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 213H

2. Name of Operator: TAP ROCK OPERATING LLC

9. API Well No.: 30-025-55582

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

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

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

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

At surface: SWSE / 550 FSL / 1740 FEL / LAT 33.1391366 / LONG -103.3524884

At proposed prod. zone: SWSE / 5 FSL / 2310 FEL / LAT 32.1086277 / LONG -103.3543245

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): 550 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: 12508 feet / 22903 feet

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

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3225 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.

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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

11/14/2025

Well Name: JUNIOR MINT FED

Well Location: T25S / R35E / SEC 10 / SWSE / 33.1391366 / -103.3524884

County or Parish/State: LEA / NM

Well Number: 213H

Type of Well: CONVENTIONAL GAS 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: 2874489

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 09/19/2025

Time Sundry Submitted: 11:27

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 550’ FSL & 1740’ FEL, SWSE, Sec. 10, T.25S, R.35E to 513’ FSL & 1460’ 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. 10400086481.

NOI Attachments

Procedure Description

JM_213H_Sundry_Attachment_091825_20250919112558.pdf

Well Name: JUNIOR MINT FED

Well Location: T25S / R35E / SEC 10 / SWSE / 33.1391366 / -103.3524884

County or Parish/State: LEA / NM

Well Number: 213H

Type of Well: CONVENTIONAL GAS 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_2874489_Junior_Mint_Fed_213H_COAs_20251029131922.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: SEP 25, 2025 03:16 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: ALLISON MORENCY

BLM POC Title: Contractor WO

BLM POC Phone: 2029127157

BLM POC Email Address: amorency@blm.gov

Disposition: Approved

Disposition Date: 11/13/2025

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/213H

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 Dogie Draw; Wolfcamp

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	

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.)

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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 09/25/2025

THE SPACE FOR FEDERAL OR STATE OFICE USE

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

Title Petroleum Engineer

Date 11/13/2025

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 / 550 FSL / 1740 FEL / TWSP: 25S / RANGE: 35E / SECTION: 10 / LAT: 33.1391366 / LONG: -103.3524884 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 8 FNL / 2302 FEL / TWSP: 25S / RANGE: 35E / SECTION: 15 / LAT: 32.1376087 / LONG: -103.3543032 (TVD: 12210 feet, MD: 12274 feet)

BHL: SWSE / 5 FSL / 2310 FEL / TWSP: 25S / RANGE: 35E / SECTION: 22 / LAT: 32.1086277 / LONG: -103.3543245 (TVD: 12508 feet, MD: 22903 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Civitas Permian Operating LLC
WELL NAME & NO.:	Junior Mint Fed 213H
LOCATION:	Sec 10-25S-35E-NMP
COUNTY:	Lea County, New Mexico

*Changes approved through engineering via **Sundry 2874489** 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
30-025-55582	17980	DOGIE DRAW; WOLFCAMP

Property Code	Property Name	Well Number
337333	JUNIOR MINT FED	213H

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

Surface Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal

Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
O	10	25-S	35-E	-	513' S	1460' E	N 32.1390334	W 103.3515850	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
O	22	25-S	35-E	-	5' S	2310' E	N 32.1086277	W 103.3543245	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidated Code
1280.00	Infill	30-025-54751 (217H)	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
B	15	25-S	35-E	-	100' N	2310' E	N 32.1373525	W 103.3543220	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
B	15	25-S	35-E	-	100' N	2310' E	N 32.1373525	W 103.3543220	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
O	22	25-S	35-E	-	100' S	2310' E	N 32.1088889	W 103.3543244	LEA

Unitized Area or Area of Uniform Interest	Spacing Unity Type	Ground Floor Elevation
N/A	☒ Horizontal ☐ Vertical	3221'

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 10:23:09 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\C_JUNIOR_MINT_FED_213H_REV1.dwg BRADLEY LUCES 8/11/2025 10:23 AM

C-102

Submit Electronically
Via OCD Permitting

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

Revised July 9, 2024

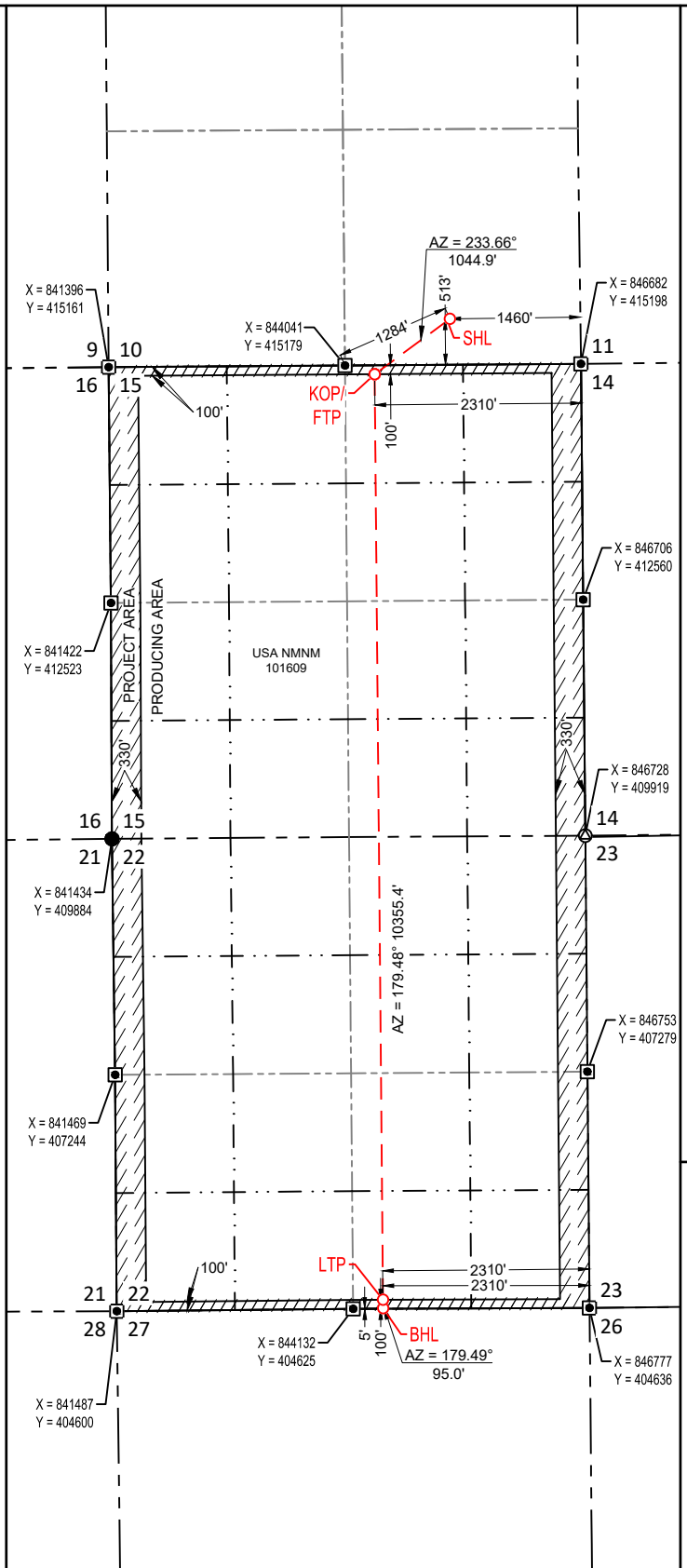
Submittal Type:
- ☐ Initial Submittal
- ☒ Amended Report
- ☐ As Drilled

Property Name and Well Number

JUNIOR MINT FED 213H

SURFACE LOCATION (SHL)
NEW MEXICO EAST
NAD 1983
X=845214 Y=415701
LAT.: N 32.1390334
LONG.: W 103.3515850
NAD 1927
X=804027 Y=415643
LAT.: N 32.1389070
LONG.: W 103.3511201
513' FSL 1460' FEL

KICK OFF POINT (KOP) FIRST TAKE POINT (FTP)
NEW MEXICO EAST
NAD 1983
X=844373 Y=415082
LAT.: N 32.1373525
LONG.: W 103.3543220
NAD 1927
X=803186 Y=415023
LAT.: N 32.1372261
LONG.: W 103.3538571
100' FNL 2310' FEL



LAST TAKE POINT (LTP)
NEW MEXICO EAST
NAD 1983
X=844466 Y=404727
LAT.: N 32.1088889
LONG.: W 103.3543244
NAD 1927
X=803279 Y=404669
LAT.: N 32.1087623
LONG.: W 103.3538611
100' FSL 2310' FEL

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST
NAD 1983
X=844467 Y=404632
LAT.: N 32.1086277
LONG.: W 103.3543245
NAD 1927
X=803280 Y=404574
LAT.: N 32.1085012
LONG.: W 103.3538612
5' FSL 2310' 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:

RAMON DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

M:\SURVEY\CVITAS_RESOURCES_INC\JUNIOR_MINT_UNIT\FINAL_PRODUCT\SJUNIOR MINT FED REVISED\JUNIOR MINT WB\Z:\PADS\D_JUNIOR_MINT_FED_213H_REV1.dwg BRADLEY.ALLES 8/11/2025 10:23 AM

DRILLING AND OPERATIONS PLAN

Civitas Permian Operating LLC

Section 1: Well Information

Well Name and Number: **Junior Mint Fed 213**

Proposed TD (ft MD): 22830 Proposed TD (ft TVD): 12508

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	11,853	surface	11,733	29.7	P110	BTC		1.13	1.15	BUOY	1.80	BUOY	1.80
Production	6.75	5.5	surface	22,830	surface	12,508	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	821	3.98	25	Class C	Additives + LCM
Intermediate	Tail	10853	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	11503	13.2	788	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	11853	Brine or Oil Based Mud	9.2	10.0
11853	22830	Brine or Oil Based Mud	11.5	13.0

Section 5: BOPE & Wellhead

Hole Section	Hole Size / Casing		Stack Size	MAASP (psi)	Min. Required WP	BOPE Type & Components	Test Pressures (psi)	Notes / Variance Reference
Int 1	9.875	7.625	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	6.75	5.5	13-5/8", 10M	7136	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:	**8455**	PSI
Anticipated Static Bottom Hole Temperature:	**200**	°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

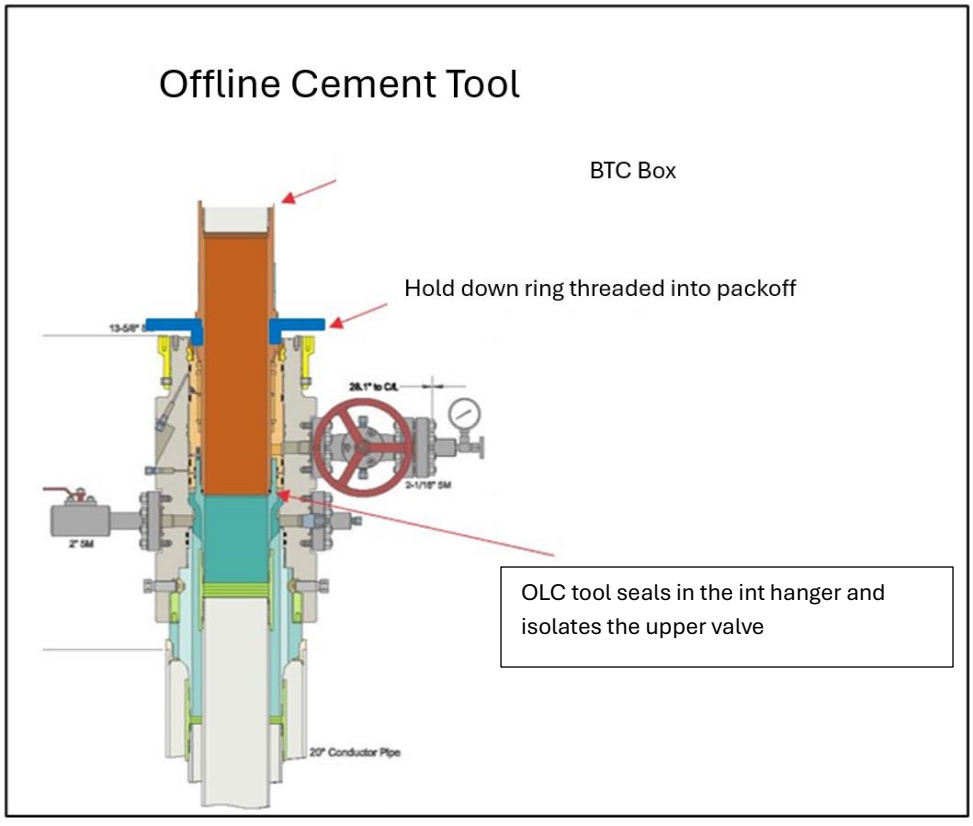
Var #	Type	Description of Request
1	**Offline Cementing**	Request to perform offline cementing of surface and intermediate casing when strings are set above the Wolfcamp formation. This allows rig operations to continue while cement sets. (see attached plan).
2	**Intermediate Second-Stage Bullheading**	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

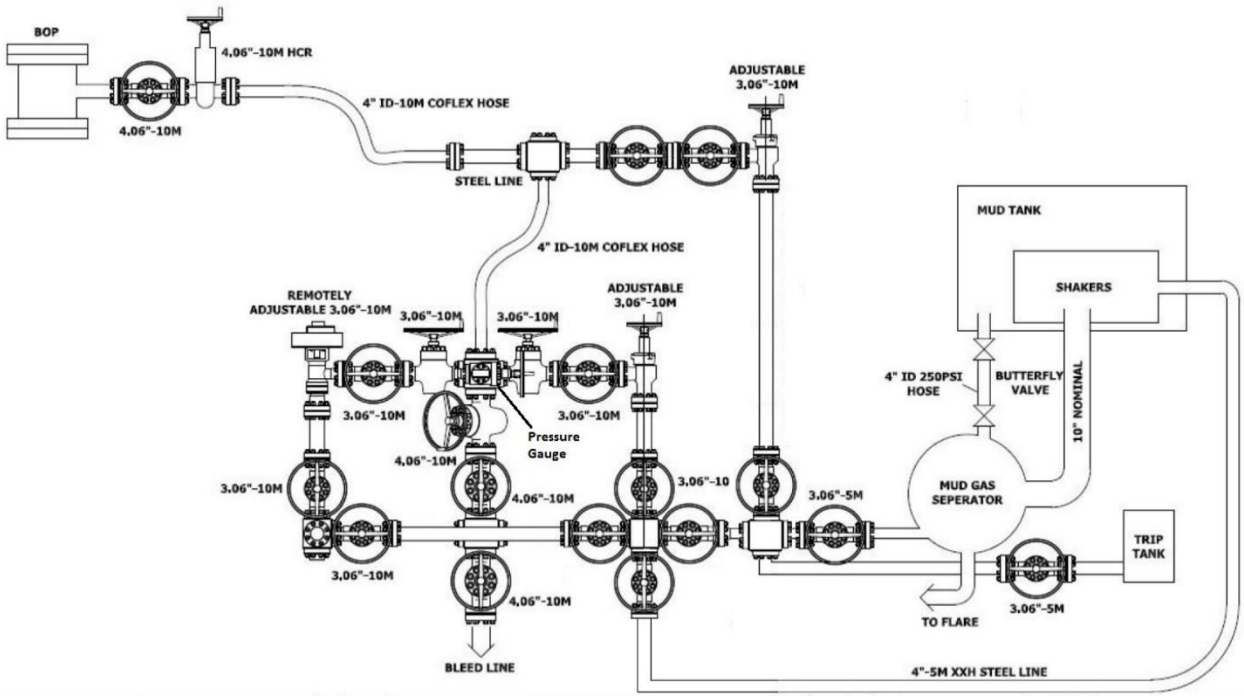
1	**Directional Plan**
2	**Offline Cementing and Well control attachment**
3	**H2S Contingency Plan**

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:

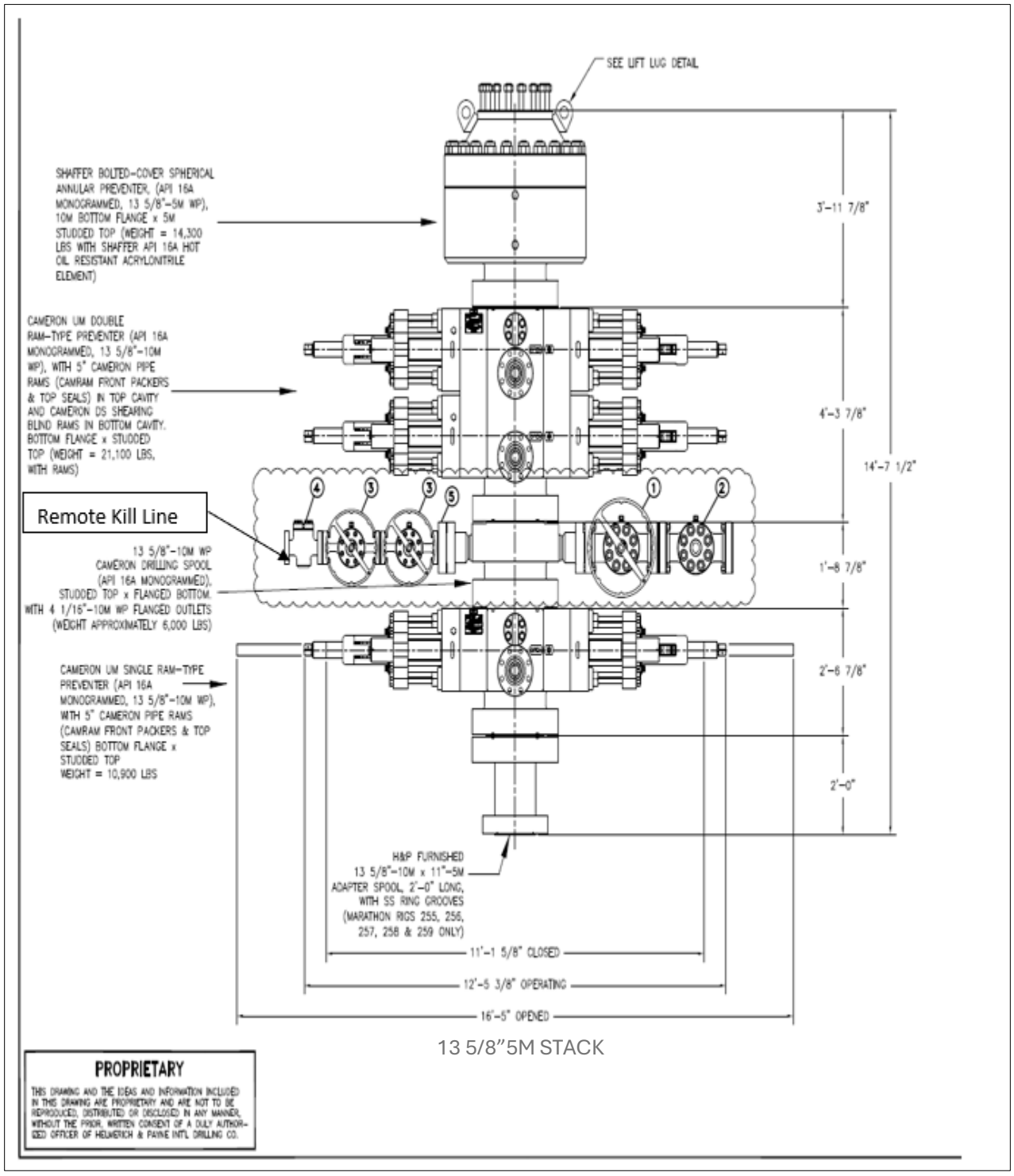
- For surface casing, no change to cement procedures to offline cement surface casing is anticipated.
- For intermediate casing, during the drilling of the intermediate hole section (all intermediate strings will be TD'd above the WCA top), hole conditions will be monitored and addressed to ensure for 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

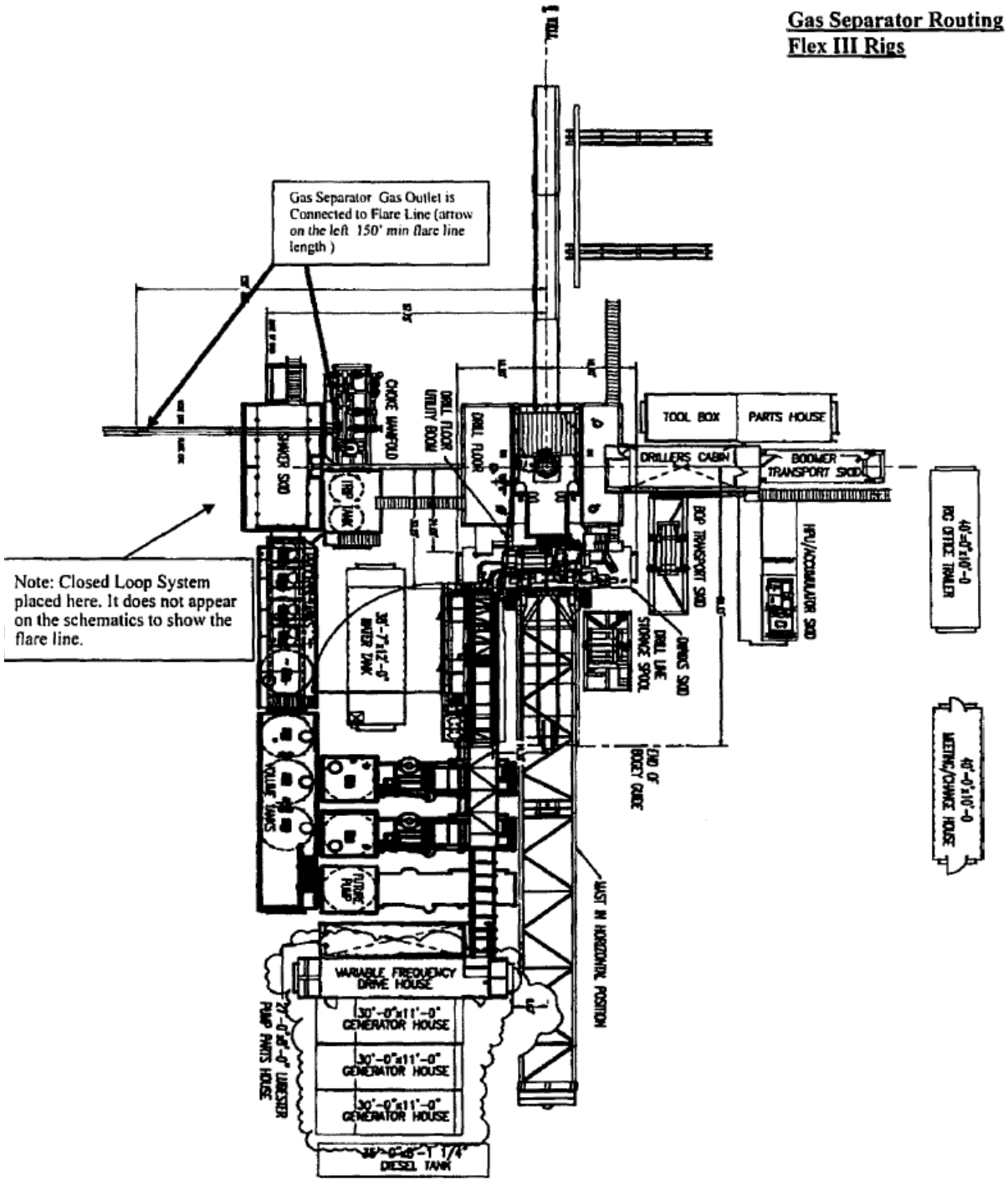


10M BOP Stack

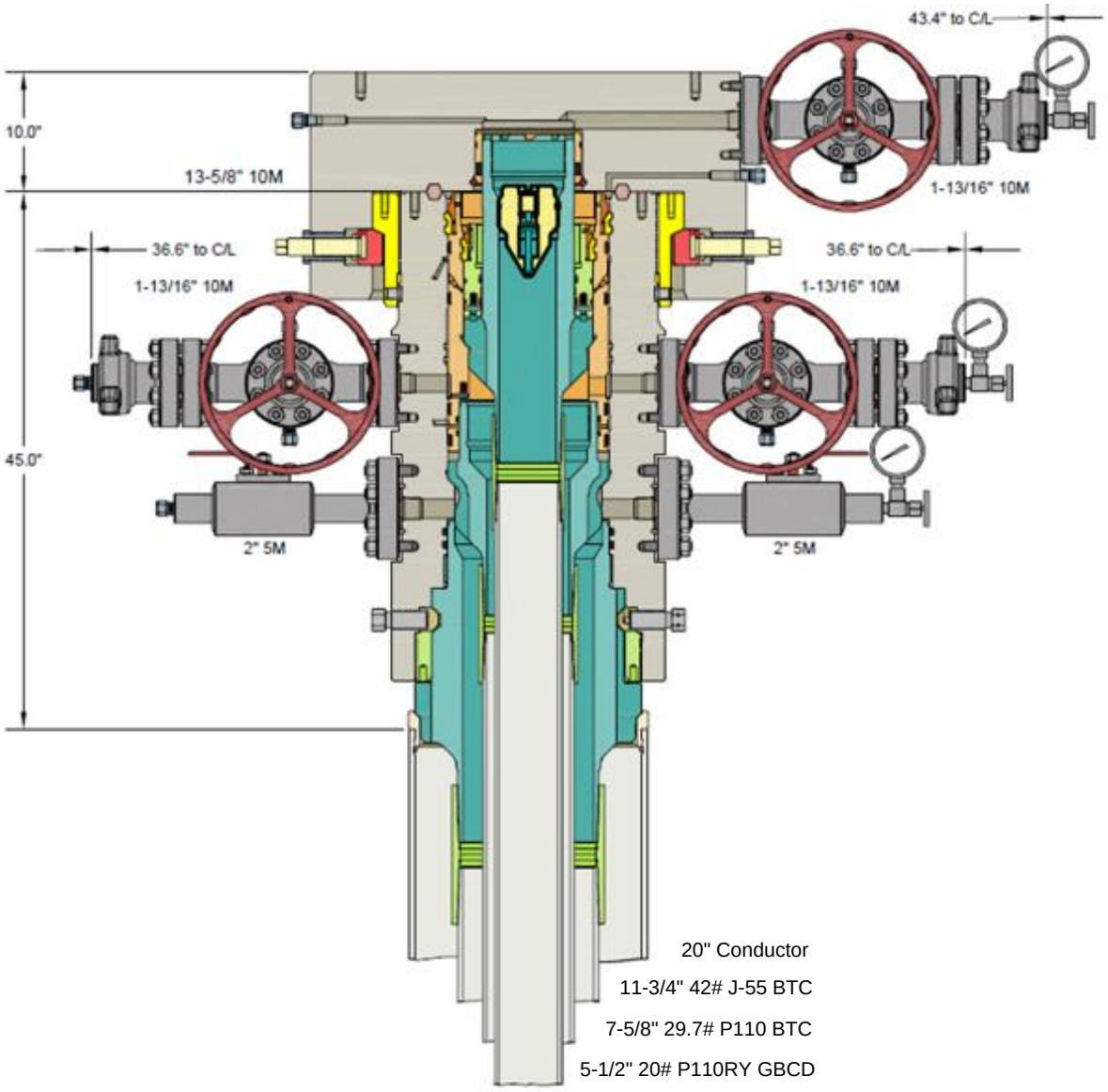


13 5/8"5M STACK

Gas Separator Routing
Flex III Rigs



Multi-bowl Wellhead Design

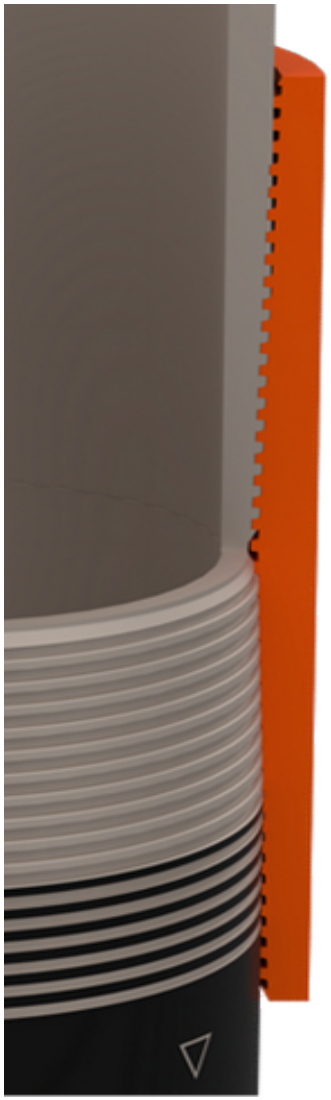


GBCONNECTIONS
ENGINEERING THE RIGHT CONNECTIONS

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		

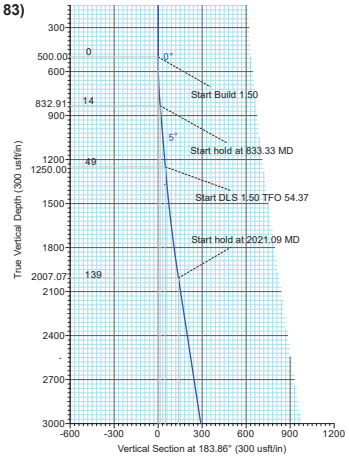
GB CD Butt 6.300 CONNECTION PERFORMANCE RATINGS/EFFICIENCIES					
Material Specification	API P-110	Min. Yield Str. (psi)	110,000	Min. Ultimate Str. (psi)	125,000
Tension		**Efficiency**		**Bending**	
Thread Str. (kips)	667	Internal Pressure (%)	100%	Build Rate to Yield (°/100 ft)	80.0
Min. Tension Yield (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		

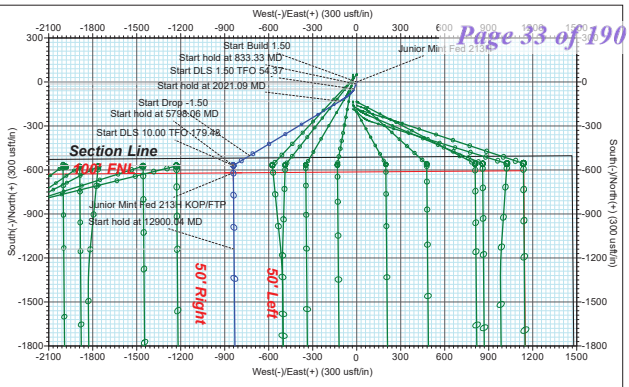
MAKEUP TORQUE					
Min. MU Tq. (ft-lbs)	10,000	Max. MU Tq. (ft-lbs)	20,000	Running Tq. (ft-lbs)	See GBC RP
				Max. Operating Tq. (ft-lbs)*	29,620

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.

Do Not Cross SL

Project: Lea County, NM (NAD 83)
Site: Junior Mint Fed Pad
Well: Junior Mint Fed 213H
Wellbore: OH
Design: Plan #2
Rig: KB 26'





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

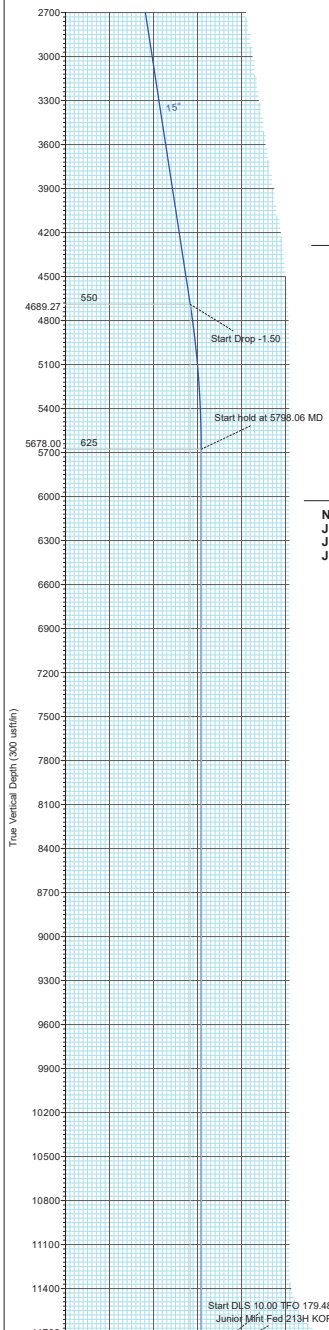
Magnetic Field
Strength: 47061.9nT
Dip Angle: 59.57°
Date: 8/18/2025
Model: HDGM2025

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 3221' + KB 26' @ 3247.00usft (KB 26')



SHL

RKB Elevation: GE 3221' + KB 26' @ 3247.00usft (KB 26')

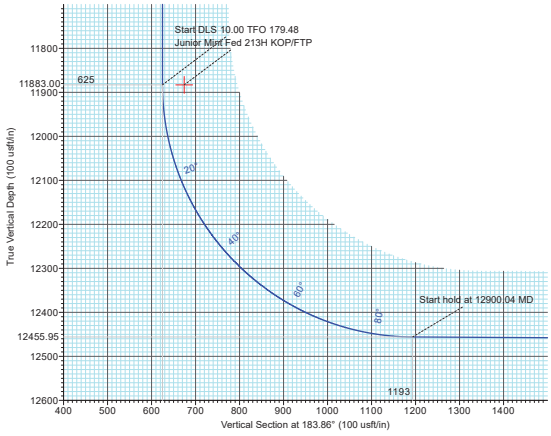
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.00	0.00	415701.00	845214.00	32.1390333	-103.3515855	

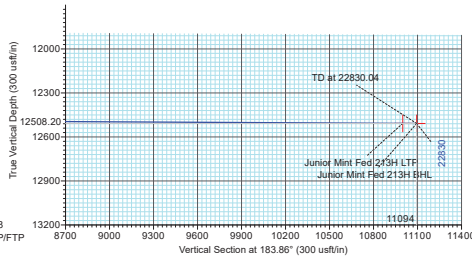
SECTION DETAILS

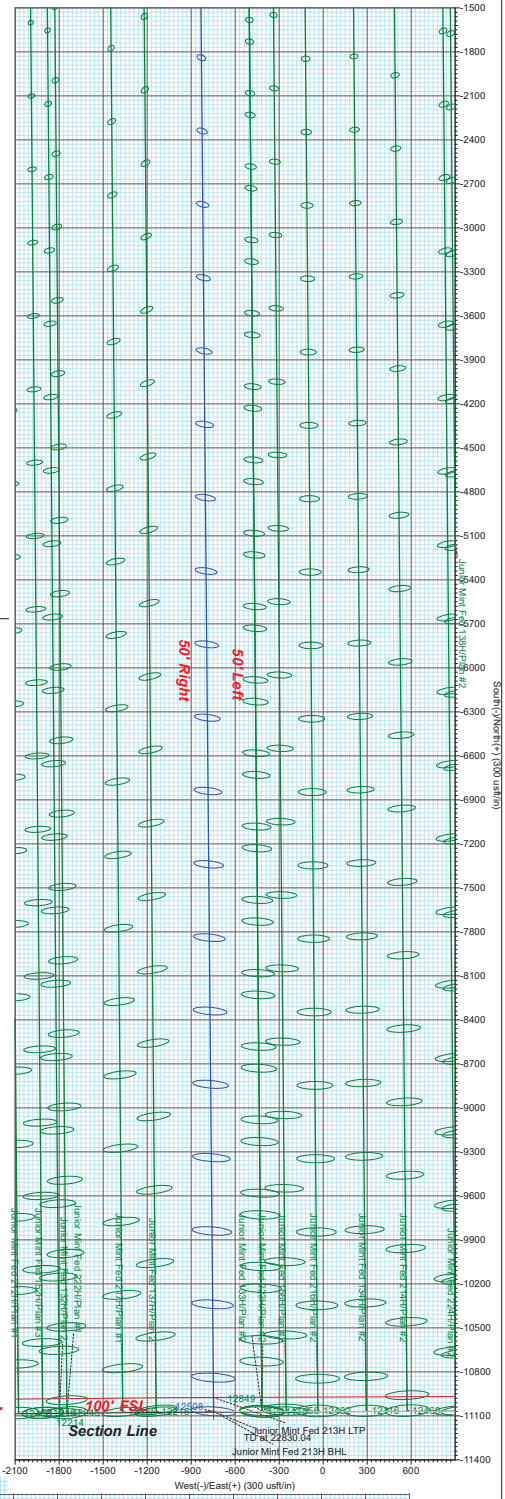
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	
833.33	5.00	200.00	832.91	-13.66	-4.97	1.50	200.00	13.96	
1252.02	5.00	200.00	1250.00	-47.95	-17.45	0.00	0.00	49.01	
2021.09	15.00	238.90	2007.07	-131.13	-114.48	1.50	54.37	138.54	
4797.94	15.00	238.90	4689.27	-502.38	-729.96	0.00	0.00	550.38	
5798.06	0.00	0.00	5678.00	-569.62	-841.44	1.50	180.00	624.97	
12003.06	0.00	0.00	11883.00	-569.62	-841.44	0.00	0.00	624.97	
12900.04	89.70	179.48	12455.95	-1139.54	-836.31	10.00	179.48	1193.25	
22830.04	89.70	179.48	12508.20	-11069.00	-747.00	0.00	0.00	11094.18	

WELLBORE TARGET DETAILS

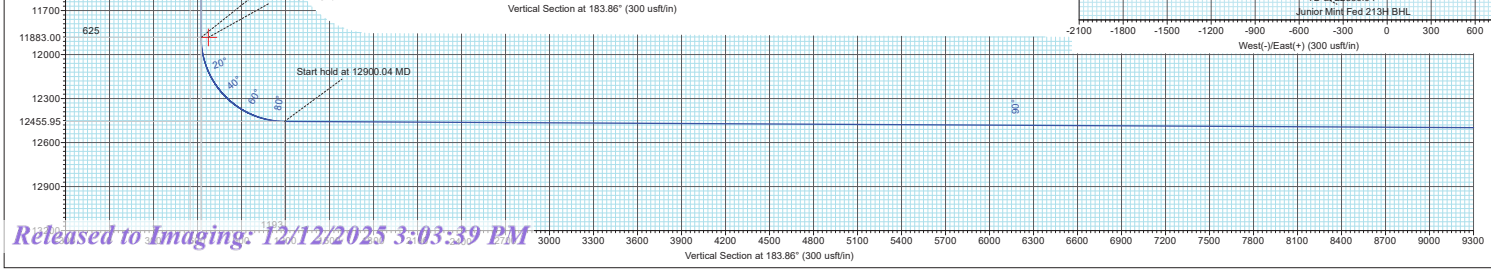
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Junior Mint Fed 213H KOP/FTP	11883.00	-619.00	-841.00	415082.00	844373.00	32.1373530	-103.3543204
Junior Mint Fed 213H LTP	12507.70	-10974.00	-748.00	404727.00	844466.00	32.1088895	-103.3543239
Junior Mint Fed 213H BHL	12508.20	-11069.00	-747.00	404632.00	844467.00	32.1086283	-103.3543235







Do Not Cross SL



Civitas Resources

Lea County, NM (NAD 83)
Junior Mint Fed Pad
Junior Mint Fed 213H

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Well:	Junior Mint Fed 213H	**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 213H

Well Position	**+N/-S**	0.00 usft	**Northing:**	415,701.00 usft	**Latitude:**	32.1390333
	+E/-W	0.00 usft	**Easting:**	845,214.00 usft	**Longitude:**	-103.3515855
Position Uncertainty		0.50 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,221.00 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	183.86

Survey Tool Program **Date** 8/12/2025

From (usft)	**To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
0.00	22,829.97	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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Well:	Junior Mint Fed 213H	**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	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
833.33	5.00	200.00	832.91	-13.66	-4.97	1.50	1.50	0.00	200.00	
1,252.02	5.00	200.00	1,250.00	-47.95	-17.45	0.00	0.00	0.00	0.00	
2,021.09	15.00	238.90	2,007.07	-131.13	-114.48	1.50	1.30	5.06	54.37	
4,797.94	15.00	238.90	4,689.27	-502.38	-729.96	0.00	0.00	0.00	0.00	
5,798.06	0.00	0.00	5,678.00	-569.62	-841.44	1.50	-1.50	0.00	180.00	
12,003.06	0.00	0.00	11,883.00	-569.62	-841.44	0.00	0.00	0.00	0.00	
12,900.04	89.70	179.48	12,455.95	-1,139.54	-836.31	10.00	10.00	20.01	179.48	
22,830.04	89.70	179.48	12,508.20	-11,069.00	-747.00	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	415,701.00	845,214.00	32.1390333	-103.3515855	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	415,701.00	845,214.00	32.1390333	-103.3515855	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	415,701.00	845,214.00	32.1390333	-103.3515855	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	415,701.00	845,214.00	32.1390333	-103.3515855	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	415,701.00	845,214.00	32.1390333	-103.3515855	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	415,701.00	845,214.00	32.1390333	-103.3515855	0.00	0.00	0.00	0.00
600.00	1.50	200.00	599.99	-1.23	-0.45	415,699.77	845,213.55	32.1390300	-103.3515869	1.26	1.50	1.50	0.00
700.00	3.00	200.00	699.91	-4.92	-1.79	415,696.08	845,212.21	32.1390198	-103.3515914	5.03	1.50	1.50	0.00
800.00	4.50	200.00	799.69	-11.06	-4.03	415,689.94	845,209.97	32.1390030	-103.3515988	11.31	1.50	1.50	0.00
833.33	5.00	200.00	832.91	-13.66	-4.97	415,687.34	845,209.03	32.1389959	-103.3516019	13.96	1.50	1.50	0.00
900.00	5.00	200.00	899.32	-19.12	-6.96	415,681.88	845,207.04	32.1389809	-103.3516085	19.54	0.00	0.00	0.00
1,000.00	5.00	200.00	998.94	-27.31	-9.94	415,673.69	845,204.06	32.1389585	-103.3516184	27.92	0.00	0.00	0.00
1,100.00	5.00	200.00	1,098.56	-35.50	-12.92	415,665.50	845,201.08	32.1389361	-103.3516282	36.29	0.00	0.00	0.00
1,200.00	5.00	200.00	1,198.18	-43.69	-15.90	415,657.31	845,198.10	32.1389136	-103.3516381	44.66	0.00	0.00	0.00
1,252.02	5.00	200.00	1,250.00	-47.95	-17.45	415,653.05	845,196.55	32.1389020	-103.3516432	49.01	0.00	0.00	0.00
1,300.00	5.45	206.17	1,297.78	-51.96	-19.17	415,649.04	845,194.83	32.1388910	-103.3516489	53.13	1.50	0.94	12.86
1,400.00	6.55	216.03	1,397.24	-60.83	-24.62	415,640.17	845,189.38	32.1388667	-103.3516668	62.35	1.50	1.10	9.86
1,500.00	7.78	222.94	1,496.46	-70.39	-32.58	415,630.61	845,181.42	32.1388407	-103.3516928	72.43	1.50	1.23	6.90
1,600.00	9.09	227.91	1,595.38	-80.64	-43.05	415,620.36	845,170.95	32.1388128	-103.3517269	83.36	1.50	1.31	4.98
1,700.00	10.45	231.62	1,693.92	-91.57	-56.03	415,609.43	845,157.97	32.1387830	-103.3517691	95.13	1.50	1.36	3.71
1,800.00	11.85	234.48	1,792.04	-103.16	-71.49	415,597.84	845,142.51	32.1387516	-103.3518194	107.74	1.50	1.40	2.85
1,900.00	13.26	236.74	1,889.64	-115.42	-89.44	415,585.58	845,124.56	32.1387183	-103.3518778	121.18	1.50	1.42	2.26
2,000.00	14.70	238.56	1,986.68	-128.33	-109.86	415,572.67	845,104.14	32.1386834	-103.3519441	135.43	1.50	1.43	1.83
2,021.09	15.00	238.90	2,007.07	-131.13	-114.48	415,569.87	845,099.52	32.1386758	-103.3519591	138.54	1.50	1.44	1.62

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Well:	Junior Mint Fed 213H	**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	15.00	238.90	2,083.28	-141.68	-131.97	415,559.32	845,082.03	32.1386472	-103.3520159	150.25	0.00	0.00	0.00
2,200.00	15.00	238.90	2,179.88	-155.05	-154.13	415,545.95	845,059.87	32.1386110	-103.3520879	165.08	0.00	0.00	0.00
2,300.00	15.00	238.90	2,276.47	-168.42	-176.30	415,532.58	845,037.70	32.1385748	-103.3521599	179.91	0.00	0.00	0.00
2,400.00	15.00	238.90	2,373.06	-181.79	-198.46	415,519.21	845,015.54	32.1385386	-103.3522319	194.74	0.00	0.00	0.00
2,500.00	15.00	238.90	2,469.65	-195.16	-220.63	415,505.84	844,993.37	32.1385024	-103.3523039	209.57	0.00	0.00	0.00
2,600.00	15.00	238.90	2,566.24	-208.53	-242.79	415,492.47	844,971.21	32.1384662	-103.3523759	224.40	0.00	0.00	0.00
2,700.00	15.00	238.90	2,662.84	-221.90	-264.96	415,479.10	844,949.04	32.1384301	-103.3524479	239.23	0.00	0.00	0.00
2,800.00	15.00	238.90	2,759.43	-235.27	-287.12	415,465.73	844,926.88	32.1383939	-103.3525199	254.06	0.00	0.00	0.00
2,900.00	15.00	238.90	2,856.02	-248.64	-309.29	415,452.36	844,904.71	32.1383577	-103.3525919	268.89	0.00	0.00	0.00
3,000.00	15.00	238.90	2,952.61	-262.01	-331.45	415,438.99	844,882.55	32.1383215	-103.3526639	283.73	0.00	0.00	0.00
3,100.00	15.00	238.90	3,049.20	-275.38	-353.62	415,425.62	844,860.38	32.1382853	-103.3527359	298.56	0.00	0.00	0.00
3,200.00	15.00	238.90	3,145.79	-288.75	-375.78	415,412.25	844,838.22	32.1382491	-103.3528079	313.39	0.00	0.00	0.00
3,300.00	15.00	238.90	3,242.39	-302.12	-397.95	415,398.88	844,816.05	32.1382129	-103.3528798	328.22	0.00	0.00	0.00
3,400.00	15.00	238.90	3,338.98	-315.49	-420.11	415,385.51	844,793.89	32.1381767	-103.3529518	343.05	0.00	0.00	0.00
3,500.00	15.00	238.90	3,435.57	-328.85	-442.28	415,372.15	844,771.72	32.1381405	-103.3530238	357.88	0.00	0.00	0.00
3,600.00	15.00	238.90	3,532.16	-342.22	-464.44	415,358.78	844,749.56	32.1381043	-103.3530958	372.71	0.00	0.00	0.00
3,700.00	15.00	238.90	3,628.75	-355.59	-486.61	415,345.41	844,727.39	32.1380681	-103.3531678	387.54	0.00	0.00	0.00
3,800.00	15.00	238.90	3,725.34	-368.96	-508.77	415,332.04	844,705.23	32.1380319	-103.3532398	402.38	0.00	0.00	0.00
3,900.00	15.00	238.90	3,821.94	-382.33	-530.94	415,318.67	844,683.06	32.1379958	-103.3533118	417.21	0.00	0.00	0.00
4,000.00	15.00	238.90	3,918.53	-395.70	-553.10	415,305.30	844,660.90	32.1379596	-103.3533838	432.04	0.00	0.00	0.00
4,100.00	15.00	238.90	4,015.12	-409.07	-575.27	415,291.93	844,638.73	32.1379234	-103.3534558	446.87	0.00	0.00	0.00
4,200.00	15.00	238.90	4,111.71	-422.44	-597.43	415,278.56	844,616.57	32.1378872	-103.3535278	461.70	0.00	0.00	0.00
4,300.00	15.00	238.90	4,208.30	-435.81	-619.60	415,265.19	844,594.40	32.1378510	-103.3535998	476.53	0.00	0.00	0.00
4,400.00	15.00	238.90	4,304.90	-449.18	-641.76	415,251.82	844,572.24	32.1378148	-103.3536718	491.36	0.00	0.00	0.00
4,500.00	15.00	238.90	4,401.49	-462.55	-663.93	415,238.45	844,550.07	32.1377786	-103.3537438	506.19	0.00	0.00	0.00
4,600.00	15.00	238.90	4,498.08	-475.92	-686.09	415,225.08	844,527.91	32.1377424	-103.3538158	521.02	0.00	0.00	0.00
4,700.00	15.00	238.90	4,594.67	-489.29	-708.26	415,211.71	844,505.74	32.1377062	-103.3538877	535.86	0.00	0.00	0.00
4,797.94	15.00	238.90	4,689.27	-502.38	-729.96	415,198.62	844,484.04	32.1376708	-103.3539583	550.38	0.00	0.00	0.00
4,800.00	14.97	238.90	4,691.26	-502.66	-730.42	415,198.34	844,483.58	32.1376700	-103.3539597	550.69	1.50	-1.50	0.00
4,900.00	13.47	238.90	4,788.20	-515.34	-751.46	415,185.66	844,462.54	32.1376357	-103.3540281	564.76	1.50	-1.50	0.00
5,000.00	11.97	238.90	4,885.74	-526.72	-770.31	415,174.28	844,443.69	32.1376049	-103.3540893	577.38	1.50	-1.50	0.00
5,100.00	10.47	238.90	4,983.82	-536.77	-786.97	415,164.23	844,427.03	32.1375777	-103.3541434	588.53	1.50	-1.50	0.00
5,200.00	8.97	238.90	5,082.39	-545.49	-801.43	415,155.51	844,412.57	32.1375541	-103.3541904	598.20	1.50	-1.50	0.00
5,300.00	7.47	238.90	5,181.35	-552.87	-813.67	415,148.13	844,400.33	32.1375341	-103.3542301	606.39	1.50	-1.50	0.00
5,400.00	5.97	238.90	5,280.66	-558.92	-823.70	415,142.08	844,390.30	32.1375177	-103.3542627	613.10	1.50	-1.50	0.00
5,500.00	4.47	238.90	5,380.25	-563.62	-831.49	415,137.38	844,382.51	32.1375050	-103.3542880	618.31	1.50	-1.50	0.00
5,600.00	2.97	238.90	5,480.03	-566.97	-837.04	415,134.03	844,376.96	32.1374959	-103.3543060	622.03	1.50	-1.50	0.00

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Well:	Junior Mint Fed 213H	**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	1.47	238.90	5,579.96	-568.97	-840.36	415,132.03	844,373.64	32.1374905	-103.3543168	624.25	1.50	-1.50	0.00
5,798.06	0.00	0.00	5,678.00	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	1.50	-1.50	0.00
5,800.00	0.00	0.00	5,679.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
5,900.00	0.00	0.00	5,779.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
6,000.00	0.00	0.00	5,879.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
6,100.00	0.00	0.00	5,979.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
6,200.00	0.00	0.00	6,079.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
6,300.00	0.00	0.00	6,179.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
6,400.00	0.00	0.00	6,279.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
6,500.00	0.00	0.00	6,379.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
6,600.00	0.00	0.00	6,479.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
6,700.00	0.00	0.00	6,579.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
6,800.00	0.00	0.00	6,679.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
6,900.00	0.00	0.00	6,779.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
7,000.00	0.00	0.00	6,879.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
7,100.00	0.00	0.00	6,979.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
7,200.00	0.00	0.00	7,079.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
7,300.00	0.00	0.00	7,179.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
7,400.00	0.00	0.00	7,279.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
7,500.00	0.00	0.00	7,379.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
7,600.00	0.00	0.00	7,479.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
7,700.00	0.00	0.00	7,579.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
7,800.00	0.00	0.00	7,679.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
7,900.00	0.00	0.00	7,779.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
8,000.00	0.00	0.00	7,879.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
8,100.00	0.00	0.00	7,979.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
8,200.00	0.00	0.00	8,079.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
8,300.00	0.00	0.00	8,179.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
8,400.00	0.00	0.00	8,279.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
8,500.00	0.00	0.00	8,379.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
8,600.00	0.00	0.00	8,479.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
8,700.00	0.00	0.00	8,579.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
8,800.00	0.00	0.00	8,679.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
8,900.00	0.00	0.00	8,779.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
9,000.00	0.00	0.00	8,879.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
9,100.00	0.00	0.00	8,979.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
9,200.00	0.00	0.00	9,079.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
9,300.00	0.00	0.00	9,179.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Well:	Junior Mint Fed 213H	**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	9,279.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
9,500.00	0.00	0.00	9,379.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
9,600.00	0.00	0.00	9,479.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
9,700.00	0.00	0.00	9,579.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
9,800.00	0.00	0.00	9,679.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
9,900.00	0.00	0.00	9,779.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
10,000.00	0.00	0.00	9,879.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
10,100.00	0.00	0.00	9,979.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
10,200.00	0.00	0.00	10,079.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
10,300.00	0.00	0.00	10,179.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
10,400.00	0.00	0.00	10,279.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
10,500.00	0.00	0.00	10,379.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
10,600.00	0.00	0.00	10,479.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
10,700.00	0.00	0.00	10,579.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
10,800.00	0.00	0.00	10,679.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
10,900.00	0.00	0.00	10,779.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
11,000.00	0.00	0.00	10,879.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
11,100.00	0.00	0.00	10,979.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
11,200.00	0.00	0.00	11,079.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
11,300.00	0.00	0.00	11,179.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
11,400.00	0.00	0.00	11,279.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
11,500.00	0.00	0.00	11,379.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
11,600.00	0.00	0.00	11,479.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
11,700.00	0.00	0.00	11,579.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
11,800.00	0.00	0.00	11,679.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
11,900.00	0.00	0.00	11,779.94	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
12,003.06	0.00	0.00	11,883.00	-569.62	-841.44	415,131.38	844,372.56	32.1374888	-103.3543203	624.97	0.00	0.00	0.00
12,005.08	0.20	179.48	11,885.02	-569.62	-841.44	415,131.38	844,372.56	32.1374887	-103.3543203	624.98	10.00	10.00	0.00
Junior Mint Fed 213H KOP/FTP													
12,050.00	4.69	179.48	11,929.89	-571.54	-841.42	415,129.46	844,372.58	32.1374835	-103.3543203	626.89	10.00	10.00	0.00
12,100.00	9.69	179.48	11,979.48	-577.80	-841.37	415,123.20	844,372.63	32.1374663	-103.3543203	633.13	10.00	10.00	0.00
12,150.00	14.69	179.48	12,028.34	-588.36	-841.27	415,112.64	844,372.73	32.1374372	-103.3543203	643.66	10.00	10.00	0.00
12,200.00	19.69	179.48	12,076.09	-603.13	-841.14	415,097.87	844,372.86	32.1373966	-103.3543203	658.39	10.00	10.00	0.00
12,250.00	24.69	179.48	12,122.37	-622.02	-840.97	415,078.98	844,373.03	32.1373447	-103.3543203	677.22	10.00	10.00	0.00
12,300.00	29.69	179.48	12,166.83	-644.86	-840.76	415,056.14	844,373.24	32.1372819	-103.3543204	699.99	10.00	10.00	0.00
12,350.00	34.69	179.48	12,209.13	-671.49	-840.52	415,029.51	844,373.48	32.1372087	-103.3543204	726.55	10.00	10.00	0.00
12,400.00	39.69	179.48	12,248.94	-701.70	-840.25	414,999.30	844,373.75	32.1371257	-103.3543204	756.68	10.00	10.00	0.00

