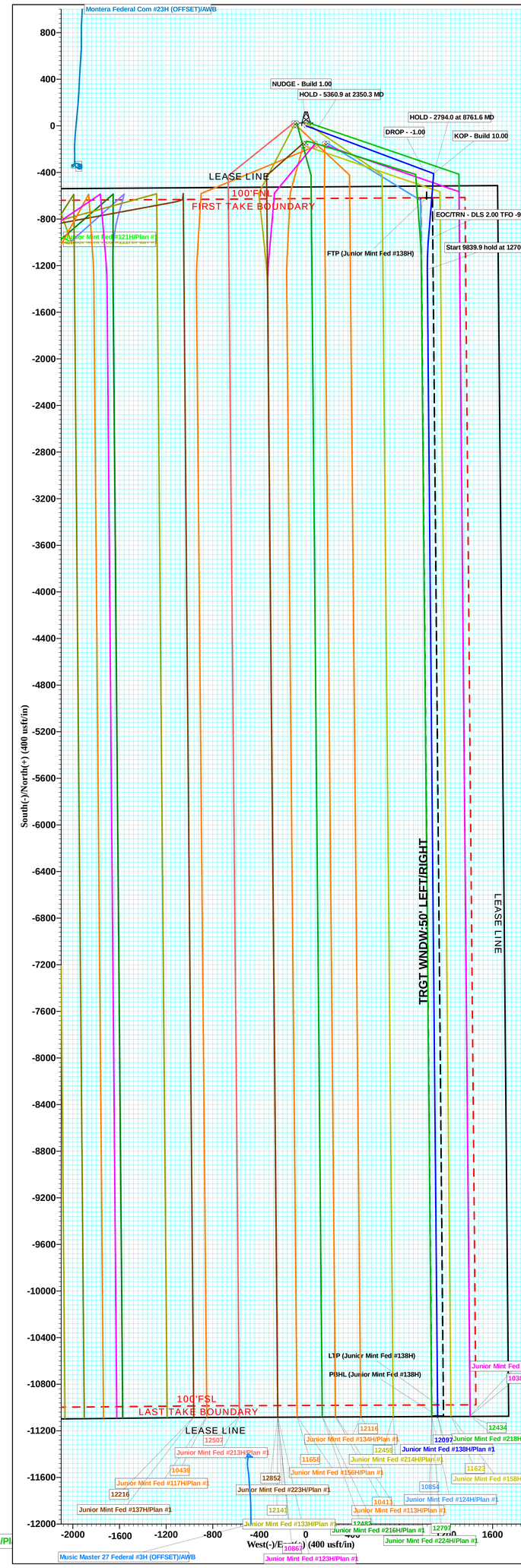
Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Junior Mint Fed #138H)	12020.0	-617.0	1034.0	415094.00	846073.00
LTP (Junior Mint Fed #138H)	12097.4	-10977.0	1128.0	404734.00	846167.00
PBHL (Junior Mint Fed #138H)	12097.4	-11072.0	1129.0	404639.00	846168.00

FORMATIONS

TVDPath	MDPath	Formation
660.0	660.0	Rustler Anhydrite
1100.0	1100.0	Top Salt
4920.0	4969.8	Base Salt
5160.0	5213.9	Delaware Mountain Gp
5165.0	5218.9	Lamar
5185.0	5239.3	Bell Canyon
5205.0	5259.6	Ramsey Sand
6150.0	6220.7	Cherry Canyon
7620.0	7715.8	Brushy Canyon
8930.0	9031.6	Bone Spring Lime
8955.0	9056.6	Upper Avalon
9185.0	9286.6	Middle/Lower Avalon
10165.0	10266.6	1st Bone Spring Sand
10330.0	10431.6	2nd Bone Spring Carb
10715.0	10816.6	2nd Bone Spring Sand
11265.0	11366.6	3rd Bone Spring Carb
11895.0	12058.8	3rd Bone Spring Sand







Tap Rock Resources, LLC

Lea County, NM (NAD 83 NME)
(Junior Mint Fed) Sec-15_T-25-S_R-35-E
Junior Mint Fed #138H

OWB

Plan: Plan #1

Standard Planning Report

26 June, 2022

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Junior Mint Fed #138H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3250.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3250.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	**North Reference:**	Grid
Well:	Junior Mint Fed #138H	**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 #138H

Well Position	**+N/-S**	986.0 usft	**Northing:**	415,711.00 usft	**Latitude:**	32° 8' 20.635 N
	+E/-W	2,114.0 usft	**Easting:**	845,039.00 usft	**Longitude:**	103° 21' 7.742 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,224.0 usft

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	06/23/22	6.29	59.95	47,396.16168892