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Well:	Junior Mint Fed 213H	**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)
12,450.00	44.69	179.48	12,285.98	-735.27	-839.95	414,965.73	844,374.05	32.1370334	-103.3543204	790.15	10.00	10.00	0.00
12,500.00	49.69	179.48	12,319.94	-771.94	-839.62	414,929.06	844,374.38	32.1369326	-103.3543204	826.72	10.00	10.00	0.00
12,550.00	54.69	179.48	12,350.58	-811.43	-839.26	414,889.57	844,374.74	32.1368241	-103.3543204	866.09	10.00	10.00	0.00
12,600.00	59.69	179.48	12,377.66	-853.45	-838.89	414,847.55	844,375.11	32.1367086	-103.3543204	907.98	10.00	10.00	0.00
12,650.00	64.69	179.48	12,400.98	-897.66	-838.49	414,803.34	844,375.51	32.1365871	-103.3543204	952.07	10.00	10.00	0.00
12,700.00	69.69	179.48	12,420.35	-943.73	-838.07	414,757.27	844,375.93	32.1364604	-103.3543204	998.01	10.00	10.00	0.00
12,750.00	74.69	179.48	12,435.64	-991.32	-837.65	414,709.68	844,376.35	32.1363296	-103.3543205	1,045.46	10.00	10.00	0.00
12,800.00	79.69	179.48	12,446.71	-1,040.06	-837.21	414,660.94	844,376.79	32.1361956	-103.3543205	1,094.06	10.00	10.00	0.00
12,850.00	84.69	179.48	12,453.50	-1,089.58	-836.76	414,611.42	844,377.24	32.1360595	-103.3543205	1,143.44	10.00	10.00	0.00
12,900.04	89.70	179.48	12,455.95	-1,139.54	-836.31	414,561.46	844,377.69	32.1359222	-103.3543205	1,193.25	10.00	10.00	0.00
13,000.00	89.70	179.48	12,456.48	-1,239.49	-835.41	414,461.51	844,378.59	32.1356474	-103.3543205	1,292.92	0.00	0.00	0.00
13,100.00	89.70	179.48	12,457.00	-1,339.49	-834.52	414,361.51	844,379.48	32.1353726	-103.3543206	1,392.63	0.00	0.00	0.00
13,200.00	89.70	179.48	12,457.53	-1,439.48	-833.62	414,261.52	844,380.38	32.1350977	-103.3543206	1,492.34	0.00	0.00	0.00
13,300.00	89.70	179.48	12,458.05	-1,539.48	-832.72	414,161.52	844,381.28	32.1348228	-103.3543206	1,592.04	0.00	0.00	0.00
13,400.00	89.70	179.48	12,458.58	-1,639.47	-831.82	414,061.53	844,382.18	32.1345480	-103.3543207	1,691.75	0.00	0.00	0.00
13,500.00	89.70	179.48	12,459.11	-1,739.47	-830.92	413,961.53	844,383.08	32.1342731	-103.3543207	1,791.46	0.00	0.00	0.00
13,600.00	89.70	179.48	12,459.63	-1,839.46	-830.02	413,861.54	844,383.98	32.1339983	-103.3543207	1,891.16	0.00	0.00	0.00
13,700.00	89.70	179.48	12,460.16	-1,939.46	-829.12	413,761.54	844,384.88	32.1337234	-103.3543207	1,990.87	0.00	0.00	0.00
13,800.00	89.70	179.48	12,460.69	-2,039.45	-828.22	413,661.55	844,385.78	32.1334485	-103.3543208	2,090.58	0.00	0.00	0.00
13,900.00	89.70	179.48	12,461.21	-2,139.45	-827.32	413,561.55	844,386.68	32.1331737	-103.3543208	2,190.29	0.00	0.00	0.00
14,000.00	89.70	179.48	12,461.74	-2,239.44	-826.42	413,461.56	844,387.58	32.1328988	-103.3543208	2,289.99	0.00	0.00	0.00
14,100.00	89.70	179.48	12,462.26	-2,339.43	-825.52	413,361.57	844,388.48	32.1326239	-103.3543209	2,389.70	0.00	0.00	0.00
14,200.00	89.70	179.48	12,462.79	-2,439.43	-824.62	413,261.57	844,389.38	32.1323491	-103.3543209	2,489.41	0.00	0.00	0.00
14,300.00	89.70	179.48	12,463.32	-2,539.42	-823.72	413,161.58	844,390.28	32.1320742	-103.3543209	2,589.11	0.00	0.00	0.00
14,400.00	89.70	179.48	12,463.84	-2,639.42	-822.82	413,061.58	844,391.18	32.1317994	-103.3543210	2,688.82	0.00	0.00	0.00
14,500.00	89.70	179.48	12,464.37	-2,739.41	-821.92	412,961.59	844,392.08	32.1315245	-103.3543210	2,788.53	0.00	0.00	0.00
14,600.00	89.70	179.48	12,464.90	-2,839.41	-821.02	412,861.59	844,392.98	32.1312496	-103.3543210	2,888.24	0.00	0.00	0.00
14,700.00	89.70	179.48	12,465.42	-2,939.40	-820.12	412,761.60	844,393.88	32.1309748	-103.3543211	2,987.94	0.00	0.00	0.00
14,800.00	89.70	179.48	12,465.95	-3,039.40	-819.22	412,661.60	844,394.78	32.1306999	-103.3543211	3,087.65	0.00	0.00	0.00
14,900.00	89.70	179.48	12,466.47	-3,139.39	-818.33	412,561.61	844,395.67	32.1304250	-103.3543211	3,187.36	0.00	0.00	0.00
15,000.00	89.70	179.48	12,467.00	-3,239.39	-817.43	412,461.61	844,396.57	32.1301502	-103.3543211	3,287.07	0.00	0.00	0.00
15,100.00	89.70	179.48	12,467.53	-3,339.38	-816.53	412,361.62	844,397.47	32.1298753	-103.3543212	3,386.77	0.00	0.00	0.00
15,200.00	89.70	179.48	12,468.05	-3,439.37	-815.63	412,261.63	844,398.37	32.1296005	-103.3543212	3,486.48	0.00	0.00	0.00
15,300.00	89.70	179.48	12,468.58	-3,539.37	-814.73	412,161.63	844,399.27	32.1293256	-103.3543212	3,586.19	0.00	0.00	0.00
15,400.00	89.70	179.48	12,469.10	-3,639.36	-813.83	412,061.64	844,400.17	32.1290507	-103.3543213	3,685.89	0.00	0.00	0.00
15,500.00	89.70	179.48	12,469.63	-3,739.36	-812.93	411,961.64	844,401.07	32.1287759	-103.3543213	3,785.60	0.00	0.00	0.00
15,600.00	89.70	179.48	12,470.16	-3,839.35	-812.03	411,861.65	844,401.97	32.1285010	-103.3543213	3,885.31	0.00	0.00	0.00
15,700.00	89.70	179.48	12,470.68	-3,939.35	-811.13	411,761.65	844,402.87	32.1282261	-103.3543214	3,985.02	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Well:	Junior Mint Fed 213H	**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)
15,800.00	89.70	179.48	12,471.21	-4,039.34	-810.23	411,661.66	844,403.77	32.1279513	-103.3543214	4,084.72	0.00	0.00	0.00
15,900.00	89.70	179.48	12,471.74	-4,139.34	-809.33	411,561.66	844,404.67	32.1276764	-103.3543214	4,184.43	0.00	0.00	0.00
16,000.00	89.70	179.48	12,472.26	-4,239.33	-808.43	411,461.67	844,405.57	32.1274016	-103.3543214	4,284.14	0.00	0.00	0.00
16,100.00	89.70	179.48	12,472.79	-4,339.33	-807.53	411,361.67	844,406.47	32.1271267	-103.3543215	4,383.84	0.00	0.00	0.00
16,200.00	89.70	179.48	12,473.31	-4,439.32	-806.63	411,261.68	844,407.37	32.1268518	-103.3543215	4,483.55	0.00	0.00	0.00
16,300.00	89.70	179.48	12,473.84	-4,539.31	-805.73	411,161.69	844,408.27	32.1265770	-103.3543215	4,583.26	0.00	0.00	0.00
16,400.00	89.70	179.48	12,474.37	-4,639.31	-804.83	411,061.69	844,409.17	32.1263021	-103.3543216	4,682.97	0.00	0.00	0.00
16,500.00	89.70	179.48	12,474.89	-4,739.30	-803.93	410,961.70	844,410.07	32.1260273	-103.3543216	4,782.67	0.00	0.00	0.00
16,600.00	89.70	179.48	12,475.42	-4,839.30	-803.04	410,861.70	844,410.96	32.1257524	-103.3543216	4,882.38	0.00	0.00	0.00
16,700.00	89.70	179.48	12,475.94	-4,939.29	-802.14	410,761.71	844,411.86	32.1254775	-103.3543217	4,982.09	0.00	0.00	0.00
16,800.00	89.70	179.48	12,476.47	-5,039.29	-801.24	410,661.71	844,412.76	32.1252027	-103.3543217	5,081.79	0.00	0.00	0.00
16,900.00	89.70	179.48	12,477.00	-5,139.28	-800.34	410,561.72	844,413.66	32.1249278	-103.3543217	5,181.50	0.00	0.00	0.00
17,000.00	89.70	179.48	12,477.52	-5,239.28	-799.44	410,461.72	844,414.56	32.1246529	-103.3543217	5,281.21	0.00	0.00	0.00
17,100.00	89.70	179.48	12,478.05	-5,339.27	-798.54	410,361.73	844,415.46	32.1243781	-103.3543218	5,380.92	0.00	0.00	0.00
17,200.00	89.70	179.48	12,478.58	-5,439.27	-797.64	410,261.73	844,416.36	32.1241032	-103.3543218	5,480.62	0.00	0.00	0.00
17,300.00	89.70	179.48	12,479.10	-5,539.26	-796.74	410,161.74	844,417.26	32.1238284	-103.3543218	5,580.33	0.00	0.00	0.00
17,400.00	89.70	179.48	12,479.63	-5,639.26	-795.84	410,061.74	844,418.16	32.1235535	-103.3543219	5,680.04	0.00	0.00	0.00
17,500.00	89.70	179.48	12,480.15	-5,739.25	-794.94	409,961.75	844,419.06	32.1232786	-103.3543219	5,779.74	0.00	0.00	0.00
17,600.00	89.70	179.48	12,480.68	-5,839.24	-794.04	409,861.76	844,419.96	32.1230038	-103.3543219	5,879.45	0.00	0.00	0.00
17,700.00	89.70	179.48	12,481.21	-5,939.24	-793.14	409,761.76	844,420.86	32.1227289	-103.3543220	5,979.16	0.00	0.00	0.00
17,800.00	89.70	179.48	12,481.73	-6,039.23	-792.24	409,661.77	844,421.76	32.1224540	-103.3543220	6,078.87	0.00	0.00	0.00
17,900.00	89.70	179.48	12,482.26	-6,139.23	-791.34	409,561.77	844,422.66	32.1221792	-103.3543220	6,178.57	0.00	0.00	0.00
18,000.00	89.70	179.48	12,482.79	-6,239.22	-790.44	409,461.78	844,423.56	32.1219043	-103.3543220	6,278.28	0.00	0.00	0.00
18,100.00	89.70	179.48	12,483.31	-6,339.22	-789.54	409,361.78	844,424.46	32.1216295	-103.3543221	6,377.99	0.00	0.00	0.00
18,200.00	89.70	179.48	12,483.84	-6,439.21	-788.64	409,261.79	844,425.36	32.1213546	-103.3543221	6,477.70	0.00	0.00	0.00
18,300.00	89.70	179.48	12,484.36	-6,539.21	-787.74	409,161.79	844,426.26	32.1210797	-103.3543221	6,577.40	0.00	0.00	0.00
18,400.00	89.70	179.48	12,484.89	-6,639.20	-786.85	409,061.80	844,427.15	32.1208049	-103.3543222	6,677.11	0.00	0.00	0.00
18,500.00	89.70	179.48	12,485.42	-6,739.20	-785.95	408,961.80	844,428.05	32.1205300	-103.3543222	6,776.82	0.00	0.00	0.00
18,600.00	89.70	179.48	12,485.94	-6,839.19	-785.05	408,861.81	844,428.95	32.1202551	-103.3543222	6,876.52	0.00	0.00	0.00
18,700.00	89.70	179.48	12,486.47	-6,939.18	-784.15	408,761.82	844,429.85	32.1199803	-103.3543222	6,976.23	0.00	0.00	0.00
18,800.00	89.70	179.48	12,486.99	-7,039.18	-783.25	408,661.82	844,430.75	32.1197054	-103.3543223	7,075.94	0.00	0.00	0.00
18,900.00	89.70	179.48	12,487.52	-7,139.17	-782.35	408,561.83	844,431.65	32.1194306	-103.3543223	7,175.65	0.00	0.00	0.00
19,000.00	89.70	179.48	12,488.05	-7,239.17	-781.45	408,461.83	844,432.55	32.1191557	-103.3543223	7,275.35	0.00	0.00	0.00
19,100.00	89.70	179.48	12,488.57	-7,339.16	-780.55	408,361.84	844,433.45	32.1188808	-103.3543224	7,375.06	0.00	0.00	0.00
19,200.00	89.70	179.48	12,489.10	-7,439.16	-779.65	408,261.84	844,434.35	32.1186060	-103.3543224	7,474.77	0.00	0.00	0.00
19,300.00	89.70	179.48	12,489.63	-7,539.15	-778.75	408,161.85	844,435.25	32.1183311	-103.3543224	7,574.47	0.00	0.00	0.00
19,400.00	89.70	179.48	12,490.15	-7,639.15	-777.85	408,061.85	844,436.15	32.1180562	-103.3543225	7,674.18	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Well:	Junior Mint Fed 213H	**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)
19,500.00	89.70	179.48	12,490.68	-7,739.14	-776.95	407,961.86	844,437.05	32.1177814	-103.3543225	7,773.89	0.00	0.00	0.00
19,600.00	89.70	179.48	12,491.20	-7,839.14	-776.05	407,861.86	844,437.95	32.1175065	-103.3543225	7,873.60	0.00	0.00	0.00
19,700.00	89.70	179.48	12,491.73	-7,939.13	-775.15	407,761.87	844,438.85	32.1172317	-103.3543225	7,973.30	0.00	0.00	0.00
19,800.00	89.70	179.48	12,492.26	-8,039.12	-774.25	407,661.88	844,439.75	32.1169568	-103.3543226	8,073.01	0.00	0.00	0.00
19,900.00	89.70	179.48	12,492.78	-8,139.12	-773.35	407,561.88	844,440.65	32.1166819	-103.3543226	8,172.72	0.00	0.00	0.00
20,000.00	89.70	179.48	12,493.31	-8,239.11	-772.45	407,461.89	844,441.55	32.1164071	-103.3543226	8,272.42	0.00	0.00	0.00
20,100.00	89.70	179.48	12,493.84	-8,339.11	-771.55	407,361.89	844,442.45	32.1161322	-103.3543227	8,372.13	0.00	0.00	0.00
20,200.00	89.70	179.48	12,494.36	-8,439.10	-770.66	407,261.90	844,443.34	32.1158573	-103.3543227	8,471.84	0.00	0.00	0.00
20,300.00	89.70	179.48	12,494.89	-8,539.10	-769.76	407,161.90	844,444.24	32.1155825	-103.3543227	8,571.55	0.00	0.00	0.00
20,400.00	89.70	179.48	12,495.41	-8,639.09	-768.86	407,061.91	844,445.14	32.1153076	-103.3543227	8,671.25	0.00	0.00	0.00
20,500.00	89.70	179.48	12,495.94	-8,739.09	-767.96	406,961.91	844,446.04	32.1150328	-103.3543228	8,770.96	0.00	0.00	0.00
20,600.00	89.70	179.48	12,496.47	-8,839.08	-767.06	406,861.92	844,446.94	32.1147579	-103.3543228	8,870.67	0.00	0.00	0.00
20,700.00	89.70	179.48	12,496.99	-8,939.08	-766.16	406,761.92	844,447.84	32.1144830	-103.3543228	8,970.37	0.00	0.00	0.00
20,800.00	89.70	179.48	12,497.52	-9,039.07	-765.26	406,661.93	844,448.74	32.1142082	-103.3543229	9,070.08	0.00	0.00	0.00
20,900.00	89.70	179.48	12,498.04	-9,139.07	-764.36	406,561.93	844,449.64	32.1139333	-103.3543229	9,169.79	0.00	0.00	0.00
21,000.00	89.70	179.48	12,498.57	-9,239.06	-763.46	406,461.94	844,450.54	32.1136584	-103.3543229	9,269.50	0.00	0.00	0.00
21,100.00	89.70	179.48	12,499.10	-9,339.05	-762.56	406,361.95	844,451.44	32.1133836	-103.3543229	9,369.20	0.00	0.00	0.00
21,200.00	89.70	179.48	12,499.62	-9,439.05	-761.66	406,261.95	844,452.34	32.1131087	-103.3543230	9,468.91	0.00	0.00	0.00
21,300.00	89.70	179.48	12,500.15	-9,539.04	-760.76	406,161.96	844,453.24	32.1128339	-103.3543230	9,568.62	0.00	0.00	0.00
21,400.00	89.70	179.48	12,500.68	-9,639.04	-759.86	406,061.96	844,454.14	32.1125590	-103.3543230	9,668.33	0.00	0.00	0.00
21,500.00	89.70	179.48	12,501.20	-9,739.03	-758.96	405,961.97	844,455.04	32.1122841	-103.3543231	9,768.03	0.00	0.00	0.00
21,600.00	89.70	179.48	12,501.73	-9,839.03	-758.06	405,861.97	844,455.94	32.1120093	-103.3543231	9,867.74	0.00	0.00	0.00
21,700.00	89.70	179.48	12,502.25	-9,939.02	-757.16	405,761.98	844,456.84	32.1117344	-103.3543231	9,967.45	0.00	0.00	0.00
21,800.00	89.70	179.48	12,502.78	-10,039.02	-756.26	405,661.98	844,457.74	32.1114595	-103.3543231	10,067.15	0.00	0.00	0.00
21,900.00	89.70	179.48	12,503.31	-10,139.01	-755.37	405,561.99	844,458.63	32.1111847	-103.3543232	10,166.86	0.00	0.00	0.00
22,000.00	89.70	179.48	12,503.83	-10,239.01	-754.47	405,461.99	844,459.53	32.1109098	-103.3543232	10,266.57	0.00	0.00	0.00
22,100.00	89.70	179.48	12,504.36	-10,339.00	-753.57	405,362.00	844,460.43	32.1106349	-103.3543232	10,366.28	0.00	0.00	0.00
22,200.00	89.70	179.48	12,504.89	-10,438.99	-752.67	405,262.01	844,461.33	32.1103601	-103.3543233	10,465.98	0.00	0.00	0.00
22,300.00	89.70	179.48	12,505.41	-10,538.99	-751.77	405,162.01	844,462.23	32.1100852	-103.3543233	10,565.69	0.00	0.00	0.00
22,400.00	89.70	179.48	12,505.94	-10,638.98	-750.87	405,062.02	844,463.13	32.1098104	-103.3543233	10,665.40	0.00	0.00	0.00
22,500.00	89.70	179.48	12,506.46	-10,738.98	-749.97	404,962.02	844,464.03	32.1095355	-103.3543233	10,765.10	0.00	0.00	0.00
22,600.00	89.70	179.48	12,506.99	-10,838.97	-749.07	404,862.03	844,464.93	32.1092606	-103.3543234	10,864.81	0.00	0.00	0.00
22,700.00	89.70	179.48	12,507.52	-10,938.97	-748.17	404,762.03	844,465.83	32.1089858	-103.3543234	10,964.52	0.00	0.00	0.00
22,735.03	89.70	179.48	12,507.70	-10,974.00	-747.85	404,727.00	844,466.15	32.1088895	-103.3543234	10,999.45	0.00	0.00	0.00
Junior Mint Fed 213H LTP													
22,800.00	89.70	179.48	12,508.04	-11,038.96	-747.27	404,662.04	844,466.73	32.1087109	-103.3543234	11,064.23	0.00	0.00	0.00
22,830.04	89.70	179.48	12,508.20	-11,069.00	-747.00	404,632.00	844,467.00	32.1086283	-103.3543234	11,094.18	0.00	0.00	0.00
Junior Mint Fed 213H BHL													

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Well:	Junior Mint Fed 213H	**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 Longituge (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)

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 213H	0.00	0.00	11,883.00	-619.00	-841.00	415,082.00	844,373.00	32.1373530	-103.3543204
- plan misses target center by 49.38usft at 12003.14usft MD (11883.09 TVD, -569.62 N, -841.44 E)									
- Point									
Junior Mint Fed 213H	0.00	0.00	12,507.70	-10,974.00	-748.00	404,727.00	844,466.00	32.1088895	-103.3543239
- plan misses target center by 0.15usft at 22735.03usft MD (12507.70 TVD, -10974.00 N, -747.85 E)									
- Point									
Junior Mint Fed 213H	0.00	0.00	12,508.20	-11,069.00	-747.00	404,632.00	844,467.00	32.1086283	-103.3543234
- plan hits target center									
- Point									

Checked By: _____ Approved By: _____ Date: _____

Civitas Resources

Lea County, NM (NAD 83)
Junior Mint Fed Pad
Junior Mint Fed 213H

OH
Plan #2

Total Directional
"Driven by TOTAL performance"
total

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 213H						
Well Position	**+N/-S**	0.00 usft	**Northing:**	415,701.00 usft	**Latitude:**	32.1390333	
	+E/-W	0.00 usft	**Easting:**	845,214.00 usft	**Longitude:**	-103.3515855	
Position Uncertainty		0.50 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,221.00 usft	
Grid Convergence:		0.52 °					

Survey Tool Program **Date** 8/12/2025

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	22,829.97	Plan #2 (OH)	MWD+HRGM+SAG+FDIR (r	OWSG MWD + HRGM + SAG + FDIR Correction

Expierimental: Summary Highlights: Junior Mint Fed 213H

At 22,830.04 MD, Junior Mint Fed 137H - OH - Plan 2 is 489.02 usft away with a 2.01 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 131H -	3,221.00	3,247.00	414,635.00	842,835.00	32.1361627	-103.3593016	0.00	0.50
Junior Mint Fed 132H -	3,220.00	3,246.00	414,820.00	842,835.00	32.1366712	-103.3592962	0.00	0.50
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 135H -	3,220.00	3,246.00	414,660.00	842,835.00	32.1362315	-103.3593009	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 138H -	3,220.00	3,246.00	415,541.00	845,189.00	32.1385942	-103.3516709	0.00	0.50
Junior Mint Fed 151H -	3,221.00	3,247.00	414,685.00	842,835.00	32.1363002	-103.3593001	0.00	0.50
Junior Mint Fed 152H -	3,220.00	3,246.00	414,870.00	842,835.00	32.1368087	-103.3592947	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 211H -	3,221.00	3,247.00	414,660.00	842,810.00	32.1362321	-103.3593816	0.00	0.50
Junior Mint Fed 212H -	3,220.00	3,246.00	414,845.00	842,810.00	32.1367406	-103.3593762	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 215H -	3,220.00	3,246.00	414,685.00	842,810.00	32.1363008	-103.3593809	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 221H -	3,221.00	3,247.00	414,635.00	842,810.00	32.1361634	-103.3593824	0.00	0.50

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 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 222H -	3,220.00	3,246.00	414,820.00	842,810.00	32.1366718	-103.3593769	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
Junior Mint Fed Pad						
Junior Mint Fed 131H - OH - Plan 1	5,018.70	4,565.65	2,154.69	2,130.74	89.95	CC
Junior Mint Fed 131H - OH - Plan 1	22,830.04	22,485.80	2,389.34	2,099.95	8.26	ES, SF
Junior Mint Fed 132H - OH - Plan 2	11,718.99	11,641.23	1,047.00	1,013.03	30.82	CC
Junior Mint Fed 132H - OH - Plan 2	22,830.04	22,425.19	1,091.57	807.98	3.85	ES, SF
Junior Mint Fed 133H - OH - Plan #2	500.00	500.00	35.36	30.09	6.71	CC
Junior Mint Fed 133H - OH - Plan #2	2,007.66	2,008.77	37.44	25.88	3.24	ES
Junior Mint Fed 133H - OH - Plan #2	22,830.04	22,387.22	493.47	275.85	2.27	SF
Junior Mint Fed 134H - OH - Plan #2	1,617.75	1,608.93	64.61	54.78	6.57	CC, ES
Junior Mint Fed 134H - OH - Plan #2	22,830.04	22,332.07	1,112.29	827.42	3.90	SF
Junior Mint Fed 135H - OH - Plan 1	11,730.19	11,639.40	1,707.03	1,672.70	49.73	CC
Junior Mint Fed 135H - OH - Plan 1	22,830.04	22,411.61	1,736.60	1,449.05	6.04	ES, SF
Junior Mint Fed 137H - OH - Plan 2	11,700.68	11,712.05	387.00	350.06	10.48	CC
Junior Mint Fed 137H - OH - Plan 2	22,830.04	22,512.84	489.02	245.48	2.01	ES, SF
Junior Mint Fed 138H - OH - Plan #2	1,384.58	1,373.02	136.88	127.93	15.29	CC
Junior Mint Fed 138H - OH - Plan #2	1,400.00	1,388.29	136.89	127.88	15.19	ES
Junior Mint Fed 138H - OH - Plan #2	22,830.04	22,381.27	1,749.67	1,455.04	5.94	SF
Junior Mint Fed 151H - OH - Plan 1	5,053.71	4,606.63	2,280.78	2,255.55	90.38	CC, ES
Junior Mint Fed 151H - OH - Plan 1	6,200.00	5,733.47	2,420.25	2,390.87	82.39	SF
Junior Mint Fed 152H - OH - Plan #3	8,932.53	8,843.44	1,134.65	1,104.37	37.47	CC
Junior Mint Fed 152H - OH - Plan #3	22,830.04	22,079.41	1,340.27	1,078.99	5.13	ES, SF
Junior Mint Fed 156H - OH - Plan #2	300.00	300.00	25.00	21.04	6.31	CC
Junior Mint Fed 156H - OH - Plan #2	400.00	399.70	25.58	20.91	5.48	ES
Junior Mint Fed 156H - OH - Plan #2	1,900.00	1,892.92	42.10	30.56	3.65	SF
Junior Mint Fed 158H - OH - Plan #2	300.00	299.00	186.68	182.72	47.16	CC
Junior Mint Fed 158H - OH - Plan #2	400.00	396.46	187.35	182.69	40.17	ES
Junior Mint Fed 158H - OH - Plan #2	22,830.04	21,940.65	2,019.76	1,743.96	7.32	SF
Junior Mint Fed 211H - OH - Plan 1	4,919.37	4,389.95	2,412.48	2,387.62	97.05	CC, ES
Junior Mint Fed 211H - OH - Plan 1	5,300.00	4,763.30	2,430.70	2,404.00	91.03	SF
Junior Mint Fed 212H - OH - Plan #1	11,953.60	11,856.36	1,326.01	1,291.88	38.85	CC
Junior Mint Fed 212H - OH - Plan #1	22,830.04	22,634.88	1,333.85	1,041.63	4.56	ES, SF
Junior Mint Fed 214H - OH - Plan #2	1,406.22	1,398.00	138.17	128.96	15.00	CC, ES
Junior Mint Fed 214H - OH - Plan #2	22,830.04	22,698.50	1,320.87	1,019.48	4.38	SF
Junior Mint Fed 215H - OH - Plan 1	11,988.93	11,906.85	1,935.03	1,900.07	55.34	CC
Junior Mint Fed 215H - OH - Plan 1	22,830.04	22,675.33	1,940.58	1,649.57	6.67	ES, SF
Junior Mint Fed 216H - OH - Plan #2	500.00	501.00	55.90	50.63	10.60	CC, ES
Junior Mint Fed 216H - OH - Plan #2	22,830.04	22,716.46	711.48	407.07	2.34	SF
Junior Mint Fed 217H - OH - Plan #1	11,913.84	11,905.22	614.99	579.24	17.20	CC
Junior Mint Fed 217H - OH - Plan #1	22,830.04	22,698.24	631.17	342.58	2.19	ES, SF
Junior Mint Fed 218H - OH - Plan #2	300.00	299.00	185.00	181.04	46.74	CC
Junior Mint Fed 218H - OH - Plan #2	900.00	886.48	186.32	179.15	25.97	ES
Junior Mint Fed 218H - OH - Plan #2	22,830.04	22,759.89	1,980.34	1,678.90	6.57	SF

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 221H - OH - Plan 1	5,086.18	4,668.01	2,134.28	2,109.48	86.05	CC
Junior Mint Fed 221H - OH - Plan 1	22,830.04	23,188.63	2,360.33	2,074.76	8.27	ES, SF
Junior Mint Fed 222H - OH - Plan #1	12,000.00	11,945.92	921.01	885.93	26.25	CC
Junior Mint Fed 222H - OH - Plan #1	22,830.04	23,180.59	1,091.34	819.28	4.01	ES, SF
Junior Mint Fed 223H - OH - Plan #2	500.00	501.00	50.00	44.73	9.48	CC, ES
Junior Mint Fed 223H - OH - Plan #2	22,830.04	23,134.87	474.52	245.31	2.07	SF
Junior Mint Fed 224H - OH - Plan #2	1,621.31	1,617.41	69.23	59.36	7.02	CC, ES
Junior Mint Fed 224H - OH - Plan #2	22,830.04	23,096.27	1,674.58	1,376.55	5.62	SF

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 131H - OH - Plan 1

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
2,200.00	2,179.88	2,018.31	2,017.11	6.34	5.62	9.61	-1,049.30	-2,407.85	2,430.10	2,418.26	11.84	205.219	
2,300.00	2,276.47	2,100.00	2,098.26	6.61	5.76	9.87	-1,044.60	-2,415.96	2,411.55	2,399.36	12.18	197.933	
2,400.00	2,373.06	2,172.46	2,170.12	6.90	5.88	10.13	-1,039.95	-2,424.00	2,393.87	2,381.36	12.51	191.289	
2,500.00	2,469.65	2,249.53	2,246.42	7.20	6.01	10.42	-1,034.50	-2,433.41	2,377.13	2,364.27	12.86	184.881	
2,600.00	2,566.24	2,326.56	2,322.52	7.50	6.15	10.73	-1,028.55	-2,443.70	2,361.32	2,348.11	13.20	178.823	
2,700.00	2,662.84	2,400.00	2,394.93	7.82	6.27	11.05	-1,022.39	-2,454.33	2,346.47	2,332.92	13.55	173.175	
2,800.00	2,759.43	2,480.38	2,473.99	8.13	6.42	11.43	-1,015.12	-2,466.89	2,332.61	2,318.69	13.91	167.646	
2,900.00	2,856.02	2,557.12	2,549.27	8.45	6.55	11.81	-1,007.66	-2,479.78	2,319.75	2,305.47	14.28	162.486	
3,000.00	2,952.61	2,633.71	2,624.20	8.78	6.70	12.21	-999.71	-2,493.51	2,307.93	2,293.29	14.64	157.596	
3,100.00	3,049.20	2,710.12	2,698.74	9.10	6.84	12.63	-991.28	-2,508.07	2,297.17	2,282.17	15.01	153.055	
3,200.00	3,145.79	2,802.87	2,789.01	9.43	6.99	13.16	-980.64	-2,526.45	2,287.23	2,271.84	15.39	148.641	
3,300.00	3,242.39	2,899.75	2,883.31	9.77	7.20	13.72	-969.51	-2,545.68	2,277.52	2,261.70	15.82	143.954	
3,400.00	3,338.98	2,996.63	2,977.61	10.10	7.42	14.29	-958.38	-2,564.90	2,268.04	2,251.78	16.26	139.478	
3,500.00	3,435.57	3,093.51	3,071.91	10.44	7.65	14.86	-947.25	-2,584.13	2,258.80	2,242.09	16.71	135.208	
3,600.00	3,532.16	3,190.39	3,166.21	10.78	7.88	15.43	-936.12	-2,603.35	2,249.79	2,232.64	17.16	131.135	
3,700.00	3,628.75	3,287.27	3,260.51	11.12	8.11	16.01	-925.00	-2,622.57	2,241.02	2,223.41	17.61	127.249	
3,800.00	3,725.34	3,384.15	3,354.81	11.46	8.36	16.59	-913.87	-2,641.80	2,232.49	2,214.42	18.07	123.542	
3,900.00	3,821.94	3,481.03	3,449.11	11.80	8.60	17.17	-902.74	-2,661.02	2,224.20	2,205.67	18.53	120.005	
4,000.00	3,918.53	3,577.91	3,543.41	12.14	8.85	17.76	-891.61	-2,680.24	2,216.16	2,197.16	19.00	116.630	
4,100.00	4,015.12	3,674.80	3,637.71	12.49	9.10	18.36	-880.48	-2,699.47	2,208.37	2,188.90	19.47	113.407	
4,200.00	4,111.71	3,771.68	3,732.02	12.83	9.36	18.96	-869.35	-2,718.69	2,200.83	2,180.88	19.95	110.329	
4,300.00	4,208.30	3,868.56	3,826.32	13.18	9.62	19.56	-858.22	-2,737.92	2,193.54	2,173.12	20.43	107.389	
4,400.00	4,304.90	3,965.44	3,920.62	13.53	9.88	20.16	-847.09	-2,757.14	2,186.51	2,165.61	20.91	104.580	
4,500.00	4,401.49	4,062.32	4,014.92	13.88	10.14	20.77	-835.97	-2,776.36	2,179.74	2,158.35	21.39	101.893	
4,600.00	4,498.08	4,159.20	4,109.22	14.23	10.41	21.38	-824.84	-2,795.59	2,173.23	2,151.35	21.88	99.324	
4,700.00	4,594.67	4,256.08	4,203.52	14.58	10.67	22.00	-813.71	-2,814.81	2,166.99	2,144.62	22.37	96.865	
4,800.00	4,691.26	4,352.96	4,297.82	14.93	10.94	22.62	-802.58	-2,834.04	2,161.01	2,138.15	22.86	94.523	
4,900.00	4,788.20	4,450.03	4,392.30	15.26	11.22	23.20	-791.43	-2,853.30	2,156.55	2,133.18	23.37	92.291	
5,000.00	4,885.74	4,547.41	4,487.08	15.57	11.49	23.78	-780.24	-2,872.62	2,154.74	2,130.88	23.86	90.298	
5,018.70	4,904.04	4,565.65	4,504.83	15.62	11.54	23.88	-778.15	-2,876.24	2,154.69	2,130.74	23.95	89.954	CC
5,100.00	4,983.82	4,645.03	4,582.11	15.85	11.77	24.34	-769.03	-2,891.99	2,155.56	2,131.21	24.35	88.530	
5,200.00	5,082.39	4,742.84	4,677.30	16.10	12.04	24.90	-757.80	-2,911.40	2,158.96	2,134.14	24.82	86.977	
5,300.00	5,181.35	4,840.75	4,772.61	16.32	12.32	25.44	-746.55	-2,930.83	2,164.93	2,139.65	25.28	85.628	
5,400.00	5,280.66	4,938.71	4,867.96	16.52	12.61	25.97	-735.30	-2,950.27	2,173.42	2,147.69	25.73	84.474	
5,500.00	5,380.25	5,036.65	4,963.29	16.68	12.89	26.49	-724.05	-2,969.70	2,184.39	2,158.23	26.16	83.505	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 131H - 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
5,600.00	5,480.03	5,134.49	5,058.53	16.82	13.17	26.99	-712.81	-2,989.11	2,197.80	2,171.23	26.57	82.715	
5,700.00	5,579.96	5,232.18	5,153.61	16.93	13.46	27.47	-701.58	-3,008.50	2,213.63	2,186.67	26.96	82.101	
5,800.00	5,679.94	5,329.64	5,248.48	16.99	13.74	-93.16	-690.39	-3,027.84	2,231.83	2,204.55	27.28	81.813	
5,900.00	5,779.94	5,426.98	5,343.22	17.03	14.02	-92.84	-679.21	-3,047.15	2,251.20	2,223.65	27.55	81.718	
6,000.00	5,879.94	5,524.32	5,437.97	17.07	14.31	-92.53	-668.03	-3,066.47	2,270.63	2,242.82	27.81	81.639	
6,100.00	5,979.94	5,646.25	5,556.75	17.10	14.64	-92.16	-654.24	-3,090.28	2,289.87	2,261.75	28.13	81.411	
6,200.00	6,079.94	5,795.06	5,702.42	17.14	15.04	-91.75	-639.01	-3,116.59	2,307.30	2,278.78	28.52	80.908	
6,300.00	6,179.94	5,945.40	5,850.34	17.17	15.41	-91.39	-625.55	-3,139.83	2,322.58	2,293.70	28.88	80.411	
6,400.00	6,279.94	6,097.07	6,000.23	17.21	15.75	-91.10	-613.95	-3,159.87	2,335.67	2,306.44	29.23	79.914	
6,500.00	6,379.94	6,249.89	6,151.82	17.25	16.04	-90.85	-604.28	-3,176.59	2,346.52	2,316.98	29.54	79.429	
6,600.00	6,479.94	6,403.64	6,304.80	17.29	16.29	-90.66	-596.59	-3,189.86	2,355.10	2,325.27	29.83	78.946	
6,700.00	6,579.94	6,558.11	6,458.85	17.32	16.51	-90.52	-590.94	-3,199.62	2,361.39	2,331.30	30.09	78.482	
6,800.00	6,679.94	6,713.08	6,613.65	17.36	16.68	-90.43	-587.37	-3,205.80	2,365.35	2,335.04	30.31	78.032	
6,900.00	6,779.94	6,868.32	6,768.85	17.40	16.81	-90.39	-585.89	-3,208.35	2,366.99	2,336.51	30.48	77.655	
7,000.00	6,879.94	6,979.41	6,879.94	17.44	16.88	-90.39	-585.85	-3,208.42	2,367.04	2,336.45	30.59	77.378	
7,100.00	6,979.94	7,079.41	6,979.94	17.48	16.95	-90.39	-585.85	-3,208.42	2,367.04	2,336.34	30.69	77.115	
7,200.00	7,079.94	7,179.41	7,079.94	17.52	17.01	-90.39	-585.85	-3,208.42	2,367.04	2,336.24	30.80	76.853	
7,300.00	7,179.94	7,279.41	7,179.94	17.56	17.07	-90.39	-585.85	-3,208.42	2,367.04	2,336.13	30.90	76.591	
7,400.00	7,279.94	7,379.41	7,279.94	17.60	17.14	-90.39	-585.85	-3,208.42	2,367.04	2,336.03	31.01	76.330	
7,500.00	7,379.94	7,479.41	7,379.94	17.64	17.20	-90.39	-585.85	-3,208.42	2,367.04	2,335.92	31.12	76.069	
7,600.00	7,479.94	7,579.41	7,479.94	17.68	17.27	-90.39	-585.85	-3,208.42	2,367.04	2,335.81	31.22	75.810	
7,700.00	7,579.94	7,679.41	7,579.94	17.72	17.33	-90.39	-585.85	-3,208.42	2,367.04	2,335.71	31.33	75.550	
7,800.00	7,679.94	7,779.41	7,679.94	17.76	17.40	-90.39	-585.85	-3,208.42	2,367.04	2,335.60	31.44	75.292	
7,900.00	7,779.94	7,879.41	7,779.94	17.80	17.46	-90.39	-585.85	-3,208.42	2,367.04	2,335.49	31.55	75.034	
8,000.00	7,879.94	7,979.41	7,879.94	17.84	17.53	-90.39	-585.85	-3,208.42	2,367.04	2,335.38	31.65	74.777	
8,100.00	7,979.94	8,079.41	7,979.94	17.88	17.59	-90.39	-585.85	-3,208.42	2,367.04	2,335.27	31.76	74.520	
8,200.00	8,079.94	8,179.41	8,079.94	17.93	17.66	-90.39	-585.85	-3,208.42	2,367.04	2,335.16	31.87	74.265	
8,300.00	8,179.94	8,279.41	8,179.94	17.97	17.73	-90.39	-585.85	-3,208.42	2,367.04	2,335.05	31.98	74.009	
8,400.00	8,279.94	8,379.41	8,279.94	18.01	17.79	-90.39	-585.85	-3,208.42	2,367.04	2,334.94	32.09	73.755	
8,500.00	8,379.94	8,479.41	8,379.94	18.05	17.86	-90.39	-585.85	-3,208.42	2,367.04	2,334.83	32.20	73.502	
8,600.00	8,479.94	8,579.41	8,479.94	18.10	17.92	-90.39	-585.85	-3,208.42	2,367.04	2,334.72	32.32	73.249	
8,700.00	8,579.94	8,679.41	8,579.94	18.14	17.99	-90.39	-585.85	-3,208.42	2,367.04	2,334.61	32.43	72.997	
8,800.00	8,679.94	8,779.41	8,679.94	18.18	18.06	-90.39	-585.85	-3,208.42	2,367.04	2,334.50	32.54	72.746	
8,900.00	8,779.94	8,879.41	8,779.94	18.23	18.12	-90.39	-585.85	-3,208.42	2,367.04	2,334.38	32.65	72.495	
9,000.00	8,879.94	8,979.41	8,879.94	18.27	18.19	-90.39	-585.85	-3,208.42	2,367.04	2,334.27	32.76	72.245	
9,100.00	8,979.94	9,079.41	8,979.94	18.32	18.26	-90.39	-585.85	-3,208.42	2,367.04	2,334.16	32.88	71.997	
9,200.00	9,079.94	9,179.41	9,079.94	18.36	18.32	-90.39	-585.85	-3,208.42	2,367.04	2,334.05	32.99	71.749	
9,300.00	9,179.94	9,279.41	9,179.94	18.41	18.39	-90.39	-585.85	-3,208.42	2,367.04	2,333.93	33.10	71.502	
9,400.00	9,279.94	9,379.41	9,279.94	18.45	18.46	-90.39	-585.85	-3,208.42	2,367.04	2,333.82	33.22	71.255	
9,500.00	9,379.94	9,479.41	9,379.94	18.50	18.52	-90.39	-585.85	-3,208.42	2,367.04	2,333.70	33.33	71.010	
9,600.00	9,479.94	9,579.41	9,479.94	18.54	18.59	-90.39	-585.85	-3,208.42	2,367.04	2,333.59	33.45	70.765	
9,700.00	9,579.94	9,679.41	9,579.94	18.59	18.66	-90.39	-585.85	-3,208.42	2,367.04	2,333.47	33.56	70.521	
9,800.00	9,679.94	9,779.41	9,679.94	18.64	18.73	-90.39	-585.85	-3,208.42	2,367.04	2,333.35	33.68	70.279	
9,900.00	9,779.94	9,879.41	9,779.94	18.68	18.79	-90.39	-585.85	-3,208.42	2,367.04	2,333.24	33.80	70.037	
10,000.00	9,879.94	9,979.41	9,879.94	18.73	18.86	-90.39	-585.85	-3,208.42	2,367.04	2,333.12	33.91	69.795	
10,100.00	9,979.94	10,079.41	9,979.94	18.78	18.93	-90.39	-585.85	-3,208.42	2,367.04	2,333.00	34.03	69.555	
10,200.00	10,079.94	10,179.41	10,079.94	18.82	19.00	-90.39	-585.85	-3,208.42	2,367.04	2,332.89	34.15	69.316	
10,300.00	10,179.94	10,279.41	10,179.94	18.87	19.07	-90.39	-585.85	-3,208.42	2,367.04	2,332.77	34.27	69.078	
10,400.00	10,279.94	10,379.41	10,279.94	18.92	19.13	-90.39	-585.85	-3,208.42	2,367.04	2,332.65	34.38	68.840	
10,500.00	10,379.94	10,479.41	10,379.94	18.97	19.20	-90.39	-585.85	-3,208.42	2,367.04	2,332.53	34.50	68.604	
10,600.00	10,479.94	10,579.41	10,479.94	19.02	19.27	-90.39	-585.85	-3,208.42	2,367.04	2,332.41	34.62	68.368	
10,700.00	10,579.94	10,679.41	10,579.94	19.07	19.34	-90.39	-585.85	-3,208.42	2,367.04	2,332.29	34.74	68.133	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 131H - 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
10,800.00	10,679.94	10,779.41	10,679.94	19.11	19.41	-90.39	-585.85	-3,208.42	2,367.04	2,332.17	34.86	67.899	
10,900.00	10,779.94	10,879.41	10,779.94	19.16	19.48	-90.39	-585.85	-3,208.42	2,367.04	2,332.05	34.98	67.667	
11,000.00	10,879.94	10,979.41	10,879.94	19.21	19.55	-90.39	-585.85	-3,208.42	2,367.04	2,331.93	35.10	67.435	
11,100.00	10,979.94	11,079.41	10,979.94	19.26	19.61	-90.39	-585.85	-3,208.42	2,367.04	2,331.81	35.22	67.204	
11,200.00	11,079.94	11,179.41	11,079.94	19.31	19.68	-90.39	-585.85	-3,208.42	2,367.04	2,331.69	35.34	66.974	
11,300.00	11,179.94	11,279.41	11,179.94	19.36	19.75	-90.39	-585.85	-3,208.42	2,367.04	2,331.57	35.46	66.744	
11,400.00	11,279.94	11,379.41	11,279.94	19.41	19.82	-90.39	-585.85	-3,208.42	2,367.04	2,331.45	35.59	66.516	
11,500.00	11,379.94	11,479.41	11,379.94	19.46	19.89	-90.39	-585.85	-3,208.42	2,367.04	2,331.33	35.71	66.289	
11,600.00	11,479.94	11,579.41	11,479.94	19.51	19.96	-90.39	-585.85	-3,208.42	2,367.04	2,331.21	35.83	66.063	
11,700.00	11,579.94	11,679.58	11,580.11	19.56	20.02	-90.41	-586.45	-3,208.41	2,367.03	2,331.11	35.92	65.895	
11,742.85	11,622.79	11,722.42	11,622.79	19.59	20.04	-90.49	-589.99	-3,208.38	2,367.03	2,331.11	35.92	65.889	
11,800.00	11,679.94	11,778.31	11,677.86	19.61	20.05	-90.72	-599.40	-3,208.30	2,367.05	2,331.15	35.90	65.938	
11,900.00	11,779.94	11,870.11	11,765.52	19.67	20.03	-91.37	-626.32	-3,208.07	2,367.35	2,331.55	35.80	66.122	
12,000.00	11,879.94	11,950.00	11,837.47	19.72	20.00	-92.21	-660.89	-3,207.77	2,368.47	2,332.79	35.69	66.369	
12,100.00	11,979.48	12,025.43	11,900.38	19.84	19.96	87.21	-702.40	-3,207.42	2,370.65	2,335.09	35.56	66.667	
12,200.00	12,076.09	12,100.00	11,956.69	20.05	19.93	86.14	-751.22	-3,207.00	2,373.49	2,337.97	35.53	66.809	
12,300.00	12,166.83	12,164.99	12,000.23	20.32	19.91	85.21	-799.41	-3,206.58	2,376.71	2,341.06	35.65	66.670	
12,400.00	12,248.94	12,232.00	12,039.12	20.67	19.91	84.34	-853.94	-3,206.11	2,380.02	2,344.10	35.92	66.262	
12,500.00	12,319.94	12,300.00	12,071.80	21.11	19.92	83.56	-913.52	-3,205.60	2,383.16	2,346.82	36.34	65.577	
12,600.00	12,377.66	12,362.62	12,095.47	21.65	19.97	82.96	-971.45	-3,205.10	2,385.90	2,348.93	36.97	64.531	
12,700.00	12,420.35	12,426.81	12,113.02	22.29	20.04	82.49	-1,033.17	-3,204.57	2,388.04	2,350.27	37.77	63.219	
12,800.00	12,446.71	12,490.59	12,123.51	23.03	20.13	82.20	-1,096.04	-3,204.03	2,389.44	2,350.71	38.73	61.690	
12,900.04	12,455.95	12,557.46	12,127.01	23.86	20.27	82.09	-1,162.78	-3,203.45	2,390.00	2,350.18	39.81	60.029	
13,000.00	12,456.48	12,657.42	12,127.89	24.75	20.53	82.10	-1,262.73	-3,202.59	2,389.99	2,349.01	40.98	58.318	
13,100.00	12,457.00	12,757.42	12,128.76	25.69	20.85	82.11	-1,362.73	-3,201.73	2,389.98	2,347.70	42.28	56.523	
13,200.00	12,457.53	12,857.42	12,129.63	26.67	21.24	82.11	-1,462.72	-3,200.87	2,389.97	2,346.26	43.71	54.673	
13,300.00	12,458.05	12,957.42	12,130.50	27.68	21.68	82.12	-1,562.71	-3,200.01	2,389.96	2,344.70	45.26	52.801	
13,400.00	12,458.58	13,057.42	12,131.37	28.73	22.19	82.13	-1,662.70	-3,199.15	2,389.95	2,343.03	46.92	50.935	
13,500.00	12,459.11	13,157.42	12,132.24	29.80	22.76	82.14	-1,762.69	-3,198.29	2,389.94	2,341.27	48.68	49.097	
13,600.00	12,459.63	13,257.42	12,133.11	30.90	23.39	82.15	-1,862.68	-3,197.43	2,389.94	2,339.41	50.52	47.304	
13,700.00	12,460.16	13,357.42	12,133.98	32.01	24.07	82.16	-1,962.68	-3,196.57	2,389.93	2,337.48	52.45	45.567	
13,800.00	12,460.69	13,457.42	12,134.85	33.15	24.81	82.16	-2,062.67	-3,195.71	2,389.92	2,335.47	54.44	43.896	
13,900.00	12,461.21	13,557.41	12,135.73	34.30	25.60	82.17	-2,162.66	-3,194.85	2,389.91	2,333.40	56.51	42.295	
14,000.00	12,461.74	13,657.41	12,136.60	35.46	26.44	82.18	-2,262.65	-3,193.99	2,389.90	2,331.28	58.62	40.767	
14,100.00	12,462.26	13,757.41	12,137.47	36.64	27.32	82.19	-2,362.64	-3,193.13	2,389.89	2,329.10	60.79	39.312	
14,200.00	12,462.79	13,857.41	12,138.34	37.84	28.24	82.20	-2,462.64	-3,192.26	2,389.88	2,326.88	63.01	37.930	
14,300.00	12,463.32	13,957.41	12,139.21	39.04	29.19	82.21	-2,562.63	-3,191.40	2,389.87	2,324.61	65.26	36.619	
14,400.00	12,463.84	14,057.41	12,140.08	40.25	30.18	82.21	-2,662.62	-3,190.54	2,389.87	2,322.31	67.55	35.377	
14,500.00	12,464.37	14,157.41	12,140.95	41.48	31.19	82.22	-2,762.61	-3,189.68	2,389.86	2,319.98	69.88	34.200	
14,600.00	12,464.90	14,257.41	12,141.82	42.71	32.24	82.23	-2,862.60	-3,188.82	2,389.85	2,317.62	72.23	33.086	
14,700.00	12,465.42	14,357.41	12,142.69	43.95	33.30	82.24	-2,962.60	-3,187.96	2,389.84	2,315.23	74.61	32.030	
14,800.00	12,465.95	14,457.41	12,143.57	45.19	34.39	82.25	-3,062.59	-3,187.10	2,389.83	2,312.82	77.02	31.030	
14,900.00	12,466.47	14,557.41	12,144.44	46.45	35.50	82.26	-3,162.58	-3,186.24	2,389.82	2,310.38	79.44	30.083	
15,000.00	12,467.00	14,657.41	12,145.31	47.71	36.63	82.26	-3,262.57	-3,185.38	2,389.82	2,307.93	81.89	29.184	
15,100.00	12,467.53	14,757.41	12,146.18	48.97	37.77	82.27	-3,362.56	-3,184.52	2,389.81	2,305.46	84.35	28.332	
15,200.00	12,468.05	14,857.41	12,147.05	50.24	38.93	82.28	-3,462.56	-3,183.66	2,389.80	2,302.97	86.83	27.523	
15,300.00	12,468.58	14,957.41	12,147.92	51.52	40.10	82.29	-3,562.55	-3,182.80	2,389.79	2,300.47	89.32	26.755	
15,400.00	12,469.10	15,057.41	12,148.79	52.80	41.29	82.30	-3,662.54	-3,181.94	2,389.78	2,297.95	91.83	26.024	
15,500.00	12,469.63	15,157.40	12,149.66	54.08	42.49	82.31	-3,762.53	-3,181.08	2,389.78	2,295.43	94.35	25.329	
15,600.00	12,470.16	15,257.40	12,150.53	55.37	43.69	82.31	-3,862.52	-3,180.21	2,389.77	2,292.89	96.88	24.667	
15,700.00	12,470.68	15,357.40	12,151.41	56.66	44.91	82.32	-3,962.51	-3,179.35	2,389.76	2,290.34	99.42	24.037	
15,800.00	12,471.21	15,457.40	12,152.28	57.95	46.13	82.33	-4,062.51	-3,178.49	2,389.75	2,287.78	101.97	23.435	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 131H - 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	Rule Assigned: Warning
15,900.00	12,471.74	15,557.40	12,153.15	59.25	47.37	82.34	-4,162.50	-3,177.63	2,389.75	2,285.21	104.53	22.861	
16,000.00	12,472.26	15,657.40	12,154.02	60.55	48.61	82.35	-4,262.49	-3,176.77	2,389.74	2,282.64	107.10	22.313	
16,100.00	12,472.79	15,757.40	12,154.89	61.86	49.86	82.36	-4,362.48	-3,175.91	2,389.73	2,280.05	109.68	21.789	
16,200.00	12,473.31	15,857.40	12,155.76	63.16	51.11	82.36	-4,462.47	-3,175.05	2,389.72	2,277.46	112.26	21.287	
16,300.00	12,473.84	15,957.40	12,156.63	64.47	52.37	82.37	-4,562.47	-3,174.19	2,389.72	2,274.87	114.85	20.807	
16,400.00	12,474.37	16,057.40	12,157.50	65.78	53.64	82.38	-4,662.46	-3,173.33	2,389.71	2,272.26	117.45	20.347	
16,500.00	12,474.89	16,157.40	12,158.37	67.10	54.91	82.39	-4,762.45	-3,172.47	2,389.70	2,269.65	120.05	19.906	
16,600.00	12,475.42	16,257.40	12,159.25	68.41	56.18	82.40	-4,862.44	-3,171.61	2,389.69	2,267.04	122.65	19.483	
16,700.00	12,475.94	16,357.40	12,160.12	69.73	57.46	82.41	-4,962.43	-3,170.75	2,389.69	2,264.42	125.27	19.077	
16,800.00	12,476.47	16,457.40	12,160.99	71.05	58.75	82.41	-5,062.43	-3,169.89	2,389.68	2,261.80	127.88	18.687	
16,900.00	12,477.00	16,557.40	12,161.86	72.37	60.03	82.42	-5,162.42	-3,169.02	2,389.67	2,259.17	130.50	18.311	
17,000.00	12,477.52	16,657.40	12,162.73	73.70	61.32	82.43	-5,262.41	-3,168.16	2,389.66	2,256.54	133.13	17.950	
17,100.00	12,478.05	16,757.40	12,163.60	75.02	62.62	82.44	-5,362.40	-3,167.30	2,389.66	2,253.90	135.76	17.602	
17,200.00	12,478.58	16,857.39	12,164.47	76.35	63.92	82.45	-5,462.39	-3,166.44	2,389.65	2,251.26	138.39	17.268	
17,300.00	12,479.10	16,957.39	12,165.34	77.68	65.22	82.46	-5,562.39	-3,165.58	2,389.64	2,248.62	141.03	16.945	
17,400.00	12,479.63	17,057.39	12,166.21	79.01	66.52	82.46	-5,662.38	-3,164.72	2,389.64	2,245.97	143.67	16.633	
17,500.00	12,480.15	17,157.39	12,167.09	80.34	67.83	82.47	-5,762.37	-3,163.86	2,389.63	2,243.32	146.31	16.333	
17,600.00	12,480.68	17,257.39	12,167.96	81.67	69.14	82.48	-5,862.36	-3,163.00	2,389.62	2,240.67	148.95	16.043	
17,700.00	12,481.21	17,357.39	12,168.83	83.00	70.45	82.49	-5,962.35	-3,162.14	2,389.62	2,238.01	151.60	15.762	
17,800.00	12,481.73	17,457.39	12,169.70	84.34	71.76	82.50	-6,062.34	-3,161.28	2,389.61	2,235.36	154.25	15.491	
17,900.00	12,482.26	17,557.39	12,170.57	85.67	73.08	82.51	-6,162.34	-3,160.42	2,389.60	2,232.70	156.91	15.229	
18,000.00	12,482.79	17,657.39	12,171.44	87.01	74.40	82.51	-6,262.33	-3,159.56	2,389.60	2,230.03	159.56	14.976	
18,100.00	12,483.31	17,757.39	12,172.31	88.35	75.72	82.52	-6,362.32	-3,158.70	2,389.59	2,227.37	162.22	14.730	
18,200.00	12,483.84	17,857.39	12,173.18	89.68	77.04	82.53	-6,462.31	-3,157.84	2,389.58	2,224.70	164.88	14.493	
18,300.00	12,484.36	17,957.39	12,174.06	91.02	78.36	82.54	-6,562.30	-3,156.97	2,389.58	2,222.03	167.54	14.262	
18,400.00	12,484.89	18,057.39	12,174.93	92.36	79.69	82.55	-6,662.30	-3,156.11	2,389.57	2,219.36	170.21	14.039	
18,500.00	12,485.42	18,157.39	12,175.80	93.70	81.01	82.56	-6,762.29	-3,155.25	2,389.56	2,216.69	172.87	13.823	
18,600.00	12,485.94	18,257.39	12,176.67	95.05	82.34	82.56	-6,862.28	-3,154.39	2,389.56	2,214.01	175.54	13.612	
18,700.00	12,486.47	18,357.39	12,177.54	96.39	83.67	82.57	-6,962.27	-3,153.53	2,389.55	2,211.34	178.21	13.408	
18,800.00	12,486.99	18,457.39	12,178.41	97.73	85.00	82.58	-7,062.26	-3,152.67	2,389.54	2,208.66	180.88	13.210	
18,900.00	12,487.52	18,557.38	12,179.28	99.07	86.33	82.59	-7,162.26	-3,151.81	2,389.54	2,205.98	183.56	13.018	
19,000.00	12,488.05	18,657.38	12,180.15	100.42	87.66	82.60	-7,262.25	-3,150.95	2,389.53	2,203.30	186.23	12.831	
19,100.00	12,488.57	18,757.38	12,181.02	101.76	89.00	82.60	-7,362.24	-3,150.09	2,389.53	2,200.62	188.91	12.649	
19,200.00	12,489.10	18,857.38	12,181.90	103.11	90.33	82.61	-7,462.23	-3,149.23	2,389.52	2,197.94	191.58	12.472	
19,300.00	12,489.63	18,957.38	12,182.77	104.46	91.67	82.62	-7,562.22	-3,148.37	2,389.51	2,195.25	194.26	12.300	
19,400.00	12,490.15	19,057.38	12,183.64	105.80	93.00	82.63	-7,662.22	-3,147.51	2,389.51	2,192.57	196.94	12.133	
19,500.00	12,490.68	19,157.38	12,184.51	107.15	94.34	82.64	-7,762.21	-3,146.65	2,389.50	2,189.88	199.62	11.970	
19,600.00	12,491.20	19,257.38	12,185.38	108.50	95.68	82.65	-7,862.20	-3,145.79	2,389.50	2,187.19	202.31	11.811	
19,700.00	12,491.73	19,357.38	12,186.25	109.85	97.02	82.65	-7,962.19	-3,144.92	2,389.49	2,184.50	204.99	11.657	
19,800.00	12,492.26	19,457.38	12,187.12	111.20	98.36	82.66	-8,062.18	-3,144.06	2,389.49	2,181.81	207.68	11.506	
19,900.00	12,492.78	19,557.38	12,187.99	112.55	99.70	82.67	-8,162.17	-3,143.20	2,389.48	2,179.12	210.36	11.359	
20,000.00	12,493.31	19,657.38	12,188.86	113.90	101.05	82.68	-8,262.17	-3,142.34	2,389.47	2,176.43	213.05	11.216	
20,100.00	12,493.84	19,757.38	12,189.74	115.25	102.39	82.69	-8,362.16	-3,141.48	2,389.47	2,173.73	215.74	11.076	
20,200.00	12,494.36	19,857.38	12,190.61	116.60	103.73	82.70	-8,462.15	-3,140.62	2,389.46	2,171.04	218.42	10.940	
20,300.00	12,494.89	19,957.38	12,191.48	117.95	105.08	82.70	-8,562.14	-3,139.76	2,389.46	2,168.34	221.11	10.806	
20,400.00	12,495.41	20,057.38	12,192.35	119.30	106.42	82.71	-8,662.13	-3,138.90	2,389.45	2,165.65	223.80	10.677	
20,500.00	12,495.94	20,157.37	12,193.22	120.65	107.77	82.72	-8,762.13	-3,138.04	2,389.45	2,162.95	226.50	10.550	
20,600.00	12,496.47	20,257.37	12,194.09	122.01	109.11	82.73	-8,862.12	-3,137.18	2,389.44	2,160.25	229.19	10.426	
20,700.00	12,496.99	20,357.37	12,194.96	123.36	110.46	82.74	-8,962.11	-3,136.32	2,389.44	2,157.56	231.88	10.305	
20,800.00	12,497.52	20,457.37	12,195.83	124.71	111.81	82.75	-9,062.10	-3,135.46	2,389.43	2,154.86	234.57	10.186	
20,900.00	12,498.04	20,557.37	12,196.70	126.07	113.16	82.75	-9,162.09	-3,134.60	2,389.43	2,152.16	237.27	10.071	
21,000.00	12,498.57	20,657.37	12,197.58	127.42	114.50	82.76	-9,262.09	-3,133.73	2,389.42	2,149.46	239.96	9.957	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 131H - OH - Plan 1

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
21,100.00	12,499.10	20,757.37	12,198.45	128.77	115.85	82.77	-9,362.08	-3,132.87	2,389.42	2,146.76	242.66	9.847	
21,200.00	12,499.62	20,857.37	12,199.32	130.13	117.20	82.78	-9,462.07	-3,132.01	2,389.41	2,144.05	245.36	9.739	
21,300.00	12,500.15	20,957.37	12,200.19	131.48	118.55	82.79	-9,562.06	-3,131.15	2,389.41	2,141.35	248.05	9.633	
21,400.00	12,500.68	21,057.37	12,201.06	132.84	119.90	82.80	-9,662.05	-3,130.29	2,389.40	2,138.65	250.75	9.529	
21,500.00	12,501.20	21,157.37	12,201.93	134.20	121.25	82.80	-9,762.04	-3,129.43	2,389.40	2,135.95	253.45	9.427	
21,600.00	12,501.73	21,257.37	12,202.80	135.55	122.60	82.81	-9,862.04	-3,128.57	2,389.39	2,133.24	256.15	9.328	
21,700.00	12,502.25	21,357.37	12,203.67	136.91	123.96	82.82	-9,962.03	-3,127.71	2,389.39	2,130.54	258.85	9.231	
21,800.00	12,502.78	21,457.37	12,204.54	138.26	125.31	82.83	-10,062.02	-3,126.85	2,389.38	2,127.83	261.55	9.135	
21,900.00	12,503.31	21,557.37	12,205.42	139.62	126.66	82.84	-10,162.01	-3,125.99	2,389.38	2,125.13	264.25	9.042	
22,000.00	12,503.83	21,657.37	12,206.29	140.98	128.01	82.85	-10,262.00	-3,125.13	2,389.37	2,122.42	266.95	8.951	
22,100.00	12,504.36	21,757.37	12,207.16	142.33	129.37	82.85	-10,362.00	-3,124.27	2,389.37	2,119.71	269.65	8.861	
22,200.00	12,504.89	21,857.36	12,208.03	143.69	130.72	82.86	-10,461.99	-3,123.41	2,389.36	2,117.01	272.36	8.773	
22,300.00	12,505.41	21,957.36	12,208.90	145.05	132.07	82.87	-10,561.98	-3,122.55	2,389.36	2,114.30	275.06	8.687	
22,400.00	12,505.94	22,057.36	12,209.77	146.41	133.43	82.88	-10,661.97	-3,121.68	2,389.35	2,111.59	277.76	8.602	
22,500.00	12,506.46	22,157.36	12,210.64	147.76	134.78	82.89	-10,761.96	-3,120.82	2,389.35	2,108.88	280.47	8.519	
22,600.00	12,506.99	22,257.36	12,211.51	149.12	136.14	82.90	-10,861.96	-3,119.96	2,389.35	2,106.17	283.17	8.438	
22,700.00	12,507.52	22,357.36	12,212.38	150.48	137.49	82.90	-10,961.95	-3,119.10	2,389.34	2,103.46	285.88	8.358	
22,800.00	12,508.04	22,457.36	12,213.26	151.84	138.85	82.91	-11,061.94	-3,118.24	2,389.34	2,100.76	288.58	8.280	
22,827.94	12,508.19	22,485.30	12,213.50	152.22	139.23	82.92	-11,089.88	-3,118.00	2,389.34	2,100.00	289.34	8.258	
22,830.04	12,508.20	22,485.80	12,213.50	152.25	139.26	82.92	-11,090.37	-3,118.00	2,389.34	2,099.95	289.39	8.257	ES, SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 132H - OH - Plan 2