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	179.48

Plan Survey Tool Program **Date** 06/26/22

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,546.7	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	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,350.3	10.50	110.53	2,344.4	-33.7	89.9	1.00	1.00	0.00	110.53	
7,711.3	10.50	110.53	7,615.6	-376.3	1,005.1	0.00	0.00	0.00	0.00	
8,761.6	0.00	0.00	8,660.0	-410.0	1,095.0	1.00	-1.00	0.00	180.00	
11,555.6	0.00	0.00	11,454.0	-410.0	1,095.0	0.00	0.00	0.00	0.00	
12,451.6	89.60	184.60	12,026.9	-977.1	1,049.4	10.00	10.00	0.00	184.60	
12,707.4	89.60	179.48	12,028.7	-1,232.7	1,040.3	2.00	0.00	-2.00	-90.01	
22,547.3	89.60	179.48	12,097.4	-11,072.0	1,129.0	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 #138H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3250.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3250.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	**North Reference:**	Grid
Well:	Junior Mint Fed #138H	**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
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
NUDGE - Build 1.00									
1,400.0	1.00	110.53	1,400.0	-0.3	0.8	0.3	1.00	1.00	0.00
1,500.0	2.00	110.53	1,500.0	-1.2	3.3	1.3	1.00	1.00	0.00
1,600.0	3.00	110.53	1,599.9	-2.8	7.4	2.8	1.00	1.00	0.00
1,700.0	4.00	110.53	1,699.7	-4.9	13.1	5.0	1.00	1.00	0.00
1,800.0	5.00	110.53	1,799.4	-7.6	20.4	7.8	1.00	1.00	0.00
1,900.0	6.00	110.53	1,898.9	-11.0	29.4	11.3	1.00	1.00	0.00
2,000.0	7.00	110.53	1,998.3	-15.0	40.0	15.3	1.00	1.00	0.00
2,100.0	8.00	110.53	2,097.4	-19.6	52.2	20.0	1.00	1.00	0.00
2,200.0	9.00	110.53	2,196.3	-24.7	66.1	25.3	1.00	1.00	0.00
2,300.0	10.00	110.53	2,294.9	-30.5	81.5	31.3	1.00	1.00	0.00
2,350.3	10.50	110.53	2,344.4	-33.7	89.9	34.5	1.00	1.00	0.00
HOLD - 5360.9 at 2350.3 MD									
2,400.0	10.50	110.53	2,393.3	-36.8	98.4	37.7	0.00	0.00	0.00
2,500.0	10.50	110.53	2,491.6	-43.2	115.5	44.3	0.00	0.00	0.00
2,600.0	10.50	110.53	2,589.9	-49.6	132.5	50.8	0.00	0.00	0.00
2,700.0	10.50	110.53	2,688.3	-56.0	149.6	57.4	0.00	0.00	0.00
2,800.0	10.50	110.53	2,786.6	-62.4	166.7	63.9	0.00	0.00	0.00
2,900.0	10.50	110.53	2,884.9	-68.8	183.7	70.5	0.00	0.00	0.00
3,000.0	10.50	110.53	2,983.2	-75.2	200.8	77.0	0.00	0.00	0.00
3,100.0	10.50	110.53	3,081.6	-81.6	217.9	83.6	0.00	0.00	0.00
3,200.0	10.50	110.53	3,179.9	-88.0	235.0	90.1	0.00	0.00	0.00
3,300.0	10.50	110.53	3,278.2	-94.4	252.0	96.7	0.00	0.00	0.00
3,400.0	10.50	110.53	3,376.5	-100.8	269.1	103.2	0.00	0.00	0.00
3,500.0	10.50	110.53	3,474.9	-107.2	286.2	109.7	0.00	0.00	0.00
3,600.0	10.50	110.53	3,573.2	-113.5	303.2	116.3	0.00	0.00	0.00
3,700.0	10.50	110.53	3,671.5	-119.9	320.3	122.8	0.00	0.00	0.00
3,800.0	10.50	110.53	3,769.8	-126.3	337.4	129.4	0.00	0.00	0.00
3,900.0	10.50	110.53	3,868.2	-132.7	354.5	135.9	0.00	0.00	0.00
4,000.0	10.50	110.53	3,966.5	-139.1	371.5	142.5	0.00	0.00	0.00
4,100.0	10.50	110.53	4,064.8	-145.5	388.6	149.0	0.00	0.00	0.00
4,200.0	10.50	110.53	4,163.1	-151.9	405.7	155.6	0.00	0.00	0.00
4,300.0	10.50	110.53	4,261.5	-158.3	422.7	162.1	0.00	0.00	0.00
4,400.0	10.50	110.53	4,359.8	-164.7	439.8	168.7	0.00	0.00	0.00
4,500.0	10.50	110.53	4,458.1	-171.1	456.9	175.2	0.00	0.00	0.00
4,600.0	10.50	110.53	4,556.4	-177.5	474.0	181.8	0.00	0.00	0.00
4,700.0	10.50	110.53	4,654.8	-183.9	491.0	188.3	0.00	0.00	0.00
4,800.0	10.50	110.53	4,753.1	-190.2	508.1	194.9	0.00	0.00	0.00
4,900.0	10.50	110.53	4,851.4	-196.6	525.2	201.4	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Junior Mint Fed #138H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3250.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3250.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	**North Reference:**	Grid
Well:	Junior Mint Fed #138H	**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)
5,000.0	10.50	110.53	4,949.7	-203.0	542.2	207.9	0.00	0.00	0.00
5,100.0	10.50	110.53	5,048.1	-209.4	559.3	214.5	0.00	0.00	0.00
5,200.0	10.50	110.53	5,146.4	-215.8	576.4	221.0	0.00	0.00	0.00
5,300.0	10.50	110.53	5,244.7	-222.2	593.5	227.6	0.00	0.00	0.00
5,400.0	10.50	110.53	5,343.0	-228.6	610.5	234.1	0.00	0.00	0.00
5,500.0	10.50	110.53	5,441.4	-235.0	627.6	240.7	0.00	0.00	0.00
5,600.0	10.50	110.53	5,539.7	-241.4	644.7	247.2	0.00	0.00	0.00
5,700.0	10.50	110.53	5,638.0	-247.8	661.7	253.8	0.00	0.00	0.00
5,800.0	10.50	110.53	5,736.3	-254.2	678.8	260.3	0.00	0.00	0.00
5,900.0	10.50	110.53	5,834.7	-260.6	695.9	266.9	0.00	0.00	0.00
6,000.0	10.50	110.53	5,933.0	-267.0	713.0	273.4	0.00	0.00	0.00
6,100.0	10.50	110.53	6,031.3	-273.3	730.0	280.0	0.00	0.00	0.00
6,200.0	10.50	110.53	6,129.6	-279.7	747.1	286.5	0.00	0.00	0.00