Offset Site Error: 0.00 usft

Survey Program: 204-MWD+HRGM+SAG+FDIR (rev.5), 1043-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
1,500.00	1,496.46	1,773.53	1,771.24	4.82	5.19	28.78	-854.10	-2,317.10	2,430.79	2,420.94	9.85	246.894	
1,600.00	1,595.38	1,870.28	1,867.37	5.04	5.37	24.00	-850.00	-2,306.95	2,406.47	2,396.22	10.25	234.861	
1,700.00	1,693.92	1,966.37	1,962.84	5.27	5.54	20.50	-845.92	-2,296.86	2,379.65	2,369.00	10.65	223.461	
1,800.00	1,792.04	2,061.73	2,057.59	5.49	5.71	17.85	-841.88	-2,286.85	2,350.33	2,339.28	11.05	212.661	
1,900.00	1,889.64	2,156.31	2,151.56	5.71	5.89	15.80	-837.87	-2,276.92	2,318.54	2,307.08	11.46	202.306	
2,000.00	1,986.68	2,270.36	2,264.84	5.94	6.10	14.22	-832.74	-2,264.75	2,284.11	2,272.22	11.89	192.114	
2,100.00	2,083.28	2,404.78	2,398.07	6.11	6.35	14.20	-824.50	-2,248.92	2,246.52	2,234.24	12.28	182.986	
2,200.00	2,179.88	2,536.76	2,528.49	6.34	6.59	14.58	-813.88	-2,231.68	2,207.21	2,194.51	12.70	173.792	
2,300.00	2,276.47	2,646.55	2,636.66	6.61	6.80	14.94	-803.31	-2,216.16	2,166.53	2,153.43	13.10	165.421	
2,400.00	2,373.06	2,737.18	2,725.90	6.90	6.97	15.26	-794.35	-2,203.19	2,125.71	2,112.24	13.47	157.758	
2,500.00	2,469.65	2,827.81	2,815.15	7.20	7.14	15.59	-785.39	-2,190.22	2,084.95	2,071.10	13.86	150.479	
2,600.00	2,566.24	2,918.43	2,904.39	7.50	7.31	15.94	-776.43	-2,177.25	2,044.26	2,030.02	14.24	143.558	
2,700.00	2,662.84	3,009.06	2,993.64	7.82	7.49	16.30	-767.47	-2,164.28	2,003.62	1,988.99	14.63	136.973	
2,800.00	2,759.43	3,099.68	3,082.88	8.13	7.66	16.67	-758.51	-2,151.31	1,963.06	1,948.04	15.02	130.704	
2,900.00	2,856.02	3,190.31	3,172.12	8.45	7.83	17.06	-749.55	-2,138.34	1,922.57	1,907.16	15.41	124.731	
3,000.00	2,952.61	3,280.93	3,261.37	8.78	8.01	17.46	-740.59	-2,125.37	1,882.16	1,866.35	15.81	119.036	
3,100.00	3,049.20	3,371.56	3,350.61	9.10	8.18	17.89	-731.63	-2,112.40	1,841.83	1,825.62	16.21	113.603	
3,200.00	3,145.79	3,462.18	3,439.85	9.43	8.36	18.33	-722.66	-2,099.43	1,801.59	1,784.97	16.62	108.416	
3,300.00	3,242.39	3,552.81	3,529.10	9.77	8.53	18.79	-713.70	-2,086.46	1,761.45	1,744.42	17.03	103.461	
3,400.00	3,338.98	3,643.43	3,618.34	10.10	8.72	19.27	-704.74	-2,073.49	1,721.41	1,703.97	17.44	98.717	
3,500.00	3,435.57	3,734.06	3,707.58	10.44	8.91	19.77	-695.78	-2,060.52	1,681.47	1,663.62	17.85	94.186	
3,600.00	3,532.16	3,824.68	3,796.83	10.78	9.11	20.30	-686.82	-2,047.55	1,641.66	1,623.39	18.27	89.847	
3,700.00	3,628.75	3,915.31	3,886.07	11.12	9.31	20.85	-677.86	-2,034.59	1,601.97	1,583.28	18.69	85.690	
3,800.00	3,725.34	4,005.93	3,975.32	11.46	9.51	21.43	-668.90	-2,021.62	1,562.42	1,543.29	19.12	81.707	
3,900.00	3,821.94	4,096.56	4,064.56	11.80	9.71	22.04	-659.94	-2,008.65	1,523.01	1,503.46	19.55	77.887	
4,000.00	3,918.53	4,187.18	4,153.80	12.14	9.91	22.68	-650.98	-1,995.68	1,483.76	1,463.77	19.99	74.222	
4,100.00	4,015.12	4,277.81	4,243.05	12.49	10.11	23.36	-642.02	-1,982.71	1,444.68	1,424.25	20.43	70.705	
4,200.00	4,111.71	4,368.43	4,332.29	12.83	10.32	24.07	-633.06	-1,969.74	1,405.79	1,384.91	20.88	67.327	
4,300.00	4,208.30	4,454.73	4,417.28	13.18	10.48	24.78	-624.54	-1,957.42	1,367.13	1,345.83	21.31	64.158	
4,400.00	4,304.90	4,529.96	4,491.49	13.53	10.63	25.42	-617.53	-1,947.27	1,329.48	1,307.73	21.75	61.126	
4,500.00	4,401.49	4,600.00	4,560.72	13.88	10.78	26.02	-611.50	-1,938.54	1,293.13	1,270.92	22.21	58.232	
4,600.00	4,498.08	4,683.07	4,642.99	14.23	10.94	26.74	-604.97	-1,929.09	1,258.05	1,235.39	22.67	55.501	
4,700.00	4,594.67	4,760.93	4,720.25	14.58	11.09	27.42	-599.47	-1,921.12	1,224.32	1,201.19	23.13	52.937	
4,800.00	4,691.26	4,839.65	4,798.48	14.93	11.22	28.11	-594.51	-1,913.95	1,191.92	1,168.33	23.59	50.532	
4,900.00	4,788.20	4,919.59	4,878.04	15.26	11.35	28.56	-590.10	-1,907.57	1,162.01	1,137.96	24.05	48.310	
5,000.00	4,885.74	5,000.00	4,958.17	15.57	11.48	28.98	-586.31	-1,902.08	1,135.65	1,111.14	24.50	46.346	
5,100.00	4,983.82	5,083.74	5,041.72	15.85	11.60	29.39	-583.03	-1,897.34	1,112.84	1,087.90	24.93	44.630	
5,200.00	5,082.39	5,167.62	5,125.48	16.10	11.70	29.74	-580.45	-1,893.60	1,093.58	1,068.23	25.34	43.151	
5,300.00	5,181.35	5,252.47	5,210.26	16.32	11.81	30.04	-578.55	-1,890.84	1,077.86	1,052.14	25.73	41.899	
5,400.00	5,280.66	5,338.10	5,295.86	16.52	11.91	30.28	-577.35	-1,889.11	1,065.68	1,039.61	26.08	40.867	
5,500.00	5,380.25	5,424.32	5,382.07	16.68	11.99	30.46	-576.88	-1,888.43	1,057.03	1,030.65	26.38	40.069	
5,600.00	5,480.03	5,522.28	5,480.03	16.82	12.05	30.59	-576.87	-1,888.42	1,051.42	1,024.81	26.61	39.510	
5,700.00	5,579.96	5,622.20	5,579.96	16.93	12.12	30.67	-576.87	-1,888.42	1,048.09	1,021.25	26.84	39.049	
5,800.00	5,679.94	5,722.19	5,679.94	16.99	12.20	-90.40	-576.87	-1,888.42	1,047.01	1,020.01	26.99	38.788	
5,900.00	5,779.94	5,822.19	5,779.94	17.03	12.27	-90.40	-576.87	-1,888.42	1,047.01	1,019.90	27.10	38.635	
6,000.00	5,879.94	5,922.19	5,879.94	17.07	12.35	-90.40	-576.87	-1,888.42	1,047.01	1,019.80	27.21	38.482	
6,100.00	5,979.94	6,022.19	5,979.94	17.10	12.43	-90.40	-576.87	-1,888.42	1,047.01	1,019.69	27.32	38.330	
6,200.00	6,079.94	6,122.19	6,079.94	17.14	12.50	-90.40	-576.87	-1,888.42	1,047.01	1,019.58	27.42	38.178	
6,300.00	6,179.94	6,222.19	6,179.94	17.17	12.58	-90.40	-576.87	-1,888.42	1,047.01	1,019.47	27.53	38.027	
6,400.00	6,279.94	6,322.19	6,279.94	17.21	12.65	-90.40	-576.87	-1,888.42	1,047.01	1,019.36	27.64	37.877	
6,500.00	6,379.94	6,422.19	6,379.94	17.25	12.73	-90.40	-576.87	-1,888.42	1,047.01	1,019.25	27.75	37.727	
6,600.00	6,479.94	6,522.19	6,479.94	17.29	12.81	-90.40	-576.87	-1,888.42	1,047.01	1,019.14	27.86	37.578	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 132H - OH - Plan 2 — **Offset Site Error:** 0.00 usft

Survey Program: 204-MWD+HRGM+SAG+FDIR (rev.5), 1043-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
6,700.00	6,579.94	6,622.19	6,579.94	17.32	12.88	-90.40	-576.87	-1,888.42	1,047.01	1,019.03	27.97	37.429	
6,800.00	6,679.94	6,722.19	6,679.94	17.36	12.96	-90.40	-576.87	-1,888.42	1,047.01	1,018.92	28.08	37.281	
6,900.00	6,779.94	6,822.19	6,779.94	17.40	13.04	-90.40	-576.87	-1,888.42	1,047.01	1,018.81	28.20	37.133	
7,000.00	6,879.94	6,922.19	6,879.94	17.44	13.11	-90.40	-576.87	-1,888.42	1,047.01	1,018.70	28.31	36.986	
7,100.00	6,979.94	7,022.19	6,979.94	17.48	13.19	-90.40	-576.87	-1,888.42	1,047.01	1,018.58	28.42	36.840	
7,200.00	7,079.94	7,122.19	7,079.94	17.52	13.27	-90.40	-576.87	-1,888.42	1,047.01	1,018.47	28.53	36.694	
7,300.00	7,179.94	7,222.19	7,179.94	17.56	13.35	-90.40	-576.87	-1,888.42	1,047.01	1,018.36	28.65	36.549	
7,400.00	7,279.94	7,322.19	7,279.94	17.60	13.42	-90.40	-576.87	-1,888.42	1,047.01	1,018.24	28.76	36.405	
7,500.00	7,379.94	7,422.19	7,379.94	17.64	13.50	-90.40	-576.87	-1,888.42	1,047.01	1,018.13	28.87	36.261	
7,600.00	7,479.94	7,522.19	7,479.94	17.68	13.58	-90.40	-576.87	-1,888.42	1,047.01	1,018.02	28.99	36.117	
7,700.00	7,579.94	7,622.19	7,579.94	17.72	13.65	-90.40	-576.87	-1,888.42	1,047.01	1,017.90	29.10	35.975	
7,800.00	7,679.94	7,722.19	7,679.94	17.76	13.73	-90.40	-576.87	-1,888.42	1,047.01	1,017.79	29.22	35.832	
7,900.00	7,779.94	7,822.19	7,779.94	17.80	13.81	-90.40	-576.87	-1,888.42	1,047.01	1,017.67	29.34	35.691	
8,000.00	7,879.94	7,922.19	7,879.94	17.84	13.89	-90.40	-576.87	-1,888.42	1,047.01	1,017.55	29.45	35.550	
8,100.00	7,979.94	8,022.19	7,979.94	17.88	13.96	-90.40	-576.87	-1,888.42	1,047.01	1,017.44	29.57	35.410	
8,200.00	8,079.94	8,122.19	8,079.94	17.93	14.04	-90.40	-576.87	-1,888.42	1,047.01	1,017.32	29.69	35.270	
8,300.00	8,179.94	8,222.19	8,179.94	17.97	14.12	-90.40	-576.87	-1,888.42	1,047.01	1,017.20	29.80	35.131	
8,400.00	8,279.94	8,322.19	8,279.94	18.01	14.20	-90.40	-576.87	-1,888.42	1,047.01	1,017.08	29.92	34.993	
8,500.00	8,379.94	8,422.19	8,379.94	18.05	14.28	-90.40	-576.87	-1,888.42	1,047.01	1,016.97	30.04	34.855	
8,600.00	8,479.94	8,522.19	8,479.94	18.10	14.35	-90.40	-576.87	-1,888.42	1,047.01	1,016.85	30.16	34.718	
8,700.00	8,579.94	8,622.19	8,579.94	18.14	14.43	-90.40	-576.87	-1,888.42	1,047.01	1,016.73	30.28	34.582	
8,800.00	8,679.94	8,722.19	8,679.94	18.18	14.51	-90.40	-576.87	-1,888.42	1,047.01	1,016.61	30.40	34.446	
8,900.00	8,779.94	8,822.19	8,779.94	18.23	14.59	-90.40	-576.87	-1,888.42	1,047.01	1,016.49	30.51	34.311	
9,000.00	8,879.94	8,922.19	8,879.94	18.27	14.66	-90.40	-576.87	-1,888.42	1,047.01	1,016.37	30.63	34.177	
9,100.00	8,979.94	9,022.19	8,979.94	18.32	14.74	-90.40	-576.87	-1,888.42	1,047.01	1,016.25	30.76	34.043	
9,200.00	9,079.94	9,122.19	9,079.94	18.36	14.82	-90.40	-576.87	-1,888.42	1,047.01	1,016.13	30.88	33.910	
9,300.00	9,179.94	9,222.19	9,179.94	18.41	14.90	-90.40	-576.87	-1,888.42	1,047.01	1,016.01	31.00	33.778	
9,400.00	9,279.94	9,322.19	9,279.94	18.45	14.98	-90.40	-576.87	-1,888.42	1,047.01	1,015.89	31.12	33.646	
9,500.00	9,379.94	9,422.19	9,379.94	18.50	15.05	-90.40	-576.87	-1,888.42	1,047.01	1,015.77	31.24	33.515	
9,600.00	9,479.94	9,522.19	9,479.94	18.54	15.13	-90.40	-576.87	-1,888.42	1,047.01	1,015.64	31.36	33.384	
9,700.00	9,579.94	9,622.19	9,579.94	18.59	15.21	-90.40	-576.87	-1,888.42	1,047.01	1,015.52	31.48	33.255	
9,800.00	9,679.94	9,722.19	9,679.94	18.64	15.29	-90.40	-576.87	-1,888.42	1,047.01	1,015.40	31.61	33.125	
9,900.00	9,779.94	9,822.19	9,779.94	18.68	15.37	-90.40	-576.87	-1,888.42	1,047.01	1,015.27	31.73	32.997	
10,000.00	9,879.94	9,922.19	9,879.94	18.73	15.45	-90.40	-576.87	-1,888.42	1,047.01	1,015.15	31.85	32.869	
10,100.00	9,979.94	10,022.19	9,979.94	18.78	15.52	-90.40	-576.87	-1,888.42	1,047.01	1,015.03	31.98	32.742	
10,200.00	10,079.94	10,122.19	10,079.94	18.82	15.60	-90.40	-576.87	-1,888.42	1,047.01	1,014.90	32.10	32.615	
10,300.00	10,179.94	10,222.19	10,179.94	18.87	15.68	-90.40	-576.87	-1,888.42	1,047.01	1,014.78	32.23	32.489	
10,400.00	10,279.94	10,322.19	10,279.94	18.92	15.76	-90.40	-576.87	-1,888.42	1,047.01	1,014.65	32.35	32.364	
10,500.00	10,379.94	10,422.19	10,379.94	18.97	15.84	-90.40	-576.87	-1,888.42	1,047.01	1,014.53	32.48	32.240	
10,600.00	10,479.94	10,522.19	10,479.94	19.02	15.92	-90.40	-576.87	-1,888.42	1,047.01	1,014.40	32.60	32.116	
10,700.00	10,579.94	10,622.19	10,579.94	19.07	15.99	-90.40	-576.87	-1,888.42	1,047.01	1,014.28	32.73	31.992	
10,800.00	10,679.94	10,722.19	10,679.94	19.11	16.07	-90.40	-576.87	-1,888.42	1,047.01	1,014.15	32.85	31.870	
10,900.00	10,779.94	10,822.19	10,779.94	19.16	16.15	-90.40	-576.87	-1,888.42	1,047.01	1,014.03	32.98	31.748	
11,000.00	10,879.94	10,922.19	10,879.94	19.21	16.23	-90.40	-576.87	-1,888.42	1,047.01	1,013.90	33.11	31.626	
11,100.00	10,979.94	11,022.19	10,979.94	19.26	16.31	-90.40	-576.87	-1,888.42	1,047.01	1,013.77	33.23	31.506	
11,200.00	11,079.94	11,122.19	11,079.94	19.31	16.39	-90.40	-576.87	-1,888.42	1,047.01	1,013.65	33.36	31.386	
11,300.00	11,179.94	11,222.19	11,179.94	19.36	16.47	-90.40	-576.87	-1,888.42	1,047.01	1,013.52	33.49	31.266	
11,400.00	11,279.94	11,322.19	11,279.94	19.41	16.54	-90.40	-576.87	-1,888.42	1,047.01	1,013.39	33.61	31.148	
11,500.00	11,379.94	11,422.19	11,379.94	19.46	16.62	-90.40	-576.87	-1,888.42	1,047.01	1,013.26	33.74	31.029	
11,600.00	11,479.94	11,522.19	11,479.94	19.51	16.70	-90.40	-576.87	-1,888.42	1,047.01	1,013.14	33.87	30.912	
11,700.00	11,579.94	11,622.25	11,580.00	19.56	16.78	-90.43	-577.46	-1,888.41	1,047.00	1,013.04	33.97	30.823	
11,718.99	11,598.94	11,641.23	11,598.94	19.57	16.79	-90.49	-578.63	-1,888.40	1,047.00	1,013.03	33.97	30.821	CC

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 132H - OH - Plan 2

Offset Site Error: 0.00 usft

Survey Program: 204-MWD+HRGM+SAG+FDIR (rev.5), 1043-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
11,800.00	11,679.94	11,720.59	11,677.37	19.61	16.85	-91.13	-590.31	-1,888.30	1,047.07	1,013.14	33.94	30.854	
11,900.00	11,779.94	11,812.07	11,764.75	19.67	16.91	-92.59	-617.04	-1,888.07	1,047.82	1,013.97	33.84	30.960	
12,000.00	11,879.94	11,893.35	11,837.97	19.72	16.96	-94.51	-652.19	-1,887.77	1,050.42	1,016.66	33.76	31.114	
12,100.00	11,979.48	11,967.04	11,899.45	19.84	17.01	83.60	-692.72	-1,887.42	1,055.39	1,021.63	33.76	31.260	
12,200.00	12,076.09	12,037.82	11,953.14	20.05	17.07	81.30	-738.76	-1,887.03	1,061.79	1,027.82	33.97	31.261	
12,300.00	12,166.83	12,100.00	11,995.31	20.32	17.13	79.29	-784.41	-1,886.63	1,068.99	1,034.57	34.42	31.056	
12,400.00	12,248.94	12,173.38	12,038.37	20.67	17.22	77.27	-843.77	-1,886.12	1,076.28	1,041.26	35.01	30.741	
12,500.00	12,319.94	12,239.10	12,070.22	21.11	17.31	75.65	-901.22	-1,885.63	1,083.15	1,047.32	35.82	30.238	
12,600.00	12,377.66	12,300.00	12,093.68	21.65	17.42	74.37	-957.38	-1,885.14	1,089.08	1,052.28	36.80	29.595	
12,700.00	12,420.35	12,368.10	12,112.69	22.29	17.56	73.37	-1,022.73	-1,884.58	1,093.65	1,055.80	37.85	28.891	
12,800.00	12,446.71	12,431.87	12,123.34	23.03	17.72	72.78	-1,085.56	-1,884.04	1,096.58	1,057.59	38.99	28.124	
12,900.04	12,455.95	12,497.86	12,126.99	23.86	17.92	72.56	-1,151.42	-1,883.47	1,097.68	1,057.54	40.14	27.348	
13,000.00	12,456.48	12,597.82	12,127.86	24.75	18.28	72.58	-1,251.37	-1,882.61	1,097.61	1,056.28	41.33	26.558	
13,100.00	12,457.00	12,697.82	12,128.74	25.69	18.72	72.60	-1,351.37	-1,881.75	1,097.54	1,054.89	42.65	25.734	
13,200.00	12,457.53	12,797.82	12,129.61	26.67	19.24	72.61	-1,451.36	-1,880.89	1,097.48	1,053.39	44.09	24.892	
13,300.00	12,458.05	12,897.82	12,130.48	27.68	19.83	72.63	-1,551.35	-1,880.03	1,097.41	1,051.77	45.64	24.046	
13,400.00	12,458.58	12,997.82	12,131.35	28.73	20.50	72.65	-1,651.34	-1,879.17	1,097.34	1,050.06	47.29	23.206	
13,500.00	12,459.11	13,097.82	12,132.22	29.80	21.23	72.67	-1,751.33	-1,878.31	1,097.28	1,048.25	49.03	22.382	
13,600.00	12,459.63	13,197.82	12,133.09	30.90	22.03	72.69	-1,851.33	-1,877.45	1,097.21	1,046.37	50.85	21.580	
13,700.00	12,460.16	13,297.82	12,133.96	32.01	22.88	72.70	-1,951.32	-1,876.59	1,097.15	1,044.41	52.74	20.804	
13,800.00	12,460.69	13,397.82	12,134.84	33.15	23.78	72.72	-2,051.31	-1,875.72	1,097.08	1,042.39	54.69	20.058	
13,900.00	12,461.21	13,497.82	12,135.71	34.30	24.73	72.74	-2,151.30	-1,874.86	1,097.01	1,040.30	56.71	19.344	
14,000.00	12,461.74	13,597.82	12,136.58	35.46	25.72	72.76	-2,251.29	-1,874.00	1,096.95	1,038.17	58.78	18.663	
14,100.00	12,462.26	13,697.82	12,137.45	36.64	26.74	72.77	-2,351.29	-1,873.14	1,096.88	1,035.99	60.89	18.014	
14,200.00	12,462.79	13,797.82	12,138.32	37.84	27.79	72.79	-2,451.28	-1,872.28	1,096.82	1,033.77	63.05	17.397	
14,300.00	12,463.32	13,897.82	12,139.19	39.04	28.87	72.81	-2,551.27	-1,871.42	1,096.75	1,031.51	65.24	16.811	
14,400.00	12,463.84	13,997.81	12,140.06	40.25	29.98	72.83	-2,651.26	-1,870.56	1,096.69	1,029.22	67.47	16.255	
14,500.00	12,464.37	14,097.81	12,140.94	41.48	31.10	72.85	-2,751.25	-1,869.70	1,096.62	1,026.90	69.73	15.727	
14,600.00	12,464.90	14,197.81	12,141.81	42.71	32.25	72.86	-2,851.24	-1,868.84	1,096.56	1,024.55	72.01	15.227	
14,700.00	12,465.42	14,297.81	12,142.68	43.95	33.41	72.88	-2,951.24	-1,867.98	1,096.49	1,022.17	74.32	14.753	
14,800.00	12,465.95	14,397.81	12,143.55	45.19	34.59	72.90	-3,051.23	-1,867.11	1,096.43	1,019.77	76.65	14.303	
14,900.00	12,466.47	14,497.81	12,144.42	46.45	35.78	72.92	-3,151.22	-1,866.25	1,096.36	1,017.36	79.01	13.877	
15,000.00	12,467.00	14,597.81	12,145.29	47.71	36.99	72.94	-3,251.21	-1,865.39	1,096.30	1,014.92	81.38	13.471	
15,100.00	12,467.53	14,697.81	12,146.16	48.97	38.21	72.95	-3,351.20	-1,864.53	1,096.23	1,012.47	83.77	13.087	
15,200.00	12,468.05	14,797.81	12,147.04	50.24	39.43	72.97	-3,451.20	-1,863.67	1,096.17	1,010.00	86.17	12.721	
15,300.00	12,468.58	14,897.81	12,147.91	51.52	40.67	72.99	-3,551.19	-1,862.81	1,096.10	1,007.51	88.59	12.373	
15,400.00	12,469.10	14,997.81	12,148.78	52.80	41.91	73.01	-3,651.18	-1,861.95	1,096.04	1,005.02	91.02	12.041	
15,500.00	12,469.63	15,097.81	12,149.65	54.08	43.17	73.02	-3,751.17	-1,861.09	1,095.98	1,002.51	93.47	11.726	
15,600.00	12,470.16	15,197.81	12,150.52	55.37	44.43	73.04	-3,851.16	-1,860.23	1,095.91	999.99	95.92	11.425	
15,700.00	12,470.68	15,297.81	12,151.39	56.66	45.69	73.06	-3,951.16	-1,859.37	1,095.85	997.46	98.39	11.138	
15,800.00	12,471.21	15,397.81	12,152.26	57.95	46.96	73.08	-4,051.15	-1,858.50	1,095.78	994.92	100.86	10.864	
15,900.00	12,471.74	15,497.81	12,153.14	59.25	48.24	73.10	-4,151.14	-1,857.64	1,095.72	992.38	103.34	10.603	
16,000.00	12,472.26	15,597.80	12,154.01	60.55	49.52	73.11	-4,251.13	-1,856.78	1,095.66	989.82	105.84	10.352	
16,100.00	12,472.79	15,697.80	12,154.88	61.86	50.81	73.13	-4,351.12	-1,855.92	1,095.59	987.26	108.34	10.113	
16,200.00	12,473.31	15,797.80	12,155.75	63.16	52.10	73.15	-4,451.12	-1,855.06	1,095.53	984.69	110.84	9.884	
16,300.00	12,473.84	15,897.80	12,156.62	64.47	53.40	73.17	-4,551.11	-1,854.20	1,095.47	982.11	113.36	9.664	
16,400.00	12,474.37	15,997.80	12,157.49	65.78	54.70	73.18	-4,651.10	-1,853.34	1,095.40	979.53	115.88	9.453	
16,500.00	12,474.89	16,097.80	12,158.36	67.10	56.00	73.20	-4,751.09	-1,852.48	1,095.34	976.94	118.40	9.251	
16,600.00	12,475.42	16,197.80	12,159.24	68.41	57.30	73.22	-4,851.08	-1,851.62	1,095.28	974.34	120.94	9.057	
16,700.00	12,475.94	16,297.80	12,160.11	69.73	58.61	73.24	-4,951.07	-1,850.76	1,095.22	971.74	123.47	8.870	
16,800.00	12,476.47	16,397.80	12,160.98	71.05	59.92	73.26	-5,051.07	-1,849.89	1,095.15	969.14	126.01	8.691	
16,900.00	12,477.00	16,497.80	12,161.85	72.37	61.24	73.27	-5,151.06	-1,849.03	1,095.09	966.53	128.56	8.518	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 132H - OH - Plan 2

Offset Site Error: 0.00 usft

Survey Program: 204-MWD+HRGM+SAG+FDIR (rev.5), 1043-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
17,000.00	12,477.52	16,597.80	12,162.72	73.70	62.55	73.29	-5,251.05	-1,848.17	1,095.03	963.92	131.11	8.352	
17,100.00	12,478.05	16,697.80	12,163.59	75.02	63.87	73.31	-5,351.04	-1,847.31	1,094.97	961.30	133.67	8.192	
17,200.00	12,478.58	16,797.80	12,164.46	76.35	65.19	73.33	-5,451.03	-1,846.45	1,094.90	958.68	136.23	8.037	
17,300.00	12,479.10	16,897.80	12,165.33	77.68	66.52	73.35	-5,551.03	-1,845.59	1,094.84	956.05	138.79	7.889	
17,400.00	12,479.63	16,997.80	12,166.21	79.01	67.84	73.36	-5,651.02	-1,844.73	1,094.78	953.42	141.35	7.745	
17,500.00	12,480.15	17,097.80	12,167.08	80.34	69.17	73.38	-5,751.01	-1,843.87	1,094.72	950.79	143.92	7.606	
17,600.00	12,480.68	17,197.80	12,167.95	81.67	70.50	73.40	-5,851.00	-1,843.01	1,094.66	948.16	146.50	7.472	
17,700.00	12,481.21	17,297.79	12,168.82	83.00	71.83	73.42	-5,950.99	-1,842.15	1,094.59	945.52	149.07	7.343	
17,800.00	12,481.73	17,397.79	12,169.69	84.34	73.16	73.44	-6,050.99	-1,841.29	1,094.53	942.88	151.65	7.217	
17,900.00	12,482.26	17,497.79	12,170.56	85.67	74.49	73.45	-6,150.98	-1,840.42	1,094.47	940.23	154.24	7.096	
18,000.00	12,482.79	17,597.79	12,171.43	87.01	75.82	73.47	-6,250.97	-1,839.56	1,094.41	937.59	156.82	6.979	
18,100.00	12,483.31	17,697.79	12,172.31	88.35	77.16	73.49	-6,350.96	-1,838.70	1,094.35	934.94	159.41	6.865	
18,200.00	12,483.84	17,797.79	12,173.18	89.68	78.49	73.51	-6,450.95	-1,837.84	1,094.29	932.29	162.00	6.755	
18,300.00	12,484.36	17,897.79	12,174.05	91.02	79.83	73.52	-6,550.95	-1,836.98	1,094.23	929.64	164.59	6.648	
18,400.00	12,484.89	17,997.79	12,174.92	92.36	81.17	73.54	-6,650.94	-1,836.12	1,094.16	926.98	167.18	6.545	
18,500.00	12,485.42	18,097.79	12,175.79	93.70	82.51	73.56	-6,750.93	-1,835.26	1,094.10	924.32	169.78	6.444	
18,600.00	12,485.94	18,197.79	12,176.66	95.05	83.85	73.58	-6,850.92	-1,834.40	1,094.04	921.66	172.38	6.347	
18,700.00	12,486.47	18,297.79	12,177.53	96.39	85.19	73.60	-6,950.91	-1,833.54	1,093.98	919.00	174.98	6.252	
18,800.00	12,486.99	18,397.79	12,178.41	97.73	86.53	73.61	-7,050.90	-1,832.68	1,093.92	916.34	177.58	6.160	
18,900.00	12,487.52	18,497.79	12,179.28	99.07	87.88	73.63	-7,150.90	-1,831.81	1,093.86	913.67	180.19	6.071	
19,000.00	12,488.05	18,597.79	12,180.15	100.42	89.22	73.65	-7,250.89	-1,830.95	1,093.80	911.00	182.80	5.984	
19,100.00	12,488.57	18,697.79	12,181.02	101.76	90.57	73.67	-7,350.88	-1,830.09	1,093.74	908.34	185.40	5.899	
19,200.00	12,489.10	18,797.79	12,181.89	103.11	91.91	73.69	-7,450.87	-1,829.23	1,093.68	905.67	188.01	5.817	
19,300.00	12,489.63	18,897.79	12,182.76	104.46	93.26	73.70	-7,550.86	-1,828.37	1,093.62	902.99	190.63	5.737	
19,400.00	12,490.15	18,997.78	12,183.63	105.80	94.61	73.72	-7,650.86	-1,827.51	1,093.56	900.32	193.24	5.659	
19,500.00	12,490.68	19,097.78	12,184.51	107.15	95.95	73.74	-7,750.85	-1,826.65	1,093.50	897.65	195.86	5.583	
19,600.00	12,491.20	19,197.78	12,185.38	108.50	97.30	73.76	-7,850.84	-1,825.79	1,093.44	894.97	198.47	5.509	
19,700.00	12,491.73	19,297.78	12,186.25	109.85	98.65	73.78	-7,950.83	-1,824.93	1,093.38	892.29	201.09	5.437	
19,800.00	12,492.26	19,397.78	12,187.12	111.20	100.00	73.79	-8,050.82	-1,824.07	1,093.32	889.61	203.71	5.367	
19,900.00	12,492.78	19,497.78	12,187.99	112.55	101.35	73.81	-8,150.82	-1,823.20	1,093.26	886.93	206.33	5.299	
20,000.00	12,493.31	19,597.78	12,188.86	113.90	102.70	73.83	-8,250.81	-1,822.34	1,093.20	884.25	208.95	5.232	
20,100.00	12,493.84	19,697.78	12,189.73	115.25	104.05	73.85	-8,350.80	-1,821.48	1,093.14	881.57	211.58	5.167	
20,200.00	12,494.36	19,797.78	12,190.61	116.60	105.40	73.87	-8,450.79	-1,820.62	1,093.08	878.88	214.20	5.103	
20,300.00	12,494.89	19,897.78	12,191.48	117.95	106.76	73.88	-8,550.78	-1,819.76	1,093.03	876.20	216.83	5.041	
20,400.00	12,495.41	19,997.78	12,192.35	119.30	108.11	73.90	-8,650.77	-1,818.90	1,092.97	873.51	219.45	4.980	
20,500.00	12,495.94	20,097.78	12,193.22	120.65	109.46	73.92	-8,750.77	-1,818.04	1,092.91	870.82	222.08	4.921	
20,600.00	12,496.47	20,197.78	12,194.09	122.01	110.81	73.94	-8,850.76	-1,817.18	1,092.85	868.14	224.71	4.863	
20,700.00	12,496.99	20,297.78	12,194.96	123.36	112.17	73.96	-8,950.75	-1,816.32	1,092.79	865.45	227.34	4.807	
20,800.00	12,497.52	20,397.78	12,195.83	124.71	113.52	73.97	-9,050.74	-1,815.46	1,092.73	862.76	229.98	4.752	
20,900.00	12,498.04	20,497.78	12,196.70	126.07	114.88	73.99	-9,150.73	-1,814.59	1,092.67	860.07	232.61	4.697	
21,000.00	12,498.57	20,597.77	12,197.58	127.42	116.23	74.01	-9,250.73	-1,813.73	1,092.62	857.37	235.24	4.645	
21,100.00	12,499.10	20,697.77	12,198.45	128.77	117.59	74.03	-9,350.72	-1,812.87	1,092.56	854.68	237.88	4.593	
21,200.00	12,499.62	20,797.77	12,199.32	130.13	118.94	74.04	-9,450.71	-1,812.01	1,092.50	851.99	240.51	4.542	
21,300.00	12,500.15	20,897.77	12,200.19	131.48	120.30	74.06	-9,550.70	-1,811.15	1,092.44	849.29	243.15	4.493	
21,400.00	12,500.68	20,997.77	12,201.06	132.84	121.65	74.08	-9,650.69	-1,810.29	1,092.38	846.59	245.79	4.444	
21,500.00	12,501.20	21,097.77	12,201.93	134.20	123.01	74.10	-9,750.69	-1,809.43	1,092.33	843.90	248.43	4.397	
21,600.00	12,501.73	21,197.77	12,202.80	135.55	124.37	74.12	-9,850.68	-1,808.57	1,092.27	841.20	251.07	4.350	
21,700.00	12,502.25	21,297.77	12,203.68	136.91	125.73	74.13	-9,950.67	-1,807.71	1,092.21	838.50	253.71	4.305	
21,800.00	12,502.78	21,397.77	12,204.55	138.26	127.08	74.15	-10,050.66	-1,806.85	1,092.15	835.80	256.35	4.260	
21,900.00	12,503.31	21,497.77	12,205.42	139.62	128.44	74.17	-10,150.65	-1,805.98	1,092.10	833.10	258.99	4.217	
22,000.00	12,503.83	21,597.77	12,206.29	140.98	129.80	74.19	-10,250.65	-1,805.12	1,092.04	830.40	261.64	4.174	
22,100.00	12,504.36	21,697.77	12,207.16	142.33	131.16	74.21	-10,350.64	-1,804.26	1,091.98	827.70	264.28	4.132	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 132H - OH - Plan 2

Offset Site Error: 0.00 usft

Survey Program: 204-MWD+HRGM+SAG+FDIR (rev.5), 1043-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
22,200.00	12,504.89	21,797.77	12,208.03	143.69	132.51	74.22	-10,450.63	-1,803.40	1,091.93	825.00	266.93	4.091	
22,300.00	12,505.41	21,897.77	12,208.90	145.05	133.87	74.24	-10,550.62	-1,802.54	1,091.87	822.29	269.57	4.050	
22,400.00	12,505.94	21,997.77	12,209.78	146.41	135.23	74.26	-10,650.61	-1,801.68	1,091.81	819.59	272.22	4.011	
22,500.00	12,506.46	22,097.77	12,210.65	147.76	136.59	74.28	-10,750.60	-1,800.82	1,091.76	816.89	274.87	3.972	
22,600.00	12,506.99	22,197.77	12,211.52	149.12	137.95	74.30	-10,850.60	-1,799.96	1,091.70	814.18	277.52	3.934	
22,700.00	12,507.52	22,297.76	12,212.39	150.48	139.31	74.31	-10,950.59	-1,799.10	1,091.64	811.47	280.17	3.896	
22,800.00	12,508.04	22,397.76	12,213.26	151.84	140.67	74.33	-11,050.58	-1,798.24	1,091.59	808.77	282.82	3.860	
22,828.36	12,508.19	22,425.19	12,213.50	152.22	141.04	74.34	-11,078.00	-1,798.00	1,091.57	808.01	283.56	3.850	
22,830.04	12,508.20	22,425.19	12,213.50	152.25	141.04	74.34	-11,078.00	-1,798.00	1,091.57	807.98	283.59	3.849	ES, SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
0.00	0.00	0.00	0.00	0.50	0.50	-45.00	25.00	-25.00	35.36				
100.00	100.00	100.00	100.00	0.98	0.98	-45.00	25.00	-25.00	35.36	33.39	1.96	18.018	
200.00	200.00	200.00	200.00	1.56	1.56	-45.00	25.00	-25.00	35.36	32.23	3.12	11.324	
300.00	300.00	300.00	300.00	1.98	1.98	-45.00	25.00	-25.00	35.36	31.39	3.96	8.923	
400.00	400.00	400.00	400.00	2.33	2.33	-45.00	25.00	-25.00	35.36	30.70	4.66	7.589	
500.00	500.00	500.00	500.00	2.63	2.63	-45.00	25.00	-25.00	35.36	30.09	5.27	6.710	CC
600.00	599.99	599.99	599.99	2.97	2.91	116.88	25.00	-25.00	35.93	30.11	5.82	6.170	
700.00	699.91	699.91	699.91	3.26	3.16	122.16	25.00	-25.00	37.87	31.53	6.33	5.979	
800.00	799.69	800.14	800.13	3.54	3.45	128.12	23.91	-25.74	41.17	34.35	6.82	6.033	
900.00	899.32	900.52	900.43	3.65	3.70	132.15	20.65	-27.96	44.98	37.83	7.16	6.283	
1,000.00	998.94	1,001.07	1,000.75	3.87	3.95	132.95	15.19	-31.67	47.77	40.19	7.58	6.302	
1,100.00	1,098.56	1,101.24	1,100.56	4.07	4.05	131.63	8.09	-36.50	49.59	41.72	7.87	6.298	
1,200.00	1,198.18	1,201.21	1,200.15	4.28	4.24	130.27	0.88	-41.40	51.38	43.12	8.26	6.220	
1,300.00	1,297.78	1,301.39	1,299.92	4.39	4.34	122.81	-6.58	-46.53	53.03	44.59	8.44	6.281	
1,400.00	1,397.24	1,401.76	1,399.64	4.60	4.58	111.72	-15.74	-53.23	53.45	44.61	8.84	6.044	
1,500.00	1,496.46	1,502.10	1,499.00	4.82	4.81	103.56	-26.82	-61.70	52.47	43.23	9.24	5.679	
1,600.00	1,595.38	1,602.22	1,597.81	5.04	4.93	97.55	-39.55	-71.70	50.15	40.59	9.55	5.249	
1,700.00	1,693.92	1,702.16	1,696.38	5.27	5.12	95.31	-52.50	-81.90	46.92	36.93	9.99	4.698	
1,800.00	1,792.04	1,802.01	1,794.86	5.49	5.32	97.49	-65.44	-92.10	43.07	32.62	10.45	4.120	
1,900.00	1,889.64	1,901.70	1,893.18	5.71	5.51	104.93	-78.36	-102.28	39.38	28.41	10.97	3.591	
2,000.00	1,986.68	2,001.16	1,991.28	5.94	5.71	118.27	-91.25	-112.44	37.45	25.93	11.52	3.252	
2,007.66	1,994.09	2,008.77	1,998.78	5.95	5.72	119.60	-92.24	-113.22	37.44	25.88	11.56	3.240	ES
2,100.00	2,083.28	2,100.44	2,089.19	6.11	5.90	135.74	-104.12	-122.58	39.17	27.18	11.99	3.268	
2,200.00	2,179.88	2,199.70	2,187.10	6.34	6.10	150.82	-116.98	-132.72	44.27	31.85	12.42	3.565	
2,300.00	2,276.47	2,298.96	2,285.00	6.61	6.30	162.20	-129.84	-142.86	51.76	38.95	12.81	4.040	
2,400.00	2,373.06	2,398.23	2,382.90	6.90	6.49	170.50	-142.71	-153.00	60.76	47.56	13.20	4.603	
2,500.00	2,469.65	2,497.49	2,480.81	7.20	6.69	176.57	-155.57	-163.13	70.69	57.09	13.60	5.198	
2,600.00	2,566.24	2,596.76	2,578.71	7.50	6.89	-178.88	-168.43	-173.27	81.22	67.20	14.01	5.797	
2,700.00	2,662.84	2,696.02	2,676.61	7.82	7.09	-175.40	-181.30	-183.41	92.13	77.70	14.43	6.383	
2,800.00	2,759.43	2,795.28	2,774.52	8.13	7.32	-172.65	-194.16	-193.55	103.31	88.44	14.87	6.948	
2,900.00	2,856.02	2,894.55	2,872.42	8.45	7.54	-170.45	-207.02	-203.69	114.68	99.37	15.31	7.491	
3,000.00	2,952.61	2,993.81	2,970.33	8.78	7.77	-168.64	-219.89	-213.83	126.19	110.43	15.76	8.009	
3,100.00	3,049.20	3,093.08	3,068.23	9.10	8.00	-167.14	-232.75	-223.96	137.80	121.59	16.21	8.501	
3,200.00	3,145.79	3,192.34	3,166.13	9.43	8.23	-165.87	-245.62	-234.10	149.49	132.82	16.67	8.970	
3,300.00	3,242.39	3,291.61	3,264.04	9.77	8.46	-164.78	-258.48	-244.24	161.24	144.11	17.13	9.415	
3,400.00	3,338.98	3,390.87	3,361.94	10.10	8.70	-163.85	-271.34	-254.38	173.04	155.45	17.59	9.837	
3,500.00	3,435.57	3,490.13	3,459.84	10.44	8.93	-163.03	-284.21	-264.52	184.88	166.82	18.06	10.239	
3,600.00	3,532.16	3,589.40	3,557.75	10.78	9.16	-162.31	-297.07	-274.65	196.76	178.23	18.53	10.620	
3,700.00	3,628.75	3,688.66	3,655.65	11.12	9.39	-161.67	-309.93	-284.79	208.66	189.66	19.00	10.984	
3,800.00	3,725.34	3,787.93	3,753.55	11.46	9.63	-161.11	-322.80	-294.93	220.58	201.11	19.47	11.329	
3,900.00	3,821.94	3,887.19	3,851.46	11.80	9.86	-160.60	-335.66	-305.07	232.52	212.58	19.94	11.658	
4,000.00	3,918.53	3,986.45	3,949.36	12.14	10.09	-160.14	-348.52	-315.21	244.48	224.06	20.42	11.972	
4,100.00	4,015.12	4,085.72	4,047.27	12.49	10.33	-159.72	-361.39	-325.34	256.45	235.55	20.90	12.271	
4,200.00	4,111.71	4,184.98	4,145.17	12.83	10.56	-159.34	-374.25	-335.48	268.44	247.06	21.38	12.557	
4,300.00	4,208.30	4,284.25	4,243.07	13.18	10.80	-158.99	-387.11	-345.62	280.43	258.57	21.86	12.830	
4,400.00	4,304.90	4,383.51	4,340.98	13.53	11.03	-158.67	-399.98	-355.76	292.44	270.10	22.34	13.091	
4,500.00	4,401.49	4,482.78	4,438.88	13.88	11.27	-158.38	-412.84	-365.90	304.45	281.63	22.82	13.341	
4,600.00	4,498.08	4,582.04	4,536.78	14.23	11.50	-158.11	-425.71	-376.04	316.47	293.17	23.30	13.580	
4,700.00	4,594.67	4,681.30	4,634.69	14.58	11.74	-157.86	-438.57	-386.17	328.50	304.71	23.79	13.809	
4,800.00	4,691.26	4,780.57	4,732.59	14.93	11.97	-157.62	-451.43	-396.31	340.53	316.26	24.27	14.031	
4,900.00	4,788.20	4,879.97	4,830.63	15.26	12.21	-157.38	-464.31	-406.46	351.32	326.55	24.77	14.184	
5,000.00	4,885.74	4,979.57	4,928.87	15.57	12.44	-156.98	-477.22	-416.64	359.72	334.45	25.27	14.237	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
5,100.00	4,983.82	5,079.32	5,027.24	15.85	12.68	-156.43	-490.15	-426.82	365.74	339.98	25.76	14.196	
5,200.00	5,082.39	5,179.13	5,125.69	16.10	12.92	-155.71	-503.08	-437.02	369.42	343.16	26.26	14.068	
5,300.00	5,181.35	5,278.95	5,224.15	16.32	13.16	-154.83	-516.02	-447.21	370.79	344.03	26.76	13.858	
5,400.00	5,280.66	5,377.27	5,321.12	16.52	13.37	-153.78	-528.71	-457.22	369.94	342.72	27.22	13.591	
5,500.00	5,380.25	5,470.88	5,413.71	16.68	13.56	-152.78	-539.54	-465.75	368.05	340.39	27.66	13.308	
5,600.00	5,480.03	5,564.66	5,506.77	16.82	13.75	-151.86	-548.60	-472.89	365.59	337.53	28.06	13.028	
5,700.00	5,579.96	5,658.59	5,600.25	16.93	13.91	-151.01	-555.87	-478.62	362.54	334.12	28.43	12.754	
5,800.00	5,679.94	5,752.68	5,694.08	16.99	14.05	88.68	-561.34	-482.94	358.88	330.19	28.69	12.510	
5,900.00	5,779.94	5,846.98	5,788.25	17.03	14.17	89.26	-565.00	-485.82	355.75	326.87	28.87	12.321	
6,000.00	5,879.94	5,941.44	5,882.69	17.07	14.26	89.55	-566.84	-487.27	354.19	325.20	29.00	12.215	
6,066.71	5,946.66	6,005.41	5,946.66	17.09	14.29	89.59	-567.07	-487.45	354.00	324.96	29.04	12.190	
6,100.00	5,979.94	6,038.70	5,979.94	17.10	14.30	89.59	-567.07	-487.45	354.00	324.94	29.06	12.181	
6,200.00	6,079.94	6,138.70	6,079.94	17.14	14.33	89.59	-567.07	-487.45	354.00	324.87	29.13	12.152	
6,300.00	6,179.94	6,238.70	6,179.94	17.17	14.36	89.59	-567.07	-487.45	354.00	324.80	29.20	12.123	
6,400.00	6,279.94	6,338.70	6,279.94	17.21	14.40	89.59	-567.07	-487.45	354.00	324.73	29.27	12.093	
6,500.00	6,379.94	6,438.70	6,379.94	17.25	14.43	89.59	-567.07	-487.45	354.00	324.66	29.34	12.064	
6,600.00	6,479.94	6,538.70	6,479.94	17.29	14.47	89.59	-567.07	-487.45	354.00	324.58	29.42	12.035	
6,700.00	6,579.94	6,638.70	6,579.94	17.32	14.51	89.59	-567.07	-487.45	354.00	324.51	29.49	12.005	
6,800.00	6,679.94	6,738.70	6,679.94	17.36	14.54	89.59	-567.07	-487.45	354.00	324.44	29.56	11.975	
6,900.00	6,779.94	6,838.70	6,779.94	17.40	14.58	89.59	-567.07	-487.45	354.00	324.36	29.64	11.945	
7,000.00	6,879.94	6,938.70	6,879.94	17.44	14.61	89.59	-567.07	-487.45	354.00	324.29	29.71	11.915	
7,100.00	6,979.94	7,038.70	6,979.94	17.48	14.65	89.59	-567.07	-487.45	354.00	324.21	29.79	11.885	
7,200.00	7,079.94	7,138.70	7,079.94	17.52	14.69	89.59	-567.07	-487.45	354.00	324.14	29.86	11.854	
7,300.00	7,179.94	7,238.70	7,179.94	17.56	14.73	89.59	-567.07	-487.45	354.00	324.06	29.94	11.824	
7,400.00	7,279.94	7,338.70	7,279.94	17.60	14.77	89.59	-567.07	-487.45	354.00	323.98	30.02	11.793	
7,500.00	7,379.94	7,438.70	7,379.94	17.64	14.80	89.59	-567.07	-487.45	354.00	323.90	30.10	11.762	
7,600.00	7,479.94	7,538.70	7,479.94	17.68	14.84	89.59	-567.07	-487.45	354.00	323.82	30.17	11.732	
7,700.00	7,579.94	7,638.70	7,579.94	17.72	14.88	89.59	-567.07	-487.45	354.00	323.74	30.25	11.701	
7,800.00	7,679.94	7,738.70	7,679.94	17.76	14.92	89.59	-567.07	-487.45	354.00	323.66	30.33	11.670	
7,900.00	7,779.94	7,838.70	7,779.94	17.80	14.96	89.59	-567.07	-487.45	354.00	323.58	30.42	11.639	
8,000.00	7,879.94	7,938.70	7,879.94	17.84	15.00	89.59	-567.07	-487.45	354.00	323.50	30.50	11.607	
8,100.00	7,979.94	8,038.70	7,979.94	17.88	15.05	89.59	-567.07	-487.45	354.00	323.42	30.58	11.576	
8,200.00	8,079.94	8,138.70	8,079.94	17.93	15.09	89.59	-567.07	-487.45	354.00	323.34	30.66	11.545	
8,300.00	8,179.94	8,238.70	8,179.94	17.97	15.13	89.59	-567.07	-487.45	354.00	323.25	30.75	11.513	
8,400.00	8,279.94	8,338.70	8,279.94	18.01	15.17	89.59	-567.07	-487.45	354.00	323.17	30.83	11.482	
8,500.00	8,379.94	8,438.70	8,379.94	18.05	15.21	89.59	-567.07	-487.45	354.00	323.08	30.92	11.450	
8,600.00	8,479.94	8,538.70	8,479.94	18.10	15.26	89.59	-567.07	-487.45	354.00	323.00	31.00	11.419	
8,700.00	8,579.94	8,638.70	8,579.94	18.14	15.30	89.59	-567.07	-487.45	354.00	322.91	31.09	11.387	
8,800.00	8,679.94	8,738.70	8,679.94	18.18	15.34	89.59	-567.07	-487.45	354.00	322.82	31.17	11.355	
8,900.00	8,779.94	8,838.70	8,779.94	18.23	15.39	89.59	-567.07	-487.45	354.00	322.74	31.26	11.324	
9,000.00	8,879.94	8,938.70	8,879.94	18.27	15.43	89.59	-567.07	-487.45	354.00	322.65	31.35	11.292	
9,100.00	8,979.94	9,038.70	8,979.94	18.32	15.47	89.59	-567.07	-487.45	354.00	322.56	31.44	11.260	
9,200.00	9,079.94	9,138.70	9,079.94	18.36	15.52	89.59	-567.07	-487.45	354.00	322.47	31.53	11.228	
9,300.00	9,179.94	9,238.70	9,179.94	18.41	15.56	89.59	-567.07	-487.45	354.00	322.38	31.62	11.196	
9,400.00	9,279.94	9,338.70	9,279.94	18.45	15.61	89.59	-567.07	-487.45	354.00	322.29	31.71	11.164	
9,500.00	9,379.94	9,438.70	9,379.94	18.50	15.65	89.59	-567.07	-487.45	354.00	322.20	31.80	11.132	
9,600.00	9,479.94	9,538.70	9,479.94	18.54	15.70	89.59	-567.07	-487.45	354.00	322.11	31.89	11.100	
9,700.00	9,579.94	9,638.70	9,579.94	18.59	15.75	89.59	-567.07	-487.45	354.00	322.02	31.98	11.068	
9,800.00	9,679.94	9,738.70	9,679.94	18.64	15.79	89.59	-567.07	-487.45	354.00	321.92	32.08	11.036	
9,900.00	9,779.94	9,838.70	9,779.94	18.68	15.84	89.59	-567.07	-487.45	354.00	321.83	32.17	11.004	
10,000.00	9,879.94	9,938.70	9,879.94	18.73	15.89	89.59	-567.07	-487.45	354.00	321.74	32.26	10.972	
10,100.00	9,979.94	10,038.70	9,979.94	18.78	15.93	89.59	-567.07	-487.45	354.00	321.64	32.36	10.940	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
10,200.00	10,079.94	10,138.70	10,079.94	18.82	15.98	89.59	-567.07	-487.45	354.00	321.55	32.45	10.908	
10,300.00	10,179.94	10,238.70	10,179.94	18.87	16.03	89.59	-567.07	-487.45	354.00	321.45	32.55	10.876	
10,400.00	10,279.94	10,338.70	10,279.94	18.92	16.08	89.59	-567.07	-487.45	354.00	321.36	32.64	10.844	
10,500.00	10,379.94	10,438.70	10,379.94	18.97	16.13	89.59	-567.07	-487.45	354.00	321.26	32.74	10.812	
10,600.00	10,479.94	10,538.70	10,479.94	19.02	16.18	89.59	-567.07	-487.45	354.00	321.16	32.84	10.781	
10,700.00	10,579.94	10,638.70	10,579.94	19.07	16.23	89.59	-567.07	-487.45	354.00	321.06	32.93	10.749	
10,800.00	10,679.94	10,738.70	10,679.94	19.11	16.28	89.59	-567.07	-487.45	354.00	320.97	33.03	10.717	
10,900.00	10,779.94	10,838.70	10,779.94	19.16	16.33	89.59	-567.07	-487.45	354.00	320.87	33.13	10.685	
11,000.00	10,879.94	10,938.70	10,879.94	19.21	16.38	89.59	-567.07	-487.45	354.00	320.77	33.23	10.653	
11,100.00	10,979.94	11,038.70	10,979.94	19.26	16.43	89.59	-567.07	-487.45	354.00	320.67	33.33	10.621	
11,200.00	11,079.94	11,138.70	11,079.94	19.31	16.48	89.59	-567.07	-487.45	354.00	320.57	33.43	10.589	
11,300.00	11,179.94	11,238.70	11,179.94	19.36	16.53	89.59	-567.07	-487.45	354.00	320.47	33.53	10.557	
11,400.00	11,279.94	11,338.70	11,279.94	19.41	16.58	89.59	-567.07	-487.45	354.00	320.37	33.63	10.526	
11,500.00	11,379.94	11,438.70	11,379.94	19.46	16.63	89.59	-567.07	-487.45	354.00	320.27	33.73	10.494	
11,600.00	11,479.94	11,538.70	11,479.94	19.51	16.67	89.59	-567.07	-487.45	354.00	320.17	33.83	10.465	
11,700.00	11,579.94	11,640.06	11,581.02	19.56	16.78	90.54	-572.97	-487.63	353.83	319.84	33.99	10.411	
11,742.06	11,622.00	11,681.72	11,622.00	19.58	16.86	91.75	-580.42	-487.86	353.75	319.62	34.13	10.366	
11,800.00	11,679.94	11,736.94	11,675.28	19.61	16.99	94.09	-594.85	-488.30	354.07	319.68	34.39	10.296	
11,900.00	11,779.94	11,824.34	11,756.07	19.67	17.25	99.41	-627.95	-489.31	357.73	322.66	35.06	10.203	
12,000.00	11,879.94	11,900.00	11,821.25	19.72	17.53	105.39	-666.24	-490.48	368.72	332.59	36.12	10.207	
12,100.00	11,979.48	11,968.43	11,875.40	19.84	17.84	-66.85	-707.99	-491.76	387.31	349.70	37.61	10.297	
12,200.00	12,076.09	12,034.21	11,922.41	20.05	18.19	-60.42	-753.93	-493.16	409.20	369.77	39.44	10.376	
12,300.00	12,166.83	12,100.00	11,963.85	20.32	18.59	-54.88	-804.96	-494.72	431.95	390.55	41.40	10.434	
12,400.00	12,248.94	12,160.84	11,996.73	20.67	19.03	-50.51	-856.09	-496.28	453.61	410.22	43.39	10.454	
12,500.00	12,319.94	12,222.48	12,024.33	21.11	19.52	-47.00	-911.15	-497.96	472.75	427.53	45.22	10.454	
12,600.00	12,377.66	12,283.38	12,045.63	21.65	20.04	-44.34	-968.15	-499.70	488.31	441.50	46.81	10.431	
12,700.00	12,420.35	12,350.00	12,061.86	22.29	20.65	-42.35	-1,032.69	-501.68	499.60	451.48	48.12	10.383	
12,800.00	12,446.71	12,400.00	12,069.05	23.03	21.14	-41.31	-1,082.13	-503.19	505.94	456.88	49.06	10.313	
12,900.04	12,455.95	12,468.62	12,072.05	23.86	21.82	-40.76	-1,150.62	-505.24	507.06	457.30	49.76	10.190	
13,000.00	12,456.48	12,558.23	12,072.67	24.75	22.75	-40.63	-1,240.22	-506.11	505.71	455.29	50.42	10.030	
13,100.00	12,457.00	12,657.20	12,073.36	25.69	23.80	-40.64	-1,339.18	-505.23	505.58	454.37	51.20	9.874	
13,200.00	12,457.53	12,757.20	12,074.06	26.67	24.89	-40.65	-1,439.17	-504.32	505.45	453.40	52.06	9.710	
13,300.00	12,458.05	12,857.20	12,074.76	27.68	26.00	-40.67	-1,539.17	-503.41	505.33	452.36	52.97	9.541	
13,400.00	12,458.58	12,957.20	12,075.46	28.73	27.14	-40.68	-1,639.16	-502.51	505.20	451.27	53.93	9.368	
13,500.00	12,459.11	13,057.20	12,076.16	29.80	28.30	-40.69	-1,739.15	-501.60	505.07	450.13	54.94	9.193	
13,600.00	12,459.63	13,157.20	12,076.86	30.90	29.47	-40.71	-1,839.15	-500.69	504.95	448.94	56.00	9.016	
13,700.00	12,460.16	13,257.20	12,077.55	32.01	30.66	-40.72	-1,939.14	-499.79	504.82	447.71	57.11	8.839	
13,800.00	12,460.69	13,357.20	12,078.25	33.15	31.87	-40.73	-2,039.13	-498.88	504.70	446.44	58.26	8.663	
13,900.00	12,461.21	13,457.20	12,078.95	34.30	33.08	-40.75	-2,139.13	-497.97	504.57	445.12	59.45	8.487	
14,000.00	12,461.74	13,557.19	12,079.65	35.46	34.31	-40.76	-2,239.12	-497.07	504.45	443.76	60.68	8.313	
14,100.00	12,462.26	13,657.19	12,080.35	36.64	35.55	-40.77	-2,339.11	-496.16	504.32	442.37	61.95	8.141	
14,200.00	12,462.79	13,757.19	12,081.05	37.84	36.80	-40.79	-2,439.11	-495.25	504.20	440.95	63.25	7.972	
14,300.00	12,463.32	13,857.19	12,081.74	39.04	38.05	-40.80	-2,539.10	-494.35	504.07	439.49	64.58	7.806	
14,400.00	12,463.84	13,957.19	12,082.44	40.25	39.31	-40.81	-2,639.09	-493.44	503.94	438.01	65.94	7.643	
14,500.00	12,464.37	14,057.19	12,083.14	41.48	40.58	-40.83	-2,739.09	-492.53	503.82	436.49	67.33	7.483	
14,600.00	12,464.90	14,157.19	12,083.84	42.71	41.86	-40.84	-2,839.08	-491.63	503.69	434.95	68.75	7.327	
14,700.00	12,465.42	14,257.19	12,084.54	43.95	43.14	-40.85	-2,939.07	-490.72	503.57	433.38	70.19	7.175	
14,800.00	12,465.95	14,357.19	12,085.23	45.19	44.42	-40.87	-3,039.07	-489.81	503.44	431.79	71.65	7.026	
14,900.00	12,466.47	14,457.19	12,085.93	46.45	45.71	-40.88	-3,139.06	-488.91	503.32	430.18	73.14	6.882	
15,000.00	12,467.00	14,557.19	12,086.63	47.71	47.01	-40.89	-3,239.05	-488.00	503.19	428.54	74.65	6.741	
15,100.00	12,467.53	14,657.19	12,087.33	48.97	48.30	-40.91	-3,339.05	-487.09	503.07	426.89	76.18	6.604	
15,200.00	12,468.05	14,757.19	12,088.03	50.24	49.61	-40.92	-3,439.04	-486.18	502.94	425.22	77.73	6.471	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
15,300.00	12,468.58	14,857.19	12,088.73	51.52	50.91	-40.93	-3,539.03	-485.28	502.82	423.53	79.29	6.341	
15,400.00	12,469.10	14,957.19	12,089.42	52.80	52.22	-40.95	-3,639.03	-484.37	502.69	421.82	80.87	6.216	
15,500.00	12,469.63	15,057.19	12,090.12	54.08	53.53	-40.96	-3,739.02	-483.46	502.57	420.10	82.47	6.094	
15,600.00	12,470.16	15,157.19	12,090.82	55.37	54.85	-40.97	-3,839.01	-482.56	502.44	418.36	84.08	5.976	
15,700.00	12,470.68	15,257.19	12,091.52	56.66	56.16	-40.99	-3,939.01	-481.65	502.32	416.61	85.71	5.861	
15,800.00	12,471.21	15,357.19	12,092.22	57.95	57.48	-41.00	-4,039.00	-480.74	502.19	414.84	87.35	5.749	
15,900.00	12,471.74	15,457.19	12,092.92	59.25	58.81	-41.01	-4,138.99	-479.84	502.07	413.06	89.00	5.641	
16,000.00	12,472.26	15,557.19	12,093.61	60.55	60.13	-41.03	-4,238.99	-478.93	501.94	411.27	90.67	5.536	
16,100.00	12,472.79	15,657.19	12,094.31	61.86	61.46	-41.04	-4,338.98	-478.02	501.82	409.47	92.35	5.434	
16,200.00	12,473.31	15,757.19	12,095.01	63.16	62.78	-41.06	-4,438.97	-477.12	501.69	407.66	94.04	5.335	
16,300.00	12,473.84	15,857.19	12,095.71	64.47	64.11	-41.07	-4,538.97	-476.21	501.57	405.83	95.73	5.239	
16,400.00	12,474.37	15,957.19	12,096.41	65.78	65.44	-41.08	-4,638.96	-475.30	501.44	404.00	97.44	5.146	
16,500.00	12,474.89	16,057.19	12,097.11	67.10	66.77	-41.10	-4,738.95	-474.40	501.32	402.16	99.16	5.056	
16,600.00	12,475.42	16,157.19	12,097.80	68.41	68.11	-41.11	-4,838.95	-473.49	501.19	400.31	100.89	4.968	
16,700.00	12,475.94	16,257.19	12,098.50	69.73	69.44	-41.12	-4,938.94	-472.58	501.07	398.44	102.62	4.883	
16,800.00	12,476.47	16,357.19	12,099.20	71.05	70.78	-41.14	-5,038.93	-471.68	500.94	396.58	104.37	4.800	
16,900.00	12,477.00	16,457.19	12,099.90	72.37	72.12	-41.15	-5,138.93	-470.77	500.82	394.70	106.12	4.719	
17,000.00	12,477.52	16,557.19	12,100.60	73.70	73.46	-41.16	-5,238.92	-469.86	500.69	392.82	107.88	4.641	
17,100.00	12,478.05	16,657.19	12,101.29	75.02	74.80	-41.18	-5,338.91	-468.96	500.57	390.92	109.64	4.565	
17,200.00	12,478.58	16,757.19	12,101.99	76.35	76.14	-41.19	-5,438.91	-468.05	500.44	389.03	111.42	4.492	
17,300.00	12,479.10	16,857.19	12,102.69	77.68	77.48	-41.20	-5,538.90	-467.14	500.32	387.12	113.20	4.420	
17,400.00	12,479.63	16,957.19	12,103.39	79.01	78.82	-41.22	-5,638.89	-466.23	500.20	385.21	114.99	4.350	
17,500.00	12,480.15	17,057.19	12,104.09	80.34	80.17	-41.23	-5,738.89	-465.33	500.07	383.29	116.78	4.282	
17,600.00	12,480.68	17,157.19	12,104.79	81.67	81.51	-41.25	-5,838.88	-464.42	499.95	381.37	118.58	4.216	
17,700.00	12,481.21	17,257.19	12,105.48	83.00	82.86	-41.26	-5,938.87	-463.51	499.82	379.44	120.38	4.152	
17,800.00	12,481.73	17,357.19	12,106.18	84.34	84.20	-41.27	-6,038.87	-462.61	499.70	377.51	122.19	4.089	
17,900.00	12,482.26	17,457.19	12,106.88	85.67	85.55	-41.29	-6,138.86	-461.70	499.57	375.57	124.01	4.029	
18,000.00	12,482.79	17,557.19	12,107.58	87.01	86.90	-41.30	-6,238.85	-460.79	499.45	373.62	125.83	3.969	
18,100.00	12,483.31	17,657.19	12,108.28	88.35	88.24	-41.31	-6,338.85	-459.89	499.32	371.67	127.65	3.912	
18,200.00	12,483.84	17,757.19	12,108.98	89.68	89.59	-41.33	-6,438.84	-458.98	499.20	369.72	129.48	3.855	
18,300.00	12,484.36	17,857.19	12,109.67	91.02	90.94	-41.34	-6,538.83	-458.07	499.08	367.76	131.31	3.801	
18,400.00	12,484.89	17,957.19	12,110.37	92.36	92.29	-41.36	-6,638.83	-457.17	498.95	365.80	133.15	3.747	
18,500.00	12,485.42	18,057.19	12,111.07	93.70	93.64	-41.37	-6,738.82	-456.26	498.83	363.83	135.00	3.695	
18,600.00	12,485.94	18,157.19	12,111.77	95.05	94.99	-41.38	-6,838.81	-455.35	498.70	361.86	136.84	3.644	
18,700.00	12,486.47	18,257.19	12,112.47	96.39	96.35	-41.40	-6,938.81	-454.45	498.58	359.88	138.69	3.595	
18,800.00	12,486.99	18,357.19	12,113.16	97.73	97.70	-41.41	-7,038.80	-453.54	498.45	357.90	140.55	3.546	
18,900.00	12,487.52	18,457.19	12,113.86	99.07	99.05	-41.42	-7,138.79	-452.63	498.33	355.92	142.41	3.499	
19,000.00	12,488.05	18,557.19	12,114.56	100.42	100.40	-41.44	-7,238.79	-451.73	498.21	353.93	144.27	3.453	
19,100.00	12,488.57	18,657.19	12,115.26	101.76	101.76	-41.45	-7,338.78	-450.82	498.08	351.94	146.14	3.408	
19,200.00	12,489.10	18,757.19	12,115.96	103.11	103.11	-41.46	-7,438.77	-449.91	497.96	349.95	148.01	3.364	
19,300.00	12,489.63	18,857.19	12,116.66	104.46	104.47	-41.48	-7,538.77	-449.01	497.83	347.95	149.88	3.322	
19,400.00	12,490.15	18,957.19	12,117.35	105.80	105.82	-41.49	-7,638.76	-448.10	497.71	345.95	151.76	3.280	
19,500.00	12,490.68	19,057.19	12,118.05	107.15	107.18	-41.51	-7,738.75	-447.19	497.59	343.95	153.63	3.239	
19,600.00	12,491.20	19,157.19	12,118.75	108.50	108.53	-41.52	-7,838.75	-446.29	497.46	341.94	155.52	3.199	
19,700.00	12,491.73	19,257.19	12,119.45	109.85	109.89	-41.53	-7,938.74	-445.38	497.34	339.94	157.40	3.160	
19,800.00	12,492.26	19,357.19	12,120.15	111.20	111.24	-41.55	-8,038.73	-444.47	497.21	337.92	159.29	3.121	
19,900.00	12,492.78	19,457.19	12,120.85	112.55	112.60	-41.56	-8,138.73	-443.56	497.09	335.91	161.18	3.084	
20,000.00	12,493.31	19,557.19	12,121.54	113.90	113.96	-41.58	-8,238.72	-442.66	496.97	333.89	163.08	3.047	
20,100.00	12,493.84	19,657.19	12,122.24	115.25	115.31	-41.59	-8,338.71	-441.75	496.84	331.87	164.97	3.012	
20,200.00	12,494.36	19,757.19	12,122.94	116.60	116.67	-41.60	-8,438.71	-440.84	496.72	329.85	166.87	2.977	
20,300.00	12,494.89	19,857.19	12,123.64	117.95	118.03	-41.62	-8,538.70	-439.94	496.59	327.82	168.77	2.942	
20,400.00	12,495.41	19,957.19	12,124.34	119.30	119.39	-41.63	-8,638.69	-439.03	496.47	325.79	170.68	2.909	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
20,500.00	12,495.94	20,057.19	12,125.03	120.65	120.74	-41.64	-8,738.69	-438.12	496.35	323.76	172.58	2.876	
20,600.00	12,496.47	20,157.19	12,125.73	122.01	122.10	-41.66	-8,838.68	-437.22	496.22	321.73	174.49	2.844	
20,700.00	12,496.99	20,257.19	12,126.43	123.36	123.46	-41.67	-8,938.67	-436.31	496.10	319.69	176.41	2.812	
20,800.00	12,497.52	20,357.19	12,127.13	124.71	124.82	-41.69	-9,038.67	-435.40	495.98	317.66	178.32	2.781	
20,900.00	12,498.04	20,457.18	12,127.83	126.07	126.18	-41.70	-9,138.66	-434.50	495.85	315.62	180.24	2.751	
21,000.00	12,498.57	20,557.18	12,128.53	127.42	127.54	-41.71	-9,238.65	-433.59	495.73	313.57	182.16	2.721	
21,100.00	12,499.10	20,657.18	12,129.22	128.77	128.90	-41.73	-9,338.65	-432.68	495.61	311.53	184.08	2.692	
21,200.00	12,499.62	20,757.18	12,129.92	130.13	130.26	-41.74	-9,438.64	-431.78	495.48	309.48	186.00	2.664	
21,300.00	12,500.15	20,857.18	12,130.62	131.48	131.62	-41.76	-9,538.63	-430.87	495.36	307.43	187.92	2.636	
21,400.00	12,500.68	20,957.18	12,131.32	132.84	132.98	-41.77	-9,638.63	-429.96	495.24	305.38	189.85	2.609	
21,500.00	12,501.20	21,057.18	12,132.02	134.20	134.34	-41.78	-9,738.62	-429.06	495.11	303.33	191.78	2.582	
21,600.00	12,501.73	21,157.18	12,132.72	135.55	135.70	-41.80	-9,838.61	-428.15	494.99	301.28	193.71	2.555	
21,700.00	12,502.25	21,257.18	12,133.41	136.91	137.06	-41.81	-9,938.61	-427.24	494.87	299.22	195.65	2.529	
21,800.00	12,502.78	21,357.18	12,134.11	138.26	138.42	-41.82	-10,038.60	-426.34	494.74	297.16	197.58	2.504	
21,900.00	12,503.31	21,457.18	12,134.81	139.62	139.78	-41.84	-10,138.59	-425.43	494.62	295.10	199.52	2.479	
22,000.00	12,503.83	21,557.18	12,135.51	140.98	141.14	-41.85	-10,238.59	-424.52	494.50	293.04	201.46	2.455	
22,100.00	12,504.36	21,657.18	12,136.21	142.33	142.50	-41.87	-10,338.58	-423.61	494.37	290.97	203.40	2.431	
22,200.00	12,504.89	21,757.18	12,136.91	143.69	143.87	-41.88	-10,438.57	-422.71	494.25	288.91	205.34	2.407	
22,300.00	12,505.41	21,857.18	12,137.60	145.05	145.23	-41.89	-10,538.57	-421.80	494.13	286.84	207.29	2.384	
22,400.00	12,505.94	21,957.18	12,138.30	146.41	146.59	-41.91	-10,638.56	-420.89	494.00	284.77	209.23	2.361	
22,500.00	12,506.46	22,057.18	12,139.00	147.76	147.95	-41.92	-10,738.55	-419.99	493.88	282.70	211.18	2.339	
22,600.00	12,506.99	22,157.18	12,139.70	149.12	149.31	-41.94	-10,838.55	-419.08	493.76	280.63	213.13	2.317	
22,700.00	12,507.52	22,257.18	12,140.40	150.48	150.68	-41.95	-10,938.54	-418.17	493.63	278.55	215.08	2.295	
22,800.00	12,508.04	22,357.18	12,141.09	151.84	152.04	-41.96	-11,038.53	-417.27	493.51	276.48	217.03	2.274	
22,830.04	12,508.20	22,387.22	12,141.30	152.25	152.45	-41.97	-11,068.57	-416.99	493.47	275.85	217.62	2.268	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	0.00	0.00	0.50	0.50	-169.51	-135.00	-25.00	137.30				
100.00	100.00	100.00	100.00	0.98	0.97	-169.51	-135.00	-25.00	137.30	135.34	1.95	70.374	
200.00	200.00	200.00	200.00	1.56	1.55	-169.51	-135.00	-25.00	137.30	134.18	3.12	44.073	
300.00	300.00	300.00	300.00	1.98	1.98	-169.51	-135.00	-25.00	137.30	133.34	3.96	34.699	
400.00	400.00	400.00	400.00	2.33	2.32	-169.51	-135.00	-25.00	137.30	132.64	4.65	29.500	
500.00	500.00	500.00	500.00	2.63	2.63	-169.51	-135.00	-25.00	137.30	132.03	5.26	26.078	
600.00	599.99	599.99	599.99	2.97	2.91	-9.60	-135.00	-25.00	136.00	130.13	5.87	23.161	
700.00	699.91	699.91	699.91	3.26	3.16	-9.90	-135.00	-25.00	132.14	125.72	6.42	20.582	
800.00	799.69	799.69	799.69	3.54	3.40	-10.43	-135.00	-25.00	125.70	118.76	6.93	18.130	
900.00	899.32	899.32	899.32	3.65	3.62	-11.19	-135.00	-25.00	117.28	110.01	7.27	16.142	
1,000.00	998.94	998.94	998.94	3.87	3.83	-12.08	-135.00	-25.00	108.74	101.05	7.69	14.144	
1,100.00	1,098.56	1,098.56	1,098.56	4.07	4.03	-13.13	-135.00	-25.00	100.23	92.13	8.10	12.378	
1,200.00	1,198.18	1,198.18	1,198.18	4.28	4.23	-14.36	-135.00	-25.00	91.76	83.27	8.50	10.802	
1,300.00	1,297.78	1,297.78	1,297.78	4.39	4.41	-22.25	-135.00	-25.00	83.25	74.46	8.79	9.475	
1,400.00	1,397.24	1,396.34	1,396.34	4.60	4.49	-35.87	-135.28	-25.00	74.46	65.39	9.07	8.209	
1,500.00	1,496.46	1,493.95	1,493.92	4.82	4.67	-49.40	-137.71	-25.00	67.79	58.35	9.44	7.183	
1,600.00	1,595.38	1,591.61	1,591.45	5.04	4.85	-63.94	-142.64	-25.00	64.69	54.91	9.78	6.614	
1,617.75	1,612.89	1,608.93	1,608.73	5.08	4.88	-66.61	-143.77	-25.00	64.61	54.78	9.83	6.570	CC, ES
1,700.00	1,693.92	1,689.17	1,688.73	5.27	4.98	-78.94	-150.05	-25.00	66.40	56.36	10.05	6.610	
1,800.00	1,792.04	1,786.23	1,785.36	5.49	5.11	-93.83	-159.05	-23.73	73.82	63.49	10.32	7.150	
1,900.00	1,889.64	1,881.98	1,880.53	5.71	5.25	-107.27	-168.86	-20.25	87.90	77.25	10.65	8.253	
2,000.00	1,986.68	1,976.90	1,974.70	5.94	5.34	-118.04	-179.47	-14.74	108.66	97.71	10.95	9.920	
2,100.00	2,083.28	2,072.80	2,069.77	6.11	5.47	-125.14	-190.41	-8.64	133.29	122.00	11.29	11.808	
2,200.00	2,179.88	2,168.68	2,164.83	6.34	5.62	-129.84	-201.34	-2.55	159.21	147.52	11.69	13.623	
2,300.00	2,276.47	2,264.56	2,259.89	6.61	5.77	-133.22	-212.27	3.55	185.85	173.77	12.09	15.378	
2,400.00	2,373.06	2,360.44	2,354.95	6.90	5.92	-135.76	-223.21	9.64	212.96	200.47	12.49	17.055	
2,500.00	2,469.65	2,456.32	2,450.02	7.20	6.08	-137.72	-234.14	15.74	240.36	227.47	12.89	18.649	
2,600.00	2,566.24	2,552.20	2,545.08	7.50	6.23	-139.28	-245.08	21.83	267.97	254.68	13.29	20.159	
2,700.00	2,662.84	2,648.08	2,640.14	7.82	6.39	-140.55	-256.01	27.92	295.73	282.03	13.70	21.588	
2,800.00	2,759.43	2,743.96	2,735.20	8.13	6.55	-141.61	-266.94	34.02	323.61	309.50	14.11	22.940	
2,900.00	2,856.02	2,839.84	2,830.26	8.45	6.71	-142.49	-277.88	40.11	351.57	337.05	14.52	24.218	
3,000.00	2,952.61	2,935.72	2,925.32	8.78	6.87	-143.25	-288.81	46.21	379.59	364.66	14.93	25.426	
3,100.00	3,049.20	3,031.61	3,020.38	9.10	7.04	-143.90	-299.74	52.30	407.67	392.33	15.34	26.570	
3,200.00	3,145.79	3,127.49	3,115.44	9.43	7.20	-144.47	-310.68	58.40	435.79	420.03	15.76	27.653	
3,300.00	3,242.39	3,223.37	3,210.50	9.77	7.37	-144.97	-321.61	64.49	463.94	447.77	16.18	28.680	
3,400.00	3,338.98	3,319.25	3,305.56	10.10	7.53	-145.41	-332.55	70.58	492.13	475.53	16.60	29.653	
3,500.00	3,435.57	3,415.13	3,400.62	10.44	7.70	-145.80	-343.48	76.68	520.34	503.32	17.02	30.576	
3,600.00	3,532.16	3,511.01	3,495.68	10.78	7.87	-146.16	-354.41	82.77	548.56	531.12	17.44	31.454	
3,700.00	3,628.75	3,606.89	3,590.74	11.12	8.04	-146.48	-365.35	88.87	576.81	558.95	17.86	32.288	
3,800.00	3,725.34	3,702.77	3,685.80	11.46	8.20	-146.77	-376.28	94.96	605.07	586.78	18.29	33.082	
3,900.00	3,821.94	3,798.65	3,780.86	11.80	8.37	-147.03	-387.22	101.06	633.34	614.63	18.72	33.838	
4,000.00	3,918.53	3,894.53	3,875.92	12.14	8.54	-147.27	-398.15	107.15	661.63	642.48	19.15	34.558	
4,100.00	4,015.12	3,990.41	3,970.98	12.49	8.71	-147.49	-409.08	113.24	689.92	670.35	19.57	35.245	
4,200.00	4,111.71	4,086.29	4,066.04	12.83	8.89	-147.70	-420.02	119.34	718.23	698.22	20.01	35.902	
4,300.00	4,208.30	4,182.18	4,161.10	13.18	9.06	-147.88	-430.95	125.43	746.54	726.10	20.44	36.529	
4,400.00	4,304.90	4,278.06	4,256.16	13.53	9.23	-148.06	-441.88	131.53	774.86	753.99	20.87	37.128	
4,500.00	4,401.49	4,373.94	4,351.22	13.88	9.40	-148.22	-452.82	137.62	803.18	781.88	21.30	37.702	
4,600.00	4,498.08	4,469.82	4,446.28	14.23	9.58	-148.37	-463.75	143.72	831.51	809.77	21.74	38.251	
4,700.00	4,594.67	4,565.70	4,541.34	14.58	9.75	-148.51	-474.69	149.81	859.85	837.67	22.17	38.778	
4,800.00	4,691.26	4,661.58	4,636.40	14.93	9.93	-148.65	-485.62	155.90	888.19	865.58	22.61	39.288	
4,900.00	4,788.20	4,757.79	4,731.79	15.26	10.10	-148.95	-496.59	162.02	915.41	892.36	23.05	39.713	
5,000.00	4,885.74	4,854.60	4,827.77	15.57	10.28	-149.14	-507.63	168.17	940.47	916.98	23.49	40.042	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	4,983.82	4,951.93	4,924.27	15.85	10.46	-149.22	-518.73	174.36	963.35	939.43	23.92	40.278	
5,200.00	5,082.39	5,049.73	5,021.22	16.10	10.63	-149.22	-529.88	180.58	984.03	959.70	24.33	40.443	
5,300.00	5,181.35	5,157.38	5,128.05	16.32	10.81	-149.13	-541.52	187.06	1,002.22	977.45	24.76	40.471	
5,400.00	5,280.66	5,270.65	5,240.79	16.52	11.02	-149.09	-551.04	192.37	1,016.88	991.68	25.20	40.357	
5,500.00	5,380.25	5,384.75	5,354.63	16.68	11.22	-149.10	-557.67	196.07	1,027.89	1,002.30	25.59	40.174	
5,600.00	5,480.03	5,499.41	5,469.21	16.82	11.41	-149.16	-561.35	198.11	1,035.23	1,009.30	25.93	39.930	
5,700.00	5,579.96	5,610.16	5,579.96	16.93	11.49	-149.27	-562.13	198.55	1,038.93	1,012.79	26.14	39.739	
5,800.00	5,679.94	5,710.15	5,679.94	16.99	11.55	89.59	-562.13	198.55	1,040.02	1,013.75	26.27	39.590	
5,900.00	5,779.94	5,810.15	5,779.94	17.03	11.60	89.59	-562.13	198.55	1,040.02	1,013.66	26.35	39.465	
6,000.00	5,879.94	5,910.15	5,879.94	17.07	11.65	89.59	-562.13	198.55	1,040.02	1,013.58	26.44	39.339	
6,100.00	5,979.94	6,010.15	5,979.94	17.10	11.70	89.59	-562.13	198.55	1,040.02	1,013.50	26.52	39.213	
6,200.00	6,079.94	6,110.15	6,079.94	17.14	11.75	89.59	-562.13	198.55	1,040.02	1,013.41	26.61	39.087	
6,300.00	6,179.94	6,210.15	6,179.94	17.17	11.81	89.59	-562.13	198.55	1,040.02	1,013.32	26.69	38.961	
6,400.00	6,279.94	6,310.15	6,279.94	17.21	11.86	89.59	-562.13	198.55	1,040.02	1,013.24	26.78	38.834	
6,500.00	6,379.94	6,410.15	6,379.94	17.25	11.91	89.59	-562.13	198.55	1,040.02	1,013.15	26.87	38.707	
6,600.00	6,479.94	6,510.15	6,479.94	17.29	11.97	89.59	-562.13	198.55	1,040.02	1,013.06	26.96	38.580	
6,700.00	6,579.94	6,610.15	6,579.94	17.32	12.02	89.59	-562.13	198.55	1,040.02	1,012.97	27.05	38.453	
6,800.00	6,679.94	6,710.15	6,679.94	17.36	12.08	89.59	-562.13	198.55	1,040.02	1,012.88	27.14	38.326	
6,900.00	6,779.94	6,810.15	6,779.94	17.40	12.13	89.59	-562.13	198.55	1,040.02	1,012.79	27.23	38.198	
7,000.00	6,879.94	6,910.15	6,879.94	17.44	12.19	89.59	-562.13	198.55	1,040.02	1,012.70	27.32	38.071	
7,100.00	6,979.94	7,010.15	6,979.94	17.48	12.24	89.59	-562.13	198.55	1,040.02	1,012.61	27.41	37.943	
7,200.00	7,079.94	7,110.15	7,079.94	17.52	12.30	89.59	-562.13	198.55	1,040.02	1,012.51	27.50	37.816	
7,300.00	7,179.94	7,210.15	7,179.94	17.56	12.36	89.59	-562.13	198.55	1,040.02	1,012.42	27.60	37.688	
7,400.00	7,279.94	7,310.15	7,279.94	17.60	12.41	89.59	-562.13	198.55	1,040.02	1,012.33	27.69	37.561	
7,500.00	7,379.94	7,410.15	7,379.94	17.64	12.47	89.59	-562.13	198.55	1,040.02	1,012.23	27.78	37.433	
7,600.00	7,479.94	7,510.15	7,479.94	17.68	12.53	89.59	-562.13	198.55	1,040.02	1,012.14	27.88	37.305	
7,700.00	7,579.94	7,610.15	7,579.94	17.72	12.58	89.59	-562.13	198.55	1,040.02	1,012.04	27.97	37.178	
7,800.00	7,679.94	7,710.15	7,679.94	17.76	12.64	89.59	-562.13	198.55	1,040.02	1,011.95	28.07	37.050	
7,900.00	7,779.94	7,810.15	7,779.94	17.80	12.70	89.59	-562.13	198.55	1,040.02	1,011.85	28.17	36.923	
8,000.00	7,879.94	7,910.15	7,879.94	17.84	12.76	89.59	-562.13	198.55	1,040.02	1,011.75	28.26	36.795	
8,100.00	7,979.94	8,010.15	7,979.94	17.88	12.82	89.59	-562.13	198.55	1,040.02	1,011.65	28.36	36.668	
8,200.00	8,079.94	8,110.15	8,079.94	17.93	12.87	89.59	-562.13	198.55	1,040.02	1,011.56	28.46	36.541	
8,300.00	8,179.94	8,210.15	8,179.94	17.97	12.93	89.59	-562.13	198.55	1,040.02	1,011.46	28.56	36.414	
8,400.00	8,279.94	8,310.15	8,279.94	18.01	12.99	89.59	-562.13	198.55	1,040.02	1,011.36	28.66	36.287	
8,500.00	8,379.94	8,410.15	8,379.94	18.05	13.05	89.59	-562.13	198.55	1,040.02	1,011.26	28.76	36.161	
8,600.00	8,479.94	8,510.15	8,479.94	18.10	13.11	89.59	-562.13	198.55	1,040.02	1,011.15	28.86	36.034	
8,700.00	8,579.94	8,610.15	8,579.94	18.14	13.17	89.59	-562.13	198.55	1,040.02	1,011.05	28.96	35.908	
8,800.00	8,679.94	8,710.15	8,679.94	18.18	13.23	89.59	-562.13	198.55	1,040.02	1,010.95	29.07	35.782	
8,900.00	8,779.94	8,810.15	8,779.94	18.23	13.29	89.59	-562.13	198.55	1,040.02	1,010.85	29.17	35.656	
9,000.00	8,879.94	8,910.15	8,879.94	18.27	13.35	89.59	-562.13	198.55	1,040.02	1,010.75	29.27	35.530	
9,100.00	8,979.94	9,010.15	8,979.94	18.32	13.41	89.59	-562.13	198.55	1,040.02	1,010.64	29.38	35.405	
9,200.00	9,079.94	9,110.15	9,079.94	18.36	13.48	89.59	-562.13	198.55	1,040.02	1,010.54	29.48	35.279	
9,300.00	9,179.94	9,210.15	9,179.94	18.41	13.54	89.59	-562.13	198.55	1,040.02	1,010.43	29.58	35.155	
9,400.00	9,279.94	9,310.15	9,279.94	18.45	13.60	89.59	-562.13	198.55	1,040.02	1,010.33	29.69	35.030	
9,500.00	9,379.94	9,410.15	9,379.94	18.50	13.66	89.59	-562.13	198.55	1,040.02	1,010.22	29.80	34.906	
9,600.00	9,479.94	9,510.15	9,479.94	18.54	13.72	89.59	-562.13	198.55	1,040.02	1,010.12	29.90	34.781	
9,700.00	9,579.94	9,610.15	9,579.94	18.59	13.78	89.59	-562.13	198.55	1,040.02	1,010.01	30.01	34.658	
9,800.00	9,679.94	9,710.15	9,679.94	18.64	13.85	89.59	-562.13	198.55	1,040.02	1,009.90	30.12	34.534	
9,900.00	9,779.94	9,810.15	9,779.94	18.68	13.91	89.59	-562.13	198.55	1,040.02	1,009.79	30.22	34.411	
10,000.00	9,879.94	9,910.15	9,879.94	18.73	13.97	89.59	-562.13	198.55	1,040.02	1,009.69	30.33	34.288	
10,100.00	9,979.94	10,010.15	9,979.94	18.78	14.04	89.59	-562.13	198.55	1,040.02	1,009.58	30.44	34.166	
10,200.00	10,079.94	10,110.15	10,079.94	18.82	14.10	89.59	-562.13	198.55	1,040.02	1,009.47	30.55	34.044	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	10,179.94	10,210.15	10,179.94	18.87	14.16	89.59	-562.13	198.55	1,040.02	1,009.36	30.66	33.922	
10,400.00	10,279.94	10,310.15	10,279.94	18.92	14.23	89.59	-562.13	198.55	1,040.02	1,009.25	30.77	33.800	
10,500.00	10,379.94	10,410.15	10,379.94	18.97	14.29	89.59	-562.13	198.55	1,040.02	1,009.14	30.88	33.679	
10,600.00	10,479.94	10,510.15	10,479.94	19.02	14.35	89.59	-562.13	198.55	1,040.02	1,009.03	30.99	33.559	
10,700.00	10,579.94	10,610.15	10,579.94	19.07	14.42	89.59	-562.13	198.55	1,040.02	1,008.91	31.10	33.438	
10,800.00	10,679.94	10,710.15	10,679.94	19.11	14.48	89.59	-562.13	198.55	1,040.02	1,008.80	31.21	33.318	
10,900.00	10,779.94	10,810.15	10,779.94	19.16	14.55	89.59	-562.13	198.55	1,040.02	1,008.69	31.33	33.199	
11,000.00	10,879.94	10,910.15	10,879.94	19.21	14.61	89.59	-562.13	198.55	1,040.02	1,008.58	31.44	33.080	
11,100.00	10,979.94	11,010.15	10,979.94	19.26	14.68	89.59	-562.13	198.55	1,040.02	1,008.46	31.55	32.961	
11,200.00	11,079.94	11,110.15	11,079.94	19.31	14.74	89.59	-562.13	198.55	1,040.02	1,008.35	31.67	32.842	
11,300.00	11,179.94	11,210.15	11,179.94	19.36	14.81	89.59	-562.13	198.55	1,040.02	1,008.24	31.78	32.724	
11,400.00	11,279.94	11,310.15	11,279.94	19.41	14.87	89.59	-562.13	198.55	1,040.02	1,008.12	31.90	32.607	
11,500.00	11,379.94	11,410.15	11,379.94	19.46	14.94	89.59	-562.13	198.55	1,040.02	1,008.01	32.01	32.490	
11,514.58	11,394.52	11,424.73	11,394.52	19.47	14.95	89.59	-562.13	198.55	1,040.02	1,007.99	32.03	32.472	
11,600.00	11,479.94	11,510.13	11,479.92	19.51	15.01	89.59	-562.16	198.55	1,040.02	1,007.89	32.13	32.371	
11,700.00	11,579.94	11,608.62	11,577.84	19.56	15.20	90.11	-571.62	198.64	1,040.08	1,007.82	32.26	32.239	
11,800.00	11,679.94	11,700.00	11,666.01	19.61	15.41	91.41	-595.26	198.85	1,040.70	1,008.20	32.50	32.022	
11,900.00	11,779.94	11,784.40	11,743.16	19.67	15.61	93.28	-629.29	199.16	1,042.96	1,010.11	32.85	31.749	
12,000.00	11,879.94	11,856.46	11,804.48	19.72	15.78	95.35	-667.04	199.50	1,048.21	1,014.91	33.30	31.475	
12,100.00	11,979.48	11,921.51	11,855.38	19.84	15.93	-81.36	-707.49	199.87	1,056.60	1,022.72	33.88	31.188	
12,200.00	12,076.09	11,984.59	11,900.04	20.05	16.10	-78.68	-751.98	200.28	1,066.63	1,031.97	34.66	30.776	
12,300.00	12,166.83	12,050.00	11,940.91	20.32	16.36	-76.10	-803.01	200.74	1,077.39	1,041.75	35.64	30.231	
12,400.00	12,248.94	12,100.00	11,968.08	20.67	16.64	-74.07	-844.96	201.12	1,088.06	1,051.31	36.74	29.615	
12,500.00	12,319.94	12,166.50	11,998.35	21.11	17.10	-72.06	-904.13	201.66	1,097.79	1,059.80	37.99	28.893	
12,600.00	12,377.66	12,225.66	12,019.36	21.65	17.56	-70.54	-959.40	202.16	1,106.07	1,066.80	39.27	28.165	
12,700.00	12,420.35	12,284.42	12,034.48	22.29	18.06	-69.43	-1,016.15	202.68	1,112.34	1,071.80	40.54	27.438	
12,800.00	12,446.71	12,350.00	12,044.40	23.03	18.65	-68.73	-1,080.94	203.26	1,116.30	1,074.47	41.83	26.686	
12,900.04	12,455.95	12,402.09	12,046.96	23.86	19.14	-68.53	-1,132.95	203.74	1,117.60	1,074.67	42.93	26.034	
13,000.00	12,456.48	12,502.05	12,047.66	24.75	20.14	-68.54	-1,232.90	204.65	1,117.54	1,073.00	44.54	25.089	
13,100.00	12,457.00	12,602.05	12,048.36	25.69	21.17	-68.55	-1,332.89	205.55	1,117.49	1,071.24	46.24	24.165	
13,200.00	12,457.53	12,702.05	12,049.05	26.67	22.24	-68.56	-1,432.89	206.46	1,117.43	1,069.41	48.02	23.269	
13,300.00	12,458.05	12,802.05	12,049.75	27.68	23.34	-68.57	-1,532.88	207.37	1,117.38	1,067.51	49.87	22.405	
13,400.00	12,458.58	12,902.05	12,050.45	28.73	24.47	-68.58	-1,632.87	208.28	1,117.33	1,065.54	51.78	21.577	
13,500.00	12,459.11	13,002.05	12,051.15	29.80	25.62	-68.58	-1,732.87	209.19	1,117.27	1,063.52	53.75	20.787	
13,600.00	12,459.63	13,102.05	12,051.85	30.90	26.80	-68.59	-1,832.86	210.10	1,117.22	1,061.45	55.76	20.035	
13,700.00	12,460.16	13,202.05	12,052.55	32.01	27.98	-68.60	-1,932.85	211.01	1,117.16	1,059.34	57.82	19.320	
13,800.00	12,460.69	13,302.05	12,053.25	33.15	29.19	-68.61	-2,032.85	211.92	1,117.11	1,057.18	59.92	18.642	
13,900.00	12,461.21	13,402.05	12,053.95	34.30	30.41	-68.62	-2,132.84	212.82	1,117.05	1,054.99	62.06	17.999	
14,000.00	12,461.74	13,502.05	12,054.65	35.46	31.64	-68.63	-2,232.83	213.73	1,117.00	1,052.77	64.23	17.391	
14,100.00	12,462.26	13,602.05	12,055.35	36.64	32.88	-68.63	-2,332.83	214.64	1,116.94	1,050.52	66.43	16.815	
14,200.00	12,462.79	13,702.05	12,056.05	37.84	34.13	-68.64	-2,432.82	215.55	1,116.89	1,048.24	68.65	16.269	
14,300.00	12,463.32	13,802.05	12,056.74	39.04	35.39	-68.65	-2,532.81	216.46	1,116.84	1,045.94	70.90	15.753	
14,400.00	12,463.84	13,902.05	12,057.44	40.25	36.66	-68.66	-2,632.81	217.37	1,116.78	1,043.61	73.17	15.263	
14,500.00	12,464.37	14,002.05	12,058.14	41.48	37.94	-68.67	-2,732.80	218.28	1,116.73	1,041.27	75.46	14.799	
14,600.00	12,464.90	14,102.05	12,058.84	42.71	39.22	-68.68	-2,832.79	219.19	1,116.67	1,038.91	77.77	14.359	
14,700.00	12,465.42	14,202.05	12,059.54	43.95	40.51	-68.68	-2,932.79	220.09	1,116.62	1,036.53	80.09	13.942	
14,800.00	12,465.95	14,302.05	12,060.24	45.19	41.80	-68.69	-3,032.78	221.00	1,116.56	1,034.13	82.43	13.545	
14,900.00	12,466.47	14,402.05	12,060.94	46.45	43.10	-68.70	-3,132.77	221.91	1,116.51	1,031.73	84.78	13.169	
15,000.00	12,467.00	14,502.05	12,061.64	47.71	44.40	-68.71	-3,232.77	222.82	1,116.46	1,029.30	87.15	12.811	
15,100.00	12,467.53	14,602.05	12,062.34	48.97	45.70	-68.72	-3,332.76	223.73	1,116.40	1,026.87	89.53	12.470	
15,200.00	12,468.05	14,702.05	12,063.04	50.24	47.01	-68.73	-3,432.75	224.64	1,116.35	1,024.43	91.92	12.145	
15,300.00	12,468.58	14,802.05	12,063.74	51.52	48.32	-68.74	-3,532.75	225.55	1,116.29	1,021.97	94.32	11.835	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	12,469.10	14,902.05	12,064.44	52.80	49.64	-68.74	-3,632.74	226.46	1,116.24	1,019.51	96.73	11.540	
15,500.00	12,469.63	15,002.05	12,065.13	54.08	50.96	-68.75	-3,732.73	227.36	1,116.19	1,017.04	99.15	11.258	
15,600.00	12,470.16	15,102.05	12,065.83	55.37	52.28	-68.76	-3,832.73	228.27	1,116.13	1,014.56	101.57	10.988	
15,700.00	12,470.68	15,202.05	12,066.53	56.66	53.60	-68.77	-3,932.72	229.18	1,116.08	1,012.07	104.01	10.731	
15,800.00	12,471.21	15,302.05	12,067.23	57.95	54.93	-68.78	-4,032.71	230.09	1,116.02	1,009.58	106.45	10.484	
15,900.00	12,471.74	15,402.05	12,067.93	59.25	56.25	-68.79	-4,132.71	231.00	1,115.97	1,007.07	108.90	10.248	
16,000.00	12,472.26	15,502.05	12,068.63	60.55	57.58	-68.79	-4,232.70	231.91	1,115.92	1,004.57	111.35	10.022	
16,100.00	12,472.79	15,602.04	12,069.33	61.86	58.91	-68.80	-4,332.69	232.82	1,115.86	1,002.05	113.81	9.805	
16,200.00	12,473.31	15,702.04	12,070.03	63.16	60.25	-68.81	-4,432.69	233.73	1,115.81	999.53	116.27	9.596	
16,300.00	12,473.84	15,802.04	12,070.73	64.47	61.58	-68.82	-4,532.68	234.63	1,115.75	997.01	118.75	9.396	
16,400.00	12,474.37	15,902.04	12,071.43	65.78	62.92	-68.83	-4,632.67	235.54	1,115.70	994.48	121.22	9.204	
16,500.00	12,474.89	16,002.04	12,072.13	67.10	64.26	-68.84	-4,732.67	236.45	1,115.65	991.95	123.70	9.019	
16,600.00	12,475.42	16,102.04	12,072.82	68.41	65.59	-68.85	-4,832.66	237.36	1,115.59	989.41	126.18	8.841	
16,700.00	12,475.94	16,202.04	12,073.52	69.73	66.94	-68.85	-4,932.65	238.27	1,115.54	986.87	128.67	8.670	
16,800.00	12,476.47	16,302.04	12,074.22	71.05	68.28	-68.86	-5,032.64	239.18	1,115.49	984.32	131.17	8.504	
16,900.00	12,477.00	16,402.04	12,074.92	72.37	69.62	-68.87	-5,132.64	240.09	1,115.43	981.77	133.66	8.345	
17,000.00	12,477.52	16,502.04	12,075.62	73.70	70.96	-68.88	-5,232.63	241.00	1,115.38	979.22	136.16	8.192	
17,100.00	12,478.05	16,602.04	12,076.32	75.02	72.31	-68.89	-5,332.62	241.90	1,115.33	976.66	138.66	8.043	
17,200.00	12,478.58	16,702.04	12,077.02	76.35	73.65	-68.90	-5,432.62	242.81	1,115.27	974.10	141.17	7.900	
17,300.00	12,479.10	16,802.04	12,077.72	77.68	75.00	-68.90	-5,532.61	243.72	1,115.22	971.54	143.68	7.762	
17,400.00	12,479.63	16,902.04	12,078.42	79.01	76.35	-68.91	-5,632.60	244.63	1,115.16	968.97	146.19	7.628	
17,500.00	12,480.15	17,002.04	12,079.12	80.34	77.69	-68.92	-5,732.60	245.54	1,115.11	966.41	148.70	7.499	
17,600.00	12,480.68	17,102.04	12,079.82	81.67	79.04	-68.93	-5,832.59	246.45	1,115.06	963.84	151.22	7.374	
17,700.00	12,481.21	17,202.04	12,080.52	83.00	80.39	-68.94	-5,932.58	247.36	1,115.00	961.26	153.74	7.252	
17,800.00	12,481.73	17,302.04	12,081.21	84.34	81.74	-68.95	-6,032.58	248.27	1,114.95	958.69	156.26	7.135	
17,900.00	12,482.26	17,402.04	12,081.91	85.67	83.09	-68.96	-6,132.57	249.17	1,114.90	956.11	158.79	7.021	
18,000.00	12,482.79	17,502.04	12,082.61	87.01	84.44	-68.96	-6,232.56	250.08	1,114.84	953.53	161.31	6.911	
18,100.00	12,483.31	17,602.04	12,083.31	88.35	85.79	-68.97	-6,332.56	250.99	1,114.79	950.95	163.84	6.804	
18,200.00	12,483.84	17,702.04	12,084.01	89.68	87.15	-68.98	-6,432.55	251.90	1,114.74	948.36	166.37	6.700	
18,300.00	12,484.36	17,802.04	12,084.71	91.02	88.50	-68.99	-6,532.54	252.81	1,114.68	945.78	168.91	6.599	
18,400.00	12,484.89	17,902.04	12,085.41	92.36	89.85	-69.00	-6,632.54	253.72	1,114.63	943.19	171.44	6.502	
18,500.00	12,485.42	18,002.04	12,086.11	93.70	91.21	-69.01	-6,732.53	254.63	1,114.58	940.60	173.98	6.406	
18,600.00	12,485.94	18,102.04	12,086.81	95.05	92.56	-69.01	-6,832.52	255.54	1,114.52	938.01	176.52	6.314	
18,700.00	12,486.47	18,202.04	12,087.51	96.39	93.92	-69.02	-6,932.52	256.44	1,114.47	935.42	179.06	6.224	
18,800.00	12,486.99	18,302.04	12,088.21	97.73	95.27	-69.03	-7,032.51	257.35	1,114.42	932.82	181.60	6.137	
18,900.00	12,487.52	18,402.04	12,088.91	99.07	96.63	-69.04	-7,132.50	258.26	1,114.36	930.22	184.14	6.052	
19,000.00	12,488.05	18,502.04	12,089.60	100.42	97.98	-69.05	-7,232.50	259.17	1,114.31	927.63	186.68	5.969	
19,100.00	12,488.57	18,602.04	12,090.30	101.76	99.34	-69.06	-7,332.49	260.08	1,114.26	925.03	189.23	5.888	
19,200.00	12,489.10	18,702.04	12,091.00	103.11	100.70	-69.07	-7,432.48	260.99	1,114.20	922.43	191.78	5.810	
19,300.00	12,489.63	18,802.04	12,091.70	104.46	102.05	-69.07	-7,532.48	261.90	1,114.15	919.83	194.33	5.733	
19,400.00	12,490.15	18,902.04	12,092.40	105.80	103.41	-69.08	-7,632.47	262.81	1,114.10	917.22	196.87	5.659	
19,500.00	12,490.68	19,002.04	12,093.10	107.15	104.77	-69.09	-7,732.46	263.71	1,114.05	914.62	199.43	5.586	
19,600.00	12,491.20	19,102.04	12,093.80	108.50	106.13	-69.10	-7,832.46	264.62	1,113.99	912.01	201.98	5.515	
19,700.00	12,491.73	19,202.04	12,094.50	109.85	107.48	-69.11	-7,932.45	265.53	1,113.94	909.41	204.53	5.446	
19,800.00	12,492.26	19,302.04	12,095.20	111.20	108.84	-69.12	-8,032.44	266.44	1,113.89	906.80	207.09	5.379	
19,900.00	12,492.78	19,402.04	12,095.90	112.55	110.20	-69.12	-8,132.44	267.35	1,113.83	904.19	209.64	5.313	
20,000.00	12,493.31	19,502.04	12,096.60	113.90	111.56	-69.13	-8,232.43	268.26	1,113.78	901.58	212.20	5.249	
20,100.00	12,493.84	19,602.04	12,097.29	115.25	112.92	-69.14	-8,332.42	269.17	1,113.73	898.97	214.76	5.186	
20,200.00	12,494.36	19,702.04	12,097.99	116.60	114.28	-69.15	-8,432.42	270.08	1,113.68	896.36	217.32	5.125	
20,300.00	12,494.89	19,802.04	12,098.69	117.95	115.64	-69.16	-8,532.41	270.98	1,113.62	893.75	219.88	5.065	
20,400.00	12,495.41	19,902.04	12,099.39	119.30	117.00	-69.17	-8,632.40	271.89	1,113.57	891.13	222.44	5.006	
20,500.00	12,495.94	20,002.04	12,100.09	120.65	118.36	-69.18	-8,732.40	272.80	1,113.52	888.52	225.00	4.949	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	12,496.47	20,102.04	12,100.79	122.01	119.72	-69.18	-8,832.39	273.71	1,113.46	885.90	227.56	4.893	
20,700.00	12,496.99	20,202.04	12,101.49	123.36	121.08	-69.19	-8,932.38	274.62	1,113.41	883.28	230.13	4.838	
20,800.00	12,497.52	20,302.04	12,102.19	124.71	122.44	-69.20	-9,032.38	275.53	1,113.36	880.67	232.69	4.785	
20,900.00	12,498.04	20,402.04	12,102.89	126.07	123.80	-69.21	-9,132.37	276.44	1,113.31	878.05	235.26	4.732	
21,000.00	12,498.57	20,502.04	12,103.59	127.42	125.16	-69.22	-9,232.36	277.35	1,113.25	875.43	237.82	4.681	
21,100.00	12,499.10	20,602.04	12,104.29	128.77	126.53	-69.23	-9,332.36	278.25	1,113.20	872.81	240.39	4.631	
21,200.00	12,499.62	20,702.04	12,104.99	130.13	127.89	-69.24	-9,432.35	279.16	1,113.15	870.19	242.96	4.582	
21,300.00	12,500.15	20,802.04	12,105.68	131.48	129.25	-69.24	-9,532.34	280.07	1,113.10	867.57	245.53	4.533	
21,400.00	12,500.68	20,902.04	12,106.38	132.84	130.61	-69.25	-9,632.34	280.98	1,113.04	864.95	248.10	4.486	
21,500.00	12,501.20	21,002.04	12,107.08	134.20	131.97	-69.26	-9,732.33	281.89	1,112.99	862.32	250.67	4.440	
21,600.00	12,501.73	21,102.04	12,107.78	135.55	133.34	-69.27	-9,832.32	282.80	1,112.94	859.70	253.24	4.395	
21,700.00	12,502.25	21,202.04	12,108.48	136.91	134.70	-69.28	-9,932.32	283.71	1,112.89	857.07	255.81	4.350	
21,800.00	12,502.78	21,302.04	12,109.18	138.26	136.06	-69.29	-10,032.31	284.61	1,112.83	854.45	258.38	4.307	
21,900.00	12,503.31	21,402.04	12,109.88	139.62	137.42	-69.29	-10,132.30	285.52	1,112.78	851.82	260.96	4.264	
22,000.00	12,503.83	21,502.04	12,110.58	140.98	138.79	-69.30	-10,232.30	286.43	1,112.73	849.20	263.53	4.222	
22,100.00	12,504.36	21,602.04	12,111.28	142.33	140.15	-69.31	-10,332.29	287.34	1,112.68	846.57	266.11	4.181	
22,200.00	12,504.89	21,702.04	12,111.98	143.69	141.51	-69.32	-10,432.28	288.25	1,112.62	843.94	268.68	4.141	
22,300.00	12,505.41	21,802.04	12,112.68	145.05	142.88	-69.33	-10,532.28	289.16	1,112.57	841.31	271.26	4.102	
22,400.00	12,505.94	21,902.04	12,113.37	146.41	144.24	-69.34	-10,632.27	290.07	1,112.52	838.68	273.83	4.063	
22,500.00	12,506.46	22,002.04	12,114.07	147.76	145.60	-69.35	-10,732.26	290.98	1,112.47	836.05	276.41	4.025	
22,600.00	12,506.99	22,102.04	12,114.77	149.12	146.97	-69.35	-10,832.26	291.88	1,112.41	833.42	278.99	3.987	
22,700.00	12,507.52	22,202.04	12,115.47	150.48	148.33	-69.36	-10,932.25	292.79	1,112.36	830.79	281.57	3.951	
22,800.00	12,508.04	22,302.03	12,116.17	151.84	149.69	-69.37	-11,032.24	293.70	1,112.31	828.17	284.14	3.915	
22,830.04	12,508.20	22,332.07	12,116.38	152.25	150.06	-69.37	-11,062.28	293.98	1,112.29	827.42	284.87	3.905	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 135H - 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
2,100.00	2,083.28	2,082.21	2,076.89	6.11	5.99	12.41	-932.91	-2,418.84	2,419.89	2,408.16	11.74	206.186	
2,200.00	2,179.88	2,177.34	2,171.20	6.34	6.18	12.85	-921.26	-2,423.14	2,394.90	2,382.77	12.13	197.517	
2,300.00	2,276.47	2,272.47	2,265.52	6.61	6.37	13.30	-909.61	-2,427.43	2,370.04	2,357.52	12.52	189.356	
2,400.00	2,373.06	2,367.60	2,359.83	6.90	6.55	13.75	-897.96	-2,431.73	2,345.32	2,332.41	12.91	181.663	
2,500.00	2,469.65	2,462.72	2,454.15	7.20	6.74	14.21	-886.30	-2,436.02	2,320.75	2,307.45	13.31	174.403	
2,600.00	2,566.24	2,557.85	2,548.46	7.50	6.92	14.68	-874.65	-2,440.32	2,296.34	2,282.63	13.71	167.542	
2,700.00	2,662.84	2,652.98	2,642.78	7.82	7.11	15.17	-863.00	-2,444.61	2,272.07	2,257.96	14.11	161.050	
2,800.00	2,759.43	2,748.11	2,737.09	8.13	7.29	15.66	-851.35	-2,448.91	2,247.97	2,233.46	14.51	154.902	
2,900.00	2,856.02	2,843.24	2,831.41	8.45	7.48	16.16	-839.70	-2,453.20	2,224.03	2,209.12	14.92	149.071	
3,000.00	2,952.61	2,938.37	2,925.72	8.78	7.66	16.67	-828.05	-2,457.50	2,200.27	2,184.94	15.33	143.537	
3,100.00	3,049.20	3,033.50	3,020.04	9.10	7.85	17.20	-816.40	-2,461.79	2,176.68	2,160.94	15.74	138.278	
3,200.00	3,145.79	3,128.62	3,114.35	9.43	8.03	17.73	-804.75	-2,466.09	2,153.28	2,137.12	16.16	133.276	
3,300.00	3,242.39	3,223.75	3,208.67	9.77	8.22	18.28	-793.09	-2,470.38	2,130.07	2,113.49	16.57	128.514	
3,400.00	3,338.98	3,318.88	3,302.98	10.10	8.40	18.84	-781.44	-2,474.68	2,107.05	2,090.05	17.00	123.977	
3,500.00	3,435.57	3,414.01	3,397.29	10.44	8.58	19.40	-769.79	-2,478.97	2,084.23	2,066.81	17.42	119.650	
3,600.00	3,532.16	3,509.14	3,491.61	10.78	8.77	19.99	-758.14	-2,483.27	2,061.62	2,043.77	17.85	115.520	
3,700.00	3,628.75	3,604.27	3,585.92	11.12	8.95	20.58	-746.49	-2,487.56	2,039.23	2,020.95	18.28	111.575	
3,800.00	3,725.34	3,699.40	3,680.24	11.46	9.14	21.18	-734.84	-2,491.85	2,017.06	1,998.35	18.71	107.804	
3,900.00	3,821.94	3,794.52	3,774.55	11.80	9.32	21.80	-723.19	-2,496.15	1,995.12	1,975.97	19.15	104.197	
4,000.00	3,918.53	3,889.65	3,868.87	12.14	9.51	22.43	-711.54	-2,500.44	1,973.41	1,953.83	19.59	100.745	
4,100.00	4,015.12	3,984.78	3,963.18	12.49	9.69	23.08	-699.89	-2,504.74	1,951.96	1,931.92	20.03	97.439	
4,200.00	4,111.71	4,079.91	4,057.50	12.83	9.88	23.74	-688.23	-2,509.03	1,930.75	1,910.27	20.48	94.271	
4,300.00	4,208.30	4,175.04	4,151.81	13.18	10.06	24.41	-676.58	-2,513.33	1,909.81	1,888.88	20.93	91.233	
4,400.00	4,304.90	4,270.17	4,246.13	13.53	10.24	25.09	-664.93	-2,517.62	1,889.14	1,867.75	21.39	88.319	
4,500.00	4,401.49	4,365.30	4,340.44	13.88	10.43	25.79	-653.28	-2,521.92	1,868.75	1,846.90	21.85	85.523	
4,600.00	4,498.08	4,460.42	4,434.76	14.23	10.61	26.51	-641.63	-2,526.21	1,848.65	1,826.34	22.32	82.839	
4,700.00	4,594.67	4,555.55	4,529.07	14.58	10.80	27.24	-629.98	-2,530.51	1,828.85	1,806.07	22.79	80.261	
4,800.00	4,691.26	4,650.68	4,623.38	14.93	10.98	27.98	-618.33	-2,534.80	1,809.36	1,786.10	23.26	77.790	
4,900.00	4,788.20	4,753.39	4,725.26	15.26	11.19	28.63	-606.07	-2,539.32	1,791.27	1,767.52	23.75	75.419	
5,000.00	4,885.74	4,866.04	4,837.31	15.57	11.41	29.26	-595.23	-2,543.32	1,774.99	1,750.77	24.22	73.273	
5,100.00	4,983.82	4,980.23	4,951.20	15.85	11.64	29.77	-587.41	-2,546.20	1,760.26	1,735.60	24.66	71.383	
5,200.00	5,082.39	5,095.66	5,066.51	16.10	11.84	30.14	-582.75	-2,547.92	1,746.95	1,721.90	25.05	69.737	
5,300.00	5,181.35	5,210.52	5,181.35	16.32	12.00	30.37	-581.36	-2,548.43	1,734.99	1,709.60	25.39	68.335	
5,400.00	5,280.66	5,309.83	5,280.66	16.52	12.09	30.49	-581.36	-2,548.43	1,724.88	1,699.19	25.69	67.140	
5,500.00	5,380.25	5,409.41	5,380.25	16.68	12.18	30.58	-581.36	-2,548.43	1,717.03	1,691.06	25.98	66.100	
5,600.00	5,480.03	5,509.20	5,480.03	16.82	12.26	30.65	-581.36	-2,548.43	1,711.45	1,685.20	26.24	65.217	
5,700.00	5,579.96	5,609.12	5,579.96	16.93	12.35	30.69	-581.36	-2,548.43	1,708.11	1,681.63	26.49	64.490	
5,800.00	5,679.94	5,709.11	5,679.94	16.99	12.44	-90.39	-581.36	-2,548.43	1,707.03	1,680.37	26.66	64.039	
5,900.00	5,779.94	5,809.11	5,779.94	17.03	12.53	-90.39	-581.36	-2,548.43	1,707.03	1,680.25	26.78	63.743	
6,000.00	5,879.94	5,909.11	5,879.94	17.07	12.61	-90.39	-581.36	-2,548.43	1,707.03	1,680.13	26.90	63.449	
6,100.00	5,979.94	6,009.11	5,979.94	17.10	12.70	-90.39	-581.36	-2,548.43	1,707.03	1,680.00	27.03	63.157	
6,200.00	6,079.94	6,109.11	6,079.94	17.14	12.79	-90.39	-581.36	-2,548.43	1,707.03	1,679.88	27.15	62.868	
6,300.00	6,179.94	6,209.11	6,179.94	17.17	12.88	-90.39	-581.36	-2,548.43	1,707.03	1,679.75	27.28	62.580	
6,400.00	6,279.94	6,309.11	6,279.94	17.21	12.96	-90.39	-581.36	-2,548.43	1,707.03	1,679.63	27.40	62.294	
6,500.00	6,379.94	6,409.11	6,379.94	17.25	13.05	-90.39	-581.36	-2,548.43	1,707.03	1,679.50	27.53	62.011	
6,600.00	6,479.94	6,509.11	6,479.94	17.29	13.14	-90.39	-581.36	-2,548.43	1,707.03	1,679.38	27.65	61.729	
6,700.00	6,579.94	6,609.11	6,579.94	17.32	13.22	-90.39	-581.36	-2,548.43	1,707.03	1,679.25	27.78	61.450	
6,800.00	6,679.94	6,709.11	6,679.94	17.36	13.31	-90.39	-581.36	-2,548.43	1,707.03	1,679.13	27.91	61.172	
6,900.00	6,779.94	6,809.11	6,779.94	17.40	13.40	-90.39	-581.36	-2,548.43	1,707.03	1,679.00	28.03	60.896	
7,000.00	6,879.94	6,909.11	6,879.94	17.44	13.48	-90.39	-581.36	-2,548.43	1,707.03	1,678.87	28.16	60.623	
7,100.00	6,979.94	7,009.11	6,979.94	17.48	13.57	-90.39	-581.36	-2,548.43	1,707.03	1,678.75	28.29	60.351	
7,200.00	7,079.94	7,109.11	7,079.94	17.52	13.66	-90.39	-581.36	-2,548.43	1,707.03	1,678.62	28.41	60.081	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 135H - 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
7,300.00	7,179.94	7,209.11	7,179.94	17.56	13.74	-90.39	-581.36	-2,548.43	1,707.03	1,678.49	28.54	59.813	
7,400.00	7,279.94	7,309.11	7,279.94	17.60	13.83	-90.39	-581.36	-2,548.43	1,707.03	1,678.36	28.67	59.546	
7,500.00	7,379.94	7,409.11	7,379.94	17.64	13.92	-90.39	-581.36	-2,548.43	1,707.03	1,678.24	28.80	59.282	
7,600.00	7,479.94	7,509.11	7,479.94	17.68	14.00	-90.39	-581.36	-2,548.43	1,707.03	1,678.11	28.92	59.019	
7,700.00	7,579.94	7,609.11	7,579.94	17.72	14.09	-90.39	-581.36	-2,548.43	1,707.03	1,677.98	29.05	58.758	
7,800.00	7,679.94	7,709.11	7,679.94	17.76	14.18	-90.39	-581.36	-2,548.43	1,707.03	1,677.85	29.18	58.499	
7,900.00	7,779.94	7,809.11	7,779.94	17.80	14.26	-90.39	-581.36	-2,548.43	1,707.03	1,677.72	29.31	58.242	
8,000.00	7,879.94	7,909.11	7,879.94	17.84	14.35	-90.39	-581.36	-2,548.43	1,707.03	1,677.59	29.44	57.987	
8,100.00	7,979.94	8,009.11	7,979.94	17.88	14.44	-90.39	-581.36	-2,548.43	1,707.03	1,677.46	29.57	57.733	
8,200.00	8,079.94	8,109.11	8,079.94	17.93	14.52	-90.39	-581.36	-2,548.43	1,707.03	1,677.33	29.70	57.481	
8,300.00	8,179.94	8,209.11	8,179.94	17.97	14.61	-90.39	-581.36	-2,548.43	1,707.03	1,677.20	29.83	57.231	
8,400.00	8,279.94	8,309.11	8,279.94	18.01	14.69	-90.39	-581.36	-2,548.43	1,707.03	1,677.07	29.96	56.982	
8,500.00	8,379.94	8,409.11	8,379.94	18.05	14.78	-90.39	-581.36	-2,548.43	1,707.03	1,676.94	30.09	56.736	
8,600.00	8,479.94	8,509.11	8,479.94	18.10	14.87	-90.39	-581.36	-2,548.43	1,707.03	1,676.81	30.22	56.490	
8,700.00	8,579.94	8,609.11	8,579.94	18.14	14.95	-90.39	-581.36	-2,548.43	1,707.03	1,676.68	30.35	56.247	
8,800.00	8,679.94	8,709.11	8,679.94	18.18	15.04	-90.39	-581.36	-2,548.43	1,707.03	1,676.55	30.48	56.005	
8,900.00	8,779.94	8,809.11	8,779.94	18.23	15.12	-90.39	-581.36	-2,548.43	1,707.03	1,676.42	30.61	55.765	
9,000.00	8,879.94	8,909.11	8,879.94	18.27	15.21	-90.39	-581.36	-2,548.43	1,707.03	1,676.29	30.74	55.527	
9,100.00	8,979.94	9,009.11	8,979.94	18.32	15.29	-90.39	-581.36	-2,548.43	1,707.03	1,676.16	30.87	55.290	
9,200.00	9,079.94	9,109.11	9,079.94	18.36	15.38	-90.39	-581.36	-2,548.43	1,707.03	1,676.02	31.01	55.054	
9,300.00	9,179.94	9,209.11	9,179.94	18.41	15.47	-90.39	-581.36	-2,548.43	1,707.03	1,675.89	31.14	54.821	
9,400.00	9,279.94	9,309.11	9,279.94	18.45	15.55	-90.39	-581.36	-2,548.43	1,707.03	1,675.76	31.27	54.588	
9,500.00	9,379.94	9,409.11	9,379.94	18.50	15.64	-90.39	-581.36	-2,548.43	1,707.03	1,675.63	31.40	54.358	
9,600.00	9,479.94	9,509.11	9,479.94	18.54	15.72	-90.39	-581.36	-2,548.43	1,707.03	1,675.49	31.54	54.129	
9,700.00	9,579.94	9,609.11	9,579.94	18.59	15.81	-90.39	-581.36	-2,548.43	1,707.03	1,675.36	31.67	53.901	
9,800.00	9,679.94	9,709.11	9,679.94	18.64	15.89	-90.39	-581.36	-2,548.43	1,707.03	1,675.23	31.80	53.675	
9,900.00	9,779.94	9,809.11	9,779.94	18.68	15.98	-90.39	-581.36	-2,548.43	1,707.03	1,675.09	31.94	53.451	
10,000.00	9,879.94	9,909.11	9,879.94	18.73	16.06	-90.39	-581.36	-2,548.43	1,707.03	1,674.96	32.07	53.228	
10,100.00	9,979.94	10,009.11	9,979.94	18.78	16.15	-90.39	-581.36	-2,548.43	1,707.03	1,674.83	32.20	53.007	
10,200.00	10,079.94	10,109.11	10,079.94	18.82	16.23	-90.39	-581.36	-2,548.43	1,707.03	1,674.69	32.34	52.787	
10,300.00	10,179.94	10,209.11	10,179.94	18.87	16.32	-90.39	-581.36	-2,548.43	1,707.03	1,674.56	32.47	52.568	
10,400.00	10,279.94	10,309.11	10,279.94	18.92	16.41	-90.39	-581.36	-2,548.43	1,707.03	1,674.42	32.61	52.351	
10,500.00	10,379.94	10,409.11	10,379.94	18.97	16.49	-90.39	-581.36	-2,548.43	1,707.03	1,674.29	32.74	52.136	
10,600.00	10,479.94	10,509.11	10,479.94	19.02	16.58	-90.39	-581.36	-2,548.43	1,707.03	1,674.15	32.88	51.922	
10,700.00	10,579.94	10,609.11	10,579.94	19.07	16.66	-90.39	-581.36	-2,548.43	1,707.03	1,674.02	33.01	51.709	
10,800.00	10,679.94	10,709.11	10,679.94	19.11	16.75	-90.39	-581.36	-2,548.43	1,707.03	1,673.88	33.15	51.498	
10,900.00	10,779.94	10,809.11	10,779.94	19.16	16.83	-90.39	-581.36	-2,548.43	1,707.03	1,673.75	33.28	51.288	
11,000.00	10,879.94	10,909.11	10,879.94	19.21	16.92	-90.39	-581.36	-2,548.43	1,707.03	1,673.61	33.42	51.080	
11,100.00	10,979.94	11,009.11	10,979.94	19.26	17.00	-90.39	-581.36	-2,548.43	1,707.03	1,673.48	33.56	50.872	
11,200.00	11,079.94	11,109.11	11,079.94	19.31	17.09	-90.39	-581.36	-2,548.43	1,707.03	1,673.34	33.69	50.667	
11,300.00	11,179.94	11,209.11	11,179.94	19.36	17.17	-90.39	-581.36	-2,548.43	1,707.03	1,673.20	33.83	50.462	
11,400.00	11,279.94	11,309.11	11,279.94	19.41	17.26	-90.39	-581.36	-2,548.43	1,707.03	1,673.07	33.96	50.259	
11,500.00	11,379.94	11,409.11	11,379.94	19.46	17.34	-90.39	-581.36	-2,548.43	1,707.03	1,672.93	34.10	50.058	
11,600.00	11,479.94	11,509.11	11,479.94	19.51	17.42	-90.39	-581.36	-2,548.43	1,707.03	1,672.79	34.24	49.859	
11,700.00	11,579.94	11,609.23	11,580.06	19.56	17.48	-90.42	-582.05	-2,548.42	1,707.03	1,672.69	34.34	49.716	
11,730.19	11,610.14	11,639.40	11,610.14	19.58	17.49	-90.49	-584.32	-2,548.40	1,707.03	1,672.70	34.33	49.725	CC
11,800.00	11,679.94	11,707.68	11,677.49	19.61	17.51	-90.86	-595.27	-2,548.31	1,707.06	1,672.79	34.28	49.799	
11,900.00	11,779.94	11,800.00	11,765.55	19.67	17.52	-91.78	-622.64	-2,548.07	1,707.52	1,673.38	34.14	50.012	
12,000.00	11,879.94	11,880.30	11,837.73	19.72	17.52	-92.95	-657.69	-2,547.77	1,709.13	1,675.14	33.98	50.296	
12,100.00	11,979.48	11,950.00	11,895.88	19.84	17.53	86.13	-696.03	-2,547.44	1,712.21	1,678.35	33.86	50.567	
12,200.00	12,076.09	12,024.47	11,952.38	20.05	17.53	84.64	-744.46	-2,547.03	1,716.20	1,682.36	33.84	50.716	
12,300.00	12,166.83	12,092.92	11,998.38	20.32	17.53	83.30	-795.11	-2,546.59	1,720.70	1,686.70	34.00	50.615	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 135H - 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	Rule Assigned: Warning
12,400.00	12,248.94	12,159.74	12,037.14	20.67	17.53	82.09	-849.48	-2,546.12	1,725.31	1,690.98	34.33	50.255	
12,500.00	12,319.94	12,225.33	12,068.78	21.11	17.54	81.05	-906.89	-2,545.63	1,729.67	1,694.81	34.85	49.625	
12,600.00	12,377.66	12,290.01	12,093.36	21.65	17.55	80.20	-966.67	-2,545.11	1,733.45	1,697.89	35.56	48.745	
12,700.00	12,420.35	12,350.00	12,110.01	22.29	17.56	79.59	-1,024.28	-2,544.62	1,736.40	1,699.95	36.45	47.634	
12,800.00	12,446.71	12,417.68	12,121.44	23.03	17.58	79.18	-1,090.94	-2,544.04	1,738.30	1,700.84	37.46	46.407	
12,900.04	12,455.95	12,483.99	12,125.00	23.86	17.61	79.03	-1,157.12	-2,543.47	1,739.03	1,700.46	38.57	45.093	
13,000.00	12,456.48	12,583.95	12,125.88	24.75	17.68	79.04	-1,257.07	-2,542.61	1,739.00	1,699.27	39.73	43.767	
13,100.00	12,457.00	12,683.95	12,126.75	25.69	17.77	79.05	-1,357.07	-2,541.75	1,738.97	1,697.93	41.04	42.370	
13,200.00	12,457.53	12,783.95	12,127.62	26.67	17.92	79.06	-1,457.06	-2,540.89	1,738.95	1,696.46	42.49	40.931	
13,300.00	12,458.05	12,883.95	12,128.49	27.68	18.16	79.07	-1,557.05	-2,540.03	1,738.92	1,694.87	44.05	39.476	
13,400.00	12,458.58	12,983.95	12,129.36	28.73	18.54	79.09	-1,657.04	-2,539.17	1,738.89	1,693.17	45.73	38.028	
13,500.00	12,459.11	13,083.95	12,130.23	29.80	19.08	79.10	-1,757.03	-2,538.31	1,738.86	1,691.36	47.50	36.606	
13,600.00	12,459.63	13,183.95	12,131.10	30.90	19.75	79.11	-1,857.03	-2,537.45	1,738.84	1,689.47	49.37	35.222	
13,700.00	12,460.16	13,283.94	12,131.97	32.01	20.53	79.12	-1,957.02	-2,536.59	1,738.81	1,687.50	51.31	33.886	
13,800.00	12,460.69	13,383.94	12,132.85	33.15	21.39	79.13	-2,057.01	-2,535.72	1,738.78	1,685.45	53.33	32.604	
13,900.00	12,461.21	13,483.94	12,133.72	34.30	22.30	79.14	-2,157.00	-2,534.86	1,738.75	1,683.35	55.41	31.380	
14,000.00	12,461.74	13,583.94	12,134.59	35.46	23.27	79.15	-2,256.99	-2,534.00	1,738.73	1,681.18	57.54	30.216	
14,100.00	12,462.26	13,683.94	12,135.46	36.64	24.28	79.17	-2,356.98	-2,533.14	1,738.70	1,678.97	59.73	29.110	
14,200.00	12,462.79	13,783.94	12,136.33	37.84	25.33	79.18	-2,456.98	-2,532.28	1,738.67	1,676.72	61.96	28.063	
14,300.00	12,463.32	13,883.94	12,137.20	39.04	26.41	79.19	-2,556.97	-2,531.42	1,738.65	1,674.42	64.22	27.072	
14,400.00	12,463.84	13,983.94	12,138.07	40.25	27.51	79.20	-2,656.96	-2,530.56	1,738.62	1,672.09	66.52	26.135	
14,500.00	12,464.37	14,083.94	12,138.94	41.48	28.64	79.21	-2,756.95	-2,529.70	1,738.59	1,669.73	68.86	25.249	
14,600.00	12,464.90	14,183.94	12,139.82	42.71	29.79	79.22	-2,856.94	-2,528.84	1,738.57	1,667.35	71.22	24.412	
14,700.00	12,465.42	14,283.94	12,140.69	43.95	30.96	79.23	-2,956.94	-2,527.98	1,738.54	1,664.93	73.60	23.620	
14,800.00	12,465.95	14,383.94	12,141.56	45.19	32.14	79.25	-3,056.93	-2,527.11	1,738.51	1,662.50	76.01	22.872	
14,900.00	12,466.47	14,483.94	12,142.43	46.45	33.34	79.26	-3,156.92	-2,526.25	1,738.49	1,660.05	78.44	22.163	
15,000.00	12,467.00	14,583.94	12,143.30	47.71	34.56	79.27	-3,256.91	-2,525.39	1,738.46	1,657.57	80.89	21.493	
15,100.00	12,467.53	14,683.94	12,144.17	48.97	35.78	79.28	-3,356.90	-2,524.53	1,738.43	1,655.08	83.35	20.857	
15,200.00	12,468.05	14,783.94	12,145.04	50.24	37.01	79.29	-3,456.90	-2,523.67	1,738.41	1,652.58	85.83	20.255	
15,300.00	12,468.58	14,883.94	12,145.91	51.52	38.26	79.30	-3,556.89	-2,522.81	1,738.38	1,650.06	88.32	19.683	
15,400.00	12,469.10	14,983.93	12,146.79	52.80	39.51	79.31	-3,656.88	-2,521.95	1,738.35	1,647.53	90.82	19.140	
15,500.00	12,469.63	15,083.93	12,147.66	54.08	40.77	79.33	-3,756.87	-2,521.09	1,738.33	1,644.99	93.34	18.623	
15,600.00	12,470.16	15,183.93	12,148.53	55.37	42.04	79.34	-3,856.86	-2,520.23	1,738.30	1,642.43	95.87	18.132	
15,700.00	12,470.68	15,283.93	12,149.40	56.66	43.31	79.35	-3,956.86	-2,519.37	1,738.28	1,639.87	98.40	17.665	
15,800.00	12,471.21	15,383.93	12,150.27	57.95	44.59	79.36	-4,056.85	-2,518.51	1,738.25	1,637.30	100.95	17.219	
15,900.00	12,471.74	15,483.93	12,151.14	59.25	45.87	79.37	-4,156.84	-2,517.64	1,738.22	1,634.72	103.50	16.794	
16,000.00	12,472.26	15,583.93	12,152.01	60.55	47.16	79.38	-4,256.83	-2,516.78	1,738.20	1,632.13	106.07	16.388	
16,100.00	12,472.79	15,683.93	12,152.88	61.86	48.45	79.39	-4,356.82	-2,515.92	1,738.17	1,629.54	108.63	16.000	
16,200.00	12,473.31	15,783.93	12,153.76	63.16	49.75	79.41	-4,456.81	-2,515.06	1,738.15	1,626.94	111.21	15.630	
16,300.00	12,473.84	15,883.93	12,154.63	64.47	51.05	79.42	-4,556.81	-2,514.20	1,738.12	1,624.33	113.79	15.275	
16,400.00	12,474.37	15,983.93	12,155.50	65.78	52.36	79.43	-4,656.80	-2,513.34	1,738.10	1,621.72	116.38	14.935	
16,500.00	12,474.89	16,083.93	12,156.37	67.10	53.67	79.44	-4,756.79	-2,512.48	1,738.07	1,619.10	118.97	14.609	
16,600.00	12,475.42	16,183.93	12,157.24	68.41	54.98	79.45	-4,856.78	-2,511.62	1,738.04	1,616.48	121.57	14.297	
16,700.00	12,475.94	16,283.93	12,158.11	69.73	56.29	79.46	-4,956.77	-2,510.76	1,738.02	1,613.85	124.17	13.997	
16,800.00	12,476.47	16,383.93	12,158.98	71.05	57.61	79.47	-5,056.77	-2,509.90	1,737.99	1,611.22	126.78	13.709	
16,900.00	12,477.00	16,483.93	12,159.85	72.37	58.93	79.49	-5,156.76	-2,509.03	1,737.97	1,608.58	129.39	13.432	
17,000.00	12,477.52	16,583.93	12,160.73	73.70	60.25	79.50	-5,256.75	-2,508.17	1,737.94	1,605.94	132.00	13.166	
17,100.00	12,478.05	16,683.92	12,161.60	75.02	61.57	79.51	-5,356.74	-2,507.31	1,737.92	1,603.30	134.62	12.910	
17,200.00	12,478.58	16,783.92	12,162.47	76.35	62.90	79.52	-5,456.73	-2,506.45	1,737.89	1,600.65	137.24	12.663	
17,300.00	12,479.10	16,883.92	12,163.34	77.68	64.23	79.53	-5,556.73	-2,505.59	1,737.87	1,598.00	139.87	12.425	
17,400.00	12,479.63	16,983.92	12,164.21	79.01	65.55	79.54	-5,656.72	-2,504.73	1,737.84	1,595.35	142.50	12.196	
17,500.00	12,480.15	17,083.92	12,165.08	80.34	66.89	79.55	-5,756.71	-2,503.87	1,737.82	1,592.69	145.13	11.974	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 135H - 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
17,600.00	12,480.68	17,183.92	12,165.95	81.67	68.22	79.57	-5,856.70	-2,503.01	1,737.79	1,590.03	147.76	11.761	
17,700.00	12,481.21	17,283.92	12,166.82	83.00	69.55	79.58	-5,956.69	-2,502.15	1,737.77	1,587.37	150.40	11.554	
17,800.00	12,481.73	17,383.92	12,167.70	84.34	70.89	79.59	-6,056.69	-2,501.29	1,737.74	1,584.71	153.04	11.355	
17,900.00	12,482.26	17,483.92	12,168.57	85.67	72.22	79.60	-6,156.68	-2,500.43	1,737.72	1,582.04	155.68	11.162	
18,000.00	12,482.79	17,583.92	12,169.44	87.01	73.56	79.61	-6,256.67	-2,499.56	1,737.70	1,579.37	158.32	10.976	
18,100.00	12,483.31	17,683.92	12,170.31	88.35	74.90	79.62	-6,356.66	-2,498.70	1,737.67	1,576.70	160.97	10.795	
18,200.00	12,483.84	17,783.92	12,171.18	89.68	76.24	79.63	-6,456.65	-2,497.84	1,737.65	1,574.03	163.62	10.620	
18,300.00	12,484.36	17,883.92	12,172.05	91.02	77.58	79.65	-6,556.64	-2,496.98	1,737.62	1,571.35	166.27	10.451	
18,400.00	12,484.89	17,983.92	12,172.92	92.36	78.92	79.66	-6,656.64	-2,496.12	1,737.60	1,568.68	168.92	10.286	
18,500.00	12,485.42	18,083.92	12,173.79	93.70	80.27	79.67	-6,756.63	-2,495.26	1,737.57	1,566.00	171.57	10.127	
18,600.00	12,485.94	18,183.92	12,174.67	95.05	81.61	79.68	-6,856.62	-2,494.40	1,737.55	1,563.32	174.23	9.973	
18,700.00	12,486.47	18,283.91	12,175.54	96.39	82.95	79.69	-6,956.61	-2,493.54	1,737.53	1,560.64	176.89	9.823	
18,800.00	12,486.99	18,383.91	12,176.41	97.73	84.30	79.70	-7,056.60	-2,492.68	1,737.50	1,557.96	179.55	9.677	
18,900.00	12,487.52	18,483.91	12,177.28	99.07	85.65	79.71	-7,156.60	-2,491.82	1,737.48	1,555.27	182.21	9.536	
19,000.00	12,488.05	18,583.91	12,178.15	100.42	86.99	79.73	-7,256.59	-2,490.95	1,737.46	1,552.59	184.87	9.398	
19,100.00	12,488.57	18,683.91	12,179.02	101.76	88.34	79.74	-7,356.58	-2,490.09	1,737.43	1,549.90	187.53	9.265	
19,200.00	12,489.10	18,783.91	12,179.89	103.11	89.69	79.75	-7,456.57	-2,489.23	1,737.41	1,547.21	190.20	9.135	
19,300.00	12,489.63	18,883.91	12,180.76	104.46	91.04	79.76	-7,556.56	-2,488.37	1,737.38	1,544.52	192.86	9.008	
19,400.00	12,490.15	18,983.91	12,181.64	105.80	92.39	79.77	-7,656.56	-2,487.51	1,737.36	1,541.83	195.53	8.885	
19,500.00	12,490.68	19,083.91	12,182.51	107.15	93.74	79.78	-7,756.55	-2,486.65	1,737.34	1,539.14	198.20	8.766	
19,600.00	12,491.20	19,183.91	12,183.38	108.50	95.09	79.79	-7,856.54	-2,485.79	1,737.31	1,536.44	200.87	8.649	
19,700.00	12,491.73	19,283.91	12,184.25	109.85	96.44	79.81	-7,956.53	-2,484.93	1,737.29	1,533.75	203.54	8.535	
19,800.00	12,492.26	19,383.91	12,185.12	111.20	97.79	79.82	-8,056.52	-2,484.07	1,737.27	1,531.06	206.21	8.425	
19,900.00	12,492.78	19,483.91	12,185.99	112.55	99.14	79.83	-8,156.51	-2,483.21	1,737.24	1,528.36	208.89	8.317	
20,000.00	12,493.31	19,583.91	12,186.86	113.90	100.50	79.84	-8,256.51	-2,482.35	1,737.22	1,525.66	211.56	8.212	
20,100.00	12,493.84	19,683.91	12,187.73	115.25	101.85	79.85	-8,356.50	-2,481.48	1,737.20	1,522.96	214.23	8.109	
20,200.00	12,494.36	19,783.91	12,188.61	116.60	103.20	79.86	-8,456.49	-2,480.62	1,737.18	1,520.27	216.91	8.009	
20,300.00	12,494.89	19,883.91	12,189.48	117.95	104.56	79.87	-8,556.48	-2,479.76	1,737.15	1,517.57	219.59	7.911	
20,400.00	12,495.41	19,983.90	12,190.35	119.30	105.91	79.89	-8,656.47	-2,478.90	1,737.13	1,514.86	222.27	7.816	
20,500.00	12,495.94	20,083.90	12,191.22	120.65	107.27	79.90	-8,756.47	-2,478.04	1,737.11	1,512.16	224.94	7.722	
20,600.00	12,496.47	20,183.90	12,192.09	122.01	108.62	79.91	-8,856.46	-2,477.18	1,737.08	1,509.46	227.62	7.631	
20,700.00	12,496.99	20,283.90	12,192.96	123.36	109.98	79.92	-8,956.45	-2,476.32	1,737.06	1,506.76	230.30	7.542	
20,800.00	12,497.52	20,383.90	12,193.83	124.71	111.34	79.93	-9,056.44	-2,475.46	1,737.04	1,504.05	232.99	7.456	
20,900.00	12,498.04	20,483.90	12,194.70	126.07	112.69	79.94	-9,156.43	-2,474.60	1,737.02	1,501.35	235.67	7.371	
21,000.00	12,498.57	20,583.90	12,195.58	127.42	114.05	79.95	-9,256.43	-2,473.74	1,736.99	1,498.64	238.35	7.288	
21,100.00	12,499.10	20,683.90	12,196.45	128.77	115.41	79.97	-9,356.42	-2,472.87	1,736.97	1,495.94	241.03	7.206	
21,200.00	12,499.62	20,783.90	12,197.32	130.13	116.76	79.98	-9,456.41	-2,472.01	1,736.95	1,493.23	243.72	7.127	
21,300.00	12,500.15	20,883.90	12,198.19	131.48	118.12	79.99	-9,556.40	-2,471.15	1,736.93	1,490.52	246.40	7.049	
21,400.00	12,500.68	20,983.90	12,199.06	132.84	119.48	80.00	-9,656.39	-2,470.29	1,736.91	1,487.82	249.09	6.973	
21,500.00	12,501.20	21,083.90	12,199.93	134.20	120.84	80.01	-9,756.39	-2,469.43	1,736.88	1,485.11	251.78	6.899	
21,600.00	12,501.73	21,183.90	12,200.80	135.55	122.19	80.02	-9,856.38	-2,468.57	1,736.86	1,482.40	254.46	6.826	
21,700.00	12,502.25	21,283.90	12,201.67	136.91	123.55	80.03	-9,956.37	-2,467.71	1,736.84	1,479.69	257.15	6.754	
21,800.00	12,502.78	21,383.90	12,202.55	138.26	124.91	80.05	-10,056.36	-2,466.85	1,736.82	1,476.98	259.84	6.684	
21,900.00	12,503.31	21,483.90	12,203.42	139.62	126.27	80.06	-10,156.35	-2,465.99	1,736.80	1,474.27	262.53	6.616	
22,000.00	12,503.83	21,583.90	12,204.29	140.98	127.63	80.07	-10,256.34	-2,465.13	1,736.77	1,471.56	265.22	6.549	
22,100.00	12,504.36	21,683.89	12,205.16	142.33	128.99	80.08	-10,356.34	-2,464.27	1,736.75	1,468.85	267.91	6.483	
22,200.00	12,504.89	21,783.89	12,206.03	143.69	130.35	80.09	-10,456.33	-2,463.40	1,736.73	1,466.14	270.60	6.418	
22,300.00	12,505.41	21,883.89	12,206.90	145.05	131.71	80.10	-10,556.32	-2,462.54	1,736.71	1,463.42	273.29	6.355	
22,400.00	12,505.94	21,983.89	12,207.77	146.41	133.07	80.11	-10,656.31	-2,461.68	1,736.69	1,460.71	275.98	6.293	
22,500.00	12,506.46	22,083.89	12,208.64	147.76	134.43	80.13	-10,756.30	-2,460.82	1,736.67	1,458.00	278.67	6.232	
22,600.00	12,506.99	22,183.89	12,209.52	149.12	135.79	80.14	-10,856.30	-2,459.96	1,736.65	1,455.28	281.36	6.172	
22,700.00	12,507.52	22,283.89	12,210.39	150.48	137.15	80.15	-10,956.29	-2,459.10	1,736.63	1,452.57	284.06	6.114	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 135H - OH - Plan 1