6,300.0	10.50	110.53	6,228.0	-286.1	764.2	293.1	0.00	0.00	0.00
6,400.0	10.50	110.53	6,326.3	-292.5	781.2	299.6	0.00	0.00	0.00
6,500.0	10.50	110.53	6,424.6	-298.9	798.3	306.1	0.00	0.00	0.00
6,600.0	10.50	110.53	6,522.9	-305.3	815.4	312.7	0.00	0.00	0.00
6,700.0	10.50	110.53	6,621.2	-311.7	832.5	319.2	0.00	0.00	0.00
6,800.0	10.50	110.53	6,719.6	-318.1	849.5	325.8	0.00	0.00	0.00
6,900.0	10.50	110.53	6,817.9	-324.5	866.6	332.3	0.00	0.00	0.00
7,000.0	10.50	110.53	6,916.2	-330.9	883.7	338.9	0.00	0.00	0.00
7,100.0	10.50	110.53	7,014.5	-337.3	900.7	345.4	0.00	0.00	0.00
7,200.0	10.50	110.53	7,112.9	-343.7	917.8	352.0	0.00	0.00	0.00
7,300.0	10.50	110.53	7,211.2	-350.0	934.9	358.5	0.00	0.00	0.00
7,400.0	10.50	110.53	7,309.5	-356.4	952.0	365.1	0.00	0.00	0.00
7,500.0	10.50	110.53	7,407.8	-362.8	969.0	371.6	0.00	0.00	0.00
7,600.0	10.50	110.53	7,506.2	-369.2	986.1	378.2	0.00	0.00	0.00
7,700.0	10.50	110.53	7,604.5	-375.6	1,003.2	384.7	0.00	0.00	0.00
7,711.3	10.50	110.53	7,615.6	-376.3	1,005.1	385.4	0.00	0.00	0.00
DROP - -1.00									
7,800.0	9.62	110.53	7,702.9	-381.8	1,019.6	391.0	1.00	-1.00	0.00
7,900.0	8.62	110.53	7,801.7	-387.3	1,034.4	396.7	1.00	-1.00	0.00
8,000.0	7.62	110.53	7,900.7	-392.3	1,047.7	401.8	1.00	-1.00	0.00
8,100.0	6.62	110.53	7,999.9	-396.6	1,059.3	406.2	1.00	-1.00	0.00
8,200.0	5.62	110.53	8,099.3	-400.4	1,069.2	410.0	1.00	-1.00	0.00
8,300.0	4.62	110.53	8,198.9	-403.5	1,077.6	413.2	1.00	-1.00	0.00
8,400.0	3.62	110.53	8,298.7	-406.0	1,084.3	415.8	1.00	-1.00	0.00
8,500.0	2.62	110.53	8,398.5	-407.9	1,089.4	417.8	1.00	-1.00	0.00
8,600.0	1.62	110.53	8,498.5	-409.2	1,092.9	419.1	1.00	-1.00	0.00
8,700.0	0.62	110.53	8,598.4	-409.9	1,094.7	419.8	1.00	-1.00	0.00
8,761.6	0.00	0.00	8,660.0	-410.0	1,095.0	419.9	1.00	-1.00	0.00
HOLD - 2794.0 at 8761.6 MD									
8,800.0	0.00	0.00	8,698.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
8,900.0	0.00	0.00	8,798.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
9,000.0	0.00	0.00	8,898.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
9,100.0	0.00	0.00	8,998.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
9,200.0	0.00	0.00	9,098.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
9,300.0	0.00	0.00	9,198.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
9,400.0	0.00	0.00	9,298.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
9,500.0	0.00	0.00	9,398.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
9,600.0	0.00	0.00	9,498.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
9,700.0	0.00	0.00	9,598.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
9,800.0	0.00	0.00	9,698.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
9,900.0	0.00	0.00	9,798.4	-410.0	1,095.0	419.9	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Junior Mint Fed #138H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3250.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3250.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	**North Reference:**	Grid
Well:	Junior Mint Fed #138H	**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)
10,000.0	0.00	0.00	9,898.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
10,100.0	0.00	0.00	9,998.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
10,200.0	0.00	0.00	10,098.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
10,300.0	0.00	0.00	10,198.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
10,400.0	0.00	0.00	10,298.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
10,500.0	0.00	0.00	10,398.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
10,600.0	0.00	0.00	10,498.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
10,700.0	0.00	0.00	10,598.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
10,800.0	0.00	0.00	10,698.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
10,900.0	0.00	0.00	10,798.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
11,000.0	0.00	0.00	10,898.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
11,100.0	0.00	0.00	10,998.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
11,200.0	0.00	0.00	11,098.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
11,300.0	0.00	0.00	11,198.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
11,400.0	0.00	0.00	11,298.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
11,500.0	0.00	0.00	11,398.4	-410.0	1,095.0	419.9	0.00	0.00	0.00
11,555.6	0.00	0.00	11,454.0	-410.0	1,095.0	419.9	0.00	0.00	0.00
KOP - Build 10.00									
11,600.0	4.44	184.60	11,498.4	-411.7	1,094.9	421.6	10.00	10.00	0.00
11,650.0	9.44	184.60	11,548.0	-417.7	1,094.4	427.7	10.00	10.00	0.00