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
22,800.00	12,508.04	22,383.89	12,211.26	151.84	138.51	80.16	-11,056.28	-2,458.24	1,736.60	1,449.85	286.75	6.056	
22,827.58	12,508.19	22,411.47	12,211.50	152.21	138.89	80.16	-11,083.86	-2,458.00	1,736.60	1,449.10	287.49	6.040	
22,830.04	12,508.20	22,411.61	12,211.50	152.25	138.89	80.16	-11,084.00	-2,458.00	1,736.60	1,449.05	287.55	6.039	ES, SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
1,200.00	1,198.18	1,411.10	1,408.78	4.28	5.02	51.24	-838.76	-2,298.62	2,426.38	2,417.21	9.17	264.705	
1,300.00	1,297.78	1,509.88	1,507.18	4.39	5.23	45.24	-836.68	-2,290.27	2,411.95	2,402.47	9.48	254.446	
1,400.00	1,397.24	1,608.31	1,605.23	4.60	5.44	35.56	-834.60	-2,281.95	2,395.31	2,385.41	9.90	241.986	
1,500.00	1,496.46	1,706.27	1,702.83	4.82	5.64	28.83	-832.54	-2,273.66	2,376.11	2,365.79	10.32	230.198	
1,600.00	1,595.38	1,803.71	1,799.90	5.04	5.84	24.03	-830.49	-2,265.42	2,354.36	2,343.61	10.75	219.052	
1,700.00	1,693.92	1,900.56	1,896.38	5.27	6.04	20.50	-828.45	-2,257.23	2,330.08	2,318.91	11.17	208.527	
1,800.00	1,792.04	1,996.75	1,992.20	5.49	6.23	17.82	-826.43	-2,249.09	2,303.29	2,291.69	11.60	198.582	
1,900.00	1,889.64	2,092.20	2,087.29	5.71	6.42	15.74	-824.42	-2,241.02	2,273.99	2,261.97	12.02	189.165	
2,000.00	1,986.68	2,186.87	2,181.60	5.94	6.62	14.09	-822.42	-2,233.01	2,242.22	2,229.77	12.45	180.092	
2,100.00	2,083.28	2,382.55	2,376.12	6.11	7.06	14.05	-817.33	-2,212.54	2,207.04	2,194.04	13.00	169.710	
2,200.00	2,179.88	2,595.64	2,586.42	6.34	7.55	14.38	-809.06	-2,179.34	2,166.67	2,153.05	13.62	159.063	
2,300.00	2,276.47	2,798.11	2,784.17	6.61	8.03	14.69	-798.60	-2,137.29	2,121.41	2,107.22	14.19	149.487	
2,400.00	2,373.06	2,926.58	2,908.44	6.90	8.27	14.90	-790.74	-2,105.72	2,072.46	2,057.87	14.58	142.102	
2,500.00	2,469.65	3,013.47	2,992.38	7.20	8.46	15.05	-785.30	-2,083.89	2,023.18	2,008.21	14.97	135.127	
2,600.00	2,566.24	3,100.37	3,076.31	7.50	8.64	15.20	-779.87	-2,062.06	1,973.92	1,958.56	15.36	128.481	
2,700.00	2,662.84	3,187.27	3,160.25	7.82	8.83	15.36	-774.44	-2,040.24	1,924.67	1,908.91	15.76	122.144	
2,800.00	2,759.43	3,274.16	3,244.18	8.13	9.02	15.53	-769.01	-2,018.41	1,875.43	1,859.27	16.15	116.098	
2,900.00	2,856.02	3,361.06	3,328.12	8.45	9.22	15.71	-763.57	-1,996.58	1,826.20	1,809.65	16.55	110.326	
3,000.00	2,952.61	3,447.96	3,412.05	8.78	9.41	15.90	-758.14	-1,974.76	1,776.99	1,760.04	16.95	104.812	
3,100.00	3,049.20	3,534.85	3,495.99	9.10	9.62	16.11	-752.71	-1,952.93	1,727.79	1,710.44	17.36	99.540	
3,200.00	3,145.79	3,621.75	3,579.92	9.43	9.85	16.32	-747.28	-1,931.10	1,678.61	1,660.85	17.76	94.497	
3,300.00	3,242.39	3,708.65	3,663.86	9.77	10.10	16.54	-741.84	-1,909.28	1,629.45	1,611.28	18.17	89.669	
3,400.00	3,338.98	3,795.54	3,747.79	10.10	10.35	16.78	-736.41	-1,887.45	1,580.31	1,561.73	18.58	85.044	
3,500.00	3,435.57	3,882.44	3,831.73	10.44	10.62	17.04	-730.98	-1,865.62	1,531.20	1,512.20	18.99	80.611	
3,600.00	3,532.16	3,969.34	3,915.66	10.78	10.89	17.31	-725.54	-1,843.80	1,482.10	1,462.69	19.41	76.360	
3,700.00	3,628.75	4,056.23	3,999.60	11.12	11.16	17.60	-720.11	-1,821.97	1,433.04	1,413.21	19.83	72.273	
3,800.00	3,725.34	4,143.13	4,083.53	11.46	11.44	17.91	-714.68	-1,800.14	1,384.00	1,363.76	20.25	68.355	
3,900.00	3,821.94	4,230.02	4,167.47	11.80	11.71	18.24	-709.25	-1,778.32	1,335.00	1,314.33	20.67	64.590	
4,000.00	3,918.53	4,316.92	4,251.40	12.14	11.99	18.60	-703.81	-1,756.49	1,286.04	1,264.94	21.09	60.969	
4,100.00	4,015.12	4,403.82	4,335.34	12.49	12.27	18.99	-698.38	-1,734.66	1,237.11	1,215.59	21.52	57.485	
4,200.00	4,111.71	4,490.71	4,419.27	12.83	12.55	19.40	-692.95	-1,712.84	1,188.23	1,166.28	21.95	54.131	
4,300.00	4,208.30	4,577.61	4,503.21	13.18	12.84	19.86	-687.52	-1,691.01	1,139.41	1,117.02	22.39	50.900	
4,400.00	4,304.90	4,664.51	4,587.14	13.53	13.12	20.35	-682.08	-1,669.18	1,090.64	1,067.82	22.82	47.788	
4,500.00	4,401.49	4,751.40	4,671.08	13.88	13.41	20.89	-676.65	-1,647.36	1,041.95	1,018.68	23.26	44.787	
4,600.00	4,498.08	4,838.30	4,755.01	14.23	13.69	21.48	-671.22	-1,625.53	993.33	969.62	23.71	41.893	
4,700.00	4,594.67	4,925.20	4,838.95	14.58	13.98	22.13	-665.79	-1,603.70	944.80	920.64	24.16	39.101	
4,800.00	4,691.26	5,012.09	4,922.88	14.93	14.27	22.85	-660.35	-1,581.88	896.38	871.76	24.62	36.410	
4,900.00	4,788.20	5,099.65	5,007.45	15.26	14.56	23.30	-654.88	-1,559.89	849.18	824.09	25.09	33.844	
5,000.00	4,885.74	5,188.42	5,093.20	15.57	14.86	23.76	-649.33	-1,537.59	804.23	778.67	25.56	31.463	
5,100.00	4,983.82	5,278.35	5,180.06	15.85	15.16	24.24	-643.71	-1,515.00	761.56	735.53	26.03	29.256	
5,200.00	5,082.39	5,369.37	5,267.99	16.10	15.46	24.73	-638.02	-1,492.14	721.17	694.67	26.50	27.217	
5,300.00	5,181.35	5,461.43	5,356.91	16.32	15.77	25.22	-632.26	-1,469.01	683.07	656.11	26.96	25.338	
5,400.00	5,280.66	5,554.46	5,446.77	16.52	16.09	25.71	-626.44	-1,445.65	647.28	619.87	27.41	23.612	
5,500.00	5,380.25	5,648.40	5,537.50	16.68	16.40	26.18	-620.57	-1,422.05	613.79	585.93	27.86	22.033	
5,600.00	5,480.03	5,743.18	5,629.05	16.82	16.72	26.62	-614.65	-1,398.24	582.60	554.31	28.29	20.594	
5,700.00	5,579.96	5,838.74	5,721.36	16.93	17.05	27.03	-608.67	-1,374.24	553.71	525.01	28.71	19.289	
5,800.00	5,679.94	5,932.77	5,812.19	16.99	17.36	-93.73	-602.80	-1,350.65	527.15	498.10	29.06	18.143	
5,900.00	5,779.94	6,018.39	5,895.23	17.03	17.63	-93.29	-597.76	-1,330.40	503.15	473.73	29.42	17.102	
6,000.00	5,879.94	6,100.00	5,974.79	17.07	17.88	-92.89	-593.37	-1,312.77	481.37	451.56	29.81	16.150	
6,100.00	5,979.94	6,192.34	6,065.25	17.10	18.13	-92.44	-588.91	-1,294.83	461.75	431.62	30.13	15.325	
6,200.00	6,079.94	6,280.51	6,152.03	17.14	18.35	-92.03	-585.14	-1,279.68	444.40	413.93	30.46	14.588	
6,300.00	6,179.94	6,369.38	6,239.83	17.17	18.55	-91.65	-581.82	-1,266.38	429.31	398.53	30.78	13.949	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
6,400.00	6,279.94	6,458.84	6,328.52	17.21	18.73	-91.30	-578.99	-1,254.99	416.50	385.43	31.07	13.405	
6,500.00	6,379.94	6,548.81	6,417.97	17.25	18.89	-91.00	-576.65	-1,245.58	405.99	374.64	31.34	12.953	
6,600.00	6,479.94	6,639.20	6,508.03	17.29	19.02	-90.75	-574.81	-1,238.19	397.77	366.18	31.59	12.590	
6,700.00	6,579.94	6,729.89	6,598.55	17.32	19.13	-90.56	-573.48	-1,232.85	391.87	360.05	31.82	12.316	
6,800.00	6,679.94	6,820.80	6,689.39	17.36	19.22	-90.45	-572.67	-1,229.59	388.28	356.26	32.01	12.128	
6,900.00	6,779.94	6,911.81	6,780.40	17.40	19.29	-90.41	-572.38	-1,228.43	387.00	354.84	32.17	12.032	
6,935.11	6,815.05	6,946.47	6,815.05	17.41	19.30	-90.41	-572.38	-1,228.43	387.00	354.81	32.19	12.022	
7,000.00	6,879.94	7,011.36	6,879.94	17.44	19.33	-90.41	-572.38	-1,228.43	387.00	354.76	32.24	12.002	
7,100.00	6,979.94	7,111.36	6,979.94	17.48	19.38	-90.41	-572.38	-1,228.43	387.00	354.67	32.33	11.969	
7,200.00	7,079.94	7,211.36	7,079.94	17.52	19.43	-90.41	-572.38	-1,228.43	387.00	354.58	32.42	11.936	
7,300.00	7,179.94	7,311.36	7,179.94	17.56	19.48	-90.41	-572.38	-1,228.43	387.00	354.49	32.51	11.903	
7,400.00	7,279.94	7,411.36	7,279.94	17.60	19.53	-90.41	-572.38	-1,228.43	387.00	354.40	32.60	11.870	
7,500.00	7,379.94	7,511.36	7,379.94	17.64	19.58	-90.41	-572.38	-1,228.43	387.00	354.31	32.69	11.837	
7,600.00	7,479.94	7,611.36	7,479.94	17.68	19.63	-90.41	-572.38	-1,228.43	387.00	354.22	32.78	11.804	
7,700.00	7,579.94	7,711.36	7,579.94	17.72	19.68	-90.41	-572.38	-1,228.43	387.00	354.12	32.88	11.771	
7,800.00	7,679.94	7,811.36	7,679.94	17.76	19.73	-90.41	-572.38	-1,228.43	387.00	354.03	32.97	11.738	
7,900.00	7,779.94	7,911.36	7,779.94	17.80	19.78	-90.41	-572.38	-1,228.43	387.00	353.94	33.06	11.705	
8,000.00	7,879.94	8,011.36	7,879.94	17.84	19.83	-90.41	-572.38	-1,228.43	387.00	353.84	33.16	11.672	
8,100.00	7,979.94	8,111.36	7,979.94	17.88	19.89	-90.41	-572.38	-1,228.43	387.00	353.75	33.25	11.639	
8,200.00	8,079.94	8,211.36	8,079.94	17.93	19.94	-90.41	-572.38	-1,228.43	387.00	353.65	33.35	11.606	
8,300.00	8,179.94	8,311.36	8,179.94	17.97	19.99	-90.41	-572.38	-1,228.43	387.00	353.56	33.44	11.573	
8,400.00	8,279.94	8,411.36	8,279.94	18.01	20.04	-90.41	-572.38	-1,228.43	387.00	353.46	33.54	11.540	
8,500.00	8,379.94	8,511.36	8,379.94	18.05	20.09	-90.41	-572.38	-1,228.43	387.00	353.37	33.63	11.507	
8,600.00	8,479.94	8,611.36	8,479.94	18.10	20.15	-90.41	-572.38	-1,228.43	387.00	353.27	33.73	11.474	
8,700.00	8,579.94	8,711.36	8,579.94	18.14	20.20	-90.41	-572.38	-1,228.43	387.00	353.17	33.83	11.441	
8,800.00	8,679.94	8,811.36	8,679.94	18.18	20.25	-90.41	-572.38	-1,228.43	387.00	353.08	33.92	11.408	
8,900.00	8,779.94	8,911.36	8,779.94	18.23	20.31	-90.41	-572.38	-1,228.43	387.00	352.98	34.02	11.375	
9,000.00	8,879.94	9,011.36	8,879.94	18.27	20.36	-90.41	-572.38	-1,228.43	387.00	352.88	34.12	11.342	
9,100.00	8,979.94	9,111.36	8,979.94	18.32	20.41	-90.41	-572.38	-1,228.43	387.00	352.78	34.22	11.309	
9,200.00	9,079.94	9,211.36	9,079.94	18.36	20.47	-90.41	-572.38	-1,228.43	387.00	352.68	34.32	11.276	
9,300.00	9,179.94	9,311.36	9,179.94	18.41	20.52	-90.41	-572.38	-1,228.43	387.00	352.58	34.42	11.243	
9,400.00	9,279.94	9,411.36	9,279.94	18.45	20.57	-90.41	-572.38	-1,228.43	387.00	352.48	34.52	11.210	
9,500.00	9,379.94	9,511.36	9,379.94	18.50	20.63	-90.41	-572.38	-1,228.43	387.00	352.38	34.62	11.177	
9,600.00	9,479.94	9,611.36	9,479.94	18.54	20.68	-90.41	-572.38	-1,228.43	387.00	352.27	34.73	11.145	
9,700.00	9,579.94	9,711.36	9,579.94	18.59	20.74	-90.41	-572.38	-1,228.43	387.00	352.17	34.83	11.112	
9,800.00	9,679.94	9,811.36	9,679.94	18.64	20.79	-90.41	-572.38	-1,228.43	387.00	352.07	34.93	11.079	
9,900.00	9,779.94	9,911.36	9,779.94	18.68	20.85	-90.41	-572.38	-1,228.43	387.00	351.97	35.03	11.047	
10,000.00	9,879.94	10,011.36	9,879.94	18.73	20.90	-90.41	-572.38	-1,228.43	387.00	351.86	35.14	11.014	
10,100.00	9,979.94	10,111.36	9,979.94	18.78	20.96	-90.41	-572.38	-1,228.43	387.00	351.76	35.24	10.981	
10,200.00	10,079.94	10,211.36	10,079.94	18.82	21.01	-90.41	-572.38	-1,228.43	387.00	351.65	35.35	10.949	
10,300.00	10,179.94	10,311.36	10,179.94	18.87	21.07	-90.41	-572.38	-1,228.43	387.00	351.55	35.45	10.917	
10,400.00	10,279.94	10,411.36	10,279.94	18.92	21.12	-90.41	-572.38	-1,228.43	387.00	351.44	35.56	10.884	
10,500.00	10,379.94	10,511.36	10,379.94	18.97	21.18	-90.41	-572.38	-1,228.43	387.00	351.34	35.66	10.852	
10,600.00	10,479.94	10,611.36	10,479.94	19.02	21.24	-90.41	-572.38	-1,228.43	387.00	351.23	35.77	10.820	
10,700.00	10,579.94	10,711.36	10,579.94	19.07	21.29	-90.41	-572.38	-1,228.43	387.00	351.13	35.87	10.788	
10,800.00	10,679.94	10,811.36	10,679.94	19.11	21.35	-90.41	-572.38	-1,228.43	387.00	351.02	35.98	10.755	
10,900.00	10,779.94	10,911.36	10,779.94	19.16	21.41	-90.41	-572.38	-1,228.43	387.00	350.91	36.09	10.723	
11,000.00	10,879.94	11,011.36	10,879.94	19.21	21.46	-90.41	-572.38	-1,228.43	387.00	350.80	36.20	10.691	
11,100.00	10,979.94	11,111.36	10,979.94	19.26	21.52	-90.41	-572.38	-1,228.43	387.00	350.69	36.31	10.659	
11,200.00	11,079.94	11,211.36	11,079.94	19.31	21.58	-90.41	-572.38	-1,228.43	387.00	350.59	36.41	10.628	
11,300.00	11,179.94	11,311.36	11,179.94	19.36	21.63	-90.41	-572.38	-1,228.43	387.00	350.48	36.52	10.596	
11,400.00	11,279.94	11,411.36	11,279.94	19.41	21.69	-90.41	-572.38	-1,228.43	387.00	350.37	36.63	10.564	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
11,500.00	11,379.94	11,511.36	11,379.94	19.46	21.75	-90.41	-572.38	-1,228.43	387.00	350.26	36.74	10.532	
11,600.00	11,479.94	11,611.36	11,479.94	19.51	21.81	-90.41	-572.38	-1,228.43	387.00	350.15	36.85	10.501	
11,700.00	11,579.94	11,711.37	11,579.95	19.56	21.85	-90.49	-572.92	-1,228.43	387.00	350.06	36.94	10.477	
11,700.68	11,580.62	11,712.05	11,580.62	19.56	21.85	-90.49	-572.95	-1,228.43	387.00	350.06	36.94	10.477	CC
11,800.00	11,679.94	11,809.55	11,677.19	19.61	21.91	-92.36	-585.56	-1,228.32	387.21	350.36	36.86	10.506	
11,900.00	11,779.94	11,900.00	11,763.67	19.67	21.95	-96.22	-611.73	-1,228.09	389.28	352.56	36.71	10.603	
12,000.00	11,879.94	11,982.25	11,837.87	19.72	21.98	-101.34	-647.07	-1,227.79	396.27	359.53	36.74	10.786	
12,100.00	11,979.48	12,055.98	11,899.47	19.84	22.02	73.02	-687.49	-1,227.44	409.25	372.05	37.20	11.001	
12,200.00	12,076.09	12,126.80	11,953.29	20.05	22.06	67.44	-733.45	-1,227.04	425.42	387.26	38.16	11.148	
12,300.00	12,166.83	12,200.00	12,002.52	20.32	22.12	62.40	-787.55	-1,226.58	442.96	403.57	39.39	11.246	
12,400.00	12,248.94	12,262.47	12,038.79	20.67	22.20	58.55	-838.37	-1,226.14	460.16	419.23	40.93	11.242	
12,500.00	12,319.94	12,328.25	12,070.77	21.11	22.31	55.32	-895.81	-1,225.64	475.86	433.41	42.45	11.209	
12,600.00	12,377.66	12,400.00	12,097.90	21.65	22.47	52.73	-962.18	-1,225.07	489.11	445.28	43.83	11.159	
12,700.00	12,420.35	12,450.00	12,111.80	22.29	22.61	51.20	-1,010.19	-1,224.66	499.07	453.75	45.33	11.011	
12,800.00	12,446.71	12,521.21	12,124.25	23.03	22.84	50.09	-1,080.25	-1,224.06	505.22	458.80	46.42	10.883	
12,900.04	12,455.95	12,586.83	12,127.98	23.86	23.10	49.74	-1,145.73	-1,223.49	507.45	460.08	47.37	10.713	
13,000.00	12,456.48	12,686.79	12,128.85	24.75	23.53	49.77	-1,245.69	-1,222.63	507.26	459.18	48.07	10.552	
13,100.00	12,457.00	12,786.79	12,129.73	25.69	24.03	49.80	-1,345.68	-1,221.77	507.06	458.20	48.87	10.377	
13,200.00	12,457.53	12,886.79	12,130.60	26.67	24.58	49.83	-1,445.67	-1,220.91	506.87	457.13	49.74	10.191	
13,300.00	12,458.05	12,986.79	12,131.47	27.68	25.18	49.87	-1,545.66	-1,220.05	506.68	455.99	50.69	9.996	
13,400.00	12,458.58	13,086.79	12,132.34	28.73	25.83	49.90	-1,645.65	-1,219.19	506.48	454.77	51.71	9.794	
13,500.00	12,459.11	13,186.79	12,133.21	29.80	26.53	49.93	-1,745.64	-1,218.32	506.29	453.48	52.81	9.588	
13,600.00	12,459.63	13,286.79	12,134.08	30.90	27.26	49.96	-1,845.64	-1,217.46	506.10	452.13	53.97	9.378	
13,700.00	12,460.16	13,386.79	12,134.96	32.01	28.04	50.00	-1,945.63	-1,216.60	505.90	450.71	55.19	9.166	
13,800.00	12,460.69	13,486.79	12,135.83	33.15	28.86	50.03	-2,045.62	-1,215.74	505.71	449.23	56.48	8.954	
13,900.00	12,461.21	13,586.79	12,136.70	34.30	29.71	50.06	-2,145.61	-1,214.88	505.52	447.70	57.82	8.743	
14,000.00	12,461.74	13,686.78	12,137.57	35.46	30.59	50.09	-2,245.60	-1,214.02	505.33	446.11	59.21	8.534	
14,100.00	12,462.26	13,786.78	12,138.44	36.64	31.50	50.13	-2,345.60	-1,213.16	505.13	444.48	60.66	8.328	
14,200.00	12,462.79	13,886.78	12,139.31	37.84	32.44	50.16	-2,445.59	-1,212.30	504.94	442.79	62.15	8.125	
14,300.00	12,463.32	13,986.78	12,140.19	39.04	33.41	50.19	-2,545.58	-1,211.43	504.75	441.07	63.68	7.926	
14,400.00	12,463.84	14,086.78	12,141.06	40.25	34.41	50.23	-2,645.57	-1,210.57	504.56	439.30	65.25	7.732	
14,500.00	12,464.37	14,186.78	12,141.93	41.48	35.43	50.26	-2,745.56	-1,209.71	504.37	437.50	66.86	7.543	
14,600.00	12,464.90	14,286.78	12,142.80	42.71	36.47	50.29	-2,845.56	-1,208.85	504.17	435.66	68.51	7.359	
14,700.00	12,465.42	14,386.78	12,143.67	43.95	37.52	50.32	-2,945.55	-1,207.99	503.98	433.79	70.19	7.180	
14,800.00	12,465.95	14,486.78	12,144.54	45.19	38.60	50.36	-3,045.54	-1,207.13	503.79	431.89	71.90	7.007	
14,900.00	12,466.47	14,586.78	12,145.42	46.45	39.70	50.39	-3,145.53	-1,206.27	503.60	429.96	73.64	6.839	
15,000.00	12,467.00	14,686.78	12,146.29	47.71	40.81	50.42	-3,245.52	-1,205.40	503.41	428.01	75.40	6.676	
15,100.00	12,467.53	14,786.78	12,147.16	48.97	41.93	50.46	-3,345.51	-1,204.54	503.22	426.03	77.19	6.519	
15,200.00	12,468.05	14,886.78	12,148.03	50.24	43.07	50.49	-3,445.51	-1,203.68	503.03	424.02	79.01	6.367	
15,300.00	12,468.58	14,986.78	12,148.90	51.52	44.22	50.52	-3,545.50	-1,202.82	502.84	422.00	80.84	6.220	
15,400.00	12,469.10	15,086.78	12,149.77	52.80	45.39	50.56	-3,645.49	-1,201.96	502.65	419.95	82.70	6.078	
15,500.00	12,469.63	15,186.78	12,150.65	54.08	46.56	50.59	-3,745.48	-1,201.10	502.46	417.88	84.57	5.941	
15,600.00	12,470.16	15,286.77	12,151.52	55.37	47.74	50.62	-3,845.47	-1,200.24	502.27	415.80	86.47	5.809	
15,700.00	12,470.68	15,386.77	12,152.39	56.66	48.94	50.66	-3,945.47	-1,199.38	502.08	413.70	88.38	5.681	
15,800.00	12,471.21	15,486.77	12,153.26	57.95	50.14	50.69	-4,045.46	-1,198.51	501.89	411.58	90.31	5.558	
15,900.00	12,471.74	15,586.77	12,154.13	59.25	51.35	50.72	-4,145.45	-1,197.65	501.70	409.45	92.25	5.438	
16,000.00	12,472.26	15,686.77	12,155.00	60.55	52.57	50.76	-4,245.44	-1,196.79	501.51	407.30	94.21	5.323	
16,100.00	12,472.79	15,786.77	12,155.87	61.86	53.80	50.79	-4,345.43	-1,195.93	501.32	405.14	96.18	5.212	
16,200.00	12,473.31	15,886.77	12,156.75	63.16	55.03	50.82	-4,445.43	-1,195.07	501.13	402.97	98.16	5.105	
16,300.00	12,473.84	15,986.77	12,157.62	64.47	56.27	50.86	-4,545.42	-1,194.21	500.95	400.79	100.16	5.001	
16,400.00	12,474.37	16,086.77	12,158.49	65.78	57.51	50.89	-4,645.41	-1,193.35	500.76	398.59	102.17	4.901	
16,500.00	12,474.89	16,186.77	12,159.36	67.10	58.76	50.92	-4,745.40	-1,192.49	500.57	396.38	104.19	4.804	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
16,600.00	12,475.42	16,286.77	12,160.23	68.41	60.02	50.96	-4,845.39	-1,191.62	500.38	394.16	106.22	4.711	
16,700.00	12,475.94	16,386.77	12,161.10	69.73	61.28	50.99	-4,945.39	-1,190.76	500.19	391.94	108.26	4.620	
16,800.00	12,476.47	16,486.77	12,161.98	71.05	62.54	51.02	-5,045.38	-1,189.90	500.01	389.70	110.31	4.533	
16,900.00	12,477.00	16,586.77	12,162.85	72.37	63.81	51.06	-5,145.37	-1,189.04	499.82	387.45	112.37	4.448	
17,000.00	12,477.52	16,686.77	12,163.72	73.70	65.08	51.09	-5,245.36	-1,188.18	499.63	385.20	114.43	4.366	
17,100.00	12,478.05	16,786.77	12,164.59	75.02	66.36	51.12	-5,345.35	-1,187.32	499.44	382.93	116.51	4.287	
17,200.00	12,478.58	16,886.77	12,165.46	76.35	67.64	51.16	-5,445.34	-1,186.46	499.26	380.66	118.59	4.210	
17,300.00	12,479.10	16,986.76	12,166.33	77.68	68.92	51.19	-5,545.34	-1,185.60	499.07	378.38	120.68	4.135	
17,400.00	12,479.63	17,086.76	12,167.21	79.01	70.21	51.22	-5,645.33	-1,184.73	498.88	376.10	122.78	4.063	
17,500.00	12,480.15	17,186.76	12,168.08	80.34	71.50	51.26	-5,745.32	-1,183.87	498.70	373.81	124.89	3.993	
17,600.00	12,480.68	17,286.76	12,168.95	81.67	72.79	51.29	-5,845.31	-1,183.01	498.51	371.51	127.00	3.925	
17,700.00	12,481.21	17,386.76	12,169.82	83.00	74.09	51.33	-5,945.30	-1,182.15	498.32	369.20	129.12	3.859	
17,800.00	12,481.73	17,486.76	12,170.69	84.34	75.39	51.36	-6,045.30	-1,181.29	498.14	366.89	131.25	3.795	
17,900.00	12,482.26	17,586.76	12,171.56	85.67	76.69	51.39	-6,145.29	-1,180.43	497.95	364.57	133.38	3.733	
18,000.00	12,482.79	17,686.76	12,172.44	87.01	77.99	51.43	-6,245.28	-1,179.57	497.77	362.25	135.52	3.673	
18,100.00	12,483.31	17,786.76	12,173.31	88.35	79.30	51.46	-6,345.27	-1,178.71	497.58	359.92	137.66	3.615	
18,200.00	12,483.84	17,886.76	12,174.18	89.68	80.61	51.50	-6,445.26	-1,177.84	497.40	357.58	139.81	3.558	
18,300.00	12,484.36	17,986.76	12,175.05	91.02	81.91	51.53	-6,545.26	-1,176.98	497.21	355.24	141.97	3.502	
18,400.00	12,484.89	18,086.76	12,175.92	92.36	83.23	51.56	-6,645.25	-1,176.12	497.02	352.90	144.12	3.449	
18,500.00	12,485.42	18,186.76	12,176.79	93.70	84.54	51.60	-6,745.24	-1,175.26	496.84	350.55	146.29	3.396	
18,600.00	12,485.94	18,286.76	12,177.66	95.05	85.85	51.63	-6,845.23	-1,174.40	496.66	348.20	148.46	3.345	
18,700.00	12,486.47	18,386.76	12,178.54	96.39	87.17	51.66	-6,945.22	-1,173.54	496.47	345.84	150.63	3.296	
18,800.00	12,486.99	18,486.76	12,179.41	97.73	88.49	51.70	-7,045.21	-1,172.68	496.29	343.47	152.81	3.248	
18,900.00	12,487.52	18,586.76	12,180.28	99.07	89.81	51.73	-7,145.21	-1,171.81	496.10	341.11	155.00	3.201	
19,000.00	12,488.05	18,686.75	12,181.15	100.42	91.13	51.77	-7,245.20	-1,170.95	495.92	338.73	157.19	3.155	
19,100.00	12,488.57	18,786.75	12,182.02	101.76	92.45	51.80	-7,345.19	-1,170.09	495.74	336.36	159.38	3.110	
19,200.00	12,489.10	18,886.75	12,182.89	103.11	93.78	51.84	-7,445.18	-1,169.23	495.55	333.98	161.58	3.067	
19,300.00	12,489.63	18,986.75	12,183.77	104.46	95.10	51.87	-7,545.17	-1,168.37	495.37	331.59	163.78	3.025	
19,400.00	12,490.15	19,086.75	12,184.64	105.80	96.43	51.90	-7,645.17	-1,167.51	495.18	329.20	165.98	2.983	
19,500.00	12,490.68	19,186.75	12,185.51	107.15	97.76	51.94	-7,745.16	-1,166.65	495.00	326.81	168.19	2.943	
19,600.00	12,491.20	19,286.75	12,186.38	108.50	99.09	51.97	-7,845.15	-1,165.79	494.82	324.42	170.40	2.904	
19,700.00	12,491.73	19,386.75	12,187.25	109.85	100.42	52.01	-7,945.14	-1,164.92	494.64	322.02	172.62	2.865	
19,800.00	12,492.26	19,486.75	12,188.12	111.20	101.75	52.04	-8,045.13	-1,164.06	494.45	319.61	174.84	2.828	
19,900.00	12,492.78	19,586.75	12,189.00	112.55	103.08	52.07	-8,145.13	-1,163.20	494.27	317.21	177.06	2.792	
20,000.00	12,493.31	19,686.75	12,189.87	113.90	104.42	52.11	-8,245.12	-1,162.34	494.09	314.80	179.29	2.756	
20,100.00	12,493.84	19,786.75	12,190.74	115.25	105.75	52.14	-8,345.11	-1,161.48	493.91	312.39	181.52	2.721	
20,200.00	12,494.36	19,886.75	12,191.61	116.60	107.08	52.18	-8,445.10	-1,160.62	493.73	309.97	183.76	2.687	
20,300.00	12,494.89	19,986.75	12,192.48	117.95	108.42	52.21	-8,545.09	-1,159.76	493.54	307.55	185.99	2.654	
20,400.00	12,495.41	20,086.75	12,193.35	119.30	109.76	52.25	-8,645.08	-1,158.90	493.36	305.13	188.23	2.621	
20,500.00	12,495.94	20,186.75	12,194.23	120.65	111.09	52.28	-8,745.08	-1,158.03	493.18	302.70	190.48	2.589	
20,600.00	12,496.47	20,286.74	12,195.10	122.01	112.43	52.32	-8,845.07	-1,157.17	493.00	300.27	192.73	2.558	
20,700.00	12,496.99	20,386.74	12,195.97	123.36	113.77	52.35	-8,945.06	-1,156.31	492.82	297.84	194.98	2.528	
20,800.00	12,497.52	20,486.74	12,196.84	124.71	115.11	52.38	-9,045.05	-1,155.45	492.64	295.41	197.23	2.498	
20,900.00	12,498.04	20,586.74	12,197.71	126.07	116.45	52.42	-9,145.04	-1,154.59	492.46	292.97	199.49	2.469	
21,000.00	12,498.57	20,686.74	12,198.58	127.42	117.79	52.45	-9,245.04	-1,153.73	492.28	290.53	201.75	2.440	
21,100.00	12,499.10	20,786.74	12,199.46	128.77	119.14	52.49	-9,345.03	-1,152.87	492.10	288.09	204.01	2.412	
21,200.00	12,499.62	20,886.74	12,200.33	130.13	120.48	52.52	-9,445.02	-1,152.01	491.92	285.64	206.27	2.385	
21,300.00	12,500.15	20,986.74	12,201.20	131.48	121.82	52.56	-9,545.01	-1,151.14	491.74	283.19	208.54	2.358	
21,400.00	12,500.68	21,086.74	12,202.07	132.84	123.16	52.59	-9,645.00	-1,150.28	491.56	280.74	210.81	2.332	
21,500.00	12,501.20	21,186.74	12,202.94	134.20	124.51	52.63	-9,745.00	-1,149.42	491.38	278.29	213.09	2.306	
21,600.00	12,501.73	21,286.74	12,203.81	135.55	125.85	52.66	-9,844.99	-1,148.56	491.20	275.83	215.37	2.281	
21,700.00	12,502.25	21,386.74	12,204.68	136.91	127.20	52.70	-9,944.98	-1,147.70	491.02	273.38	217.64	2.256	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
21,800.00	12,502.78	21,486.74	12,205.56	138.26	128.55	52.73	-10,044.97	-1,146.84	490.84	270.91	219.93	2.232	
21,900.00	12,503.31	21,586.74	12,206.43	139.62	129.89	52.77	-10,144.96	-1,145.98	490.66	268.45	222.21	2.208	
22,000.00	12,503.83	21,686.74	12,207.30	140.98	131.24	52.80	-10,244.96	-1,145.12	490.48	265.98	224.50	2.185	
22,100.00	12,504.36	21,786.74	12,208.17	142.33	132.59	52.84	-10,344.95	-1,144.25	490.31	263.51	226.79	2.162	
22,200.00	12,504.89	21,886.74	12,209.04	143.69	133.93	52.87	-10,444.94	-1,143.39	490.13	261.04	229.08	2.140	
22,300.00	12,505.41	21,986.73	12,209.91	145.05	135.28	52.91	-10,544.93	-1,142.53	489.95	258.57	231.38	2.118	
22,400.00	12,505.94	22,086.73	12,210.79	146.41	136.63	52.94	-10,644.92	-1,141.67	489.77	256.09	233.68	2.096	
22,500.00	12,506.46	22,186.73	12,211.66	147.76	137.98	52.98	-10,744.91	-1,140.81	489.59	253.62	235.98	2.075	
22,600.00	12,506.99	22,286.73	12,212.53	149.12	139.33	53.01	-10,844.91	-1,139.95	489.42	251.13	238.28	2.054	
22,700.00	12,507.52	22,386.73	12,213.40	150.48	140.68	53.05	-10,944.90	-1,139.09	489.24	248.65	240.59	2.034	
22,800.00	12,508.04	22,486.73	12,214.27	151.84	142.03	53.08	-11,044.89	-1,138.22	489.06	246.17	242.90	2.013	
22,827.85	12,508.19	22,512.84	12,214.50	152.22	142.38	53.09	-11,071.00	-1,138.00	489.02	245.49	243.52	2.008	
22,830.04	12,508.20	22,512.84	12,214.50	152.25	142.38	53.09	-11,071.00	-1,138.00	489.02	245.48	243.55	2.008	ES, SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 138H - 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	1.00	0.50	0.50	-171.12	-160.00	-25.00	161.94				
100.00	100.00	99.00	100.00	0.98	0.97	-171.12	-160.00	-25.00	161.94	159.99	1.95	82.837	
200.00	200.00	199.00	200.00	1.56	1.56	-171.12	-160.00	-25.00	161.94	158.83	3.12	51.967	
300.00	300.00	299.00	300.00	1.98	1.98	-171.12	-160.00	-25.00	161.94	157.98	3.96	40.914	
400.00	400.00	399.00	400.00	2.33	2.33	-171.12	-160.00	-25.00	161.94	157.29	4.66	34.786	
500.00	500.00	499.00	500.00	2.63	2.63	-171.12	-160.00	-25.00	161.94	156.68	5.27	30.752	
600.00	599.99	598.99	599.99	2.97	2.91	-11.21	-160.00	-25.00	160.66	154.78	5.87	27.358	
700.00	699.91	697.88	698.88	3.26	3.02	-11.59	-160.19	-24.77	156.97	150.69	6.28	25.013	
800.00	799.69	795.58	796.55	3.54	3.30	-12.89	-161.78	-22.87	151.92	145.14	6.79	22.389	
900.00	899.32	893.10	893.94	3.65	3.57	-15.26	-164.97	-19.08	146.45	139.33	7.12	20.565	
1,000.00	998.94	990.61	991.16	3.87	3.75	-18.60	-169.75	-13.38	142.70	135.20	7.50	19.034	
1,100.00	1,098.56	1,090.11	1,090.28	4.07	3.94	-22.50	-175.33	-6.74	140.21	132.31	7.90	17.754	
1,200.00	1,198.18	1,189.61	1,189.41	4.28	4.14	-26.52	-180.90	-0.09	138.40	130.09	8.30	16.665	
1,300.00	1,297.78	1,289.08	1,288.50	4.39	4.34	-36.90	-186.47	6.55	137.26	128.66	8.61	15.948	
1,384.58	1,381.92	1,373.02	1,372.11	4.57	4.51	-49.75	-191.17	12.15	136.88	127.93	8.95	15.292	CC
1,400.00	1,397.24	1,388.29	1,387.33	4.60	4.55	-51.91	-192.03	13.17	136.89	127.88	9.01	15.187	ES
1,500.00	1,496.46	1,485.38	1,483.97	4.82	4.76	-65.15	-197.67	20.54	138.48	129.07	9.41	14.714	
1,600.00	1,595.38	1,580.95	1,578.86	5.04	4.98	-77.75	-203.75	30.10	144.15	134.34	9.81	14.697	
1,700.00	1,693.92	1,674.90	1,671.86	5.27	5.19	-89.61	-210.23	41.76	155.34	145.13	10.20	15.222	
1,800.00	1,792.04	1,766.93	1,762.63	5.49	5.40	-100.30	-217.06	55.35	172.99	162.39	10.61	16.312	
1,900.00	1,889.64	1,856.77	1,850.86	5.71	5.61	-109.51	-224.20	70.66	197.41	186.40	11.01	17.929	
2,000.00	1,986.68	1,944.16	1,936.29	5.94	5.77	-117.16	-231.57	87.50	228.36	216.98	11.38	20.069	
2,100.00	2,083.28	2,034.05	2,023.89	6.11	5.91	-122.72	-239.43	106.10	264.12	252.41	11.71	22.561	
2,200.00	2,179.88	2,124.75	2,112.26	6.34	6.09	-126.84	-247.37	124.89	301.57	289.45	12.13	24.866	
2,300.00	2,276.47	2,215.45	2,200.63	6.61	6.28	-130.08	-255.31	143.68	340.12	327.57	12.55	27.098	
2,400.00	2,373.06	2,306.14	2,289.00	6.90	6.46	-132.67	-263.25	162.47	379.43	366.46	12.98	29.236	
2,500.00	2,469.65	2,396.84	2,377.37	7.20	6.65	-134.78	-271.19	181.26	419.29	405.88	13.41	31.273	
2,600.00	2,566.24	2,487.53	2,465.75	7.50	6.87	-136.53	-279.13	200.05	459.55	445.71	13.84	33.205	
2,700.00	2,662.84	2,578.23	2,554.12	7.82	7.11	-138.00	-287.07	218.84	500.12	485.85	14.27	35.035	
2,800.00	2,759.43	2,668.92	2,642.49	8.13	7.36	-139.25	-295.01	237.63	540.93	526.21	14.71	36.768	
2,900.00	2,856.02	2,759.62	2,730.86	8.45	7.61	-140.33	-302.95	256.41	581.92	566.77	15.15	38.407	
3,000.00	2,952.61	2,850.31	2,819.23	8.78	7.87	-141.27	-310.89	275.20	623.06	607.47	15.59	39.956	
3,100.00	3,049.20	2,941.01	2,907.61	9.10	8.13	-142.09	-318.83	293.99	664.33	648.29	16.04	41.423	
3,200.00	3,145.79	3,031.71	2,995.98	9.43	8.39	-142.82	-326.77	312.78	705.70	689.21	16.48	42.811	
3,300.00	3,242.39	3,122.40	3,084.35	9.77	8.65	-143.47	-334.71	331.57	747.15	730.22	16.93	44.125	
3,400.00	3,338.98	3,213.10	3,172.72	10.10	8.91	-144.04	-342.65	350.36	788.67	771.29	17.38	45.371	
3,500.00	3,435.57	3,303.79	3,261.09	10.44	9.17	-144.57	-350.59	369.15	830.26	812.42	17.83	46.553	
3,600.00	3,532.16	3,394.49	3,349.47	10.78	9.44	-145.04	-358.53	387.94	871.89	853.60	18.29	47.675	
3,700.00	3,628.75	3,485.18	3,437.84	11.12	9.71	-145.47	-366.47	406.73	913.57	894.83	18.74	48.742	
3,800.00	3,725.34	3,575.88	3,526.21	11.46	9.97	-145.86	-374.41	425.52	955.29	936.09	19.20	49.755	
3,900.00	3,821.94	3,666.57	3,614.58	11.80	10.24	-146.22	-382.35	444.31	997.04	977.39	19.66	50.720	
4,000.00	3,918.53	3,757.27	3,702.95	12.14	10.51	-146.55	-390.29	463.10	1,038.83	1,018.71	20.12	51.640	
4,100.00	4,015.12	3,847.97	3,791.33	12.49	10.78	-146.85	-398.23	481.89	1,080.64	1,060.06	20.58	52.516	
4,200.00	4,111.71	3,938.66	3,879.70	12.83	11.05	-147.14	-406.16	500.68	1,122.47	1,101.43	21.04	53.352	
4,300.00	4,208.30	4,029.36	3,968.07	13.18	11.33	-147.40	-414.10	519.47	1,164.32	1,142.82	21.50	54.151	
4,400.00	4,304.90	4,120.05	4,056.44	13.53	11.60	-147.64	-422.04	538.25	1,206.19	1,184.23	21.97	54.914	
4,500.00	4,401.49	4,210.75	4,144.81	13.88	11.87	-147.87	-429.98	557.04	1,248.08	1,225.65	22.43	55.643	
4,600.00	4,498.08	4,301.44	4,233.19	14.23	12.15	-148.08	-437.92	575.83	1,289.99	1,267.09	22.90	56.342	
4,700.00	4,594.67	4,392.14	4,321.56	14.58	12.42	-148.28	-445.86	594.62	1,331.91	1,308.54	23.36	57.010	
4,800.00	4,691.26	4,482.84	4,409.93	14.93	12.70	-148.48	-453.80	613.41	1,373.84	1,350.01	23.83	57.657	
4,900.00	4,788.20	4,574.04	4,498.80	15.26	12.97	-148.97	-461.79	632.31	1,414.72	1,390.41	24.30	58.216	
5,000.00	4,885.74	4,666.17	4,588.57	15.57	13.25	-149.37	-469.85	651.39	1,453.54	1,428.78	24.77	58.689	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 138H - 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	4,983.82	4,759.17	4,679.19	15.85	13.54	-149.69	-477.99	670.66	1,490.29	1,465.06	25.23	59.077	
5,200.00	5,082.39	4,852.98	4,770.59	16.10	13.82	-149.94	-486.21	690.09	1,524.92	1,499.24	25.68	59.388	
5,300.00	5,181.35	4,947.52	4,862.71	16.32	14.11	-150.11	-494.48	709.68	1,557.42	1,531.30	26.12	59.626	
5,400.00	5,280.66	5,042.74	4,955.49	16.52	14.40	-150.22	-502.82	729.41	1,587.77	1,561.22	26.55	59.798	
5,500.00	5,380.25	5,138.57	5,048.86	16.68	14.70	-150.26	-511.21	749.26	1,615.96	1,588.99	26.97	59.909	
5,600.00	5,480.03	5,237.49	5,145.25	16.82	14.99	-150.24	-519.87	769.75	1,641.97	1,614.59	27.38	59.970	
5,700.00	5,579.96	5,398.62	5,303.02	16.93	15.43	-150.04	-532.57	799.82	1,663.80	1,635.74	28.05	59.307	
5,800.00	5,679.94	5,563.10	5,465.35	16.99	15.82	89.08	-542.86	824.17	1,679.59	1,650.97	28.62	58.677	
5,900.00	5,779.94	5,729.84	5,630.93	17.03	16.14	89.35	-550.51	842.27	1,690.40	1,661.30	29.09	58.102	
6,000.00	5,879.94	5,898.01	5,798.61	17.07	16.39	89.52	-555.36	853.75	1,697.20	1,667.71	29.49	57.544	
6,100.00	5,979.94	6,066.95	5,967.47	17.10	16.55	89.59	-557.34	858.44	1,699.97	1,670.19	29.77	57.095	
6,200.00	6,079.94	6,179.43	6,079.94	17.14	16.61	89.59	-557.39	858.55	1,700.03	1,670.16	29.87	56.913	
6,300.00	6,179.94	6,279.43	6,179.94	17.17	16.65	89.59	-557.39	858.55	1,700.03	1,670.08	29.95	56.764	
6,400.00	6,279.94	6,379.43	6,279.94	17.21	16.69	89.59	-557.39	858.55	1,700.03	1,670.01	30.03	56.615	
6,500.00	6,379.94	6,479.43	6,379.94	17.25	16.74	89.59	-557.39	858.55	1,700.03	1,669.93	30.11	56.465	
6,600.00	6,479.94	6,579.43	6,479.94	17.29	16.78	89.59	-557.39	858.55	1,700.03	1,669.85	30.19	56.315	
6,700.00	6,579.94	6,679.43	6,579.94	17.32	16.82	89.59	-557.39	858.55	1,700.03	1,669.77	30.27	56.164	
6,800.00	6,679.94	6,779.43	6,679.94	17.36	16.87	89.59	-557.39	858.55	1,700.03	1,669.68	30.35	56.013	
6,900.00	6,779.94	6,879.43	6,779.94	17.40	16.91	89.59	-557.39	858.55	1,700.03	1,669.60	30.43	55.862	
7,000.00	6,879.94	6,979.43	6,879.94	17.44	16.95	89.59	-557.39	858.55	1,700.03	1,669.52	30.52	55.710	
7,100.00	6,979.94	7,079.43	6,979.94	17.48	17.00	89.59	-557.39	858.55	1,700.03	1,669.43	30.60	55.558	
7,200.00	7,079.94	7,179.43	7,079.94	17.52	17.04	89.59	-557.39	858.55	1,700.03	1,669.35	30.68	55.405	
7,300.00	7,179.94	7,279.43	7,179.94	17.56	17.09	89.59	-557.39	858.55	1,700.03	1,669.27	30.77	55.252	
7,400.00	7,279.94	7,379.43	7,279.94	17.60	17.14	89.59	-557.39	858.55	1,700.03	1,669.18	30.85	55.099	
7,500.00	7,379.94	7,479.43	7,379.94	17.64	17.18	89.59	-557.39	858.55	1,700.03	1,669.09	30.94	54.946	
7,600.00	7,479.94	7,579.43	7,479.94	17.68	17.23	89.59	-557.39	858.55	1,700.03	1,669.01	31.03	54.792	
7,700.00	7,579.94	7,679.43	7,579.94	17.72	17.27	89.59	-557.39	858.55	1,700.03	1,668.92	31.11	54.638	
7,800.00	7,679.94	7,779.43	7,679.94	17.76	17.32	89.59	-557.39	858.55	1,700.03	1,668.83	31.20	54.484	
7,900.00	7,779.94	7,879.43	7,779.94	17.80	17.37	89.59	-557.39	858.55	1,700.03	1,668.74	31.29	54.330	
8,000.00	7,879.94	7,979.43	7,879.94	17.84	17.42	89.59	-557.39	858.55	1,700.03	1,668.65	31.38	54.176	
8,100.00	7,979.94	8,079.43	7,979.94	17.88	17.46	89.59	-557.39	858.55	1,700.03	1,668.56	31.47	54.021	
8,200.00	8,079.94	8,179.43	8,079.94	17.93	17.51	89.59	-557.39	858.55	1,700.03	1,668.47	31.56	53.867	
8,300.00	8,179.94	8,279.43	8,179.94	17.97	17.56	89.59	-557.39	858.55	1,700.03	1,668.38	31.65	53.712	
8,400.00	8,279.94	8,379.43	8,279.94	18.01	17.61	89.59	-557.39	858.55	1,700.03	1,668.29	31.74	53.557	
8,500.00	8,379.94	8,479.43	8,379.94	18.05	17.66	89.59	-557.39	858.55	1,700.03	1,668.20	31.83	53.402	
8,600.00	8,479.94	8,579.43	8,479.94	18.10	17.70	89.59	-557.39	858.55	1,700.03	1,668.11	31.93	53.247	
8,700.00	8,579.94	8,679.43	8,579.94	18.14	17.75	89.59	-557.39	858.55	1,700.03	1,668.01	32.02	53.092	
8,800.00	8,679.94	8,779.43	8,679.94	18.18	17.80	89.59	-557.39	858.55	1,700.03	1,667.92	32.11	52.937	
8,900.00	8,779.94	8,879.43	8,779.94	18.23	17.85	89.59	-557.39	858.55	1,700.03	1,667.83	32.21	52.782	
9,000.00	8,879.94	8,979.43	8,879.94	18.27	17.90	89.59	-557.39	858.55	1,700.03	1,667.73	32.30	52.627	
9,100.00	8,979.94	9,079.43	8,979.94	18.32	17.95	89.59	-557.39	858.55	1,700.03	1,667.64	32.40	52.472	
9,200.00	9,079.94	9,179.43	9,079.94	18.36	18.00	89.59	-557.39	858.55	1,700.03	1,667.54	32.49	52.317	
9,300.00	9,179.94	9,279.43	9,179.94	18.41	18.05	89.59	-557.39	858.55	1,700.03	1,667.44	32.59	52.163	
9,400.00	9,279.94	9,379.43	9,279.94	18.45	18.10	89.59	-557.39	858.55	1,700.03	1,667.35	32.69	52.008	
9,500.00	9,379.94	9,479.43	9,379.94	18.50	18.15	89.59	-557.39	858.55	1,700.03	1,667.25	32.79	51.853	
9,600.00	9,479.94	9,579.43	9,479.94	18.54	18.20	89.59	-557.39	858.55	1,700.03	1,667.15	32.88	51.699	
9,700.00	9,579.94	9,679.43	9,579.94	18.59	18.26	89.59	-557.39	858.55	1,700.03	1,667.05	32.98	51.544	
9,800.00	9,679.94	9,779.43	9,679.94	18.64	18.31	89.59	-557.39	858.55	1,700.03	1,666.95	33.08	51.390	
9,900.00	9,779.94	9,879.43	9,779.94	18.68	18.36	89.59	-557.39	858.55	1,700.03	1,666.85	33.18	51.235	
10,000.00	9,879.94	9,979.43	9,879.94	18.73	18.41	89.59	-557.39	858.55	1,700.03	1,666.75	33.28	51.081	
10,100.00	9,979.94	10,079.43	9,979.94	18.78	18.46	89.59	-557.39	858.55	1,700.03	1,666.65	33.38	50.927	
10,200.00	10,079.94	10,179.43	10,079.94	18.82	18.52	89.59	-557.39	858.55	1,700.03	1,666.55	33.48	50.774	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 138H - 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	10,179.94	10,279.43	10,179.94	18.87	18.57	89.59	-557.39	858.55	1,700.03	1,666.45	33.58	50.620	
10,400.00	10,279.94	10,379.43	10,279.94	18.92	18.62	89.59	-557.39	858.55	1,700.03	1,666.35	33.69	50.467	
10,500.00	10,379.94	10,479.43	10,379.94	18.97	18.67	89.59	-557.39	858.55	1,700.03	1,666.25	33.79	50.314	
10,600.00	10,479.94	10,579.43	10,479.94	19.02	18.73	89.59	-557.39	858.55	1,700.03	1,666.14	33.89	50.161	
10,700.00	10,579.94	10,679.43	10,579.94	19.07	18.78	89.59	-557.39	858.55	1,700.03	1,666.04	34.00	50.008	
10,800.00	10,679.94	10,779.43	10,679.94	19.11	18.83	89.59	-557.39	858.55	1,700.03	1,665.93	34.10	49.856	
10,900.00	10,779.94	10,879.43	10,779.94	19.16	18.89	89.59	-557.39	858.55	1,700.03	1,665.83	34.20	49.704	
11,000.00	10,879.94	10,979.43	10,879.94	19.21	18.94	89.59	-557.39	858.55	1,700.03	1,665.73	34.31	49.552	
11,100.00	10,979.94	11,079.43	10,979.94	19.26	19.00	89.59	-557.39	858.55	1,700.03	1,665.62	34.41	49.400	
11,200.00	11,079.94	11,179.43	11,079.94	19.31	19.05	89.59	-557.39	858.55	1,700.03	1,665.51	34.52	49.249	
11,300.00	11,179.94	11,279.43	11,179.94	19.36	19.11	89.59	-557.39	858.55	1,700.03	1,665.41	34.63	49.098	
11,400.00	11,279.94	11,379.43	11,279.94	19.41	19.16	89.59	-557.39	858.55	1,700.03	1,665.30	34.73	48.947	
11,500.00	11,379.94	11,479.43	11,379.94	19.46	19.22	89.59	-557.39	858.55	1,700.03	1,665.19	34.84	48.796	
11,506.62	11,386.56	11,486.05	11,386.56	19.47	19.22	89.59	-557.39	858.55	1,700.03	1,665.19	34.85	48.787	
11,600.00	11,479.94	11,579.28	11,479.78	19.51	19.27	89.61	-557.93	858.55	1,700.04	1,665.11	34.93	48.672	
11,700.00	11,579.94	11,676.84	11,576.43	19.56	19.41	90.03	-570.40	858.67	1,700.11	1,665.07	35.04	48.519	
11,800.00	11,679.94	11,767.75	11,663.37	19.61	19.58	90.91	-596.62	858.91	1,700.64	1,665.43	35.21	48.295	
11,900.00	11,779.94	11,850.00	11,737.59	19.67	19.79	92.10	-631.92	859.23	1,702.34	1,666.90	35.44	48.034	
12,000.00	11,879.94	11,918.58	11,795.08	19.72	19.99	93.35	-669.23	859.57	1,706.03	1,670.32	35.72	47.766	
12,100.00	11,979.48	11,981.68	11,843.70	19.84	20.21	-84.37	-709.40	859.93	1,711.77	1,675.72	36.05	47.484	
12,200.00	12,076.09	12,050.00	11,891.02	20.05	20.48	-82.52	-758.62	860.38	1,718.60	1,682.04	36.56	47.010	
12,300.00	12,166.83	12,100.00	11,921.75	20.32	20.70	-81.05	-798.04	860.74	1,725.87	1,688.67	37.20	46.394	
12,400.00	12,248.94	12,162.28	11,955.05	20.67	21.02	-79.53	-850.64	861.21	1,733.07	1,695.03	38.04	45.556	
12,500.00	12,319.94	12,220.74	11,980.93	21.11	21.35	-78.26	-903.02	861.69	1,739.70	1,700.68	39.02	44.582	
12,600.00	12,377.66	12,278.68	12,001.20	21.65	21.71	-77.24	-957.27	862.18	1,745.32	1,705.20	40.13	43.496	
12,700.00	12,420.35	12,336.27	12,015.81	22.29	22.11	-76.48	-1,012.95	862.69	1,749.59	1,708.26	41.32	42.339	
12,800.00	12,446.71	12,400.00	12,025.37	23.03	22.58	-76.01	-1,075.92	863.26	1,752.26	1,709.63	42.63	41.106	
12,900.04	12,455.95	12,451.29	12,027.95	23.86	22.98	-75.87	-1,127.13	863.73	1,753.13	1,709.25	43.88	39.952	
13,000.00	12,456.48	12,551.25	12,028.66	24.75	23.81	-75.87	-1,227.08	864.64	1,753.10	1,707.52	45.58	38.460	
13,100.00	12,457.00	12,651.25	12,029.37	25.69	24.69	-75.88	-1,327.07	865.54	1,753.06	1,705.69	47.37	37.005	
13,200.00	12,457.53	12,751.25	12,030.08	26.67	25.61	-75.89	-1,427.07	866.45	1,753.03	1,703.78	49.24	35.599	
13,300.00	12,458.05	12,851.25	12,030.79	27.68	26.57	-75.89	-1,527.06	867.36	1,752.99	1,701.81	51.18	34.248	
13,400.00	12,458.58	12,951.25	12,031.49	28.73	27.57	-75.90	-1,627.05	868.27	1,752.95	1,699.77	53.19	32.957	
13,500.00	12,459.11	13,051.25	12,032.20	29.80	28.60	-75.90	-1,727.05	869.18	1,752.92	1,697.67	55.25	31.727	
13,600.00	12,459.63	13,151.25	12,032.91	30.90	29.65	-75.91	-1,827.04	870.09	1,752.88	1,695.52	57.36	30.559	
13,700.00	12,460.16	13,251.25	12,033.62	32.01	30.72	-75.92	-1,927.03	871.00	1,752.85	1,693.33	59.52	29.452	
13,800.00	12,460.69	13,351.25	12,034.33	33.15	31.82	-75.92	-2,027.03	871.90	1,752.81	1,691.10	61.71	28.403	
13,900.00	12,461.21	13,451.25	12,035.04	34.30	32.93	-75.93	-2,127.02	872.81	1,752.78	1,688.83	63.94	27.411	
14,000.00	12,461.74	13,551.25	12,035.75	35.46	34.07	-75.93	-2,227.01	873.72	1,752.74	1,686.53	66.21	26.473	
14,100.00	12,462.26	13,651.25	12,036.46	36.64	35.22	-75.94	-2,327.01	874.63	1,752.71	1,684.20	68.50	25.587	
14,200.00	12,462.79	13,751.25	12,037.17	37.84	36.38	-75.95	-2,427.00	875.54	1,752.67	1,681.85	70.82	24.748	
14,300.00	12,463.32	13,851.25	12,037.88	39.04	37.56	-75.95	-2,526.99	876.45	1,752.63	1,679.47	73.16	23.955	
14,400.00	12,463.84	13,951.25	12,038.59	40.25	38.75	-75.96	-2,626.98	877.36	1,752.60	1,677.07	75.53	23.204	
14,500.00	12,464.37	14,051.25	12,039.29	41.48	39.95	-75.96	-2,726.98	878.26	1,752.56	1,674.65	77.91	22.493	
14,600.00	12,464.90	14,151.25	12,040.00	42.71	41.15	-75.97	-2,826.97	879.17	1,752.53	1,672.21	80.32	21.820	
14,700.00	12,465.42	14,251.25	12,040.71	43.95	42.37	-75.97	-2,926.96	880.08	1,752.49	1,669.76	82.74	21.182	
14,800.00	12,465.95	14,351.24	12,041.42	45.19	43.60	-75.98	-3,026.96	880.99	1,752.46	1,667.29	85.17	20.576	
14,900.00	12,466.47	14,451.24	12,042.13	46.45	44.84	-75.99	-3,126.95	881.90	1,752.42	1,664.80	87.62	20.000	
15,000.00	12,467.00	14,551.24	12,042.84	47.71	46.08	-75.99	-3,226.94	882.81	1,752.39	1,662.31	90.08	19.454	
15,100.00	12,467.53	14,651.24	12,043.55	48.97	47.33	-76.00	-3,326.94	883.72	1,752.35	1,659.80	92.55	18.934	
15,200.00	12,468.05	14,751.24	12,044.26	50.24	48.58	-76.00	-3,426.93	884.62	1,752.32	1,657.28	95.04	18.438	
15,300.00	12,468.58	14,851.24	12,044.97	51.52	49.84	-76.01	-3,526.92	885.53	1,752.28	1,654.75	97.53	17.967	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 138H - 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	12,469.10	14,951.24	12,045.68	52.80	51.11	-76.02	-3,626.92	886.44	1,752.25	1,652.21	100.03	17.517	
15,500.00	12,469.63	15,051.24	12,046.39	54.08	52.38	-76.02	-3,726.91	887.35	1,752.21	1,649.67	102.54	17.088	
15,600.00	12,470.16	15,151.24	12,047.09	55.37	53.66	-76.03	-3,826.90	888.26	1,752.17	1,647.11	105.06	16.678	
15,700.00	12,470.68	15,251.24	12,047.80	56.66	54.94	-76.03	-3,926.90	889.17	1,752.14	1,644.55	107.59	16.286	
15,800.00	12,471.21	15,351.24	12,048.51	57.95	56.22	-76.04	-4,026.89	890.08	1,752.10	1,641.98	110.12	15.911	
15,900.00	12,471.74	15,451.24	12,049.22	59.25	57.51	-76.05	-4,126.88	890.98	1,752.07	1,639.41	112.66	15.552	
16,000.00	12,472.26	15,551.24	12,049.93	60.55	58.80	-76.05	-4,226.88	891.89	1,752.03	1,636.83	115.21	15.208	
16,100.00	12,472.79	15,651.24	12,050.64	61.86	60.10	-76.06	-4,326.87	892.80	1,752.00	1,634.24	117.76	14.878	
16,200.00	12,473.31	15,751.24	12,051.35	63.16	61.39	-76.06	-4,426.86	893.71	1,751.96	1,631.65	120.31	14.562	
16,300.00	12,473.84	15,851.24	12,052.06	64.47	62.70	-76.07	-4,526.86	894.62	1,751.93	1,629.05	122.88	14.258	
16,400.00	12,474.37	15,951.24	12,052.77	65.78	64.00	-76.07	-4,626.85	895.53	1,751.89	1,626.45	125.44	13.966	
16,500.00	12,474.89	16,051.24	12,053.48	67.10	65.31	-76.08	-4,726.84	896.44	1,751.86	1,623.85	128.01	13.685	
16,600.00	12,475.42	16,151.24	12,054.19	68.41	66.61	-76.09	-4,826.84	897.34	1,751.82	1,621.24	130.59	13.415	
16,700.00	12,475.94	16,251.24	12,054.89	69.73	67.93	-76.09	-4,926.83	898.25	1,751.79	1,618.62	133.17	13.155	
16,800.00	12,476.47	16,351.24	12,055.60	71.05	69.24	-76.10	-5,026.82	899.16	1,751.75	1,616.00	135.75	12.904	
16,900.00	12,477.00	16,451.24	12,056.31	72.37	70.55	-76.10	-5,126.81	900.07	1,751.72	1,613.38	138.33	12.663	
17,000.00	12,477.52	16,551.24	12,057.02	73.70	71.87	-76.11	-5,226.81	900.98	1,751.68	1,610.76	140.92	12.430	
17,100.00	12,478.05	16,651.24	12,057.73	75.02	73.19	-76.12	-5,326.80	901.89	1,751.65	1,608.13	143.52	12.205	
17,200.00	12,478.58	16,751.24	12,058.44	76.35	74.51	-76.12	-5,426.79	902.80	1,751.61	1,605.50	146.11	11.988	
17,300.00	12,479.10	16,851.24	12,059.15	77.68	75.83	-76.13	-5,526.79	903.70	1,751.58	1,602.87	148.71	11.779	
17,400.00	12,479.63	16,951.24	12,059.86	79.01	77.16	-76.13	-5,626.78	904.61	1,751.54	1,600.23	151.31	11.576	
17,500.00	12,480.15	17,051.24	12,060.57	80.34	78.48	-76.14	-5,726.77	905.52	1,751.51	1,597.59	153.91	11.380	
17,600.00	12,480.68	17,151.24	12,061.28	81.67	79.81	-76.15	-5,826.77	906.43	1,751.47	1,594.95	156.52	11.190	
17,700.00	12,481.21	17,251.24	12,061.99	83.00	81.14	-76.15	-5,926.76	907.34	1,751.44	1,592.31	159.13	11.007	
17,800.00	12,481.73	17,351.24	12,062.69	84.34	82.47	-76.16	-6,026.75	908.25	1,751.40	1,589.67	161.74	10.829	
17,900.00	12,482.26	17,451.24	12,063.40	85.67	83.80	-76.16	-6,126.75	909.16	1,751.37	1,587.02	164.35	10.656	
18,000.00	12,482.79	17,551.24	12,064.11	87.01	85.13	-76.17	-6,226.74	910.06	1,751.33	1,584.37	166.96	10.489	
18,100.00	12,483.31	17,651.24	12,064.82	88.35	86.47	-76.17	-6,326.73	910.97	1,751.30	1,581.72	169.58	10.327	
18,200.00	12,483.84	17,751.24	12,065.53	89.68	87.80	-76.18	-6,426.73	911.88	1,751.26	1,579.06	172.20	10.170	
18,300.00	12,484.36	17,851.24	12,066.24	91.02	89.14	-76.19	-6,526.72	912.79	1,751.23	1,576.41	174.82	10.017	
18,400.00	12,484.89	17,951.24	12,066.95	92.36	90.47	-76.19	-6,626.71	913.70	1,751.19	1,573.75	177.44	9.869	
18,500.00	12,485.42	18,051.24	12,067.66	93.70	91.81	-76.20	-6,726.71	914.61	1,751.16	1,571.10	180.06	9.725	
18,600.00	12,485.94	18,151.24	12,068.37	95.05	93.15	-76.20	-6,826.70	915.52	1,751.12	1,568.44	182.69	9.585	
18,700.00	12,486.47	18,251.24	12,069.08	96.39	94.49	-76.21	-6,926.69	916.42	1,751.09	1,565.77	185.32	9.449	
18,800.00	12,486.99	18,351.24	12,069.78	97.73	95.83	-76.22	-7,026.69	917.33	1,751.06	1,563.11	187.94	9.317	
18,900.00	12,487.52	18,451.24	12,070.49	99.07	97.17	-76.22	-7,126.68	918.24	1,751.02	1,560.45	190.57	9.188	
19,000.00	12,488.05	18,551.24	12,071.20	100.42	98.51	-76.23	-7,226.67	919.15	1,750.99	1,557.78	193.20	9.063	
19,100.00	12,488.57	18,651.24	12,071.91	101.76	99.85	-76.23	-7,326.67	920.06	1,750.95	1,555.12	195.84	8.941	
19,200.00	12,489.10	18,751.24	12,072.62	103.11	101.20	-76.24	-7,426.66	920.97	1,750.92	1,552.45	198.47	8.822	
19,300.00	12,489.63	18,851.24	12,073.33	104.46	102.54	-76.25	-7,526.65	921.88	1,750.88	1,549.78	201.10	8.706	
19,400.00	12,490.15	18,951.24	12,074.04	105.80	103.89	-76.25	-7,626.64	922.78	1,750.85	1,547.11	203.74	8.594	
19,500.00	12,490.68	19,051.24	12,074.75	107.15	105.23	-76.26	-7,726.64	923.69	1,750.81	1,544.44	206.37	8.484	
19,600.00	12,491.20	19,151.24	12,075.46	108.50	106.58	-76.26	-7,826.63	924.60	1,750.78	1,541.77	209.01	8.376	
19,700.00	12,491.73	19,251.24	12,076.17	109.85	107.92	-76.27	-7,926.62	925.51	1,750.74	1,539.09	211.65	8.272	
19,800.00	12,492.26	19,351.24	12,076.88	111.20	109.27	-76.27	-8,026.62	926.42	1,750.71	1,536.42	214.29	8.170	
19,900.00	12,492.78	19,451.24	12,077.58	112.55	110.62	-76.28	-8,126.61	927.33	1,750.68	1,533.74	216.93	8.070	
20,000.00	12,493.31	19,551.24	12,078.29	113.90	111.97	-76.29	-8,226.60	928.24	1,750.64	1,531.07	219.57	7.973	
20,100.00	12,493.84	19,651.24	12,079.00	115.25	113.31	-76.29	-8,326.60	929.14	1,750.61	1,528.39	222.22	7.878	
20,200.00	12,494.36	19,751.24	12,079.71	116.60	114.66	-76.30	-8,426.59	930.05	1,750.57	1,525.71	224.86	7.785	
20,300.00	12,494.89	19,851.24	12,080.42	117.95	116.01	-76.30	-8,526.58	930.96	1,750.54	1,523.03	227.50	7.695	
20,400.00	12,495.41	19,951.24	12,081.13	119.30	117.36	-76.31	-8,626.58	931.87	1,750.50	1,520.35	230.15	7.606	
20,500.00	12,495.94	20,051.24	12,081.84	120.65	118.71	-76.32	-8,726.57	932.78	1,750.47	1,517.67	232.79	7.519	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 138H - 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
20,600.00	12,496.47	20,151.24	12,082.55	122.01	120.06	-76.32	-8,826.56	933.69	1,750.43	1,514.99	235.44	7.435	
20,700.00	12,496.99	20,251.24	12,083.26	123.36	121.41	-76.33	-8,926.56	934.60	1,750.40	1,512.31	238.09	7.352	
20,800.00	12,497.52	20,351.24	12,083.97	124.71	122.77	-76.33	-9,026.55	935.50	1,750.37	1,509.63	240.74	7.271	
20,900.00	12,498.04	20,451.23	12,084.68	126.07	124.12	-76.34	-9,126.54	936.41	1,750.33	1,506.95	243.39	7.192	
21,000.00	12,498.57	20,551.23	12,085.38	127.42	125.47	-76.35	-9,226.54	937.32	1,750.30	1,504.26	246.04	7.114	
21,100.00	12,499.10	20,651.23	12,086.09	128.77	126.82	-76.35	-9,326.53	938.23	1,750.26	1,501.58	248.69	7.038	
21,200.00	12,499.62	20,751.23	12,086.80	130.13	128.18	-76.36	-9,426.52	939.14	1,750.23	1,498.89	251.34	6.964	
21,300.00	12,500.15	20,851.23	12,087.51	131.48	129.53	-76.36	-9,526.52	940.05	1,750.19	1,496.21	253.99	6.891	
21,400.00	12,500.68	20,951.23	12,088.22	132.84	130.88	-76.37	-9,626.51	940.96	1,750.16	1,493.52	256.64	6.820	
21,500.00	12,501.20	21,051.23	12,088.93	134.20	132.24	-76.37	-9,726.50	941.87	1,750.13	1,490.83	259.29	6.750	
21,600.00	12,501.73	21,151.23	12,089.64	135.55	133.59	-76.38	-9,826.49	942.77	1,750.09	1,488.14	261.95	6.681	
21,700.00	12,502.25	21,251.23	12,090.35	136.91	134.95	-76.39	-9,926.49	943.68	1,750.06	1,485.46	264.60	6.614	
21,800.00	12,502.78	21,351.23	12,091.06	138.26	136.30	-76.39	-10,026.48	944.59	1,750.02	1,482.77	267.26	6.548	
21,900.00	12,503.31	21,451.23	12,091.77	139.62	137.66	-76.40	-10,126.47	945.50	1,749.99	1,480.08	269.91	6.484	
22,000.00	12,503.83	21,551.23	12,092.48	140.98	139.01	-76.40	-10,226.47	946.41	1,749.96	1,477.39	272.57	6.420	
22,100.00	12,504.36	21,651.23	12,093.18	142.33	140.37	-76.41	-10,326.46	947.32	1,749.92	1,474.70	275.22	6.358	
22,200.00	12,504.89	21,751.23	12,093.89	143.69	141.72	-76.42	-10,426.45	948.23	1,749.89	1,472.01	277.88	6.297	
22,300.00	12,505.41	21,851.23	12,094.60	145.05	143.08	-76.42	-10,526.45	949.13	1,749.85	1,469.32	280.54	6.238	
22,400.00	12,505.94	21,951.23	12,095.31	146.41	144.44	-76.43	-10,626.44	950.04	1,749.82	1,466.62	283.19	6.179	
22,500.00	12,506.46	22,051.23	12,096.02	147.76	145.79	-76.43	-10,726.43	950.95	1,749.79	1,463.93	285.85	6.121	
22,600.00	12,506.99	22,151.23	12,096.73	149.12	147.15	-76.44	-10,826.43	951.86	1,749.75	1,461.24	288.51	6.065	
22,700.00	12,507.52	22,251.23	12,097.44	150.48	148.51	-76.45	-10,926.42	952.77	1,749.72	1,458.55	291.17	6.009	
22,800.00	12,508.04	22,351.23	12,098.15	151.84	149.87	-76.45	-11,026.41	953.68	1,749.68	1,455.85	293.83	5.955	
22,830.04	12,508.20	22,381.27	12,098.36	152.25	150.27	-76.45	-11,056.45	953.95	1,749.67	1,455.04	294.63	5.939	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 151H - OH - Plan 1