11,700.0	14.44	184.60	11,596.9	-428.0	1,093.5	438.0	10.00	10.00	0.00
11,750.0	19.44	184.60	11,644.7	-442.6	1,092.4	452.5	10.00	10.00	0.00
11,800.0	24.44	184.60	11,691.1	-461.2	1,090.9	471.1	10.00	10.00	0.00
11,850.0	29.44	184.60	11,735.6	-483.8	1,089.1	493.6	10.00	10.00	0.00
11,900.0	34.44	184.60	11,778.1	-510.1	1,086.9	520.0	10.00	10.00	0.00
11,950.0	39.44	184.60	11,818.0	-540.1	1,084.5	549.9	10.00	10.00	0.00
12,000.0	44.44	184.60	11,855.2	-573.4	1,081.9	583.2	10.00	10.00	0.00
12,050.0	49.44	184.60	11,889.3	-609.8	1,078.9	619.5	10.00	10.00	0.00
12,100.0	54.44	184.60	11,920.1	-649.0	1,075.8	658.7	10.00	10.00	0.00
12,150.0	59.44	184.60	11,947.4	-690.8	1,072.4	700.5	10.00	10.00	0.00
12,200.0	64.44	184.60	11,970.9	-734.7	1,068.9	744.4	10.00	10.00	0.00
12,250.0	69.44	184.60	11,990.5	-780.6	1,065.2	790.2	10.00	10.00	0.00
12,300.0	74.44	184.60	12,006.0	-827.9	1,061.4	837.5	10.00	10.00	0.00
12,350.0	79.44	184.60	12,017.3	-876.5	1,057.5	886.0	10.00	10.00	0.00
12,400.0	84.44	184.60	12,024.3	-925.8	1,053.5	935.3	10.00	10.00	0.00
12,451.6	89.60	184.60	12,026.9	-977.1	1,049.4	986.6	10.00	10.00	0.00
EOC/TRN - DLS 2.00 TFO -90.01									
12,500.0	89.60	183.63	12,027.3	-1,025.4	1,045.9	1,034.9	2.00	0.00	-2.00
12,600.0	89.60	181.63	12,028.0	-1,125.3	1,041.3	1,134.7	2.00	0.00	-2.00
12,707.4	89.60	179.48	12,028.7	-1,232.7	1,040.3	1,242.1	2.00	0.00	-2.00
Start 9839.9 hold at 12707.4 MD									
12,800.0	89.60	179.48	12,029.4	-1,325.3	1,041.1	1,334.7	0.00	0.00	0.00
12,900.0	89.60	179.48	12,030.1	-1,425.3	1,042.0	1,434.7	0.00	0.00	0.00
13,000.0	89.60	179.48	12,030.8	-1,525.3	1,042.9	1,534.7	0.00	0.00	0.00
13,100.0	89.60	179.48	12,031.5	-1,625.3	1,043.8	1,634.7	0.00	0.00	0.00
13,200.0	89.60	179.48	12,032.2	-1,725.3	1,044.7	1,734.7	0.00	0.00	0.00
13,300.0	89.60	179.48	12,032.9	-1,825.3	1,045.6	1,834.7	0.00	0.00	0.00
13,400.0	89.60	179.48	12,033.6	-1,925.3	1,046.5	1,934.7	0.00	0.00	0.00
13,500.0	89.60	179.48	12,034.3	-2,025.3	1,047.4	2,034.7	0.00	0.00	0.00
13,600.0	89.60	179.48	12,035.0	-2,125.2	1,048.3	2,134.7	0.00	0.00	0.00
13,700.0	89.60	179.48	12,035.7	-2,225.2	1,049.2	2,234.7	0.00	0.00	0.00
13,800.0	89.60	179.48	12,036.4	-2,325.2	1,050.1	2,334.7	0.00	0.00	0.00
13,900.0	89.60	179.48	12,037.0	-2,425.2	1,051.0	2,434.7	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Junior Mint Fed #138H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3250.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3250.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	**North Reference:**	Grid
Well:	Junior Mint Fed #138H	**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)
14,000.0	89.60	179.48	12,037.7	-2,525.2	1,051.9	2,534.7	0.00	0.00	0.00
14,100.0	89.60	179.48	12,038.4	-2,625.2	1,052.8	2,634.7	0.00	0.00	0.00
14,200.0	89.60	179.48	12,039.1	-2,725.2	1,053.7	2,734.7	0.00	0.00	0.00
14,300.0	89.60	179.48	12,039.8	-2,825.2	1,054.6	2,834.7	0.00	0.00	0.00
14,400.0	89.60	179.48	12,040.5	-2,925.2	1,055.5	2,934.7	0.00	0.00	0.00
14,500.0	89.60	179.48	12,041.2	-3,025.2	1,056.4	3,034.6	0.00	0.00	0.00
14,600.0	89.60	179.48	12,041.9	-3,125.2	1,057.3	3,134.6	0.00	0.00	0.00
14,700.0	89.60	179.48	12,042.6	-3,225.2	1,058.2	3,234.6	0.00	0.00	0.00
14,800.0	89.60	179.48	12,043.3	-3,325.2	1,059.1	3,334.6	0.00	0.00	0.00
14,900.0	89.60	179.48	12,044.0	-3,425.2	1,060.0	3,434.6	0.00	0.00	0.00
15,000.0	89.60	179.48	12,044.7	-3,525.2	1,060.9	3,534.6	0.00	0.00	0.00
15,100.0	89.60	179.48	12,045.4	-3,625.1	1,061.8	3,634.6	0.00	0.00	0.00
15,200.0	89.60	179.48	12,046.1	-3,725.1	1,062.7	3,734.6	0.00	0.00	0.00
15,300.0	89.60	179.48	12,046.8	-3,825.1	1,063.6	3,834.6	0.00	0.00	0.00
15,400.0	89.60	179.48	12,047.5	-3,925.1	1,064.5	3,934.6	0.00	0.00	0.00
15,500.0	89.60	179.48	12,048.2	-4,025.1	1,065.4	4,034.6	0.00	0.00	0.00
15,600.0	89.60	179.48	12,048.9	-4,125.1	1,066.3	4,134.6	0.00	0.00	0.00
15,700.0	89.60	179.48	12,049.6	-4,225.1	1,067.2	4,234.6	0.00	0.00	0.00
15,800.0	89.60	179.48	12,050.3	-4,325.1	1,068.1	4,334.6	0.00	0.00	0.00
15,900.0	89.60	179.48	12,051.0	-4,425.1	1,069.1	4,434.6	0.00	0.00	0.00
16,000.0	89.60	179.48	12,051.7	-4,525.1	1,070.0	4,534.6	0.00	0.00	0.00
16,100.0	89.60	179.48	12,052.4	-4,625.1	1,070.9	4,634.6	0.00	0.00	0.00
16,200.0	89.60	179.48	12,053.1	-4,725.1	1,071.8	4,734.6	0.00	0.00	0.00
16,300.0	89.60	179.48	12,053.8	-4,825.1	1,072.7	4,834.6	0.00	0.00	0.00
16,400.0	89.60	179.48	12,054.5	-4,925.1	1,073.6	4,934.6	0.00	0.00	0.00
16,500.0	89.60	179.48	12,055.2	-5,025.1	1,074.5	5,034.6	0.00	0.00	0.00
16,600.0	89.60	179.48	12,055.9	-5,125.1	1,075.4	5,134.6	0.00	0.00	0.00
16,700.0	89.60	179.48	12,056.6	-5,225.0	1,076.3	5,234.6	0.00	0.00	0.00
16,800.0	89.60	179.48	12,057.3	-5,325.0	1,077.2	5,334.6	0.00	0.00	0.00
16,900.0	89.60	179.48	12,058.0	-5,425.0	1,078.1	5,434.6	0.00	0.00	0.00
17,000.0	89.60	179.48	12,058.7	-5,525.0	1,079.0	5,534.6	0.00	0.00	0.00
17,100.0	89.60	179.48	12,059.4	-5,625.0	1,079.9	5,634.6	0.00	0.00	0.00
17,200.0	89.60	179.48	12,060.1	-5,725.0	1,080.8	5,734.6	0.00	0.00	0.00
17,300.0	89.60	179.48	12,060.8	-5,825.0	1,081.7	5,834.6	0.00	0.00	0.00
17,400.0	89.60	179.48	12,061.5	-5,925.0	1,082.6	5,934.6	0.00	0.00	0.00
17,500.0	89.60	179.48	12,062.2	-6,025.0	1,083.5	6,034.6	0.00	0.00	0.00
17,600.0	89.60	179.48	12,062.9	-6,125.0	1,084.4	6,134.6	0.00	0.00	0.00
17,700.0	89.60	179.48	12,063.6	-6,225.0	1,085.3	6,234.6	0.00	0.00	0.00
17,800.0	89.60	179.48	12,064.3	-6,325.0	1,086.2	6,334.6	0.00	0.00	0.00
17,900.0	89.60	179.48	12,065.0	-6,425.0	1,087.1	6,434.6	0.00	0.00	0.00
18,000.0	89.60	179.48	12,065.6	-6,525.0	1,088.0	6,534.6	0.00	0.00	0.00
18,100.0	89.60	179.48	12,066.3	-6,625.0	1,088.9	6,634.6	0.00	0.00	0.00
18,200.0	89.60	179.48	12,067.0	-6,724.9	1,089.8	6,734.6	0.00	0.00	0.00
18,300.0	89.60	179.48	12,067.7	-6,824.9	1,090.7	6,834.6	0.00	0.00	0.00
18,400.0	89.60	179.48	12,068.4	-6,924.9	1,091.6	6,934.6	0.00	0.00	0.00
18,500.0	89.60	179.48	12,069.1	-7,024.9	1,092.5	7,034.6	0.00	0.00	0.00
18,600.0	89.60	179.48	12,069.8	-7,124.9	1,093.4	7,134.6	0.00	0.00	0.00
18,700.0	89.60	179.48	12,070.5	-7,224.9	1,094.3	7,234.5	0.00	0.00	0.00
18,800.0	89.60	179.48	12,071.2	-7,324.9	1,095.2	7,334.5	0.00	0.00	0.00
18,900.0	89.60	179.48	12,071.9	-7,424.9	1,096.1	7,434.5	0.00	0.00	0.00
19,000.0	89.60	179.48	12,072.6	-7,524.9	1,097.0	7,534.5	0.00	0.00	0.00
19,100.0	89.60	179.48	12,073.3	-7,624.9	1,097.9	7,634.5	0.00	0.00	0.00
19,200.0	89.60	179.48	12,074.0	-7,724.9	1,098.8	7,734.5	0.00	0.00	0.00
19,300.0	89.60	179.48	12,074.7	-7,824.9	1,099.7	7,834.5	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Junior Mint Fed #138H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3250.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3250.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	**North Reference:**	Grid
Well:	Junior Mint Fed #138H	**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)
19,400.0	89.60	179.48	12,075.4	-7,924.9	1,100.6	7,934.5	0.00	0.00	0.00
19,500.0	89.60	179.48	12,076.1	-8,024.9	1,101.5	8,034.5	0.00	0.00	0.00
19,600.0	89.60	179.48	12,076.8	-8,124.9	1,102.4	8,134.5	0.00	0.00	0.00
19,700.0	89.60	179.48	12,077.5	-8,224.8	1,103.3	8,234.5	0.00	0.00	0.00
19,800.0	89.60	179.48	12,078.2	-8,324.8	1,104.2	8,334.5	0.00	0.00	0.00
19,900.0	89.60	179.48	12,078.9	-8,424.8	1,105.1	8,434.5	0.00	0.00	0.00
20,000.0	89.60	179.48	12,079.6	-8,524.8	1,106.0	8,534.5	0.00	0.00	0.00
20,100.0	89.60	179.48	12,080.3	-8,624.8	1,106.9	8,634.5	0.00	0.00	0.00
20,200.0	89.60	179.48	12,081.0	-8,724.8	1,107.8	8,734.5	0.00	0.00	0.00
20,300.0	89.60	179.48	12,081.7	-8,824.8	1,108.7	8,834.5	0.00	0.00	0.00
20,400.0	89.60	179.48	12,082.4	-8,924.8	1,109.6	8,934.5	0.00	0.00	0.00
20,500.0	89.60	179.48	12,083.1	-9,024.8	1,110.5	9,034.5	0.00	0.00	0.00
20,600.0	89.60	179.48	12,083.8	-9,124.8	1,111.4	9,134.5	0.00	0.00	0.00
20,700.0	89.60	179.48	12,084.5	-9,224.8	1,112.3	9,234.5	0.00	0.00	0.00
20,800.0	89.60	179.48	12,085.2	-9,324.8	1,113.2	9,334.5	0.00	0.00	0.00
20,900.0	89.60	179.48	12,085.9	-9,424.8	1,114.1	9,434.5	0.00	0.00	0.00
21,000.0	89.60	179.48	12,086.6	-9,524.8	1,115.0	9,534.5	0.00	0.00	0.00
21,100.0	89.60	179.48	12,087.3	-9,624.8	1,115.9	9,634.5	0.00	0.00	0.00
21,200.0	89.60	179.48	12,088.0	-9,724.8	1,116.8	9,734.5	0.00	0.00	0.00
21,300.0	89.60	179.48	12,088.7	-9,824.7	1,117.8	9,834.5	0.00	0.00	0.00
21,400.0	89.60	179.48	12,089.4	-9,924.7	1,118.7	9,934.5	0.00	0.00	0.00
21,500.0	89.60	179.48	12,090.1	-10,024.7	1,119.6	10,034.5	0.00	0.00	0.00
21,600.0	89.60	179.48	12,090.8	-10,124.7	1,120.5	10,134.5	0.00	0.00	0.00
21,700.0	89.60	179.48	12,091.5	-10,224.7	1,121.4	10,234.5	0.00	0.00	0.00
21,800.0	89.60	179.48	12,092.2	-10,324.7	1,122.3	10,334.5	0.00	0.00	0.00
21,900.0	89.60	179.48	12,092.9	-10,424.7	1,123.2	10,434.5	0.00	0.00	0.00
22,000.0	89.60	179.48	12,093.5	-10,524.7	1,124.1	10,534.5	0.00	0.00	0.00
22,100.0	89.60	179.48	12,094.2	-10,624.7	1,125.0	10,634.5	0.00	0.00	0.00
22,200.0	89.60	179.48	12,094.9	-10,724.7	1,125.9	10,734.5	0.00	0.00	0.00
22,300.0	89.60	179.48	12,095.6	-10,824.7	1,126.8	10,834.5	0.00	0.00	0.00
22,400.0	89.60	179.48	12,096.3	-10,924.7	1,127.7	10,934.5	0.00	0.00	0.00
22,500.0	89.60	179.48	12,097.0	-11,024.7	1,128.6	11,034.5	0.00	0.00	0.00
22,547.3	89.60	179.48	12,097.4	-11,072.0	1,129.0	11,081.8	0.00	0.00	0.00
TD at 22547.3									