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
3,100.00	3,049.20	2,699.33	2,671.44	9.10	7.69	16.27	-883.08	-2,671.05	2,425.39	2,409.53	15.86	152.964	
3,200.00	3,145.79	2,796.90	2,767.06	9.43	7.94	16.73	-875.03	-2,688.75	2,415.99	2,399.67	16.32	148.057	
3,300.00	3,242.39	2,894.47	2,862.67	9.77	8.19	17.20	-866.97	-2,706.45	2,406.75	2,389.96	16.78	143.406	
3,400.00	3,338.98	2,992.04	2,958.28	10.10	8.44	17.67	-858.92	-2,724.14	2,397.67	2,380.42	17.25	139.002	
3,500.00	3,435.57	3,089.61	3,053.90	10.44	8.69	18.14	-850.87	-2,741.84	2,388.76	2,371.04	17.72	134.823	
3,600.00	3,532.16	3,187.18	3,149.51	10.78	8.95	18.61	-842.81	-2,759.54	2,380.02	2,361.83	18.19	130.856	
3,700.00	3,628.75	3,284.75	3,245.13	11.12	9.21	19.09	-834.76	-2,777.24	2,371.45	2,352.79	18.66	127.084	
3,800.00	3,725.34	3,382.32	3,340.74	11.46	9.46	19.57	-826.70	-2,794.94	2,363.05	2,343.91	19.13	123.495	
3,900.00	3,821.94	3,479.90	3,436.35	11.80	9.72	20.06	-818.65	-2,812.63	2,354.82	2,335.21	19.61	120.076	
4,000.00	3,918.53	3,577.47	3,531.97	12.14	9.98	20.54	-810.59	-2,830.33	2,346.77	2,326.68	20.09	116.818	
4,100.00	4,015.12	3,675.04	3,627.58	12.49	10.24	21.03	-802.54	-2,848.03	2,338.90	2,318.33	20.57	113.709	
4,200.00	4,111.71	3,772.61	3,723.19	12.83	10.50	21.53	-794.48	-2,865.73	2,331.21	2,310.16	21.05	110.740	
4,300.00	4,208.30	3,870.18	3,818.81	13.18	10.76	22.03	-786.43	-2,883.43	2,323.70	2,302.16	21.54	107.902	
4,400.00	4,304.90	3,967.75	3,914.42	13.53	11.02	22.53	-778.37	-2,901.12	2,316.37	2,294.35	22.02	105.189	
4,500.00	4,401.49	4,065.32	4,010.04	13.88	11.28	23.03	-770.32	-2,918.82	2,309.22	2,286.71	22.51	102.592	
4,600.00	4,498.08	4,162.89	4,105.65	14.23	11.54	23.53	-762.26	-2,936.52	2,302.27	2,279.27	23.00	100.104	
4,700.00	4,594.67	4,260.46	4,201.26	14.58	11.80	24.04	-754.21	-2,954.22	2,295.50	2,272.00	23.49	97.720	
4,800.00	4,691.26	4,358.03	4,296.88	14.93	12.07	24.55	-746.15	-2,971.92	2,288.92	2,264.93	23.98	95.444	
4,900.00	4,788.20	4,455.79	4,392.67	15.26	12.33	25.02	-738.08	-2,989.65	2,283.76	2,259.27	24.48	93.273	
5,000.00	4,885.74	4,553.86	4,488.77	15.57	12.59	25.48	-729.99	-3,007.44	2,281.15	2,256.17	24.98	91.328	
5,053.71	4,938.36	4,606.63	4,540.49	15.72	12.73	25.73	-725.63	-3,017.01	2,280.78	2,255.55	25.24	90.378	CC, ES
5,100.00	4,983.82	4,652.17	4,585.11	15.85	12.86	25.94	-721.87	-3,025.27	2,281.05	2,255.59	25.46	89.598	
5,200.00	5,082.39	4,750.66	4,681.62	16.10	13.12	26.38	-713.74	-3,043.13	2,283.45	2,257.52	25.93	88.072	
5,300.00	5,181.35	4,849.25	4,778.24	16.32	13.39	26.80	-705.60	-3,061.02	2,288.31	2,261.93	26.38	86.740	
5,400.00	5,280.66	4,947.89	4,874.90	16.52	13.66	27.22	-697.46	-3,078.91	2,295.61	2,268.79	26.82	85.594	
5,500.00	5,380.25	5,046.50	4,971.53	16.68	13.92	27.62	-689.32	-3,096.79	2,305.31	2,278.07	27.24	84.624	
5,600.00	5,480.03	5,145.01	5,068.07	16.82	14.19	28.01	-681.19	-3,114.66	2,317.39	2,289.75	27.65	83.827	
5,700.00	5,579.96	5,243.37	5,164.45	16.93	14.45	28.38	-673.07	-3,132.50	2,331.82	2,303.79	28.03	83.198	
5,800.00	5,679.94	5,341.49	5,260.61	16.99	14.72	-92.36	-664.97	-3,150.30	2,348.57	2,320.23	28.34	82.884	
5,900.00	5,779.94	5,439.49	5,356.64	17.03	14.99	-92.15	-656.88	-3,168.08	2,366.44	2,337.85	28.60	82.755	
6,000.00	5,879.94	5,537.48	5,452.67	17.07	15.25	-91.93	-648.79	-3,185.85	2,384.35	2,355.49	28.86	82.630	
6,100.00	5,979.94	5,635.48	5,548.69	17.10	15.52	-91.72	-640.70	-3,203.63	2,402.28	2,373.17	29.12	82.507	
6,200.00	6,079.94	5,733.47	5,644.72	17.14	15.78	-91.52	-632.61	-3,221.40	2,420.25	2,390.87	29.38	82.388	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 152H - OH - Plan #3

Offset Site Error: 0.00 usft

Survey Program: 204-MWD+HRGM+SAG+FDIR (rev.5), 10536-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
1,200.00	1,198.18	1,396.99	1,394.98	4.28	5.02	52.48	-786.93	-2,310.43	2,419.91	2,410.76	9.15	264.440	
1,300.00	1,297.78	1,541.56	1,538.92	4.39	5.32	46.65	-779.91	-2,298.97	2,405.32	2,395.78	9.54	252.215	
1,400.00	1,397.24	1,642.57	1,639.38	4.60	5.52	37.06	-774.78	-2,289.78	2,387.32	2,377.37	9.95	239.916	
1,500.00	1,496.46	1,733.84	1,730.17	4.82	5.71	30.40	-770.20	-2,281.63	2,366.98	2,356.62	10.35	228.642	
1,600.00	1,595.38	1,820.31	1,816.22	5.04	5.88	25.66	-766.06	-2,274.17	2,344.45	2,333.70	10.75	218.103	
1,700.00	1,693.92	1,908.88	1,904.39	5.27	6.06	22.19	-762.12	-2,266.83	2,319.83	2,308.68	11.15	208.004	
1,800.00	1,792.04	1,994.70	1,989.86	5.49	6.22	19.58	-758.36	-2,260.00	2,293.03	2,281.48	11.55	198.509	
1,900.00	1,889.64	2,086.57	2,081.37	5.71	6.40	17.61	-753.80	-2,253.27	2,264.17	2,252.21	11.96	189.335	
2,000.00	1,986.68	2,181.35	2,175.75	5.94	6.59	16.10	-748.43	-2,246.42	2,232.76	2,220.39	12.37	180.506	
2,100.00	2,083.28	2,293.67	2,287.58	6.11	6.80	16.10	-741.97	-2,238.18	2,199.59	2,186.85	12.74	172.627	
2,200.00	2,179.88	2,566.90	2,558.18	6.34	7.45	16.91	-724.20	-2,205.61	2,162.31	2,148.82	13.49	160.332	
2,300.00	2,276.47	2,711.08	2,699.61	6.61	7.77	17.42	-710.87	-2,181.04	2,119.50	2,105.54	13.96	151.841	
2,400.00	2,373.06	2,776.23	2,763.35	6.90	7.90	17.73	-702.77	-2,170.23	2,076.45	2,062.12	14.32	144.967	
2,500.00	2,469.65	2,845.98	2,831.63	7.20	8.04	18.10	-693.34	-2,159.57	2,034.38	2,019.69	14.69	138.443	
2,600.00	2,566.24	2,916.28	2,900.62	7.50	8.18	18.47	-684.51	-2,149.30	1,993.28	1,978.21	15.07	132.280	
2,700.00	2,662.84	2,991.00	2,974.13	7.82	8.34	18.85	-676.07	-2,138.99	1,953.24	1,937.79	15.45	126.405	
2,800.00	2,759.43	3,068.64	3,050.64	8.13	8.49	19.25	-667.72	-2,128.73	1,913.99	1,898.15	15.84	120.839	
2,900.00	2,856.02	3,161.57	3,142.24	8.45	8.68	19.74	-657.87	-2,116.55	1,875.00	1,858.75	16.24	115.421	
3,000.00	2,952.61	3,262.81	3,242.02	8.78	8.88	20.27	-647.70	-2,102.79	1,835.80	1,819.14	16.66	110.180	
3,100.00	3,049.20	3,339.29	3,317.41	9.10	9.03	20.69	-640.09	-2,092.36	1,796.71	1,779.65	17.06	105.323	
3,200.00	3,145.79	3,415.44	3,392.60	9.43	9.19	21.11	-633.00	-2,082.62	1,758.61	1,741.15	17.46	100.732	
3,300.00	3,242.39	3,506.62	3,482.71	9.77	9.37	21.63	-624.69	-2,071.48	1,721.20	1,703.33	17.87	96.300	
3,400.00	3,338.98	3,616.88	3,591.53	10.10	9.59	22.31	-614.08	-2,057.22	1,683.18	1,664.87	18.31	91.934	
3,500.00	3,435.57	3,710.28	3,683.61	10.44	9.78	22.90	-605.13	-2,044.44	1,644.62	1,625.88	18.73	87.787	
3,600.00	3,532.16	3,780.01	3,752.44	10.78	9.94	23.35	-598.89	-2,035.10	1,606.67	1,587.51	19.16	83.855	
3,700.00	3,628.75	3,849.00	3,820.78	11.12	10.12	23.79	-593.38	-2,027.48	1,570.90	1,551.29	19.61	80.109	
3,800.00	3,725.34	3,898.40	3,869.85	11.46	10.22	24.10	-589.94	-2,023.00	1,537.07	1,517.06	20.01	76.810	
3,900.00	3,821.94	3,978.38	3,949.46	11.80	10.39	24.58	-585.45	-2,016.67	1,504.97	1,484.54	20.43	73.651	
4,000.00	3,918.53	4,080.55	4,051.19	12.14	10.57	25.15	-581.55	-2,008.12	1,472.83	1,451.96	20.86	70.597	
4,100.00	4,015.12	4,172.51	4,142.75	12.49	10.74	25.67	-578.23	-2,000.16	1,440.57	1,419.28	21.29	67.675	
4,200.00	4,111.71	4,252.07	4,221.98	12.83	10.89	26.15	-575.25	-1,993.68	1,408.91	1,387.20	21.71	64.900	
4,300.00	4,208.30	4,326.00	4,295.72	13.18	11.03	26.60	-572.64	-1,988.96	1,378.96	1,356.82	22.13	62.300	
4,400.00	4,304.90	4,375.99	4,345.65	13.53	11.15	26.91	-571.23	-1,986.93	1,351.31	1,328.79	22.52	60.002	
4,500.00	4,401.49	4,422.00	4,391.64	13.88	11.26	27.18	-570.40	-1,986.16	1,326.66	1,303.77	22.89	57.957	
4,600.00	4,498.08	4,500.28	4,469.91	14.23	11.31	27.61	-570.20	-1,986.78	1,304.40	1,281.18	23.22	56.167	
4,700.00	4,594.67	4,592.70	4,562.30	14.58	11.31	28.08	-571.19	-1,989.12	1,283.89	1,260.39	23.50	54.638	
4,800.00	4,691.26	4,734.23	4,703.81	14.93	11.39	28.88	-571.22	-1,990.39	1,261.90	1,238.06	23.83	52.945	
4,900.00	4,788.20	4,847.55	4,817.10	15.26	11.54	29.36	-570.87	-1,988.17	1,238.30	1,214.05	24.25	51.058	
5,000.00	4,885.74	4,935.97	4,905.49	15.57	11.62	29.60	-572.05	-1,986.23	1,216.93	1,192.29	24.63	49.402	
5,100.00	4,983.82	5,016.49	4,986.00	15.85	11.65	29.78	-573.26	-1,985.44	1,199.02	1,174.06	24.97	48.025	
5,200.00	5,082.39	5,089.00	5,058.51	16.10	11.66	29.93	-574.02	-1,985.83	1,184.99	1,159.73	25.25	46.927	
5,300.00	5,181.35	5,184.00	5,153.48	16.32	11.64	30.15	-574.79	-1,987.82	1,174.68	1,149.21	25.47	46.118	
5,400.00	5,280.66	5,286.33	5,255.78	16.52	11.62	30.35	-575.53	-1,990.36	1,167.04	1,141.38	25.66	45.473	
5,500.00	5,380.25	5,379.72	5,349.15	16.68	11.59	30.51	-575.87	-1,992.51	1,161.50	1,135.67	25.83	44.959	
5,600.00	5,480.03	5,479.47	5,448.85	16.82	11.59	30.65	-575.87	-1,995.24	1,158.65	1,132.65	26.00	44.563	
5,699.72	5,579.67	5,584.71	5,554.06	16.93	11.60	30.75	-575.76	-1,997.84	1,157.79	1,131.64	26.15	44.280	
5,700.00	5,579.96	5,585.01	5,554.36	16.93	11.60	30.75	-575.76	-1,997.85	1,157.79	1,131.64	26.15	44.279	
5,800.00	5,679.94	5,687.50	5,656.82	16.99	11.62	-90.30	-575.72	-2,000.01	1,158.82	1,132.59	26.22	44.190	
5,900.00	5,779.94	5,791.58	5,760.89	17.03	11.63	-90.31	-575.98	-2,001.90	1,160.63	1,134.38	26.25	44.208	
6,000.00	5,879.94	5,894.36	5,863.65	17.07	11.64	-90.33	-576.39	-2,003.42	1,162.11	1,135.83	26.29	44.210	
6,100.00	5,979.94	5,995.63	5,964.92	17.10	11.66	-90.36	-576.91	-2,004.85	1,163.53	1,137.21	26.32	44.204	
6,200.00	6,079.94	6,105.15	6,074.43	17.14	11.67	-90.38	-577.34	-2,005.88	1,164.48	1,138.11	26.37	44.163	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 152H - OH - Plan #3 — **Offset Site Error:** 0.00 usft

Survey Program: 204-MWD+HRGM+SAG+FDIR (rev.5), 10536-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
6,300.00	6,179.94	6,214.23	6,183.51	17.17	11.70	-90.41	-577.86	-2,005.89	1,164.48	1,138.04	26.45	44.027	
6,400.00	6,279.94	6,317.87	6,287.14	17.21	11.74	-90.44	-578.58	-2,005.37	1,163.99	1,137.43	26.56	43.826	
6,500.00	6,379.94	6,421.23	6,390.50	17.25	11.79	-90.48	-579.35	-2,004.59	1,163.24	1,136.56	26.68	43.596	
6,600.00	6,479.94	6,521.58	6,490.85	17.29	11.84	-90.51	-579.94	-2,003.63	1,162.29	1,135.47	26.81	43.346	
6,700.00	6,579.94	6,626.42	6,595.67	17.32	11.92	-90.53	-580.32	-2,002.46	1,161.17	1,134.22	26.96	43.076	
6,800.00	6,679.94	6,727.91	6,697.16	17.36	12.01	-90.53	-580.31	-2,001.01	1,159.75	1,132.64	27.11	42.780	
6,900.00	6,779.94	6,835.25	6,804.48	17.40	12.12	-90.52	-580.04	-1,999.02	1,157.89	1,130.62	27.27	42.461	
7,000.00	6,879.94	6,932.86	6,902.06	17.44	12.23	-90.50	-579.78	-1,997.07	1,155.88	1,128.45	27.43	42.142	
7,100.00	6,979.94	7,031.66	7,000.84	17.48	12.35	-90.48	-579.21	-1,995.21	1,154.00	1,126.41	27.59	41.830	
7,200.00	7,079.94	7,128.45	7,097.62	17.52	12.47	-90.44	-578.42	-1,993.61	1,152.34	1,124.60	27.75	41.533	
7,300.00	7,179.94	7,227.05	7,196.21	17.56	12.57	-90.45	-578.61	-1,992.16	1,150.87	1,122.98	27.89	41.260	
7,400.00	7,279.94	7,324.88	7,294.02	17.60	12.66	-90.48	-579.22	-1,990.83	1,149.52	1,121.48	28.04	41.001	
7,500.00	7,379.94	7,423.15	7,392.30	17.64	12.75	-90.50	-579.63	-1,989.80	1,148.47	1,120.29	28.18	40.753	
7,600.00	7,479.94	7,527.75	7,496.89	17.68	12.85	-90.53	-580.20	-1,988.40	1,147.14	1,118.81	28.33	40.493	
7,700.00	7,579.94	7,629.37	7,598.49	17.72	12.96	-90.55	-580.64	-1,986.83	1,145.60	1,117.11	28.48	40.221	
7,800.00	7,679.94	7,731.23	7,700.34	17.76	13.08	-90.55	-580.60	-1,985.10	1,143.89	1,115.25	28.64	39.936	
7,900.00	7,779.94	7,825.67	7,794.75	17.80	13.18	-90.54	-580.36	-1,983.51	1,142.22	1,113.42	28.79	39.671	
8,000.00	7,879.94	7,923.79	7,892.87	17.84	13.27	-90.58	-581.24	-1,982.51	1,141.20	1,112.27	28.93	39.450	
8,100.00	7,979.94	8,026.37	7,995.44	17.88	13.37	-90.62	-581.97	-1,981.14	1,139.88	1,110.80	29.07	39.209	
8,200.00	8,079.94	8,120.99	8,090.05	17.93	13.47	-90.63	-582.21	-1,980.00	1,138.68	1,109.46	29.22	38.968	
8,300.00	8,179.94	8,216.08	8,185.14	17.97	13.57	-90.64	-582.24	-1,979.41	1,138.06	1,108.69	29.37	38.753	
8,400.00	8,279.94	8,316.09	8,285.15	18.01	13.68	-90.62	-582.01	-1,979.01	1,137.65	1,108.14	29.51	38.548	
8,500.00	8,379.94	8,416.84	8,385.89	18.05	13.79	-90.60	-581.59	-1,978.51	1,137.15	1,107.49	29.66	38.343	
8,600.00	8,479.94	8,516.25	8,485.30	18.10	13.89	-90.57	-580.91	-1,978.01	1,136.64	1,106.84	29.80	38.147	
8,700.00	8,579.94	8,619.95	8,589.00	18.14	14.00	-90.52	-579.91	-1,977.40	1,136.05	1,106.11	29.94	37.949	
8,800.00	8,679.94	8,717.78	8,686.82	18.18	14.11	-90.48	-579.07	-1,976.69	1,135.31	1,105.23	30.08	37.741	
8,900.00	8,779.94	8,816.87	8,785.91	18.23	14.23	-90.46	-578.75	-1,976.14	1,134.75	1,104.52	30.23	37.538	
8,932.53	8,812.47	8,843.44	8,812.47	18.24	14.24	-90.46	-578.68	-1,976.06	1,134.65	1,104.37	30.28	37.471	CC
9,000.00	8,879.94	8,895.75	8,864.78	18.27	14.27	-90.47	-579.00	-1,976.40	1,135.10	1,104.72	30.39	37.356	
9,100.00	8,979.94	8,996.37	8,965.38	18.32	14.27	-90.53	-580.17	-1,978.00	1,136.70	1,106.26	30.44	37.336	
9,200.00	9,079.94	9,104.68	9,073.68	18.36	14.28	-90.51	-579.83	-1,978.99	1,137.61	1,107.11	30.49	37.306	
9,300.00	9,179.94	9,214.28	9,183.27	18.41	14.35	-90.41	-577.81	-1,979.10	1,137.70	1,107.10	30.60	37.183	
9,400.00	9,279.94	9,299.00	9,267.95	18.45	14.43	-90.28	-575.18	-1,978.89	1,137.53	1,106.81	30.71	37.035	
9,401.22	9,281.17	9,310.95	9,279.89	18.45	14.43	-90.26	-574.77	-1,978.88	1,137.46	1,106.74	30.72	37.032	
9,500.00	9,379.94	9,394.00	9,362.91	18.50	14.48	-90.18	-573.19	-1,980.00	1,138.70	1,107.90	30.79	36.980	
9,600.00	9,479.94	9,505.92	9,474.81	18.54	14.47	-90.20	-573.67	-1,981.52	1,140.10	1,109.27	30.83	36.977	
9,700.00	9,579.94	9,606.31	9,575.20	18.59	14.46	-90.24	-574.46	-1,981.93	1,140.51	1,109.62	30.89	36.924	
9,800.00	9,679.94	9,704.53	9,673.41	18.64	14.45	-90.27	-574.90	-1,982.42	1,141.01	1,110.07	30.94	36.883	
9,900.00	9,779.94	9,803.17	9,772.05	18.68	14.44	-90.28	-575.15	-1,983.04	1,141.64	1,110.66	30.98	36.849	
10,000.00	9,879.94	9,901.22	9,870.11	18.73	14.45	-90.25	-574.52	-1,983.78	1,142.39	1,111.35	31.04	36.804	
10,100.00	9,979.94	9,997.15	9,966.02	18.78	14.48	-90.20	-573.53	-1,984.78	1,143.43	1,112.32	31.10	36.761	
10,200.00	10,079.94	10,094.70	10,063.55	18.82	14.50	-90.15	-572.58	-1,986.13	1,144.81	1,113.64	31.16	36.735	
10,300.00	10,179.94	10,185.71	10,154.54	18.87	14.54	-90.06	-570.76	-1,987.52	1,146.36	1,115.12	31.24	36.699	
10,400.00	10,279.94	10,264.84	10,233.59	18.92	14.57	-89.95	-568.66	-1,990.14	1,149.64	1,118.32	31.32	36.708	
10,500.00	10,379.94	10,376.45	10,345.13	18.97	14.57	-89.94	-568.33	-1,994.16	1,153.25	1,121.91	31.34	36.793	
10,600.00	10,479.94	10,490.29	10,458.94	19.02	14.57	-89.94	-568.35	-1,996.78	1,155.53	1,124.16	31.38	36.829	
10,700.00	10,579.94	10,593.22	10,561.84	19.07	14.60	-89.86	-566.81	-1,998.44	1,157.15	1,125.72	31.43	36.819	
10,800.00	10,679.94	10,693.20	10,661.79	19.11	14.65	-89.78	-565.14	-2,000.00	1,158.71	1,127.21	31.50	36.782	
10,900.00	10,779.94	10,794.33	10,762.89	19.16	14.70	-89.70	-563.46	-2,001.58	1,160.28	1,128.71	31.57	36.757	
11,000.00	10,879.94	10,910.48	10,879.04	19.21	14.76	-89.65	-562.50	-2,002.47	1,161.05	1,129.41	31.64	36.695	
11,100.00	10,979.94	11,011.39	10,979.94	19.26	14.81	-89.65	-562.50	-2,002.47	1,161.06	1,129.32	31.74	36.582	
11,200.00	11,079.94	11,111.39	11,079.94	19.31	14.87	-89.65	-562.50	-2,002.47	1,161.06	1,129.21	31.85	36.454	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 152H - OH - Plan #3

Offset Site Error: 0.00 usft

Survey Program: 204-MWD+HRGM+SAG+FDIR (rev.5), 10536-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
11,300.00	11,179.94	11,211.39	11,179.94	19.36	14.93	-89.65	-562.50	-2,002.47	1,161.06	1,129.10	31.96	36.331	
11,400.00	11,279.94	11,313.25	11,281.56	19.41	14.99	-89.91	-567.87	-2,002.43	1,160.99	1,129.00	31.99	36.287	
11,462.31	11,342.25	11,375.09	11,342.25	19.44	15.05	-90.49	-579.61	-2,002.33	1,160.93	1,128.95	31.98	36.306	
11,500.00	11,379.94	11,411.04	11,376.83	19.46	15.08	-90.98	-589.41	-2,002.24	1,160.98	1,129.02	31.95	36.333	
11,600.00	11,479.94	11,500.00	11,459.18	19.51	15.16	-92.62	-622.82	-2,001.95	1,161.92	1,130.04	31.88	36.447	
11,700.00	11,579.94	11,575.96	11,524.69	19.56	15.23	-94.51	-661.14	-2,001.63	1,165.10	1,133.26	31.84	36.588	
11,800.00	11,679.94	11,640.87	11,576.26	19.61	15.29	-96.44	-700.52	-2,001.29	1,171.81	1,139.89	31.91	36.717	
11,900.00	11,779.94	11,700.00	11,619.08	19.67	15.36	-98.42	-741.25	-2,000.94	1,183.12	1,150.98	32.13	36.819	
12,000.00	11,879.94	11,740.71	11,646.01	19.72	15.40	-99.89	-771.76	-2,000.67	1,199.75	1,167.15	32.61	36.796	
12,100.00	11,979.48	11,782.67	11,671.44	19.84	15.46	77.11	-805.13	-2,000.39	1,220.61	1,187.36	33.26	36.704	
12,200.00	12,076.09	11,825.74	11,694.92	20.05	15.52	73.55	-841.22	-2,000.08	1,243.02	1,208.91	34.12	36.436	
12,300.00	12,166.83	11,869.63	11,716.00	20.32	15.59	70.19	-879.71	-1,999.74	1,265.56	1,230.43	35.13	36.022	
12,400.00	12,248.94	11,914.12	11,734.29	20.67	15.67	67.17	-920.25	-1,999.40	1,286.95	1,250.70	36.26	35.497	
12,500.00	12,319.94	11,950.00	11,746.72	21.11	15.74	64.73	-953.90	-1,999.11	1,306.18	1,268.71	37.47	34.860	
12,600.00	12,377.66	12,000.00	11,760.47	21.65	15.86	62.57	-1,001.95	-1,998.69	1,322.17	1,283.53	38.64	34.216	
12,700.00	12,420.35	12,050.00	11,769.99	22.29	15.99	61.00	-1,051.02	-1,998.27	1,334.37	1,294.56	39.81	33.520	
12,800.00	12,446.71	12,100.00	11,775.19	23.03	16.15	60.03	-1,100.73	-1,997.84	1,342.28	1,301.34	40.94	32.789	
12,900.04	12,455.95	12,153.56	11,776.38	23.86	16.35	59.66	-1,154.27	-1,997.38	1,345.40	1,303.41	41.99	32.039	
13,000.00	12,456.48	12,253.52	11,777.08	24.75	16.79	59.67	-1,254.22	-1,996.52	1,345.35	1,302.32	43.03	31.267	
13,100.00	12,457.00	12,353.52	11,777.78	25.69	17.33	59.68	-1,354.22	-1,995.66	1,345.30	1,301.13	44.17	30.456	
13,200.00	12,457.53	12,453.52	11,778.48	26.67	17.95	59.68	-1,454.21	-1,994.80	1,345.24	1,299.83	45.42	29.620	
13,300.00	12,458.05	12,553.52	11,779.17	27.68	18.66	59.69	-1,554.20	-1,993.94	1,345.19	1,298.44	46.76	28.771	
13,400.00	12,458.58	12,653.52	11,779.87	28.73	19.45	59.70	-1,654.20	-1,993.08	1,345.14	1,296.96	48.18	27.918	
13,500.00	12,459.11	12,753.52	11,780.57	29.80	20.30	59.70	-1,754.19	-1,992.22	1,345.09	1,295.40	49.69	27.072	
13,600.00	12,459.63	12,853.52	11,781.27	30.90	21.21	59.71	-1,854.18	-1,991.36	1,345.03	1,293.77	51.26	26.238	
13,700.00	12,460.16	12,953.52	11,781.96	32.01	22.17	59.72	-1,954.18	-1,990.50	1,344.98	1,292.08	52.91	25.422	
13,800.00	12,460.69	13,053.52	11,782.66	33.15	23.17	59.73	-2,054.17	-1,989.64	1,344.93	1,290.32	54.61	24.628	
13,900.00	12,461.21	13,153.52	11,783.36	34.30	24.21	59.73	-2,154.17	-1,988.78	1,344.88	1,288.51	56.37	23.859	
14,000.00	12,461.74	13,253.52	11,784.06	35.46	25.28	59.74	-2,254.16	-1,987.92	1,344.82	1,286.65	58.17	23.117	
14,100.00	12,462.26	13,353.52	11,784.75	36.64	26.38	59.75	-2,354.15	-1,987.06	1,344.77	1,284.75	60.03	22.403	
14,200.00	12,462.79	13,453.52	11,785.45	37.84	27.51	59.75	-2,454.15	-1,986.20	1,344.72	1,282.80	61.92	21.717	
14,300.00	12,463.32	13,553.52	11,786.15	39.04	28.65	59.76	-2,554.14	-1,985.34	1,344.67	1,280.82	63.85	21.060	
14,400.00	12,463.84	13,653.52	11,786.85	40.25	29.82	59.77	-2,654.13	-1,984.48	1,344.61	1,278.80	65.81	20.431	
14,500.00	12,464.37	13,753.52	11,787.54	41.48	31.00	59.78	-2,754.13	-1,983.62	1,344.56	1,276.76	67.80	19.830	
14,600.00	12,464.90	13,853.52	11,788.24	42.71	32.20	59.78	-2,854.12	-1,982.76	1,344.51	1,274.68	69.83	19.255	
14,700.00	12,465.42	13,953.52	11,788.94	43.95	33.41	59.79	-2,954.12	-1,981.90	1,344.46	1,272.58	71.87	18.706	
14,800.00	12,465.95	14,053.52	11,789.64	45.19	34.64	59.80	-3,054.11	-1,981.04	1,344.40	1,270.46	73.94	18.182	
14,900.00	12,466.47	14,153.52	11,790.33	46.45	35.87	59.80	-3,154.10	-1,980.18	1,344.35	1,268.32	76.03	17.681	
15,000.00	12,467.00	14,253.52	11,791.03	47.71	37.12	59.81	-3,254.10	-1,979.32	1,344.30	1,266.15	78.15	17.203	
15,100.00	12,467.53	14,353.52	11,791.73	48.97	38.37	59.82	-3,354.09	-1,978.46	1,344.25	1,263.97	80.27	16.746	
15,200.00	12,468.05	14,453.52	11,792.43	50.24	39.63	59.83	-3,454.08	-1,977.60	1,344.20	1,261.78	82.42	16.309	
15,300.00	12,468.58	14,553.52	11,793.12	51.52	40.90	59.83	-3,554.08	-1,976.74	1,344.14	1,259.56	84.58	15.892	
15,400.00	12,469.10	14,653.52	11,793.82	52.80	42.18	59.84	-3,654.07	-1,975.88	1,344.09	1,257.34	86.75	15.493	
15,500.00	12,469.63	14,753.52	11,794.52	54.08	43.46	59.85	-3,754.07	-1,975.02	1,344.04	1,255.10	88.94	15.111	
15,600.00	12,470.16	14,853.52	11,795.22	55.37	44.74	59.85	-3,854.06	-1,974.16	1,343.99	1,252.84	91.14	14.746	
15,700.00	12,470.68	14,953.51	11,795.92	56.66	46.03	59.86	-3,954.05	-1,973.30	1,343.93	1,250.58	93.35	14.396	
15,800.00	12,471.21	15,053.51	11,796.61	57.95	47.33	59.87	-4,054.05	-1,972.44	1,343.88	1,248.31	95.58	14.061	
15,900.00	12,471.74	15,153.51	11,797.31	59.25	48.63	59.88	-4,154.04	-1,971.58	1,343.83	1,246.02	97.81	13.740	
16,000.00	12,472.26	15,253.51	11,798.01	60.55	49.93	59.88	-4,254.03	-1,970.72	1,343.78	1,243.73	100.05	13.431	
16,100.00	12,472.79	15,353.51	11,798.71	61.86	51.24	59.89	-4,354.03	-1,969.86	1,343.73	1,241.43	102.30	13.136	
16,200.00	12,473.31	15,453.51	11,799.40	63.16	52.55	59.90	-4,454.02	-1,968.99	1,343.67	1,239.12	104.55	12.851	
16,300.00	12,473.84	15,553.51	11,800.10	64.47	53.86	59.90	-4,554.02	-1,968.13	1,343.62	1,236.80	106.82	12.579	