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	12,020.0	-617.0	1,034.0	415,094.00	846,073.00	32° 8' 14.436 N	103° 20' 55.783 W
- plan misses target center by 108.2usft at 12130.6usft MD (11937.2 TVD, -674.2 N, 1073.7 E)									
- Point									
LTP (Junior Mint Fed #	0.00	0.00	12,097.4	-10,977.0	1,128.0	404,734.00	846,167.00	32° 6' 31.918 N	103° 20' 55.790 W
- plan misses target center by 0.7usft at 22452.3usft MD (12096.7 TVD, -10977.0 N, 1128.1 E)									
- Point									
PBHL (Junior Mint Fec	0.40	179.48	12,097.4	-11,072.0	1,129.0	404,639.00	846,168.00	32° 6' 30.978 N	103° 20' 55.789 W
- plan hits target center									
- Rectangle (sides W100.0 H10,455.0 D30.0)									

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Junior Mint Fed #138H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3250.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3250.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	**North Reference:**	Grid
Well:	Junior Mint Fed #138H	**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			
4,969.8	4,920.0	Base Salt			
5,213.9	5,160.0	Delaware Mountain Gp			
5,218.9	5,165.0	Lamar			
5,239.3	5,185.0	Bell Canyon			
5,259.6	5,205.0	Ramsey Sand			
6,220.7	6,150.0	Cherry Canyon			
7,715.8	7,620.0	Brushy Canyon			
9,031.6	8,930.0	Bone Spring Lime			
9,056.6	8,955.0	Upper Avalon			
9,286.6	9,185.0	Middle/Lower Avalon			
10,266.6	10,165.0	1st Bone Spring Sand			
10,431.6	10,330.0	2nd Bone Spring Carb			
10,816.6	10,715.0	2nd Bone Spring Sand			
11,366.6	11,265.0	3rd Bone Spring Carb			
12,058.8	11,895.0	3rd Bone Spring Sand			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,300.0	1,300.0	0.0	0.0	NUDGE - Build 1.00
2,350.3	2,344.4	-33.7	89.9	HOLD - 5360.9 at 2350.3 MD
7,711.3	7,615.6	-376.3	1,005.1	DROP - -1.00
8,761.6	8,660.0	-410.0	1,095.0	HOLD - 2794.0 at 8761.6 MD
11,555.6	11,454.0	-410.0	1,095.0	KOP - Build 10.00
12,451.6	12,026.9	-977.1	1,049.4	EOC/TRN - DLS 2.00 TFO -90.01
12,707.4	12,028.7	-1,232.7	1,040.3	Start 9839.9 hold at 12707.4 MD
22,547.3	12,097.4	-11,072.0	1,129.0	TD at 22547.3

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Tap Rock Operating LLC
WELL NAME & NO.:	Junior Mint Fed 138H
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:

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

 Approval Date: 02/08/2023

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

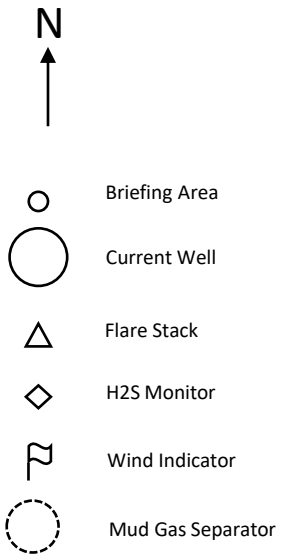
8 Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubulars good and other mechanical equipment

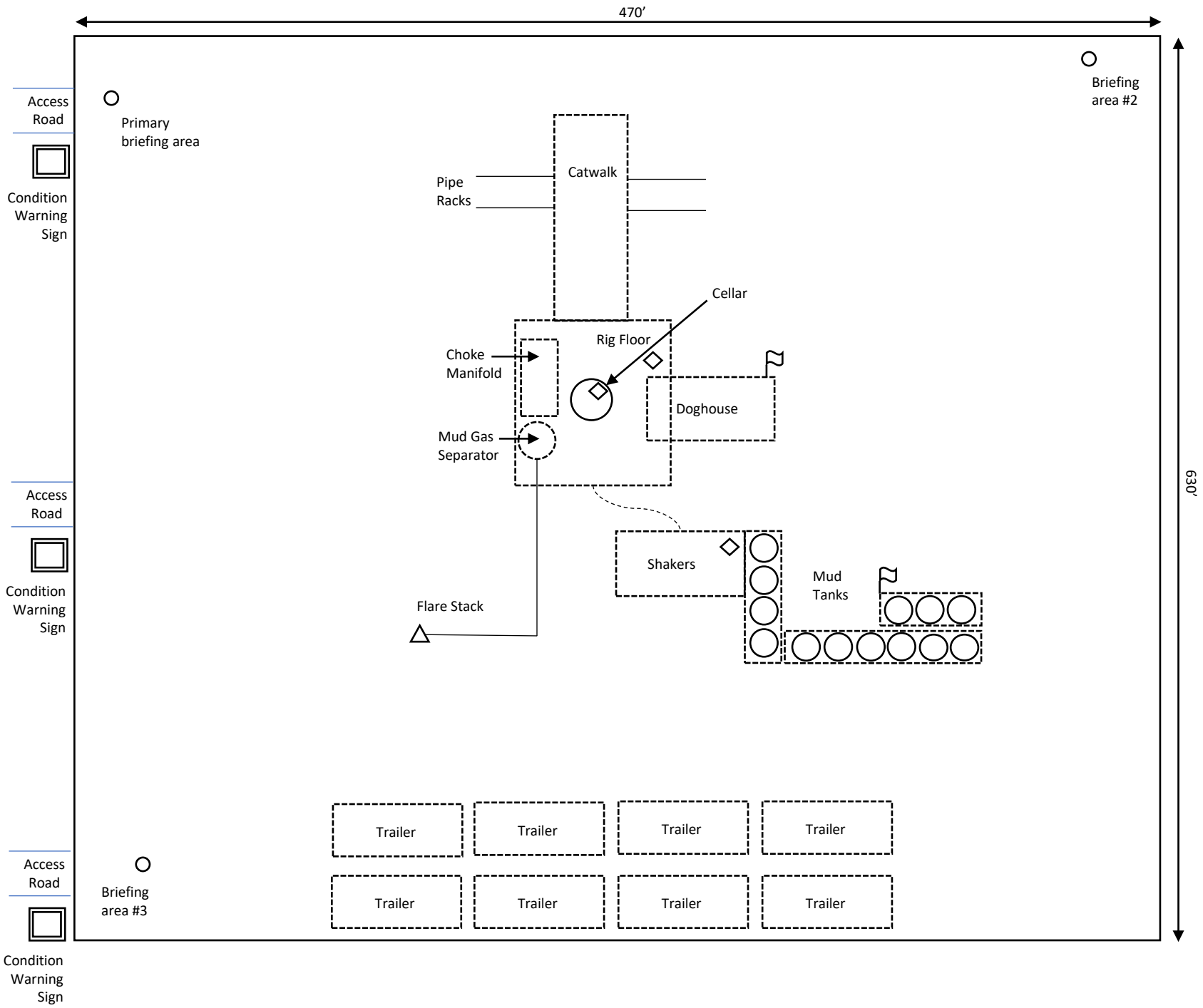
9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary