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 152H - OH - Plan #3

Offset Site Error: 0.00 usft

Survey Program: 204-MWD+HRGM+SAG+FDIR (rev.5), 10536-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
16,400.00	12,474.37	15,653.51	11,800.80	65.78	55.18	59.91	-4,654.01	-1,967.27	1,343.57	1,234.48	109.09	12.316	
16,500.00	12,474.89	15,753.51	11,801.50	67.10	56.50	59.92	-4,754.00	-1,966.41	1,343.52	1,232.15	111.37	12.064	
16,600.00	12,475.42	15,853.51	11,802.19	68.41	57.82	59.93	-4,854.00	-1,965.55	1,343.47	1,229.81	113.65	11.821	
16,700.00	12,475.94	15,953.51	11,802.89	69.73	59.14	59.93	-4,953.99	-1,964.69	1,343.41	1,227.47	115.94	11.587	
16,800.00	12,476.47	16,053.51	11,803.59	71.05	60.47	59.94	-5,053.98	-1,963.83	1,343.36	1,225.12	118.24	11.361	
16,900.00	12,477.00	16,153.51	11,804.29	72.37	61.79	59.95	-5,153.98	-1,962.97	1,343.31	1,222.77	120.54	11.144	
17,000.00	12,477.52	16,253.51	11,804.98	73.70	63.12	59.95	-5,253.97	-1,962.11	1,343.26	1,220.41	122.85	10.935	
17,100.00	12,478.05	16,353.51	11,805.68	75.02	64.45	59.96	-5,353.96	-1,961.25	1,343.21	1,218.05	125.16	10.732	
17,200.00	12,478.58	16,453.51	11,806.38	76.35	65.79	59.97	-5,453.96	-1,960.39	1,343.15	1,215.68	127.47	10.537	
17,300.00	12,479.10	16,553.51	11,807.08	77.68	67.12	59.98	-5,553.95	-1,959.53	1,343.10	1,213.31	129.79	10.348	
17,400.00	12,479.63	16,653.51	11,807.77	79.01	68.45	59.98	-5,653.95	-1,958.67	1,343.05	1,210.94	132.11	10.166	
17,500.00	12,480.15	16,753.51	11,808.47	80.34	69.79	59.99	-5,753.94	-1,957.81	1,343.00	1,208.56	134.44	9.990	
17,600.00	12,480.68	16,853.51	11,809.17	81.67	71.13	60.00	-5,853.93	-1,956.95	1,342.95	1,206.18	136.77	9.819	
17,700.00	12,481.21	16,953.51	11,809.87	83.00	72.47	60.00	-5,953.93	-1,956.09	1,342.89	1,203.79	139.10	9.654	
17,800.00	12,481.73	17,053.51	11,810.56	84.34	73.81	60.01	-6,053.92	-1,955.23	1,342.84	1,201.40	141.44	9.494	
17,900.00	12,482.26	17,153.51	11,811.26	85.67	75.15	60.02	-6,153.91	-1,954.37	1,342.79	1,199.01	143.78	9.339	
18,000.00	12,482.79	17,253.51	11,811.96	87.01	76.49	60.03	-6,253.91	-1,953.51	1,342.74	1,196.61	146.13	9.189	
18,100.00	12,483.31	17,353.51	11,812.66	88.35	77.83	60.03	-6,353.90	-1,952.65	1,342.69	1,194.22	148.47	9.043	
18,200.00	12,483.84	17,453.51	11,813.35	89.68	79.18	60.04	-6,453.90	-1,951.79	1,342.64	1,191.81	150.82	8.902	
18,300.00	12,484.36	17,553.51	11,814.05	91.02	80.52	60.05	-6,553.89	-1,950.93	1,342.58	1,189.41	153.17	8.765	
18,400.00	12,484.89	17,653.51	11,814.75	92.36	81.87	60.05	-6,653.88	-1,950.07	1,342.53	1,187.00	155.53	8.632	
18,500.00	12,485.42	17,753.51	11,815.45	93.70	83.22	60.06	-6,753.88	-1,949.21	1,342.48	1,184.60	157.88	8.503	
18,600.00	12,485.94	17,853.51	11,816.14	95.05	84.56	60.07	-6,853.87	-1,948.35	1,342.43	1,182.19	160.24	8.377	
18,700.00	12,486.47	17,953.51	11,816.84	96.39	85.91	60.08	-6,953.86	-1,947.49	1,342.38	1,179.77	162.61	8.255	
18,800.00	12,486.99	18,053.51	11,817.54	97.73	87.26	60.08	-7,053.86	-1,946.63	1,342.33	1,177.36	164.97	8.137	
18,900.00	12,487.52	18,153.51	11,818.24	99.07	88.61	60.09	-7,153.85	-1,945.77	1,342.27	1,174.94	167.33	8.022	
19,000.00	12,488.05	18,253.51	11,818.94	100.42	89.96	60.10	-7,253.85	-1,944.91	1,342.22	1,172.52	169.70	7.909	
19,100.00	12,488.57	18,353.51	11,819.63	101.76	91.31	60.11	-7,353.84	-1,944.05	1,342.17	1,170.10	172.07	7.800	
19,200.00	12,489.10	18,453.51	11,820.33	103.11	92.66	60.11	-7,453.83	-1,943.19	1,342.12	1,167.68	174.44	7.694	
19,300.00	12,489.63	18,553.51	11,821.03	104.46	94.01	60.12	-7,553.83	-1,942.33	1,342.07	1,165.25	176.82	7.590	
19,400.00	12,490.15	18,653.51	11,821.73	105.80	95.37	60.13	-7,653.82	-1,941.47	1,342.02	1,162.83	179.19	7.489	
19,500.00	12,490.68	18,753.51	11,822.42	107.15	96.72	60.13	-7,753.81	-1,940.61	1,341.97	1,160.40	181.57	7.391	
19,600.00	12,491.20	18,853.51	11,823.12	108.50	98.07	60.14	-7,853.81	-1,939.75	1,341.91	1,157.97	183.95	7.295	
19,700.00	12,491.73	18,953.51	11,823.82	109.85	99.43	60.15	-7,953.80	-1,938.89	1,341.86	1,155.54	186.33	7.202	
19,800.00	12,492.26	19,053.51	11,824.52	111.20	100.78	60.16	-8,053.80	-1,938.03	1,341.81	1,153.10	188.71	7.111	
19,900.00	12,492.78	19,153.51	11,825.21	112.55	102.13	60.16	-8,153.79	-1,937.17	1,341.76	1,150.67	191.09	7.022	
20,000.00	12,493.31	19,253.51	11,825.91	113.90	103.49	60.17	-8,253.78	-1,936.31	1,341.71	1,148.23	193.48	6.935	
20,100.00	12,493.84	19,353.51	11,826.61	115.25	104.84	60.18	-8,353.78	-1,935.45	1,341.66	1,145.80	195.86	6.850	
20,200.00	12,494.36	19,453.51	11,827.31	116.60	106.20	60.18	-8,453.77	-1,934.58	1,341.61	1,143.36	198.25	6.767	
20,300.00	12,494.89	19,553.51	11,828.00	117.95	107.56	60.19	-8,553.76	-1,933.72	1,341.56	1,140.92	200.64	6.686	
20,400.00	12,495.41	19,653.51	11,828.70	119.30	108.91	60.20	-8,653.76	-1,932.86	1,341.50	1,138.48	203.03	6.608	
20,500.00	12,495.94	19,753.51	11,829.40	120.65	110.27	60.21	-8,753.75	-1,932.00	1,341.45	1,136.04	205.42	6.530	
20,600.00	12,496.47	19,853.51	11,830.10	122.01	111.63	60.21	-8,853.74	-1,931.14	1,341.40	1,133.59	207.81	6.455	
20,700.00	12,496.99	19,953.51	11,830.79	123.36	112.98	60.22	-8,953.74	-1,930.28	1,341.35	1,131.15	210.20	6.381	
20,800.00	12,497.52	20,053.51	11,831.49	124.71	114.34	60.23	-9,053.73	-1,929.42	1,341.30	1,128.70	212.60	6.309	
20,900.00	12,498.04	20,153.51	11,832.19	126.07	115.70	60.23	-9,153.73	-1,928.56	1,341.25	1,126.25	214.99	6.239	
21,000.00	12,498.57	20,253.51	11,832.89	127.42	117.06	60.24	-9,253.72	-1,927.70	1,341.20	1,123.81	217.39	6.170	
21,100.00	12,499.10	20,353.51	11,833.58	128.77	118.42	60.25	-9,353.71	-1,926.84	1,341.15	1,121.36	219.79	6.102	
21,200.00	12,499.62	20,453.51	11,834.28	130.13	119.77	60.26	-9,453.71	-1,925.98	1,341.10	1,118.91	222.19	6.036	
21,300.00	12,500.15	20,553.51	11,834.98	131.48	121.13	60.26	-9,553.70	-1,925.12	1,341.04	1,116.46	224.59	5.971	
21,400.00	12,500.68	20,653.51	11,835.68	132.84	122.49	60.27	-9,653.69	-1,924.26	1,340.99	1,114.00	226.99	5.908	
21,500.00	12,501.20	20,753.51	11,836.37	134.20	123.85	60.28	-9,753.69	-1,923.40	1,340.94	1,111.55	229.39	5.846	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 152H - OH - Plan #3

Offset Site Error: 0.00 usft

Survey Program: 204-MWD+HRGM+SAG+FDIR (rev.5), 10536-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
21,600.00	12,501.73	20,853.51	11,837.07	135.55	125.21	60.28	-9,853.68	-1,922.54	1,340.89	1,109.10	231.79	5.785	
21,700.00	12,502.25	20,953.51	11,837.77	136.91	126.57	60.29	-9,953.68	-1,921.68	1,340.84	1,106.64	234.20	5.725	
21,800.00	12,502.78	21,053.51	11,838.47	138.26	127.93	60.30	-10,053.67	-1,920.82	1,340.79	1,104.19	236.60	5.667	
21,900.00	12,503.31	21,153.51	11,839.16	139.62	129.29	60.31	-10,153.66	-1,919.96	1,340.74	1,101.73	239.01	5.610	
22,000.00	12,503.83	21,253.51	11,839.86	140.98	130.65	60.31	-10,253.66	-1,919.10	1,340.69	1,099.27	241.42	5.553	
22,100.00	12,504.36	21,353.51	11,840.56	142.33	132.01	60.32	-10,353.65	-1,918.24	1,340.64	1,096.81	243.82	5.498	
22,200.00	12,504.89	21,453.51	11,841.26	143.69	133.37	60.33	-10,453.64	-1,917.38	1,340.59	1,094.35	246.23	5.444	
22,300.00	12,505.41	21,553.50	11,841.96	145.05	134.74	60.33	-10,553.64	-1,916.52	1,340.54	1,091.89	248.64	5.391	
22,400.00	12,505.94	21,653.50	11,842.65	146.41	136.10	60.34	-10,653.63	-1,915.66	1,340.49	1,089.43	251.05	5.339	
22,500.00	12,506.46	21,753.50	11,843.35	147.76	137.46	60.35	-10,753.63	-1,914.80	1,340.43	1,086.97	253.46	5.288	
22,600.00	12,506.99	21,853.50	11,844.05	149.12	138.82	60.36	-10,853.62	-1,913.94	1,340.38	1,084.51	255.87	5.238	
22,700.00	12,507.52	21,953.50	11,844.75	150.48	140.18	60.36	-10,953.61	-1,913.08	1,340.33	1,082.05	258.29	5.189	
22,800.00	12,508.04	22,053.50	11,845.44	151.84	141.47	60.37	-11,053.61	-1,912.22	1,340.28	1,079.66	260.62	5.143	
22,827.00	12,508.18	22,079.41	11,845.62	152.21	141.78	60.37	-11,079.51	-1,912.00	1,340.27	1,079.04	261.23	5.131	
22,830.04	12,508.20	22,079.41	11,845.62	152.25	141.78	60.37	-11,079.51	-1,912.00	1,340.27	1,078.99	261.28	5.130	ES, SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
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	CC
400.00	400.00	399.70	399.69	2.33	2.41	-92.65	-1.18	-25.55	25.58	20.91	4.67	5.480	ES
500.00	500.00	499.27	499.18	2.63	2.77	-99.84	-4.71	-27.19	27.60	22.31	5.29	5.214	
600.00	599.99	598.66	598.35	2.97	3.09	52.32	-10.59	-29.91	30.95	25.06	5.89	5.251	
700.00	699.91	698.35	697.68	3.26	3.22	46.97	-18.33	-33.50	34.50	28.19	6.31	5.468	
800.00	799.69	798.32	797.27	3.54	3.46	45.28	-26.23	-37.16	36.52	29.71	6.81	5.361	
900.00	899.32	898.32	896.88	3.65	3.70	45.95	-34.14	-40.83	37.13	29.98	7.15	5.193	
1,000.00	998.94	998.31	996.50	3.87	3.93	46.77	-42.05	-44.49	37.64	30.05	7.59	4.961	
1,100.00	1,098.56	1,098.31	1,096.12	4.07	4.15	47.57	-49.95	-48.16	38.16	30.15	8.01	4.762	
1,200.00	1,198.18	1,198.31	1,195.74	4.28	4.37	48.34	-57.86	-51.82	38.69	30.26	8.43	4.589	
1,300.00	1,297.78	1,297.93	1,294.95	4.39	4.50	42.68	-65.96	-55.62	39.15	30.50	8.65	4.528	
1,400.00	1,397.24	1,397.07	1,393.48	4.60	4.75	31.22	-75.82	-60.64	39.19	30.09	9.11	4.304	
1,500.00	1,496.46	1,496.16	1,491.62	4.82	5.01	20.17	-87.78	-67.09	38.94	29.34	9.60	4.057	
1,587.47	1,583.01	1,582.75	1,577.08	5.01	5.23	9.96	-99.94	-73.91	38.78	28.73	10.05	3.858	
1,600.00	1,595.38	1,595.14	1,589.28	5.04	5.26	8.42	-101.82	-74.97	38.78	28.67	10.12	3.833	
1,700.00	1,693.92	1,693.97	1,686.35	5.27	5.51	-4.55	-117.91	-84.26	39.35	28.71	10.65	3.697	
1,800.00	1,792.04	1,793.36	1,783.58	5.49	5.68	-18.54	-135.65	-94.67	40.79	29.71	11.09	3.679	
1,900.00	1,889.64	1,892.92	1,880.97	5.71	5.89	-33.48	-153.50	-105.16	42.10	30.56	11.54	3.648	SF
2,000.00	1,986.68	1,992.30	1,978.18	5.94	6.10	-49.65	-171.32	-115.62	44.20	32.24	11.96	3.696	
2,100.00	2,083.28	2,091.52	2,075.22	6.11	6.31	-64.45	-189.11	-126.07	48.47	36.14	12.32	3.933	
2,200.00	2,179.88	2,190.73	2,172.27	6.34	6.52	-76.07	-206.90	-136.52	55.28	42.50	12.79	4.323	
2,300.00	2,276.47	2,289.94	2,269.31	6.61	6.73	-84.89	-224.69	-146.97	63.86	50.56	13.30	4.801	
2,400.00	2,373.06	2,389.15	2,366.35	6.90	6.96	-91.52	-242.48	-157.41	73.57	59.73	13.84	5.316	
2,500.00	2,469.65	2,488.36	2,463.40	7.20	7.23	-96.56	-260.27	-167.86	84.04	69.64	14.40	5.836	
2,600.00	2,566.24	2,587.58	2,560.44	7.50	7.51	-100.46	-278.06	-178.31	95.01	80.04	14.97	6.347	
2,700.00	2,662.84	2,686.79	2,657.48	7.82	7.79	-103.55	-295.85	-188.76	106.32	90.77	15.55	6.839	
2,800.00	2,759.43	2,786.00	2,754.53	8.13	8.07	-106.04	-313.64	-199.21	117.88	101.75	16.13	7.310	
2,900.00	2,856.02	2,885.21	2,851.57	8.45	8.35	-108.08	-331.43	-209.65	129.62	112.91	16.71	7.757	
3,000.00	2,952.61	2,984.42	2,948.61	8.78	8.63	-109.78	-349.22	-220.10	141.49	124.20	17.30	8.181	
3,100.00	3,049.20	3,083.63	3,045.65	9.10	8.91	-111.22	-367.01	-230.55	153.48	135.59	17.88	8.582	
3,200.00	3,145.79	3,182.85	3,142.70	9.43	9.19	-112.45	-384.80	-241.00	165.54	147.06	18.47	8.961	
3,300.00	3,242.39	3,282.06	3,239.74	9.77	9.48	-113.52	-402.59	-251.45	177.66	158.60	19.07	9.319	
3,400.00	3,338.98	3,381.27	3,336.78	10.10	9.76	-114.44	-420.38	-261.89	189.84	170.19	19.66	9.657	
3,500.00	3,435.57	3,480.48	3,433.83	10.44	10.04	-115.26	-438.17	-272.34	202.07	181.81	20.25	9.977	
3,600.00	3,532.16	3,579.69	3,530.87	10.78	10.33	-115.98	-455.96	-282.79	214.32	193.48	20.85	10.280	
3,700.00	3,628.75	3,678.90	3,627.91	11.12	10.62	-116.62	-473.75	-293.24	226.61	205.17	21.45	10.567	
3,800.00	3,725.34	3,778.12	3,724.95	11.46	10.90	-117.20	-491.54	-303.68	238.93	216.89	22.04	10.842	
3,900.00	3,821.94	3,877.31	3,822.17	11.80	11.17	-117.94	-508.52	-313.66	251.26	228.65	22.61	11.111	
4,000.00	3,918.53	3,976.28	3,919.64	12.14	11.42	-119.16	-523.32	-322.35	263.69	240.53	23.16	11.385	
4,100.00	4,015.12	4,074.89	4,017.16	12.49	11.65	-120.80	-535.89	-329.73	276.36	252.70	23.66	11.679	
4,200.00	4,111.71	4,173.02	4,114.55	12.83	11.85	-122.79	-546.24	-335.81	289.45	265.33	24.12	12.000	
4,300.00	4,208.30	4,270.53	4,211.60	13.18	12.02	-125.07	-554.38	-340.59	303.17	278.65	24.53	12.361	
4,400.00	4,304.90	4,367.31	4,308.13	13.53	12.17	-127.58	-560.35	-344.10	317.76	292.88	24.88	12.771	
4,500.00	4,401.49	4,463.25	4,403.96	13.88	12.30	-130.26	-564.18	-346.35	333.46	308.27	25.19	13.240	
4,600.00	4,498.08	4,558.23	4,498.92	14.23	12.38	-133.06	-565.93	-347.37	350.48	325.05	25.42	13.787	
4,700.00	4,594.67	4,653.98	4,594.67	14.58	12.43	-135.90	-566.06	-347.45	368.88	343.29	25.59	14.413	
4,800.00	4,691.26	4,750.57	4,691.26	14.93	12.46	-138.52	-566.06	-347.45	388.18	362.42	25.76	15.068	
4,900.00	4,788.20	4,847.50	4,788.20	15.26	12.50	-140.97	-566.06	-347.45	407.18	381.23	25.94	15.696	
5,000.00	4,885.74	4,945.05	4,885.74	15.57	12.54	-142.98	-566.06	-347.45	424.69	398.56	26.13	16.256	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
5,100.00	4,983.82	5,043.13	4,983.82	15.85	12.58	-144.64	-566.06	-347.45	440.50	414.19	26.31	16.741	
5,200.00	5,082.39	5,141.69	5,082.39	16.10	12.62	-145.98	-566.06	-347.45	454.45	427.95	26.50	17.148	
5,300.00	5,181.35	5,240.66	5,181.35	16.32	12.66	-147.06	-566.06	-347.45	466.41	439.72	26.69	17.474	
5,400.00	5,280.66	5,339.97	5,280.66	16.52	12.70	-147.90	-566.06	-347.45	476.30	449.42	26.88	17.718	
5,500.00	5,380.25	5,439.56	5,380.25	16.68	12.74	-148.54	-566.06	-347.45	484.04	456.97	27.07	17.880	
5,600.00	5,480.03	5,539.34	5,480.03	16.82	12.78	-148.98	-566.06	-347.45	489.60	462.34	27.26	17.962	
5,700.00	5,579.96	5,639.26	5,579.96	16.93	12.82	-149.23	-566.06	-347.45	492.92	465.49	27.43	17.967	
5,800.00	5,679.94	5,739.25	5,679.94	16.99	12.86	89.59	-566.06	-347.45	494.00	466.45	27.55	17.930	
5,900.00	5,779.94	5,839.25	5,779.94	17.03	12.91	89.59	-566.06	-347.45	494.00	466.37	27.63	17.880	
6,000.00	5,879.94	5,939.25	5,879.94	17.07	12.95	89.59	-566.06	-347.45	494.00	466.30	27.71	17.830	
6,100.00	5,979.94	6,039.25	5,979.94	17.10	12.99	89.59	-566.06	-347.45	494.00	466.22	27.79	17.779	
6,200.00	6,079.94	6,139.25	6,079.94	17.14	13.04	89.59	-566.06	-347.45	494.00	466.14	27.87	17.728	
6,300.00	6,179.94	6,239.25	6,179.94	17.17	13.08	89.59	-566.06	-347.45	494.00	466.06	27.95	17.677	
6,400.00	6,279.94	6,339.25	6,279.94	17.21	13.13	89.59	-566.06	-347.45	494.00	465.98	28.03	17.626	
6,500.00	6,379.94	6,439.25	6,379.94	17.25	13.17	89.59	-566.06	-347.45	494.00	465.89	28.11	17.575	
6,600.00	6,479.94	6,539.25	6,479.94	17.29	13.22	89.59	-566.06	-347.45	494.00	465.81	28.19	17.523	
6,700.00	6,579.94	6,639.25	6,579.94	17.32	13.26	89.59	-566.06	-347.45	494.00	465.73	28.27	17.472	
6,800.00	6,679.94	6,739.25	6,679.94	17.36	13.31	89.59	-566.06	-347.45	494.00	465.64	28.36	17.420	
6,900.00	6,779.94	6,839.25	6,779.94	17.40	13.35	89.59	-566.06	-347.45	494.00	465.56	28.44	17.368	
7,000.00	6,879.94	6,939.25	6,879.94	17.44	13.40	89.59	-566.06	-347.45	494.00	465.47	28.53	17.316	
7,100.00	6,979.94	7,039.25	6,979.94	17.48	13.45	89.59	-566.06	-347.45	494.00	465.39	28.61	17.264	
7,200.00	7,079.94	7,139.25	7,079.94	17.52	13.49	89.59	-566.06	-347.45	494.00	465.30	28.70	17.212	
7,300.00	7,179.94	7,239.25	7,179.94	17.56	13.54	89.59	-566.06	-347.45	494.00	465.21	28.79	17.160	
7,400.00	7,279.94	7,339.25	7,279.94	17.60	13.59	89.59	-566.06	-347.45	494.00	465.13	28.88	17.108	
7,500.00	7,379.94	7,439.25	7,379.94	17.64	13.64	89.59	-566.06	-347.45	494.00	465.04	28.96	17.055	
7,600.00	7,479.94	7,539.25	7,479.94	17.68	13.69	89.59	-566.06	-347.45	494.00	464.95	29.05	17.003	
7,700.00	7,579.94	7,639.25	7,579.94	17.72	13.74	89.59	-566.06	-347.45	494.00	464.86	29.14	16.951	
7,800.00	7,679.94	7,739.25	7,679.94	17.76	13.79	89.59	-566.06	-347.45	494.00	464.77	29.23	16.898	
7,900.00	7,779.94	7,839.25	7,779.94	17.80	13.84	89.59	-566.06	-347.45	494.00	464.68	29.33	16.846	
8,000.00	7,879.94	7,939.25	7,879.94	17.84	13.89	89.59	-566.06	-347.45	494.00	464.59	29.42	16.793	
8,100.00	7,979.94	8,039.25	7,979.94	17.88	13.94	89.59	-566.06	-347.45	494.00	464.49	29.51	16.740	
8,200.00	8,079.94	8,139.25	8,079.94	17.93	13.99	89.59	-566.06	-347.45	494.00	464.40	29.60	16.688	
8,300.00	8,179.94	8,239.25	8,179.94	17.97	14.04	89.59	-566.06	-347.45	494.00	464.31	29.70	16.635	
8,400.00	8,279.94	8,339.25	8,279.94	18.01	14.09	89.59	-566.06	-347.45	494.00	464.21	29.79	16.583	
8,500.00	8,379.94	8,439.25	8,379.94	18.05	14.14	89.59	-566.06	-347.45	494.00	464.12	29.89	16.530	
8,600.00	8,479.94	8,539.25	8,479.94	18.10	14.19	89.59	-566.06	-347.45	494.00	464.02	29.98	16.478	
8,700.00	8,579.94	8,639.25	8,579.94	18.14	14.25	89.59	-566.06	-347.45	494.00	463.93	30.08	16.425	
8,800.00	8,679.94	8,739.25	8,679.94	18.18	14.30	89.59	-566.06	-347.45	494.00	463.83	30.17	16.372	
8,900.00	8,779.94	8,839.25	8,779.94	18.23	14.35	89.59	-566.06	-347.45	494.00	463.73	30.27	16.320	
9,000.00	8,879.94	8,939.25	8,879.94	18.27	14.40	89.59	-566.06	-347.45	494.00	463.64	30.37	16.267	
9,100.00	8,979.94	9,039.25	8,979.94	18.32	14.46	89.59	-566.06	-347.45	494.00	463.54	30.47	16.215	
9,200.00	9,079.94	9,139.25	9,079.94	18.36	14.51	89.59	-566.06	-347.45	494.00	463.44	30.56	16.163	
9,300.00	9,179.94	9,239.25	9,179.94	18.41	14.56	89.59	-566.06	-347.45	494.00	463.34	30.66	16.110	
9,400.00	9,279.94	9,339.25	9,279.94	18.45	14.62	89.59	-566.06	-347.45	494.00	463.24	30.76	16.058	
9,500.00	9,379.94	9,439.25	9,379.94	18.50	14.67	89.59	-566.06	-347.45	494.00	463.14	30.86	16.006	
9,600.00	9,479.94	9,539.25	9,479.94	18.54	14.73	89.59	-566.06	-347.45	494.00	463.04	30.97	15.954	
9,700.00	9,579.94	9,639.25	9,579.94	18.59	14.78	89.59	-566.06	-347.45	494.00	462.94	31.07	15.901	
9,800.00	9,679.94	9,739.25	9,679.94	18.64	14.84	89.59	-566.06	-347.45	494.00	462.83	31.17	15.849	
9,900.00	9,779.94	9,839.25	9,779.94	18.68	14.89	89.59	-566.06	-347.45	494.00	462.73	31.27	15.797	
10,000.00	9,879.94	9,939.25	9,879.94	18.73	14.95	89.59	-566.06	-347.45	494.00	462.63	31.37	15.746	
10,100.00	9,979.94	10,039.25	9,979.94	18.78	15.01	89.59	-566.06	-347.45	494.00	462.53	31.48	15.694	
10,200.00	10,079.94	10,139.25	10,079.94	18.82	15.06	89.59	-566.06	-347.45	494.00	462.42	31.58	15.642	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	10,179.94	10,239.25	10,179.94	18.87	15.12	89.59	-566.06	-347.45	494.00	462.32	31.69	15.591	
10,400.00	10,279.94	10,339.25	10,279.94	18.92	15.18	89.59	-566.06	-347.45	494.00	462.21	31.79	15.539	
10,500.00	10,379.94	10,439.25	10,379.94	18.97	15.23	89.59	-566.06	-347.45	494.00	462.11	31.90	15.488	
10,600.00	10,479.94	10,539.25	10,479.94	19.02	15.29	89.59	-566.06	-347.45	494.00	462.00	32.00	15.436	
10,700.00	10,579.94	10,639.25	10,579.94	19.07	15.35	89.59	-566.06	-347.45	494.00	461.89	32.11	15.385	
10,800.00	10,679.94	10,739.25	10,679.94	19.11	15.41	89.59	-566.06	-347.45	494.00	461.79	32.22	15.334	
10,900.00	10,779.94	10,839.25	10,779.94	19.16	15.46	89.59	-566.06	-347.45	494.00	461.68	32.32	15.283	
11,000.00	10,879.94	10,939.25	10,879.94	19.21	15.52	89.59	-566.06	-347.45	494.00	461.57	32.43	15.232	
11,100.00	10,979.94	11,039.25	10,979.94	19.26	15.58	89.59	-566.06	-347.45	494.00	461.47	32.54	15.183	
11,100.92	10,980.86	11,040.17	10,980.86	19.26	15.58	89.59	-566.06	-347.45	494.00	461.47	32.54	15.182	
11,200.00	11,079.94	11,139.06	11,079.69	19.31	15.65	89.83	-568.13	-347.43	494.01	461.37	32.65	15.133	
11,300.00	11,179.94	11,235.80	11,174.93	19.36	15.83	91.72	-584.43	-347.28	494.40	461.49	32.91	15.023	
11,400.00	11,279.94	11,324.81	11,259.01	19.41	16.06	95.06	-613.38	-347.02	496.79	463.42	33.37	14.888	
11,500.00	11,379.94	11,400.00	11,325.83	19.46	16.30	98.97	-647.73	-346.71	503.78	469.74	34.04	14.802	
11,600.00	11,479.94	11,470.66	11,384.03	19.51	16.58	103.42	-687.74	-346.34	517.95	482.95	35.00	14.800	
11,700.00	11,579.94	11,527.58	11,427.04	19.56	16.85	107.41	-724.97	-346.01	541.26	505.02	36.25	14.933	
11,800.00	11,679.94	11,575.43	11,460.20	19.61	17.11	110.95	-759.45	-345.69	574.53	536.80	37.73	15.226	
11,900.00	11,779.94	11,615.69	11,485.79	19.67	17.35	114.01	-790.52	-345.41	617.55	578.21	39.34	15.698	
12,000.00	11,879.94	11,650.00	11,505.83	19.72	17.58	116.62	-818.36	-345.16	669.42	628.48	40.94	16.350	
12,100.00	11,979.48	11,682.18	11,523.08	19.84	17.81	-55.06	-845.51	-344.91	725.56	683.09	42.48	17.082	
12,200.00	12,076.09	11,716.89	11,539.95	20.05	18.07	-48.21	-875.85	-344.63	779.96	736.03	43.93	17.755	
12,300.00	12,166.83	11,750.00	11,554.30	20.32	18.33	-42.78	-905.68	-344.36	830.44	785.15	45.29	18.335	
12,400.00	12,248.94	11,800.00	11,572.64	20.67	18.75	-38.19	-952.17	-343.94	875.47	829.00	46.47	18.839	
12,500.00	12,319.94	11,829.51	11,581.54	21.11	19.02	-35.18	-980.30	-343.68	913.56	865.99	47.57	19.203	
12,600.00	12,377.66	11,868.76	11,591.11	21.65	19.38	-32.87	-1,018.36	-343.34	944.15	895.67	48.48	19.474	
12,700.00	12,420.35	11,900.00	11,596.86	22.29	19.67	-31.37	-1,049.06	-343.06	966.58	917.38	49.20	19.645	
12,800.00	12,446.71	11,950.00	11,602.54	23.03	20.16	-30.41	-1,098.72	-342.61	980.15	930.38	49.77	19.694	
12,900.04	12,455.95	11,990.84	11,603.97	23.86	20.58	-30.11	-1,139.52	-342.24	984.88	934.76	50.12	19.650	
13,000.00	12,456.48	12,090.80	11,604.49	24.75	21.62	-30.11	-1,239.48	-341.33	984.88	934.28	50.60	19.465	
13,100.00	12,457.00	12,190.80	11,605.02	25.69	22.70	-30.11	-1,339.47	-340.42	984.89	933.77	51.12	19.266	
13,200.00	12,457.53	12,290.80	11,605.54	26.67	23.81	-30.11	-1,439.47	-339.51	984.89	933.21	51.69	19.055	
13,300.00	12,458.05	12,390.80	11,606.07	27.68	24.95	-30.11	-1,539.46	-338.60	984.90	932.61	52.30	18.833	
13,400.00	12,458.58	12,490.80	11,606.59	28.73	26.11	-30.11	-1,639.45	-337.69	984.91	931.96	52.94	18.603	
13,500.00	12,459.11	12,590.80	11,607.12	29.80	27.29	-30.11	-1,739.45	-336.78	984.91	931.28	53.63	18.365	
13,600.00	12,459.63	12,690.80	11,607.64	30.90	28.48	-30.11	-1,839.44	-335.88	984.92	930.56	54.36	18.120	
13,700.00	12,460.16	12,790.80	11,608.17	32.01	29.69	-30.11	-1,939.44	-334.97	984.92	929.81	55.12	17.870	
13,800.00	12,460.69	12,890.80	11,608.69	33.15	30.91	-30.11	-2,039.43	-334.06	984.93	929.02	55.91	17.616	
13,900.00	12,461.21	12,990.80	11,609.22	34.30	32.15	-30.11	-2,139.43	-333.15	984.93	928.19	56.74	17.359	
14,000.00	12,461.74	13,090.80	11,609.74	35.46	33.39	-30.11	-2,239.42	-332.24	984.94	927.34	57.60	17.099	
14,100.00	12,462.26	13,190.80	11,610.27	36.64	34.65	-30.11	-2,339.42	-331.33	984.95	926.45	58.49	16.839	
14,200.00	12,462.79	13,290.80	11,610.79	37.84	35.91	-30.11	-2,439.41	-330.42	984.95	925.54	59.41	16.579	
14,300.00	12,463.32	13,390.80	11,611.32	39.04	37.18	-30.11	-2,539.41	-329.51	984.96	924.60	60.36	16.319	
14,400.00	12,463.84	13,490.80	11,611.84	40.25	38.45	-30.12	-2,639.40	-328.60	984.96	923.63	61.33	16.060	
14,500.00	12,464.37	13,590.80	11,612.37	41.48	39.74	-30.12	-2,739.39	-327.70	984.97	922.64	62.33	15.803	
14,600.00	12,464.90	13,690.80	11,612.90	42.71	41.02	-30.12	-2,839.39	-326.79	984.97	921.62	63.35	15.548	
14,700.00	12,465.42	13,790.80	11,613.42	43.95	42.32	-30.12	-2,939.38	-325.88	984.98	920.58	64.40	15.296	
14,800.00	12,465.95	13,890.80	11,613.95	45.19	43.61	-30.12	-3,039.38	-324.97	984.99	919.52	65.46	15.047	
14,900.00	12,466.47	13,990.80	11,614.47	46.45	44.92	-30.12	-3,139.37	-324.06	984.99	918.44	66.55	14.801	
15,000.00	12,467.00	14,090.80	11,615.00	47.71	46.22	-30.12	-3,239.37	-323.15	985.00	917.34	67.66	14.559	
15,100.00	12,467.53	14,190.80	11,615.52	48.97	47.53	-30.12	-3,339.36	-322.24	985.00	916.22	68.78	14.321	
15,200.00	12,468.05	14,290.80	11,616.05	50.24	48.84	-30.12	-3,439.36	-321.33	985.01	915.08	69.93	14.087	
15,300.00	12,468.58	14,390.80	11,616.57	51.52	50.16	-30.12	-3,539.35	-320.42	985.01	913.93	71.09	13.857	

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	12,469.10	14,490.80	11,617.10	52.80	51.48	-30.12	-3,639.34	-319.51	985.02	912.76	72.26	13.631	
15,500.00	12,469.63	14,590.80	11,617.62	54.08	52.80	-30.12	-3,739.34	-318.61	985.03	911.57	73.45	13.410	
15,600.00	12,470.16	14,690.80	11,618.15	55.37	54.12	-30.12	-3,839.33	-317.70	985.03	910.37	74.66	13.194	
15,700.00	12,470.68	14,790.80	11,618.67	56.66	55.45	-30.12	-3,939.33	-316.79	985.04	909.16	75.88	12.981	
15,800.00	12,471.21	14,890.80	11,619.20	57.95	56.77	-30.12	-4,039.32	-315.88	985.04	907.93	77.11	12.774	
15,900.00	12,471.74	14,990.80	11,619.72	59.25	58.10	-30.12	-4,139.32	-314.97	985.05	906.69	78.36	12.571	
16,000.00	12,472.26	15,090.80	11,620.25	60.55	59.43	-30.12	-4,239.31	-314.06	985.05	905.44	79.62	12.372	
16,100.00	12,472.79	15,190.80	11,620.77	61.86	60.77	-30.12	-4,339.31	-313.15	985.06	904.17	80.89	12.178	
16,200.00	12,473.31	15,290.80	11,621.30	63.16	62.10	-30.12	-4,439.30	-312.24	985.07	902.90	82.17	11.988	
16,300.00	12,473.84	15,390.80	11,621.82	64.47	63.44	-30.12	-4,539.30	-311.33	985.07	901.61	83.46	11.803	
16,400.00	12,474.37	15,490.80	11,622.35	65.78	64.78	-30.12	-4,639.29	-310.43	985.08	900.32	84.76	11.622	
16,500.00	12,474.89	15,590.80	11,622.87	67.10	66.11	-30.12	-4,739.28	-309.52	985.08	899.01	86.07	11.445	
16,600.00	12,475.42	15,690.80	11,623.40	68.41	67.45	-30.13	-4,839.28	-308.61	985.09	897.70	87.39	11.272	
16,700.00	12,475.94	15,790.80	11,623.92	69.73	68.79	-30.13	-4,939.27	-307.70	985.09	896.37	88.72	11.103	
16,800.00	12,476.47	15,890.80	11,624.45	71.05	70.14	-30.13	-5,039.27	-306.79	985.10	895.04	90.06	10.939	
16,900.00	12,477.00	15,990.80	11,624.97	72.37	71.48	-30.13	-5,139.26	-305.88	985.11	893.70	91.40	10.778	
17,000.00	12,477.52	16,090.80	11,625.50	73.70	72.82	-30.13	-5,239.26	-304.97	985.11	892.36	92.75	10.621	
17,100.00	12,478.05	16,190.80	11,626.02	75.02	74.17	-30.13	-5,339.25	-304.06	985.12	891.00	94.11	10.467	
17,200.00	12,478.58	16,290.80	11,626.55	76.35	75.51	-30.13	-5,439.25	-303.15	985.12	889.64	95.48	10.318	
17,300.00	12,479.10	16,390.80	11,627.07	77.68	76.86	-30.13	-5,539.24	-302.25	985.13	888.27	96.85	10.171	
17,400.00	12,479.63	16,490.80	11,627.60	79.01	78.21	-30.13	-5,639.23	-301.34	985.13	886.90	98.23	10.028	
17,500.00	12,480.15	16,590.80	11,628.12	80.34	79.56	-30.13	-5,739.23	-300.43	985.14	885.52	99.62	9.889	
17,600.00	12,480.68	16,690.80	11,628.65	81.67	80.91	-30.13	-5,839.22	-299.52	985.15	884.13	101.01	9.753	
17,700.00	12,481.21	16,790.80	11,629.17	83.00	82.26	-30.13	-5,939.22	-298.61	985.15	882.74	102.41	9.620	
17,800.00	12,481.73	16,890.80	11,629.70	84.34	83.61	-30.13	-6,039.21	-297.70	985.16	881.35	103.81	9.490	
17,900.00	12,482.26	16,990.80	11,630.22	85.67	84.96	-30.13	-6,139.21	-296.79	985.16	879.94	105.22	9.363	
18,000.00	12,482.79	17,090.80	11,630.75	87.01	86.31	-30.13	-6,239.20	-295.88	985.17	878.54	106.63	9.239	
18,100.00	12,483.31	17,190.80	11,631.27	88.35	87.66	-30.13	-6,339.20	-294.97	985.17	877.12	108.05	9.118	
18,200.00	12,483.84	17,290.80	11,631.80	89.68	89.01	-30.13	-6,439.19	-294.07	985.18	875.71	109.47	8.999	
18,300.00	12,484.36	17,390.80	11,632.32	91.02	90.37	-30.13	-6,539.18	-293.16	985.19	874.28	110.90	8.883	
18,400.00	12,484.89	17,490.80	11,632.85	92.36	91.72	-30.13	-6,639.18	-292.25	985.19	872.86	112.33	8.770	
18,500.00	12,485.42	17,590.80	11,633.37	93.70	93.07	-30.13	-6,739.17	-291.34	985.20	871.43	113.77	8.660	
18,600.00	12,485.94	17,690.80	11,633.90	95.05	94.43	-30.13	-6,839.17	-290.43	985.20	870.00	115.21	8.552	
18,700.00	12,486.47	17,790.80	11,634.42	96.39	95.78	-30.13	-6,939.16	-289.52	985.21	868.56	116.65	8.446	
18,800.00	12,486.99	17,890.80	11,634.95	97.73	97.14	-30.14	-7,039.16	-288.61	985.21	867.12	118.10	8.342	
18,900.00	12,487.52	17,990.80	11,635.47	99.07	98.49	-30.14	-7,139.15	-287.70	985.22	865.67	119.55	8.241	
19,000.00	12,488.05	18,090.80	11,636.00	100.42	99.85	-30.14	-7,239.15	-286.79	985.23	864.22	121.00	8.142	
19,100.00	12,488.57	18,190.80	11,636.52	101.76	101.21	-30.14	-7,339.14	-285.88	985.23	862.77	122.46	8.045	
19,200.00	12,489.10	18,290.80	11,637.05	103.11	102.56	-30.14	-7,439.14	-284.98	985.24	861.32	123.92	7.951	
19,300.00	12,489.63	18,390.80	11,637.57	104.46	103.92	-30.14	-7,539.13	-284.07	985.24	859.86	125.38	7.858	
19,400.00	12,490.15	18,490.80	11,638.10	105.80	105.28	-30.14	-7,639.12	-283.16	985.25	858.40	126.85	7.767	
19,500.00	12,490.68	18,590.80	11,638.62	107.15	106.63	-30.14	-7,739.12	-282.25	985.25	856.94	128.32	7.678	
19,600.00	12,491.20	18,690.80	11,639.15	108.50	107.99	-30.14	-7,839.11	-281.34	985.26	855.47	129.79	7.591	
19,700.00	12,491.73	18,790.80	11,639.67	109.85	109.35	-30.14	-7,939.11	-280.43	985.27	854.00	131.27	7.506	
19,800.00	12,492.26	18,890.80	11,640.20	111.20	110.71	-30.14	-8,039.10	-279.52	985.27	852.53	132.74	7.422	
19,900.00	12,492.78	18,990.80	11,640.73	112.55	112.07	-30.14	-8,139.10	-278.61	985.28	851.05	134.22	7.341	
20,000.00	12,493.31	19,090.80	11,641.25	113.90	113.43	-30.14	-8,239.09	-277.70	985.28	849.58	135.71	7.260	
20,100.00	12,493.84	19,190.80	11,641.78	115.25	114.79	-30.14	-8,339.09	-276.80	985.29	848.10	137.19	7.182	
20,200.00	12,494.36	19,290.80	11,642.30	116.60	116.15	-30.14	-8,439.08	-275.89	985.29	846.62	138.68	7.105	
20,300.00	12,494.89	19,390.80	11,642.83	117.95	117.51	-30.14	-8,539.07	-274.98	985.30	845.13	140.17	7.029	
20,400.00	12,495.41	19,490.80	11,643.35	119.30	118.87	-30.14	-8,639.07	-274.07	985.31	843.65	141.66	6.956	
20,500.00	12,495.94	19,590.80	11,643.88	120.65	120.23	-30.14	-8,739.06	-273.16	985.31	842.16	143.15	6.883	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	12,496.47	19,690.80	11,644.40	122.01	121.59	-30.14	-8,839.06	-272.25	985.32	840.67	144.65	6.812	
20,700.00	12,496.99	19,790.80	11,644.93	123.36	122.95	-30.14	-8,939.05	-271.34	985.32	839.18	146.14	6.742	
20,800.00	12,497.52	19,890.80	11,645.45	124.71	124.31	-30.14	-9,039.05	-270.43	985.33	837.68	147.64	6.674	
20,900.00	12,498.04	19,990.80	11,645.98	126.07	125.67	-30.14	-9,139.04	-269.52	985.33	836.19	149.14	6.607	
21,000.00	12,498.57	20,090.80	11,646.50	127.42	127.03	-30.14	-9,239.04	-268.62	985.34	834.69	150.65	6.541	
21,100.00	12,499.10	20,190.80	11,647.03	128.77	128.39	-30.15	-9,339.03	-267.71	985.35	833.19	152.15	6.476	
21,200.00	12,499.62	20,290.80	11,647.55	130.13	129.75	-30.15	-9,439.03	-266.80	985.35	831.69	153.66	6.413	
21,300.00	12,500.15	20,390.80	11,648.08	131.48	131.11	-30.15	-9,539.02	-265.89	985.36	830.19	155.17	6.350	
21,400.00	12,500.68	20,490.80	11,648.60	132.84	132.48	-30.15	-9,639.01	-264.98	985.36	828.69	156.68	6.289	
21,500.00	12,501.20	20,590.80	11,649.13	134.20	133.84	-30.15	-9,739.01	-264.07	985.37	827.18	158.19	6.229	
21,600.00	12,501.73	20,690.80	11,649.65	135.55	135.20	-30.15	-9,839.00	-263.16	985.37	825.67	159.70	6.170	
21,700.00	12,502.25	20,790.80	11,650.18	136.91	136.56	-30.15	-9,939.00	-262.25	985.38	824.17	161.21	6.112	
21,800.00	12,502.78	20,890.80	11,650.70	138.26	137.93	-30.15	-10,038.99	-261.34	985.39	822.66	162.73	6.055	
21,900.00	12,503.31	20,990.80	11,651.23	139.62	139.29	-30.15	-10,138.99	-260.44	985.39	821.14	164.25	5.999	
22,000.00	12,503.83	21,090.80	11,651.75	140.98	140.65	-30.15	-10,238.98	-259.53	985.40	819.63	165.76	5.945	
22,100.00	12,504.36	21,190.80	11,652.28	142.33	142.01	-30.15	-10,338.98	-258.62	985.40	818.12	167.28	5.891	
22,200.00	12,504.89	21,290.80	11,652.80	143.69	143.38	-30.15	-10,438.97	-257.71	985.41	816.60	168.80	5.838	
22,300.00	12,505.41	21,390.80	11,653.33	145.05	144.74	-30.15	-10,538.96	-256.80	985.41	815.09	170.33	5.785	
22,400.00	12,505.94	21,490.80	11,653.85	146.41	146.10	-30.15	-10,638.96	-255.89	985.42	813.57	171.85	5.734	
22,500.00	12,506.46	21,590.80	11,654.38	147.76	147.47	-30.15	-10,738.95	-254.98	985.43	812.05	173.37	5.684	
22,600.00	12,506.99	21,690.80	11,654.90	149.12	148.83	-30.15	-10,838.95	-254.07	985.43	810.53	174.90	5.634	
22,700.00	12,507.52	21,790.80	11,655.43	150.48	150.19	-30.15	-10,938.94	-253.16	985.44	809.01	176.43	5.586	
22,800.00	12,508.04	21,890.80	11,655.95	151.84	151.56	-30.15	-11,038.94	-252.26	985.44	807.49	177.95	5.538	
22,802.16	12,508.05	21,892.96	11,655.96	151.87	151.59	-30.15	-11,041.10	-252.24	985.44	807.46	177.99	5.537	
22,830.04	12,508.20	21,918.86	11,656.10	152.25	151.94	-30.15	-11,067.00	-252.00	985.45	807.06	178.38	5.524	

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	1.00	0.50	0.50	-172.30	-185.00	-25.00	186.68				
100.00	100.00	99.00	100.00	0.98	0.97	-172.30	-185.00	-25.00	186.68	184.73	1.95	95.493	
200.00	200.00	199.00	200.00	1.56	1.56	-172.30	-185.00	-25.00	186.68	183.57	3.12	59.906	
300.00	300.00	299.00	300.00	1.98	1.98	-172.30	-185.00	-25.00	186.68	182.72	3.96	47.165	CC
400.00	400.00	396.46	397.45	2.33	2.39	-172.62	-185.78	-24.07	187.35	182.69	4.66	40.171	ES
500.00	500.00	493.77	494.69	2.63	2.75	-173.56	-188.16	-21.24	189.43	184.15	5.28	35.890	
600.00	599.99	590.85	591.57	2.97	3.07	-15.17	-192.11	-16.52	191.74	185.85	5.89	32.548	
700.00	699.91	687.60	687.93	3.26	3.37	-17.54	-197.63	-9.95	193.25	186.80	6.45	29.961	
800.00	799.69	783.89	783.60	3.54	3.65	-20.66	-204.68	-1.55	194.29	187.31	6.98	27.827	
900.00	899.32	881.32	880.12	3.65	3.80	-24.46	-213.19	8.59	195.64	188.39	7.24	27.012	
1,000.00	998.94	980.38	978.22	3.87	4.01	-28.34	-222.05	19.15	197.99	190.31	7.68	25.770	
1,100.00	1,098.56	1,079.45	1,076.32	4.07	4.23	-32.11	-230.91	29.72	201.24	193.11	8.13	24.758	
1,200.00	1,198.18	1,178.51	1,174.42	4.28	4.46	-35.75	-239.77	40.28	205.35	196.78	8.57	23.952	
1,300.00	1,297.78	1,277.06	1,271.95	4.39	4.67	-45.59	-248.44	51.44	210.37	201.47	8.90	23.646	
1,400.00	1,397.24	1,374.32	1,367.96	4.60	4.89	-59.98	-256.43	64.77	217.04	207.72	9.32	23.287	
1,500.00	1,496.46	1,469.98	1,462.08	4.82	5.10	-72.21	-263.73	80.22	226.46	216.73	9.73	23.274	
1,600.00	1,595.38	1,563.70	1,553.93	5.04	5.32	-82.96	-270.34	97.58	239.75	229.62	10.13	23.667	
1,700.00	1,693.92	1,656.59	1,644.62	5.27	5.50	-92.58	-276.42	116.72	257.76	247.26	10.50	24.550	
1,800.00	1,792.04	1,749.82	1,735.59	5.49	5.69	-101.03	-282.44	136.24	280.14	269.25	10.89	25.713	
1,900.00	1,889.64	1,842.09	1,825.62	5.71	5.89	-108.31	-288.40	155.56	306.67	295.35	11.31	27.108	
2,000.00	1,986.68	1,933.33	1,914.64	5.94	6.12	-114.60	-294.29	174.66	337.17	325.42	11.75	28.693	
2,100.00	2,083.28	2,023.82	2,002.94	6.11	6.37	-119.15	-300.13	193.61	370.89	358.75	12.14	30.540	
2,200.00	2,179.88	2,114.29	2,091.20	6.34	6.62	-122.76	-305.98	212.55	406.32	393.73	12.58	32.290	
2,300.00	2,276.47	2,204.76	2,179.47	6.61	6.88	-125.82	-311.82	231.49	443.01	429.99	13.02	34.015	
2,400.00	2,373.06	2,295.22	2,267.74	6.90	7.14	-128.43	-317.66	250.43	480.68	467.22	13.47	35.695	
2,500.00	2,469.65	2,385.69	2,356.01	7.20	7.40	-130.67	-323.50	269.37	519.12	505.21	13.91	37.320	
2,600.00	2,566.24	2,476.16	2,444.28	7.50	7.66	-132.61	-329.34	288.31	558.16	543.80	14.35	38.883	
2,700.00	2,662.84	2,566.63	2,532.55	7.82	7.92	-134.30	-335.19	307.25	597.69	582.89	14.80	40.383	
2,800.00	2,759.43	2,657.09	2,620.82	8.13	8.18	-135.78	-341.03	326.19	637.61	622.37	15.25	41.819	
2,900.00	2,856.02	2,747.56	2,709.09	8.45	8.44	-137.10	-346.87	345.14	677.87	662.17	15.69	43.190	
3,000.00	2,952.61	2,838.03	2,797.36	8.78	8.71	-138.27	-352.71	364.08	718.39	702.25	16.14	44.500	
3,100.00	3,049.20	2,928.50	2,885.63	9.10	8.97	-139.32	-358.56	383.02	759.15	742.55	16.59	45.751	
3,200.00	3,145.79	3,018.96	2,973.90	9.43	9.24	-140.26	-364.40	401.96	800.09	783.05	17.04	46.944	
3,300.00	3,242.39	3,109.43	3,062.17	9.77	9.51	-141.11	-370.24	420.90	841.21	823.71	17.49	48.083	
3,400.00	3,338.98	3,199.90	3,150.44	10.10	9.77	-141.88	-376.08	439.84	882.46	864.51	17.95	49.170	
3,500.00	3,435.57	3,290.37	3,238.71	10.44	10.04	-142.59	-381.92	458.78	923.84	905.44	18.40	50.208	
3,600.00	3,532.16	3,380.83	3,326.97	10.78	10.31	-143.23	-387.77	477.72	965.32	946.47	18.85	51.200	
3,700.00	3,628.75	3,471.30	3,415.24	11.12	10.58	-143.82	-393.61	496.66	1,006.90	987.59	19.31	52.148	
3,800.00	3,725.34	3,561.77	3,503.51	11.46	10.85	-144.37	-399.45	515.61	1,048.56	1,028.80	19.76	53.054	
3,900.00	3,821.94	3,652.24	3,591.78	11.80	11.12	-144.87	-405.29	534.55	1,090.30	1,070.08	20.22	53.922	
4,000.00	3,918.53	3,742.70	3,680.05	12.14	11.39	-145.34	-411.14	553.49	1,132.10	1,111.42	20.68	54.752	
4,100.00	4,015.12	3,833.17	3,768.32	12.49	11.66	-145.78	-416.98	572.43	1,173.96	1,152.82	21.13	55.548	
4,200.00	4,111.71	3,923.64	3,856.59	12.83	11.93	-146.18	-422.82	591.37	1,215.87	1,194.28	21.59	56.310	
4,300.00	4,208.30	4,014.11	3,944.86	13.18	12.20	-146.56	-428.66	610.31	1,257.83	1,235.77	22.05	57.041	
4,400.00	4,304.90	4,104.57	4,033.13	13.53	12.47	-146.91	-434.50	629.25	1,299.83	1,277.31	22.51	57.743	
4,500.00	4,401.49	4,195.04	4,121.40	13.88	12.74	-147.24	-440.35	648.19	1,341.86	1,318.89	22.97	58.417	
4,600.00	4,498.08	4,285.51	4,209.67	14.23	13.02	-147.56	-446.19	667.13	1,383.94	1,360.51	23.43	59.065	
4,700.00	4,594.67	4,375.98	4,297.94	14.58	13.29	-147.85	-452.03	686.07	1,426.04	1,402.15	23.89	59.687	
4,800.00	4,691.26	4,466.44	4,386.21	14.93	13.56	-148.13	-457.87	705.02	1,468.18	1,443.83	24.35	60.292	
4,900.00	4,788.20	4,557.44	4,474.99	15.26	13.84	-148.72	-463.75	724.07	1,509.28	1,484.46	24.82	60.813	
5,000.00	4,885.74	4,649.40	4,564.71	15.57	14.11	-149.21	-469.69	743.32	1,548.35	1,523.07	25.28	61.254	
5,100.00	4,983.82	4,742.26	4,655.32	15.85	14.39	-149.62	-475.69	762.76	1,585.35	1,559.62	25.73	61.616	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
5,200.00	5,082.39	4,835.96	4,746.75	16.10	14.68	-149.95	-481.74	782.38	1,620.24	1,594.07	26.17	61.903	
5,300.00	5,181.35	4,930.44	4,838.93	16.32	14.96	-150.21	-487.84	802.16	1,653.00	1,626.39	26.61	62.121	
5,400.00	5,280.66	5,025.63	4,931.81	16.52	15.25	-150.40	-493.98	822.09	1,683.61	1,656.57	27.04	62.274	
5,500.00	5,380.25	5,121.46	5,025.31	16.68	15.54	-150.53	-500.17	842.16	1,712.04	1,684.59	27.45	62.370	
5,600.00	5,480.03	5,217.88	5,119.38	16.82	15.83	-150.60	-506.40	862.34	1,738.29	1,710.44	27.85	62.413	
5,700.00	5,579.96	5,314.81	5,213.96	16.93	16.12	-150.61	-512.66	882.64	1,762.34	1,734.11	28.24	62.411	
5,800.00	5,679.94	5,412.18	5,308.97	16.99	16.42	88.34	-518.95	903.02	1,784.19	1,755.64	28.55	62.483	
5,900.00	5,779.94	5,509.75	5,404.17	17.03	16.71	88.56	-525.25	923.45	1,805.00	1,776.17	28.83	62.608	
6,000.00	5,879.94	5,637.47	5,528.90	17.07	17.07	88.84	-533.33	949.65	1,825.53	1,796.31	29.22	62.479	
6,100.00	5,979.94	5,818.68	5,707.17	17.10	17.54	89.16	-542.88	980.62	1,842.56	1,812.74	29.82	61.786	
6,200.00	6,079.94	6,002.64	5,889.51	17.14	17.92	89.39	-550.02	1,003.76	1,855.10	1,824.75	30.35	61.119	
6,300.00	6,179.94	6,188.53	6,074.74	17.17	18.21	89.54	-554.59	1,018.59	1,863.06	1,832.26	30.80	60.490	
6,400.00	6,279.94	6,375.50	6,261.58	17.21	18.39	89.60	-556.51	1,024.81	1,866.38	1,835.24	31.14	59.929	
6,500.00	6,379.94	6,493.87	6,379.94	17.25	18.44	89.60	-556.57	1,025.00	1,866.49	1,835.25	31.24	59.748	
6,600.00	6,479.94	6,593.87	6,479.94	17.29	18.48	89.60	-556.57	1,025.00	1,866.49	1,835.17	31.31	59.605	
6,700.00	6,579.94	6,693.87	6,579.94	17.32	18.52	89.60	-556.57	1,025.00	1,866.49	1,835.10	31.39	59.460	
6,800.00	6,679.94	6,793.87	6,679.94	17.36	18.56	89.60	-556.57	1,025.00	1,866.49	1,835.02	31.47	59.315	
6,900.00	6,779.94	6,893.87	6,779.94	17.40	18.60	89.60	-556.57	1,025.00	1,866.49	1,834.94	31.54	59.169	
7,000.00	6,879.94	6,993.87	6,879.94	17.44	18.64	89.60	-556.57	1,025.00	1,866.49	1,834.86	31.62	59.023	
7,100.00	6,979.94	7,093.87	6,979.94	17.48	18.68	89.60	-556.57	1,025.00	1,866.49	1,834.78	31.70	58.876	
7,200.00	7,079.94	7,193.87	7,079.94	17.52	18.72	89.60	-556.57	1,025.00	1,866.49	1,834.70	31.78	58.729	
7,300.00	7,179.94	7,293.87	7,179.94	17.56	18.76	89.60	-556.57	1,025.00	1,866.49	1,834.62	31.86	58.581	
7,400.00	7,279.94	7,393.87	7,279.94	17.60	18.80	89.60	-556.57	1,025.00	1,866.49	1,834.54	31.94	58.433	
7,500.00	7,379.94	7,493.87	7,379.94	17.64	18.84	89.60	-556.57	1,025.00	1,866.49	1,834.46	32.02	58.285	
7,600.00	7,479.94	7,593.87	7,479.94	17.68	18.88	89.60	-556.57	1,025.00	1,866.49	1,834.38	32.11	58.136	
7,700.00	7,579.94	7,693.87	7,579.94	17.72	18.93	89.60	-556.57	1,025.00	1,866.49	1,834.30	32.19	57.987	
7,800.00	7,679.94	7,793.87	7,679.94	17.76	18.97	89.60	-556.57	1,025.00	1,866.49	1,834.21	32.27	57.837	
7,900.00	7,779.94	7,893.87	7,779.94	17.80	19.01	89.60	-556.57	1,025.00	1,866.49	1,834.13	32.36	57.688	
8,000.00	7,879.94	7,993.87	7,879.94	17.84	19.05	89.60	-556.57	1,025.00	1,866.49	1,834.05	32.44	57.537	
8,100.00	7,979.94	8,093.87	7,979.94	17.88	19.10	89.60	-556.57	1,025.00	1,866.49	1,833.96	32.52	57.387	
8,200.00	8,079.94	8,193.87	8,079.94	17.93	19.14	89.60	-556.57	1,025.00	1,866.49	1,833.88	32.61	57.236	
8,300.00	8,179.94	8,293.87	8,179.94	17.97	19.18	89.60	-556.57	1,025.00	1,866.49	1,833.79	32.70	57.086	
8,400.00	8,279.94	8,393.87	8,279.94	18.01	19.23	89.60	-556.57	1,025.00	1,866.49	1,833.70	32.78	56.934	
8,500.00	8,379.94	8,493.87	8,379.94	18.05	19.27	89.60	-556.57	1,025.00	1,866.49	1,833.62	32.87	56.783	
8,600.00	8,479.94	8,593.87	8,479.94	18.10	19.31	89.60	-556.57	1,025.00	1,866.49	1,833.53	32.96	56.632	
8,700.00	8,579.94	8,693.87	8,579.94	18.14	19.36	89.60	-556.57	1,025.00	1,866.49	1,833.44	33.05	56.480	
8,800.00	8,679.94	8,793.87	8,679.94	18.18	19.40	89.60	-556.57	1,025.00	1,866.49	1,833.35	33.14	56.328	
8,900.00	8,779.94	8,893.87	8,779.94	18.23	19.45	89.60	-556.57	1,025.00	1,866.49	1,833.26	33.23	56.176	
9,000.00	8,879.94	8,993.87	8,879.94	18.27	19.49	89.60	-556.57	1,025.00	1,866.49	1,833.17	33.32	56.024	
9,100.00	8,979.94	9,093.87	8,979.94	18.32	19.54	89.60	-556.57	1,025.00	1,866.49	1,833.08	33.41	55.872	
9,200.00	9,079.94	9,193.87	9,079.94	18.36	19.58	89.60	-556.57	1,025.00	1,866.49	1,832.99	33.50	55.719	
9,300.00	9,179.94	9,293.87	9,179.94	18.41	19.63	89.60	-556.57	1,025.00	1,866.49	1,832.90	33.59	55.567	
9,400.00	9,279.94	9,393.87	9,279.94	18.45	19.68	89.60	-556.57	1,025.00	1,866.49	1,832.80	33.68	55.415	
9,500.00	9,379.94	9,493.87	9,379.94	18.50	19.72	89.60	-556.57	1,025.00	1,866.49	1,832.71	33.78	55.262	
9,600.00	9,479.94	9,593.87	9,479.94	18.54	19.77	89.60	-556.57	1,025.00	1,866.49	1,832.62	33.87	55.110	
9,700.00	9,579.94	9,693.87	9,579.94	18.59	19.82	89.60	-556.57	1,025.00	1,866.49	1,832.52	33.96	54.957	
9,800.00	9,679.94	9,793.87	9,679.94	18.64	19.86	89.60	-556.57	1,025.00	1,866.49	1,832.43	34.06	54.805	
9,900.00	9,779.94	9,893.87	9,779.94	18.68	19.91	89.60	-556.57	1,025.00	1,866.49	1,832.33	34.15	54.652	
10,000.00	9,879.94	9,993.87	9,879.94	18.73	19.96	89.60	-556.57	1,025.00	1,866.49	1,832.24	34.25	54.500	
10,100.00	9,979.94	10,093.87	9,979.94	18.78	20.00	89.60	-556.57	1,025.00	1,866.49	1,832.14	34.34	54.347	
10,200.00	10,079.94	10,193.87	10,079.94	18.82	20.05	89.60	-556.57	1,025.00	1,866.49	1,832.05	34.44	54.195	
10,300.00	10,179.94	10,293.87	10,179.94	18.87	20.10	89.60	-556.57	1,025.00	1,866.49	1,831.95	34.54	54.043	