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 E2 Pad
Tap Rock Operating, LLC
10-25S-35E
Lea County, NM





Tap Rock Operating LLC

Junior Mint Fed E2 Pad
H2S Contingency Plan:
2 Mile Radius Map

Sec. 10, Township 25S, Range 35E
Lea County, New Mexico

Well Pad Location

1:27,000

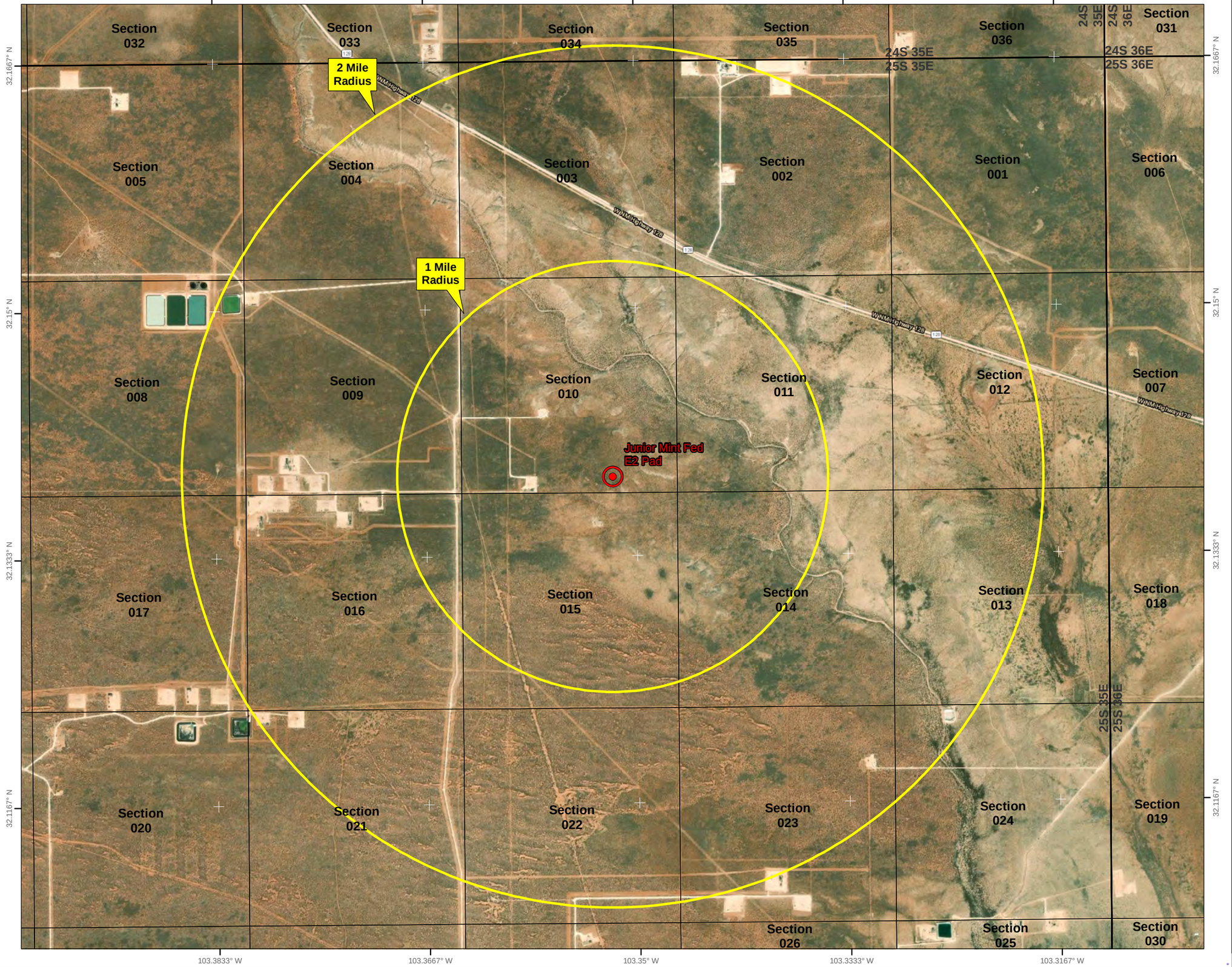
0 0.25 0.5 1
Miles

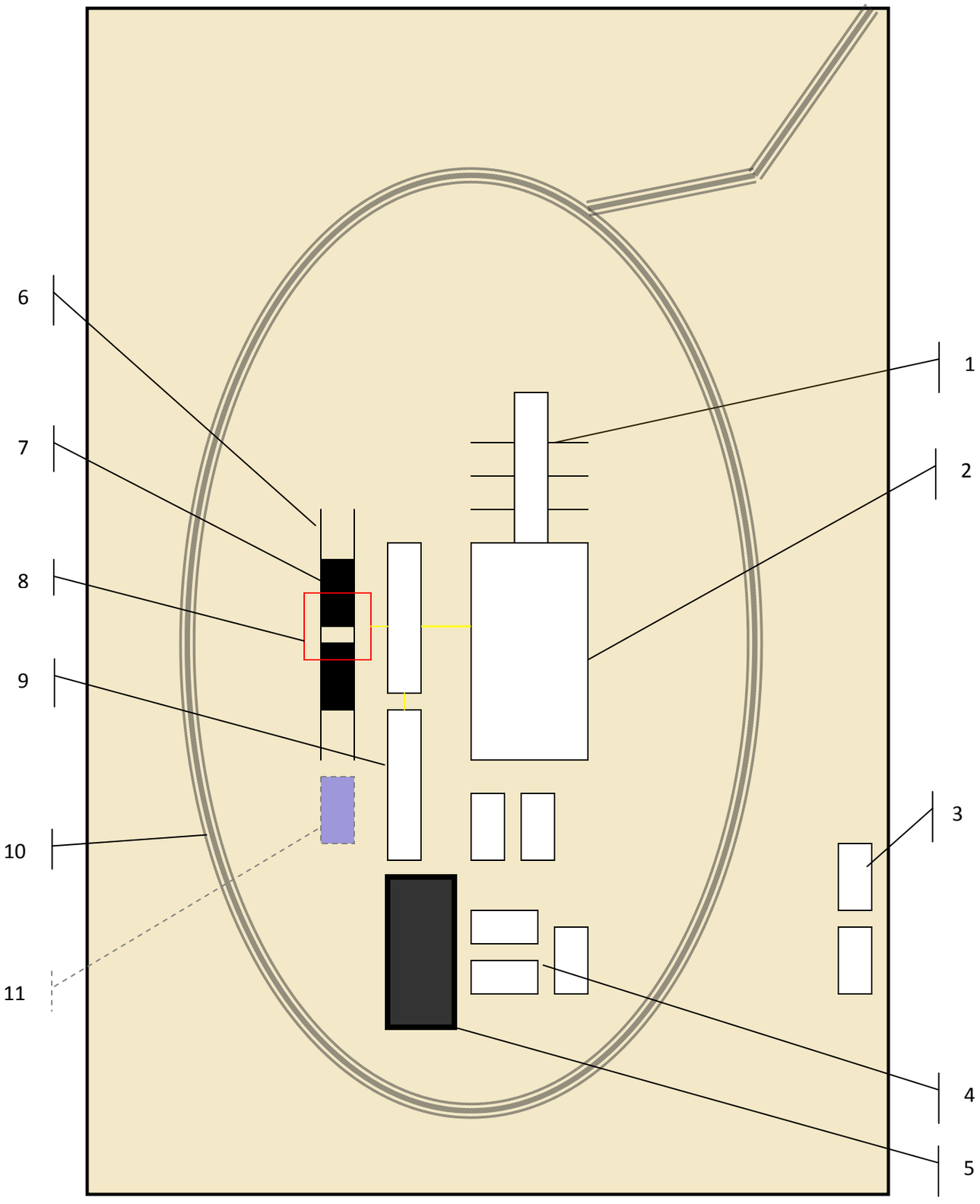
N

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





Schematic Closed Loop Drilling Rig*

1. **Pipe Rack**
2. **Drill Rig**
3. **House Trailers/ Offices**
4. **Generator/Fuel/Storage**
5. **Overflow-Frac Tank**
6. **Skids**
7. **Roll Offs**
8. **Hopper or Centrifuge**
9. **Mud Tanks**
10. **Loop Drive**
11. **Generator (only for use with centrifuge)**

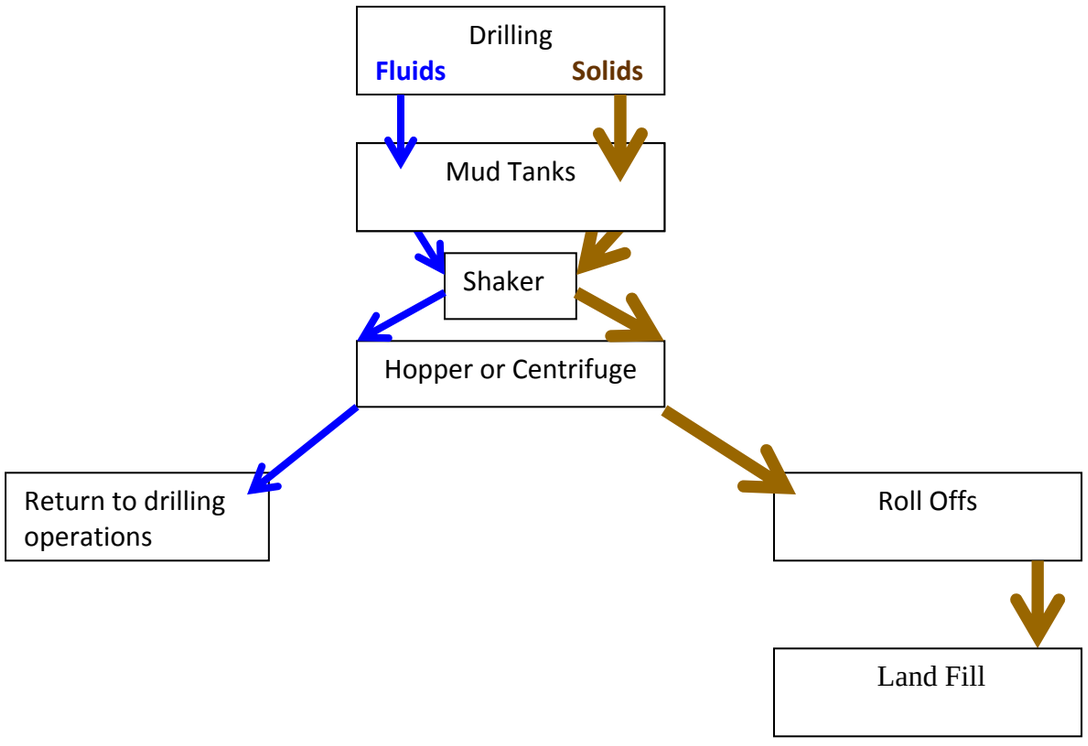
***Not drawn to scale: Closed loop system requires at least 30 feet beyond mud tanks. Ideally 60 feet would be available**

Above: Centrifugal Closed Loop System

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

Closed Loop Drilling System: Mud tanks to right (1)
Hopper in air to settle out solids (2)
Water return pipe (3)
Shaker between hopper and mud tanks (4)
Roll offs on skids (5)

Flow Chart for Drilling Fluids and Solids



Photos Courtesy of Gandy Corporation Oil Field Service

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

ACKNOWLEDGMENTS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 526773
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☑	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 526773
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
permitsw	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/16/2025
matthew.gomez	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing, if a CBL is unable to indicate sufficient cement coverage due to a lighter cement, a USI log may also be required. If strata isolation is not achieved, remediation will be required before further operations may commence.	12/16/2025
matthew.gomez	All conducted logs must be submitted to the OCD.	12/16/2025
matthew.gomez	Cement must be in place for at least eight hours and achieve a minimum compressive strength of 500 PSI before performing any further operations on the well.	12/16/2025
matthew.gomez	Administrative order required for non-standard spacing unit prior to production.	12/16/2025
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	12/16/2025
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.	12/16/2025
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.	12/16/2025
matthew.gomez	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/16/2025