Rule Assigned:

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	Rule Assigned: Warning
10,400.00	10,279.94	10,393.87	10,279.94	18.92	20.15	89.60	-556.57	1,025.00	1,866.49	1,831.85	34.63	53.890	
10,500.00	10,379.94	10,493.87	10,379.94	18.97	20.20	89.60	-556.57	1,025.00	1,866.49	1,831.75	34.73	53.738	
10,600.00	10,479.94	10,593.87	10,479.94	19.02	20.25	89.60	-556.57	1,025.00	1,866.49	1,831.65	34.83	53.586	
10,700.00	10,579.94	10,693.87	10,579.94	19.07	20.30	89.60	-556.57	1,025.00	1,866.49	1,831.56	34.93	53.434	
10,800.00	10,679.94	10,793.87	10,679.94	19.11	20.34	89.60	-556.57	1,025.00	1,866.49	1,831.46	35.03	53.283	
10,900.00	10,779.94	10,893.87	10,779.94	19.16	20.39	89.60	-556.57	1,025.00	1,866.49	1,831.36	35.13	53.131	
11,000.00	10,879.94	10,993.87	10,879.94	19.21	20.44	89.60	-556.57	1,025.00	1,866.49	1,831.26	35.23	52.979	
11,100.00	10,979.94	11,093.87	10,979.94	19.26	20.49	89.60	-556.57	1,025.00	1,866.49	1,831.15	35.33	52.828	
11,200.00	11,079.94	11,218.97	11,104.41	19.31	20.61	89.91	-566.70	1,024.32	1,865.92	1,830.49	35.43	52.669	
11,300.00	11,179.94	11,339.20	11,219.29	19.36	20.82	90.98	-601.35	1,021.99	1,864.11	1,828.50	35.61	52.351	
11,400.00	11,279.94	11,441.58	11,309.60	19.41	21.05	92.45	-649.15	1,018.77	1,862.15	1,826.30	35.85	51.949	
11,490.40	11,370.35	11,517.56	11,370.35	19.46	21.25	93.85	-694.60	1,015.71	1,861.35	1,825.27	36.08	51.584	
11,500.00	11,379.94	11,524.76	11,375.78	19.46	21.27	94.00	-699.31	1,015.39	1,861.36	1,825.25	36.11	51.547	
11,600.00	11,479.94	11,591.08	11,422.89	19.51	21.49	95.43	-745.83	1,012.26	1,862.93	1,826.54	36.39	51.195	
11,700.00	11,579.94	11,643.86	11,456.35	19.56	21.68	96.68	-786.54	1,009.52	1,867.73	1,831.03	36.69	50.901	
11,800.00	11,679.94	11,686.21	11,480.38	19.61	21.86	97.75	-821.31	1,007.18	1,876.32	1,839.29	37.04	50.662	
11,900.00	11,779.94	11,720.58	11,497.95	19.67	22.01	98.66	-850.78	1,005.20	1,889.09	1,851.66	37.43	50.476	
12,000.00	11,879.94	11,750.00	11,511.56	19.72	22.15	99.45	-876.80	1,003.45	1,906.22	1,868.35	37.87	50.335	
12,100.00	11,979.48	11,776.29	11,522.58	19.84	22.29	-77.40	-900.62	1,001.85	1,926.24	1,887.85	38.39	50.177	
12,200.00	12,076.09	11,800.00	11,531.57	20.05	22.41	-74.79	-922.51	1,000.37	1,946.71	1,907.66	39.04	49.861	
12,300.00	12,166.83	11,850.00	11,547.51	20.32	22.70	-71.80	-969.78	997.19	1,966.52	1,926.61	39.91	49.272	
12,400.00	12,248.94	11,874.91	11,553.89	20.67	22.85	-69.61	-993.80	995.58	1,984.61	1,943.80	40.81	48.632	
12,500.00	12,319.94	11,900.00	11,559.25	21.11	23.01	-67.73	-1,018.25	993.93	2,000.30	1,958.54	41.77	47.892	
12,600.00	12,377.66	11,950.00	11,566.72	21.65	23.33	-65.93	-1,067.56	990.61	2,012.59	1,969.72	42.88	46.937	
12,700.00	12,420.35	12,000.00	11,569.85	22.29	23.68	-64.66	-1,117.33	987.26	2,021.22	1,977.20	44.03	45.909	
12,800.00	12,446.71	12,033.62	11,570.08	23.03	23.93	-64.08	-1,150.89	985.12	2,025.25	1,980.16	45.09	44.918	
12,900.04	12,455.95	12,100.00	11,570.43	23.86	24.45	-64.01	-1,217.19	982.03	2,023.99	1,977.66	46.32	43.692	
13,000.00	12,456.48	12,155.47	11,570.72	24.75	24.91	-63.99	-1,272.64	980.62	2,020.80	1,973.29	47.51	42.537	
13,100.00	12,457.00	12,216.67	11,571.04	25.69	25.44	-63.98	-1,333.84	980.31	2,019.54	1,970.78	48.76	41.414	
13,115.59	12,457.08	12,226.25	11,571.10	25.84	25.52	-63.98	-1,343.42	980.38	2,019.52	1,970.55	48.97	41.243	
13,200.00	12,457.53	12,310.61	11,571.54	26.67	26.28	-63.98	-1,427.77	981.14	2,019.52	1,969.21	50.31	40.138	
13,300.00	12,458.05	12,410.61	11,572.06	27.68	27.22	-63.98	-1,527.77	982.04	2,019.52	1,967.54	51.98	38.850	
13,400.00	12,458.58	12,510.61	11,572.59	28.73	28.20	-63.98	-1,627.76	982.95	2,019.53	1,965.81	53.71	37.597	
13,500.00	12,459.11	12,610.61	11,573.11	29.80	29.20	-63.98	-1,727.76	983.85	2,019.53	1,964.02	55.50	36.385	
13,600.00	12,459.63	12,710.61	11,573.64	30.90	30.23	-63.98	-1,827.75	984.75	2,019.53	1,962.18	57.35	35.215	
13,700.00	12,460.16	12,810.61	11,574.16	32.01	31.28	-63.98	-1,927.74	985.65	2,019.53	1,960.29	59.24	34.092	
13,800.00	12,460.69	12,910.61	11,574.69	33.15	32.35	-63.98	-2,027.74	986.55	2,019.54	1,958.36	61.17	33.014	
13,900.00	12,461.21	13,010.61	11,575.21	34.30	33.45	-63.98	-2,127.73	987.45	2,019.54	1,956.39	63.15	31.982	
14,000.00	12,461.74	13,110.61	11,575.74	35.46	34.56	-63.98	-2,227.73	988.35	2,019.54	1,954.39	65.15	30.996	
14,100.00	12,462.26	13,210.61	11,576.26	36.64	35.69	-63.98	-2,327.72	989.26	2,019.54	1,952.35	67.20	30.054	
14,200.00	12,462.79	13,310.61	11,576.79	37.84	36.83	-63.98	-2,427.72	990.16	2,019.55	1,950.28	69.27	29.156	
14,300.00	12,463.32	13,410.61	11,577.31	39.04	37.99	-63.98	-2,527.71	991.06	2,019.55	1,948.18	71.37	28.299	
14,400.00	12,463.84	13,510.61	11,577.84	40.25	39.16	-63.98	-2,627.71	991.96	2,019.55	1,946.06	73.49	27.481	
14,500.00	12,464.37	13,610.61	11,578.36	41.48	40.34	-63.98	-2,727.70	992.86	2,019.55	1,943.92	75.63	26.702	
14,600.00	12,464.90	13,710.61	11,578.88	42.71	41.54	-63.98	-2,827.70	993.76	2,019.56	1,941.75	77.80	25.958	
14,700.00	12,465.42	13,810.61	11,579.41	43.95	42.74	-63.98	-2,927.69	994.66	2,019.56	1,939.57	79.99	25.249	
14,800.00	12,465.95	13,910.61	11,579.93	45.19	43.95	-63.98	-3,027.68	995.57	2,019.56	1,937.37	82.19	24.572	
14,900.00	12,466.47	14,010.61	11,580.46	46.45	45.17	-63.98	-3,127.68	996.47	2,019.56	1,935.15	84.41	23.926	
15,000.00	12,467.00	14,110.61	11,580.98	47.71	46.40	-63.98	-3,227.67	997.37	2,019.57	1,932.92	86.64	23.309	
15,100.00	12,467.53	14,210.61	11,581.51	48.97	47.63	-63.98	-3,327.67	998.27	2,019.57	1,930.68	88.89	22.719	
15,200.00	12,468.05	14,310.61	11,582.03	50.24	48.88	-63.98	-3,427.66	999.17	2,019.57	1,928.42	91.15	22.156	
15,300.00	12,468.58	14,410.61	11,582.56	51.52	50.12	-63.98	-3,527.66	1,000.07	2,019.57	1,926.15	93.43	21.617	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
15,400.00	12,469.10	14,510.61	11,583.08	52.80	51.38	-63.98	-3,627.65	1,000.98	2,019.58	1,923.87	95.71	21.101	
15,500.00	12,469.63	14,610.61	11,583.61	54.08	52.64	-63.98	-3,727.65	1,001.88	2,019.58	1,921.57	98.00	20.607	
15,600.00	12,470.16	14,710.61	11,584.13	55.37	53.90	-63.98	-3,827.64	1,002.78	2,019.58	1,919.27	100.31	20.134	
15,700.00	12,470.68	14,810.61	11,584.66	56.66	55.17	-63.98	-3,927.64	1,003.68	2,019.58	1,916.96	102.62	19.680	
15,800.00	12,471.21	14,910.61	11,585.18	57.95	56.45	-63.98	-4,027.63	1,004.58	2,019.58	1,914.64	104.94	19.245	
15,900.00	12,471.74	15,010.61	11,585.71	59.25	57.72	-63.98	-4,127.63	1,005.48	2,019.59	1,912.32	107.27	18.827	
16,000.00	12,472.26	15,110.61	11,586.23	60.55	59.01	-63.98	-4,227.62	1,006.38	2,019.59	1,909.98	109.61	18.426	
16,100.00	12,472.79	15,210.61	11,586.76	61.86	60.29	-63.98	-4,327.61	1,007.29	2,019.59	1,907.64	111.95	18.040	
16,200.00	12,473.31	15,310.61	11,587.28	63.16	61.58	-63.98	-4,427.61	1,008.19	2,019.59	1,905.30	114.30	17.670	
16,300.00	12,473.84	15,410.61	11,587.81	64.47	62.87	-63.98	-4,527.60	1,009.09	2,019.60	1,902.94	116.65	17.313	
16,400.00	12,474.37	15,510.61	11,588.33	65.78	64.17	-63.98	-4,627.60	1,009.99	2,019.60	1,900.59	119.01	16.969	
16,500.00	12,474.89	15,610.61	11,588.86	67.10	65.46	-63.98	-4,727.59	1,010.89	2,019.60	1,898.22	121.38	16.639	
16,600.00	12,475.42	15,710.61	11,589.38	68.41	66.77	-63.98	-4,827.59	1,011.79	2,019.60	1,895.85	123.75	16.320	
16,700.00	12,475.94	15,810.61	11,589.91	69.73	68.07	-63.98	-4,927.58	1,012.70	2,019.61	1,893.48	126.13	16.012	
16,800.00	12,476.47	15,910.61	11,590.43	71.05	69.38	-63.98	-5,027.58	1,013.60	2,019.61	1,891.10	128.51	15.716	
16,900.00	12,477.00	16,010.61	11,590.96	72.37	70.68	-63.98	-5,127.57	1,014.50	2,019.61	1,888.72	130.89	15.430	
17,000.00	12,477.52	16,110.61	11,591.48	73.70	71.99	-63.98	-5,227.57	1,015.40	2,019.61	1,886.33	133.28	15.153	
17,100.00	12,478.05	16,210.61	11,592.00	75.02	73.31	-63.98	-5,327.56	1,016.30	2,019.62	1,883.94	135.67	14.886	
17,200.00	12,478.58	16,310.61	11,592.53	76.35	74.62	-63.98	-5,427.55	1,017.20	2,019.62	1,881.55	138.07	14.627	
17,300.00	12,479.10	16,410.61	11,593.05	77.68	75.94	-63.98	-5,527.55	1,018.10	2,019.62	1,879.15	140.47	14.378	
17,400.00	12,479.63	16,510.61	11,593.58	79.01	77.25	-63.98	-5,627.54	1,019.01	2,019.62	1,876.75	142.87	14.136	
17,500.00	12,480.15	16,610.61	11,594.10	80.34	78.57	-63.98	-5,727.54	1,019.91	2,019.63	1,874.35	145.28	13.902	
17,600.00	12,480.68	16,710.61	11,594.63	81.67	79.90	-63.98	-5,827.53	1,020.81	2,019.63	1,871.94	147.69	13.675	
17,700.00	12,481.21	16,810.61	11,595.15	83.00	81.22	-63.98	-5,927.53	1,021.71	2,019.63	1,869.53	150.10	13.455	
17,800.00	12,481.73	16,910.61	11,595.68	84.34	82.54	-63.98	-6,027.52	1,022.61	2,019.63	1,867.12	152.51	13.242	
17,900.00	12,482.26	17,010.61	11,596.20	85.67	83.87	-63.98	-6,127.52	1,023.51	2,019.64	1,864.71	154.93	13.036	
18,000.00	12,482.79	17,110.61	11,596.73	87.01	85.20	-63.98	-6,227.51	1,024.41	2,019.64	1,862.29	157.35	12.835	
18,100.00	12,483.31	17,210.61	11,597.25	88.35	86.52	-63.98	-6,327.51	1,025.32	2,019.64	1,859.87	159.77	12.641	
18,200.00	12,483.84	17,310.61	11,597.78	89.68	87.85	-63.98	-6,427.50	1,026.22	2,019.64	1,857.45	162.19	12.452	
18,300.00	12,484.36	17,410.61	11,598.30	91.02	89.19	-63.98	-6,527.49	1,027.12	2,019.65	1,855.03	164.62	12.268	
18,400.00	12,484.89	17,510.61	11,598.83	92.36	90.52	-63.98	-6,627.49	1,028.02	2,019.65	1,852.60	167.05	12.090	
18,500.00	12,485.42	17,610.61	11,599.35	93.70	91.85	-63.98	-6,727.48	1,028.92	2,019.65	1,850.17	169.48	11.917	
18,600.00	12,485.94	17,710.61	11,599.88	95.05	93.18	-63.98	-6,827.48	1,029.82	2,019.65	1,847.74	171.91	11.748	
18,700.00	12,486.47	17,810.61	11,600.40	96.39	94.52	-63.98	-6,927.47	1,030.73	2,019.66	1,845.31	174.34	11.584	
18,800.00	12,486.99	17,910.61	11,600.93	97.73	95.86	-63.98	-7,027.47	1,031.63	2,019.66	1,842.88	176.78	11.425	
18,900.00	12,487.52	18,010.61	11,601.45	99.07	97.19	-63.98	-7,127.46	1,032.53	2,019.66	1,840.45	179.22	11.269	
19,000.00	12,488.05	18,110.61	11,601.98	100.42	98.53	-63.98	-7,227.46	1,033.43	2,019.66	1,838.01	181.65	11.118	
19,100.00	12,488.57	18,210.61	11,602.50	101.76	99.87	-63.98	-7,327.45	1,034.33	2,019.67	1,835.57	184.09	10.971	
19,200.00	12,489.10	18,310.61	11,603.03	103.11	101.21	-63.98	-7,427.45	1,035.23	2,019.67	1,833.13	186.53	10.827	
19,300.00	12,489.63	18,410.61	11,603.55	104.46	102.55	-63.98	-7,527.44	1,036.13	2,019.67	1,830.69	188.98	10.687	
19,400.00	12,490.15	18,510.61	11,604.07	105.80	103.89	-63.98	-7,627.43	1,037.04	2,019.67	1,828.25	191.42	10.551	
19,500.00	12,490.68	18,610.61	11,604.60	107.15	105.23	-63.98	-7,727.43	1,037.94	2,019.68	1,825.81	193.87	10.418	
19,600.00	12,491.20	18,710.61	11,605.12	108.50	106.57	-63.98	-7,827.42	1,038.84	2,019.68	1,823.37	196.31	10.288	
19,700.00	12,491.73	18,810.61	11,605.65	109.85	107.92	-63.98	-7,927.42	1,039.74	2,019.68	1,820.92	198.76	10.161	
19,800.00	12,492.26	18,910.61	11,606.17	111.20	109.26	-63.98	-8,027.41	1,040.64	2,019.68	1,818.47	201.21	10.038	
19,900.00	12,492.78	19,010.61	11,606.70	112.55	110.60	-63.98	-8,127.41	1,041.54	2,019.69	1,816.03	203.66	9.917	
20,000.00	12,493.31	19,110.61	11,607.22	113.90	111.95	-63.98	-8,227.40	1,042.44	2,019.69	1,813.58	206.11	9.799	
20,100.00	12,493.84	19,210.61	11,607.75	115.25	113.29	-63.98	-8,327.40	1,043.35	2,019.69	1,811.13	208.56	9.684	
20,200.00	12,494.36	19,310.61	11,608.27	116.60	114.64	-63.98	-8,427.39	1,044.25	2,019.69	1,808.68	211.02	9.571	
20,300.00	12,494.89	19,410.61	11,608.80	117.95	115.99	-63.98	-8,527.39	1,045.15	2,019.70	1,806.23	213.47	9.461	
20,400.00	12,495.41	19,510.61	11,609.32	119.30	117.33	-63.98	-8,627.38	1,046.05	2,019.70	1,803.77	215.92	9.354	
20,500.00	12,495.94	19,610.61	11,609.85	120.65	118.68	-63.98	-8,727.37	1,046.95	2,019.70	1,801.32	218.38	9.249	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
20,600.00	12,496.47	19,710.61	11,610.37	122.01	120.03	-63.98	-8,827.37	1,047.85	2,019.70	1,798.87	220.84	9.146	
20,700.00	12,496.99	19,810.61	11,610.90	123.36	121.38	-63.98	-8,927.36	1,048.76	2,019.71	1,796.41	223.29	9.045	
20,800.00	12,497.52	19,910.61	11,611.42	124.71	122.73	-63.98	-9,027.36	1,049.66	2,019.71	1,793.96	225.75	8.947	
20,900.00	12,498.04	20,010.61	11,611.95	126.07	124.08	-63.98	-9,127.35	1,050.56	2,019.71	1,791.50	228.21	8.850	
21,000.00	12,498.57	20,110.61	11,612.47	127.42	125.43	-63.98	-9,227.35	1,051.46	2,019.71	1,789.04	230.67	8.756	
21,100.00	12,499.10	20,210.61	11,613.00	128.77	126.78	-63.98	-9,327.34	1,052.36	2,019.72	1,786.58	233.13	8.663	
21,200.00	12,499.62	20,310.61	11,613.52	130.13	128.13	-63.98	-9,427.34	1,053.26	2,019.72	1,784.13	235.59	8.573	
21,300.00	12,500.15	20,410.61	11,614.05	131.48	129.48	-63.98	-9,527.33	1,054.16	2,019.72	1,781.67	238.06	8.484	
21,400.00	12,500.68	20,510.61	11,614.57	132.84	130.83	-63.98	-9,627.33	1,055.07	2,019.72	1,779.21	240.52	8.397	
21,500.00	12,501.20	20,610.61	11,615.10	134.20	132.18	-63.98	-9,727.32	1,055.97	2,019.73	1,776.74	242.98	8.312	
21,600.00	12,501.73	20,710.61	11,615.62	135.55	133.53	-63.98	-9,827.32	1,056.87	2,019.73	1,774.28	245.45	8.229	
21,700.00	12,502.25	20,810.61	11,616.15	136.91	134.89	-63.98	-9,927.31	1,057.77	2,019.73	1,771.82	247.91	8.147	
21,800.00	12,502.78	20,910.61	11,616.67	138.26	136.24	-63.98	-10,027.30	1,058.67	2,019.73	1,769.36	250.37	8.067	
21,900.00	12,503.31	21,010.61	11,617.19	139.62	137.59	-63.98	-10,127.30	1,059.57	2,019.74	1,766.90	252.84	7.988	
22,000.00	12,503.83	21,110.61	11,617.72	140.98	138.95	-63.98	-10,227.29	1,060.47	2,019.74	1,764.43	255.31	7.911	
22,100.00	12,504.36	21,210.61	11,618.24	142.33	140.30	-63.98	-10,327.29	1,061.38	2,019.74	1,761.97	257.77	7.835	
22,200.00	12,504.89	21,310.61	11,618.77	143.69	141.65	-63.98	-10,427.28	1,062.28	2,019.74	1,759.50	260.24	7.761	
22,300.00	12,505.41	21,410.61	11,619.29	145.05	143.01	-63.98	-10,527.28	1,063.18	2,019.75	1,757.04	262.71	7.688	
22,400.00	12,505.94	21,510.61	11,619.82	146.41	144.36	-63.98	-10,627.27	1,064.08	2,019.75	1,754.57	265.18	7.617	
22,500.00	12,506.46	21,610.61	11,620.34	147.76	145.72	-63.98	-10,727.27	1,064.98	2,019.75	1,752.11	267.65	7.546	
22,600.00	12,506.99	21,710.61	11,620.87	149.12	147.07	-63.98	-10,827.26	1,065.88	2,019.75	1,749.64	270.11	7.477	
22,700.00	12,507.52	21,810.61	11,621.39	150.48	148.43	-63.98	-10,927.26	1,066.79	2,019.76	1,747.17	272.58	7.410	
22,800.00	12,508.04	21,910.61	11,621.92	151.84	149.78	-63.98	-11,027.25	1,067.69	2,019.76	1,744.70	275.05	7.343	
22,830.04	12,508.20	21,940.65	11,622.08	152.25	150.19	-63.98	-11,057.29	1,067.96	2,019.76	1,743.96	275.80	7.323	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 211H - OH - Plan 1

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
4,300.00	4,208.30	3,785.95	3,720.93	13.18	11.28	21.82	-801.45	-2,974.44	2,432.39	2,410.65	21.73	111.912	
4,400.00	4,304.90	3,883.43	3,815.72	13.53	11.58	22.32	-792.64	-2,995.43	2,428.37	2,406.14	22.23	109.217	
4,500.00	4,401.49	3,980.92	3,910.51	13.88	11.88	22.83	-783.83	-3,016.41	2,424.56	2,401.82	22.74	106.641	
4,600.00	4,498.08	4,078.40	4,005.30	14.23	12.18	23.33	-775.02	-3,037.40	2,420.94	2,397.70	23.24	104.179	
4,700.00	4,594.67	4,175.89	4,100.09	14.58	12.49	23.84	-766.20	-3,058.39	2,417.52	2,393.78	23.74	101.822	
4,800.00	4,691.26	4,273.37	4,194.88	14.93	12.79	24.35	-757.39	-3,079.37	2,414.30	2,390.06	24.25	99.576	
4,900.00	4,788.20	4,371.01	4,289.82	15.26	13.09	24.84	-748.56	-3,100.39	2,412.53	2,387.77	24.76	97.434	
4,919.37	4,807.04	4,389.95	4,308.23	15.32	13.15	24.94	-746.85	-3,104.47	2,412.48	2,387.62	24.86	97.049	CC, ES
5,000.00	4,885.74	4,468.88	4,384.99	15.57	13.40	25.32	-739.71	-3,121.46	2,413.31	2,388.04	25.26	95.520	
5,100.00	4,983.82	4,566.94	4,480.33	15.85	13.70	25.79	-730.85	-3,142.57	2,416.62	2,390.86	25.76	93.822	
5,200.00	5,082.39	4,665.10	4,575.78	16.10	14.01	26.26	-721.98	-3,163.71	2,422.43	2,396.19	26.24	92.329	
5,300.00	5,181.35	4,763.30	4,671.27	16.32	14.32	26.71	-713.10	-3,184.85	2,430.70	2,404.00	26.70	91.031	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 212H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 232-MWD+HRGM+SAG+FDIR (rev.5), 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
1,900.00	1,889.64	1,888.64	1,889.64	5.71	5.42	15.93	-856.00	-2,404.00	2,430.16	2,419.12	11.04	220.218	
2,000.00	1,986.68	1,985.68	1,986.68	5.94	5.57	14.29	-856.00	-2,404.00	2,406.78	2,395.36	11.42	210.703	
2,100.00	2,083.28	2,082.28	2,083.28	6.11	5.72	14.11	-856.00	-2,404.00	2,381.68	2,369.94	11.74	202.913	
2,200.00	2,179.88	2,178.88	2,179.88	6.34	5.86	14.26	-856.00	-2,404.00	2,356.53	2,344.44	12.09	194.865	
2,300.00	2,276.47	2,355.68	2,356.64	6.61	6.17	14.59	-853.59	-2,401.94	2,330.10	2,317.53	12.58	185.270	
2,400.00	2,373.06	2,549.51	2,550.02	6.90	6.50	15.11	-843.85	-2,393.63	2,299.65	2,286.59	13.06	176.063	
2,500.00	2,469.65	2,736.61	2,735.85	7.20	6.79	15.77	-827.38	-2,379.57	2,265.31	2,251.82	13.48	168.026	
2,600.00	2,566.24	2,827.14	2,825.50	7.50	6.89	16.13	-817.80	-2,371.40	2,229.21	2,215.41	13.80	161.547	
2,700.00	2,662.84	2,919.38	2,916.84	7.82	7.03	16.52	-808.03	-2,363.07	2,193.20	2,179.05	14.15	155.005	
2,800.00	2,759.43	3,011.61	3,008.17	8.13	7.17	16.91	-798.27	-2,354.74	2,157.29	2,142.78	14.50	148.734	
2,900.00	2,856.02	3,103.85	3,099.51	8.45	7.31	17.32	-788.51	-2,346.41	2,121.46	2,106.60	14.86	142.726	
3,000.00	2,952.61	3,196.08	3,190.85	8.78	7.45	17.75	-778.75	-2,338.08	2,085.74	2,070.51	15.23	136.970	
3,100.00	3,049.20	3,288.32	3,282.19	9.10	7.59	18.18	-768.99	-2,329.74	2,050.13	2,034.53	15.60	131.453	
3,200.00	3,145.79	3,380.55	3,373.53	9.43	7.74	18.64	-759.22	-2,321.41	2,014.62	1,998.65	15.97	126.163	
3,300.00	3,242.39	3,472.79	3,464.87	9.77	7.89	19.11	-749.46	-2,313.08	1,979.23	1,962.89	16.35	121.091	
3,400.00	3,338.98	3,565.03	3,556.20	10.10	8.03	19.59	-739.70	-2,304.75	1,943.97	1,927.24	16.73	116.226	
3,500.00	3,435.57	3,657.26	3,647.54	10.44	8.18	20.10	-729.94	-2,296.42	1,908.84	1,891.73	17.11	111.557	
3,600.00	3,532.16	3,749.50	3,738.88	10.78	8.33	20.62	-720.18	-2,288.09	1,873.84	1,856.34	17.50	107.076	
3,700.00	3,628.75	3,841.73	3,830.22	11.12	8.49	21.16	-710.41	-2,279.76	1,838.99	1,821.10	17.89	102.773	
3,800.00	3,725.34	3,933.97	3,921.56	11.46	8.64	21.72	-700.65	-2,271.43	1,804.30	1,786.01	18.29	98.639	
3,900.00	3,821.94	4,026.20	4,012.90	11.80	8.79	22.30	-690.89	-2,263.10	1,769.77	1,751.07	18.69	94.668	
4,000.00	3,918.53	4,118.44	4,104.23	12.14	8.95	22.90	-681.13	-2,254.77	1,735.41	1,716.30	19.10	90.851	
4,100.00	4,015.12	4,210.67	4,195.57	12.49	9.10	23.53	-671.37	-2,246.44	1,701.23	1,681.72	19.51	87.181	
4,200.00	4,111.71	4,302.91	4,286.91	12.83	9.26	24.18	-661.61	-2,238.11	1,667.25	1,647.32	19.93	83.651	
4,300.00	4,208.30	4,395.14	4,378.25	13.18	9.42	24.86	-651.84	-2,229.78	1,633.47	1,613.12	20.35	80.256	
4,400.00	4,304.90	4,487.38	4,469.59	13.53	9.58	25.57	-642.08	-2,221.45	1,599.92	1,579.14	20.78	76.989	
4,500.00	4,401.49	4,579.61	4,560.93	13.88	9.74	26.30	-632.32	-2,213.12	1,566.60	1,545.39	21.21	73.845	
4,600.00	4,498.08	4,671.85	4,652.26	14.23	9.90	27.07	-622.56	-2,204.79	1,533.53	1,511.88	21.65	70.818	
4,700.00	4,594.67	4,764.09	4,743.60	14.58	10.06	27.86	-612.80	-2,196.46	1,500.73	1,478.62	22.10	67.905	
4,800.00	4,691.26	4,848.28	4,827.00	14.93	10.20	28.61	-603.97	-2,188.93	1,468.31	1,445.78	22.53	65.165	
4,900.00	4,788.20	4,922.05	4,900.21	15.26	10.32	29.01	-597.14	-2,183.09	1,438.34	1,415.36	22.98	62.593	
5,000.00	4,885.74	5,000.00	4,977.75	15.57	10.47	29.40	-591.08	-2,177.93	1,412.09	1,388.66	23.42	60.287	
5,100.00	4,983.82	5,074.53	5,052.03	15.85	10.60	29.71	-586.42	-2,173.95	1,389.54	1,365.69	23.84	58.278	
5,200.00	5,082.39	5,152.84	5,130.19	16.10	10.74	30.00	-582.71	-2,170.78	1,370.69	1,346.45	24.24	56.542	
5,300.00	5,181.35	5,232.25	5,209.53	16.32	10.87	30.23	-580.19	-2,168.63	1,355.53	1,330.91	24.61	55.071	
5,400.00	5,280.66	5,312.52	5,289.78	16.52	10.99	30.40	-578.92	-2,167.55	1,344.03	1,319.08	24.95	53.868	
5,500.00	5,380.25	5,402.99	5,380.25	16.68	11.05	30.52	-578.77	-2,167.42	1,336.02	1,310.81	25.21	52.995	
5,600.00	5,480.03	5,502.78	5,480.03	16.82	11.15	30.62	-578.77	-2,167.42	1,330.43	1,304.95	25.48	52.211	
5,700.00	5,579.96	5,602.70	5,579.96	16.93	11.24	30.68	-578.77	-2,167.42	1,327.09	1,301.36	25.73	51.575	
5,800.00	5,679.94	5,702.69	5,679.94	16.99	11.34	-90.40	-578.77	-2,167.42	1,326.01	1,300.11	25.91	51.185	
5,900.00	5,779.94	5,802.69	5,779.94	17.03	11.43	-90.40	-578.77	-2,167.42	1,326.01	1,299.98	26.04	50.932	
6,000.00	5,879.94	5,902.69	5,879.94	17.07	11.52	-90.40	-578.77	-2,167.42	1,326.01	1,299.85	26.16	50.681	
6,100.00	5,979.94	6,002.69	5,979.94	17.10	11.62	-90.40	-578.77	-2,167.42	1,326.01	1,299.72	26.29	50.432	
6,200.00	6,079.94	6,102.69	6,079.94	17.14	11.71	-90.40	-578.77	-2,167.42	1,326.01	1,299.59	26.42	50.185	
6,300.00	6,179.94	6,202.69	6,179.94	17.17	11.80	-90.40	-578.77	-2,167.42	1,326.01	1,299.46	26.55	49.940	
6,400.00	6,279.94	6,302.69	6,279.94	17.21	11.90	-90.40	-578.77	-2,167.42	1,326.01	1,299.33	26.68	49.697	
6,500.00	6,379.94	6,402.69	6,379.94	17.25	11.99	-90.40	-578.77	-2,167.42	1,326.01	1,299.20	26.81	49.457	
6,600.00	6,479.94	6,502.69	6,479.94	17.29	12.08	-90.40	-578.77	-2,167.42	1,326.01	1,299.07	26.94	49.218	
6,700.00	6,579.94	6,602.69	6,579.94	17.32	12.17	-90.40	-578.77	-2,167.42	1,326.01	1,298.94	27.07	48.981	
6,800.00	6,679.94	6,702.69	6,679.94	17.36	12.27	-90.40	-578.77	-2,167.42	1,326.01	1,298.81	27.20	48.746	
6,900.00	6,779.94	6,802.69	6,779.94	17.40	12.36	-90.40	-578.77	-2,167.42	1,326.01	1,298.68	27.33	48.513	
7,000.00	6,879.94	6,902.69	6,879.94	17.44	12.45	-90.40	-578.77	-2,167.42	1,326.01	1,298.55	27.46	48.282	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 212H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 232-MWD+HRGM+SAG+FDIR (rev.5), 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
7,100.00	6,979.94	7,002.69	6,979.94	17.48	12.54	-90.40	-578.77	-2,167.42	1,326.01	1,298.42	27.59	48.053	
7,200.00	7,079.94	7,102.69	7,079.94	17.52	12.63	-90.40	-578.77	-2,167.42	1,326.01	1,298.29	27.73	47.825	
7,300.00	7,179.94	7,202.69	7,179.94	17.56	12.72	-90.40	-578.77	-2,167.42	1,326.01	1,298.15	27.86	47.600	
7,400.00	7,279.94	7,302.69	7,279.94	17.60	12.82	-90.40	-578.77	-2,167.42	1,326.01	1,298.02	27.99	47.376	
7,500.00	7,379.94	7,402.69	7,379.94	17.64	12.91	-90.40	-578.77	-2,167.42	1,326.01	1,297.89	28.12	47.154	
7,600.00	7,479.94	7,502.69	7,479.94	17.68	13.00	-90.40	-578.77	-2,167.42	1,326.01	1,297.76	28.25	46.934	
7,700.00	7,579.94	7,602.69	7,579.94	17.72	13.09	-90.40	-578.77	-2,167.42	1,326.01	1,297.63	28.38	46.715	
7,800.00	7,679.94	7,702.69	7,679.94	17.76	13.18	-90.40	-578.77	-2,167.42	1,326.01	1,297.49	28.52	46.498	
7,900.00	7,779.94	7,802.69	7,779.94	17.80	13.27	-90.40	-578.77	-2,167.42	1,326.01	1,297.36	28.65	46.283	
8,000.00	7,879.94	7,902.69	7,879.94	17.84	13.36	-90.40	-578.77	-2,167.42	1,326.01	1,297.23	28.78	46.070	
8,100.00	7,979.94	8,002.69	7,979.94	17.88	13.45	-90.40	-578.77	-2,167.42	1,326.01	1,297.10	28.92	45.858	
8,200.00	8,079.94	8,102.69	8,079.94	17.93	13.54	-90.40	-578.77	-2,167.42	1,326.01	1,296.96	29.05	45.648	
8,300.00	8,179.94	8,202.69	8,179.94	17.97	13.63	-90.40	-578.77	-2,167.42	1,326.01	1,296.83	29.18	45.439	
8,400.00	8,279.94	8,302.69	8,279.94	18.01	13.72	-90.40	-578.77	-2,167.42	1,326.01	1,296.70	29.32	45.233	
8,500.00	8,379.94	8,402.69	8,379.94	18.05	13.81	-90.40	-578.77	-2,167.42	1,326.01	1,296.56	29.45	45.027	
8,600.00	8,479.94	8,502.69	8,479.94	18.10	13.90	-90.40	-578.77	-2,167.42	1,326.01	1,296.43	29.58	44.823	
8,700.00	8,579.94	8,602.69	8,579.94	18.14	13.99	-90.40	-578.77	-2,167.42	1,326.01	1,296.29	29.72	44.621	
8,800.00	8,679.94	8,702.69	8,679.94	18.18	14.08	-90.40	-578.77	-2,167.42	1,326.01	1,296.16	29.85	44.420	
8,900.00	8,779.94	8,802.69	8,779.94	18.23	14.17	-90.40	-578.77	-2,167.42	1,326.01	1,296.03	29.99	44.221	
9,000.00	8,879.94	8,902.69	8,879.94	18.27	14.26	-90.40	-578.77	-2,167.42	1,326.01	1,295.89	30.12	44.024	
9,100.00	8,979.94	9,002.69	8,979.94	18.32	14.35	-90.40	-578.77	-2,167.42	1,326.01	1,295.76	30.26	43.827	
9,200.00	9,079.94	9,102.69	9,079.94	18.36	14.44	-90.40	-578.77	-2,167.42	1,326.01	1,295.62	30.39	43.633	
9,300.00	9,179.94	9,202.69	9,179.94	18.41	14.53	-90.40	-578.77	-2,167.42	1,326.01	1,295.49	30.53	43.439	
9,400.00	9,279.94	9,302.69	9,279.94	18.45	14.62	-90.40	-578.77	-2,167.42	1,326.01	1,295.35	30.66	43.248	
9,500.00	9,379.94	9,402.69	9,379.94	18.50	14.71	-90.40	-578.77	-2,167.42	1,326.01	1,295.22	30.80	43.057	
9,600.00	9,479.94	9,502.69	9,479.94	18.54	14.80	-90.40	-578.77	-2,167.42	1,326.01	1,295.08	30.93	42.868	
9,700.00	9,579.94	9,602.69	9,579.94	18.59	14.89	-90.40	-578.77	-2,167.42	1,326.01	1,294.94	31.07	42.680	
9,800.00	9,679.94	9,702.69	9,679.94	18.64	14.98	-90.40	-578.77	-2,167.42	1,326.01	1,294.81	31.20	42.494	
9,900.00	9,779.94	9,802.69	9,779.94	18.68	15.07	-90.40	-578.77	-2,167.42	1,326.01	1,294.67	31.34	42.309	
10,000.00	9,879.94	9,902.69	9,879.94	18.73	15.15	-90.40	-578.77	-2,167.42	1,326.01	1,294.53	31.48	42.126	
10,100.00	9,979.94	10,002.69	9,979.94	18.78	15.24	-90.40	-578.77	-2,167.42	1,326.01	1,294.40	31.61	41.944	
10,200.00	10,079.94	10,102.69	10,079.94	18.82	15.33	-90.40	-578.77	-2,167.42	1,326.01	1,294.26	31.75	41.763	
10,300.00	10,179.94	10,202.69	10,179.94	18.87	15.42	-90.40	-578.77	-2,167.42	1,326.01	1,294.12	31.89	41.583	
10,400.00	10,279.94	10,302.69	10,279.94	18.92	15.51	-90.40	-578.77	-2,167.42	1,326.01	1,293.99	32.03	41.405	
10,500.00	10,379.94	10,402.69	10,379.94	18.97	15.60	-90.40	-578.77	-2,167.42	1,326.01	1,293.85	32.16	41.228	
10,600.00	10,479.94	10,502.69	10,479.94	19.02	15.69	-90.40	-578.77	-2,167.42	1,326.01	1,293.71	32.30	41.053	
10,700.00	10,579.94	10,602.69	10,579.94	19.07	15.77	-90.40	-578.77	-2,167.42	1,326.01	1,293.57	32.44	40.878	
10,800.00	10,679.94	10,702.69	10,679.94	19.11	15.86	-90.40	-578.77	-2,167.42	1,326.01	1,293.44	32.58	40.705	
10,900.00	10,779.94	10,802.69	10,779.94	19.16	15.95	-90.40	-578.77	-2,167.42	1,326.01	1,293.30	32.71	40.533	
11,000.00	10,879.94	10,902.69	10,879.94	19.21	16.04	-90.40	-578.77	-2,167.42	1,326.01	1,293.16	32.85	40.363	
11,100.00	10,979.94	11,002.69	10,979.94	19.26	16.13	-90.40	-578.77	-2,167.42	1,326.01	1,293.02	32.99	40.193	
11,200.00	11,079.94	11,102.69	11,079.94	19.31	16.21	-90.40	-578.77	-2,167.42	1,326.01	1,292.88	33.13	40.025	
11,300.00	11,179.94	11,202.69	11,179.94	19.36	16.30	-90.40	-578.77	-2,167.42	1,326.01	1,292.74	33.27	39.858	
11,400.00	11,279.94	11,302.69	11,279.94	19.41	16.39	-90.40	-578.77	-2,167.42	1,326.01	1,292.60	33.41	39.692	
11,500.00	11,379.94	11,402.69	11,379.94	19.46	16.48	-90.40	-578.77	-2,167.42	1,326.01	1,292.47	33.55	39.528	
11,600.00	11,479.94	11,502.69	11,479.94	19.51	16.57	-90.40	-578.77	-2,167.42	1,326.01	1,292.33	33.69	39.364	
11,700.00	11,579.94	11,602.69	11,579.94	19.56	16.65	-90.40	-578.77	-2,167.42	1,326.01	1,292.19	33.83	39.202	
11,800.00	11,679.94	11,702.69	11,679.94	19.61	16.74	-90.40	-578.77	-2,167.42	1,326.01	1,292.05	33.96	39.041	
11,900.00	11,779.94	11,802.69	11,779.94	19.67	16.83	-90.40	-578.77	-2,167.42	1,326.01	1,291.90	34.11	38.877	
11,953.60	11,833.55	11,856.36	11,833.55	19.69	16.87	-90.49	-581.04	-2,167.40	1,326.01	1,291.88	34.13	38.848	CC
12,000.00	11,879.94	11,902.14	11,878.94	19.72	16.89	-90.75	-586.92	-2,167.35	1,326.02	1,291.90	34.12	38.864	
12,100.00	11,979.48	11,998.25	11,971.88	19.84	16.94	89.04	-610.93	-2,167.14	1,326.21	1,292.16	34.05	38.946	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 212H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 232-MWD+HRGM+SAG+FDIR (rev.5), 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
12,200.00	12,076.09	12,091.85	12,057.32	20.05	16.99	88.35	-648.91	-2,166.82	1,326.60	1,292.55	34.05	38.959	
12,300.00	12,166.83	12,183.29	12,133.73	20.32	17.03	87.71	-698.95	-2,166.39	1,327.14	1,292.98	34.16	38.854	
12,400.00	12,248.94	12,272.91	12,199.98	20.67	17.08	87.14	-759.17	-2,165.87	1,327.76	1,293.36	34.41	38.590	
12,500.00	12,319.94	12,361.04	12,255.19	21.11	17.13	86.64	-827.75	-2,165.28	1,328.41	1,293.58	34.83	38.137	
12,600.00	12,377.66	12,450.00	12,299.61	21.65	17.19	86.24	-904.72	-2,164.61	1,329.01	1,293.56	35.45	37.489	
12,700.00	12,420.35	12,534.06	12,330.16	22.29	17.26	85.94	-982.95	-2,163.94	1,329.51	1,293.22	36.29	36.634	
12,800.00	12,446.71	12,619.53	12,349.16	23.03	17.36	85.75	-1,066.20	-2,163.22	1,329.86	1,292.54	37.32	35.638	
12,900.04	12,455.95	12,705.14	12,355.58	23.86	17.50	85.67	-1,151.48	-2,162.49	1,330.02	1,291.52	38.50	34.549	
13,000.00	12,456.48	12,805.10	12,356.11	24.75	17.73	85.67	-1,251.44	-2,161.63	1,330.06	1,290.22	39.84	33.383	
13,100.00	12,457.00	12,905.10	12,356.63	25.69	18.06	85.67	-1,351.43	-2,160.77	1,330.10	1,288.77	41.33	32.185	
13,200.00	12,457.53	13,005.10	12,357.15	26.67	18.51	85.67	-1,451.43	-2,159.91	1,330.14	1,287.20	42.94	30.979	
13,300.00	12,458.05	13,105.10	12,357.68	27.68	19.07	85.67	-1,551.42	-2,159.05	1,330.18	1,285.51	44.66	29.784	
13,400.00	12,458.58	13,205.10	12,358.20	28.73	19.73	85.67	-1,651.42	-2,158.18	1,330.21	1,283.73	46.49	28.615	
13,500.00	12,459.11	13,305.10	12,358.73	29.80	20.48	85.67	-1,751.41	-2,157.32	1,330.25	1,281.85	48.40	27.484	
13,600.00	12,459.63	13,405.10	12,359.25	30.90	21.30	85.67	-1,851.41	-2,156.46	1,330.29	1,279.89	50.40	26.396	
13,700.00	12,460.16	13,505.10	12,359.77	32.01	22.18	85.67	-1,951.40	-2,155.60	1,330.33	1,277.87	52.46	25.358	
13,800.00	12,460.69	13,605.10	12,360.30	33.15	23.12	85.67	-2,051.40	-2,154.74	1,330.37	1,275.78	54.59	24.370	
13,900.00	12,461.21	13,705.10	12,360.82	34.30	24.10	85.67	-2,151.39	-2,153.88	1,330.41	1,273.63	56.77	23.434	
14,000.00	12,461.74	13,805.10	12,361.34	35.46	25.12	85.67	-2,251.39	-2,153.02	1,330.44	1,271.44	59.01	22.548	
14,100.00	12,462.26	13,905.10	12,361.87	36.64	26.17	85.67	-2,351.38	-2,152.16	1,330.48	1,269.20	61.28	21.712	
14,200.00	12,462.79	14,005.10	12,362.39	37.84	27.25	85.67	-2,451.38	-2,151.30	1,330.52	1,266.93	63.59	20.923	
14,300.00	12,463.32	14,105.10	12,362.91	39.04	28.36	85.67	-2,551.37	-2,150.44	1,330.56	1,264.62	65.94	20.179	
14,400.00	12,463.84	14,205.10	12,363.44	40.25	29.49	85.67	-2,651.37	-2,149.57	1,330.60	1,262.28	68.32	19.477	
14,500.00	12,464.37	14,305.10	12,363.96	41.48	30.64	85.67	-2,751.36	-2,148.71	1,330.64	1,259.92	70.72	18.816	
14,600.00	12,464.90	14,405.10	12,364.48	42.71	31.80	85.67	-2,851.36	-2,147.85	1,330.68	1,257.53	73.15	18.191	
14,700.00	12,465.42	14,505.10	12,365.01	43.95	32.99	85.67	-2,951.35	-2,146.99	1,330.71	1,255.12	75.60	17.602	
14,800.00	12,465.95	14,605.10	12,365.53	45.19	34.19	85.67	-3,051.35	-2,146.13	1,330.75	1,252.69	78.07	17.046	
14,900.00	12,466.47	14,705.10	12,366.05	46.45	35.40	85.67	-3,151.34	-2,145.27	1,330.79	1,250.24	80.56	16.520	
15,000.00	12,467.00	14,805.10	12,366.58	47.71	36.62	85.67	-3,251.34	-2,144.41	1,330.83	1,247.77	83.06	16.023	
15,100.00	12,467.53	14,905.10	12,367.10	48.97	37.85	85.67	-3,351.33	-2,143.55	1,330.87	1,245.29	85.58	15.552	
15,200.00	12,468.05	15,005.10	12,367.62	50.24	39.09	85.67	-3,451.33	-2,142.69	1,330.91	1,242.80	88.11	15.105	
15,300.00	12,468.58	15,105.10	12,368.15	51.52	40.34	85.67	-3,551.32	-2,141.83	1,330.95	1,240.29	90.65	14.682	
15,400.00	12,469.10	15,205.10	12,368.67	52.80	41.60	85.67	-3,651.32	-2,140.96	1,330.98	1,237.78	93.21	14.280	
15,500.00	12,469.63	15,305.10	12,369.19	54.08	42.86	85.67	-3,751.31	-2,140.10	1,331.02	1,235.25	95.77	13.898	
15,600.00	12,470.16	15,405.10	12,369.72	55.37	44.13	85.67	-3,851.31	-2,139.24	1,331.06	1,232.72	98.34	13.535	
15,700.00	12,470.68	15,505.10	12,370.24	56.66	45.41	85.67	-3,951.30	-2,138.38	1,331.10	1,230.17	100.93	13.189	
15,800.00	12,471.21	15,605.10	12,370.77	57.95	46.69	85.67	-4,051.30	-2,137.52	1,331.14	1,227.62	103.52	12.859	
15,900.00	12,471.74	15,705.10	12,371.29	59.25	47.98	85.67	-4,151.29	-2,136.66	1,331.18	1,225.06	106.12	12.545	
16,000.00	12,472.26	15,805.10	12,371.81	60.55	49.27	85.67	-4,251.29	-2,135.80	1,331.22	1,222.50	108.72	12.244	
16,100.00	12,472.79	15,905.10	12,372.34	61.86	50.57	85.67	-4,351.28	-2,134.94	1,331.25	1,219.92	111.33	11.958	
16,200.00	12,473.31	16,005.10	12,372.86	63.16	51.87	85.67	-4,451.28	-2,134.08	1,331.29	1,217.35	113.95	11.683	
16,300.00	12,473.84	16,105.10	12,373.38	64.47	53.17	85.67	-4,551.27	-2,133.22	1,331.33	1,214.76	116.57	11.421	
16,400.00	12,474.37	16,205.10	12,373.91	65.78	54.47	85.67	-4,651.27	-2,132.35	1,331.37	1,212.17	119.20	11.170	
16,500.00	12,474.89	16,305.10	12,374.43	67.10	55.78	85.67	-4,751.26	-2,131.49	1,331.41	1,209.58	121.83	10.929	
16,600.00	12,475.42	16,405.10	12,374.95	68.41	57.10	85.67	-4,851.26	-2,130.63	1,331.45	1,206.98	124.46	10.697	
16,700.00	12,475.94	16,505.10	12,375.48	69.73	58.41	85.67	-4,951.25	-2,129.77	1,331.49	1,204.38	127.10	10.476	
16,800.00	12,476.47	16,605.10	12,376.00	71.05	59.73	85.67	-5,051.25	-2,128.91	1,331.52	1,201.78	129.75	10.262	
16,900.00	12,477.00	16,705.10	12,376.52	72.37	61.05	85.67	-5,151.24	-2,128.05	1,331.56	1,199.17	132.40	10.057	
17,000.00	12,477.52	16,805.10	12,377.05	73.70	62.37	85.67	-5,251.24	-2,127.19	1,331.60	1,196.55	135.05	9.860	
17,100.00	12,478.05	16,905.10	12,377.57	75.02	63.69	85.67	-5,351.23	-2,126.33	1,331.64	1,193.94	137.70	9.670	
17,200.00	12,478.58	17,005.10	12,378.09	76.35	65.02	85.67	-5,451.23	-2,125.47	1,331.68	1,191.32	140.36	9.488	
17,300.00	12,479.10	17,105.10	12,378.62	77.68	66.35	85.67	-5,551.22	-2,124.61	1,331.72	1,188.70	143.02	9.311	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 212H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 232-MWD+HRGM+SAG+FDIR (rev.5), 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
17,400.00	12,479.63	17,205.10	12,379.14	79.01	67.67	85.67	-5,651.22	-2,123.74	1,331.75	1,186.07	145.68	9.141	
17,500.00	12,480.15	17,305.10	12,379.66	80.34	69.01	85.67	-5,751.21	-2,122.88	1,331.79	1,183.44	148.35	8.977	
17,600.00	12,480.68	17,405.10	12,380.19	81.67	70.34	85.67	-5,851.20	-2,122.02	1,331.83	1,180.81	151.02	8.819	
17,700.00	12,481.21	17,505.10	12,380.71	83.00	71.67	85.67	-5,951.20	-2,121.16	1,331.87	1,178.18	153.69	8.666	
17,800.00	12,481.73	17,605.10	12,381.23	84.34	73.01	85.67	-6,051.19	-2,120.30	1,331.91	1,175.55	156.36	8.518	
17,900.00	12,482.26	17,705.10	12,381.76	85.67	74.34	85.67	-6,151.19	-2,119.44	1,331.95	1,172.91	159.03	8.375	
18,000.00	12,482.79	17,805.10	12,382.28	87.01	75.68	85.67	-6,251.18	-2,118.58	1,331.99	1,170.28	161.71	8.237	
18,100.00	12,483.31	17,905.10	12,382.81	88.35	77.02	85.67	-6,351.18	-2,117.72	1,332.02	1,167.64	164.39	8.103	
18,200.00	12,483.84	18,005.10	12,383.33	89.68	78.36	85.67	-6,451.17	-2,116.86	1,332.06	1,164.99	167.07	7.973	
18,300.00	12,484.36	18,105.10	12,383.85	91.02	79.70	85.67	-6,551.17	-2,116.00	1,332.10	1,162.35	169.75	7.847	
18,400.00	12,484.89	18,205.10	12,384.38	92.36	81.04	85.67	-6,651.16	-2,115.13	1,332.14	1,159.71	172.43	7.725	
18,500.00	12,485.42	18,305.10	12,384.90	93.70	82.38	85.67	-6,751.16	-2,114.27	1,332.18	1,157.06	175.12	7.607	
18,600.00	12,485.94	18,405.10	12,385.42	95.05	83.73	85.67	-6,851.15	-2,113.41	1,332.22	1,154.41	177.81	7.493	
18,700.00	12,486.47	18,505.10	12,385.95	96.39	85.07	85.67	-6,951.15	-2,112.55	1,332.26	1,151.76	180.49	7.381	
18,800.00	12,486.99	18,605.10	12,386.47	97.73	86.42	85.67	-7,051.14	-2,111.69	1,332.29	1,149.11	183.18	7.273	
18,900.00	12,487.52	18,705.10	12,386.99	99.07	87.76	85.67	-7,151.14	-2,110.83	1,332.33	1,146.46	185.87	7.168	
19,000.00	12,488.05	18,805.10	12,387.52	100.42	89.11	85.67	-7,251.13	-2,109.97	1,332.37	1,143.81	188.56	7.066	
19,100.00	12,488.57	18,905.10	12,388.04	101.76	90.46	85.67	-7,351.13	-2,109.11	1,332.41	1,141.15	191.26	6.967	
19,200.00	12,489.10	19,005.10	12,388.56	103.11	91.80	85.67	-7,451.12	-2,108.25	1,332.45	1,138.50	193.95	6.870	
19,300.00	12,489.63	19,105.10	12,389.09	104.46	93.15	85.67	-7,551.12	-2,107.39	1,332.49	1,135.84	196.65	6.776	
19,400.00	12,490.15	19,205.10	12,389.61	105.80	94.50	85.67	-7,651.11	-2,106.52	1,332.53	1,133.18	199.34	6.685	
19,500.00	12,490.68	19,305.10	12,390.13	107.15	95.85	85.67	-7,751.11	-2,105.66	1,332.56	1,130.53	202.04	6.596	
19,600.00	12,491.20	19,405.10	12,390.66	108.50	97.20	85.67	-7,851.10	-2,104.80	1,332.60	1,127.87	204.74	6.509	
19,700.00	12,491.73	19,505.10	12,391.18	109.85	98.55	85.67	-7,951.10	-2,103.94	1,332.64	1,125.21	207.44	6.424	
19,800.00	12,492.26	19,605.10	12,391.70	111.20	99.90	85.67	-8,051.09	-2,103.08	1,332.68	1,122.54	210.14	6.342	
19,900.00	12,492.78	19,705.10	12,392.23	112.55	101.26	85.67	-8,151.09	-2,102.22	1,332.72	1,119.88	212.84	6.262	
20,000.00	12,493.31	19,805.10	12,392.75	113.90	102.61	85.67	-8,251.08	-2,101.36	1,332.76	1,117.22	215.54	6.183	
20,100.00	12,493.84	19,905.10	12,393.27	115.25	103.96	85.67	-8,351.08	-2,100.50	1,332.80	1,114.56	218.24	6.107	
20,200.00	12,494.36	20,005.10	12,393.80	116.60	105.31	85.67	-8,451.07	-2,099.64	1,332.83	1,111.89	220.94	6.033	
20,300.00	12,494.89	20,105.10	12,394.32	117.95	106.67	85.67	-8,551.07	-2,098.78	1,332.87	1,109.23	223.65	5.960	
20,400.00	12,495.41	20,205.10	12,394.84	119.30	108.02	85.67	-8,651.06	-2,097.91	1,332.91	1,106.56	226.35	5.889	
20,500.00	12,495.94	20,305.10	12,395.37	120.65	109.38	85.67	-8,751.06	-2,097.05	1,332.95	1,103.90	229.05	5.819	
20,600.00	12,496.47	20,405.10	12,395.89	122.01	110.73	85.67	-8,851.05	-2,096.19	1,332.99	1,101.23	231.76	5.752	
20,700.00	12,496.99	20,505.10	12,396.42	123.36	112.09	85.67	-8,951.05	-2,095.33	1,333.03	1,098.56	234.47	5.685	
20,800.00	12,497.52	20,605.10	12,396.94	124.71	113.44	85.67	-9,051.04	-2,094.47	1,333.07	1,095.89	237.17	5.621	
20,900.00	12,498.04	20,705.10	12,397.46	126.07	114.80	85.67	-9,151.04	-2,093.61	1,333.10	1,093.22	239.88	5.557	
21,000.00	12,498.57	20,805.10	12,397.99	127.42	116.15	85.67	-9,251.03	-2,092.75	1,333.14	1,090.55	242.59	5.496	
21,100.00	12,499.10	20,905.10	12,398.51	128.77	117.51	85.67	-9,351.03	-2,091.89	1,333.18	1,087.88	245.30	5.435	
21,200.00	12,499.62	21,005.10	12,399.03	130.13	118.87	85.67	-9,451.02	-2,091.03	1,333.22	1,085.21	248.01	5.376	
21,300.00	12,500.15	21,105.10	12,399.56	131.48	120.22	85.67	-9,551.02	-2,090.17	1,333.26	1,082.54	250.71	5.318	
21,400.00	12,500.68	21,205.10	12,400.08	132.84	121.58	85.67	-9,651.01	-2,089.30	1,333.30	1,079.87	253.42	5.261	
21,500.00	12,501.20	21,305.10	12,400.60	134.20	122.94	85.67	-9,751.01	-2,088.44	1,333.33	1,077.20	256.13	5.206	
21,600.00	12,501.73	21,405.10	12,401.13	135.55	124.30	85.67	-9,851.00	-2,087.58	1,333.37	1,074.53	258.85	5.151	
21,700.00	12,502.25	21,505.10	12,401.65	136.91	125.65	85.67	-9,951.00	-2,086.72	1,333.41	1,071.85	261.56	5.098	
21,800.00	12,502.78	21,605.10	12,402.17	138.26	127.01	85.67	-10,050.99	-2,085.86	1,333.45	1,069.18	264.27	5.046	
21,900.00	12,503.31	21,705.10	12,402.70	139.62	128.37	85.67	-10,150.99	-2,085.00	1,333.49	1,066.51	266.98	4.995	
22,000.00	12,503.83	21,805.10	12,403.22	140.98	129.73	85.67	-10,250.98	-2,084.14	1,333.53	1,063.83	269.69	4.945	
22,100.00	12,504.36	21,905.10	12,403.74	142.33	131.09	85.67	-10,350.98	-2,083.28	1,333.57	1,061.16	272.41	4.896	
22,200.00	12,504.89	22,005.10	12,404.27	143.69	132.45	85.67	-10,450.97	-2,082.42	1,333.60	1,058.48	275.12	4.847	
22,300.00	12,505.41	22,105.10	12,404.79	145.05	133.81	85.67	-10,550.97	-2,081.56	1,333.64	1,055.81	277.83	4.800	
22,400.00	12,505.94	22,205.10	12,405.31	146.41	135.17	85.67	-10,650.96	-2,080.69	1,333.68	1,053.13	280.55	4.754	
22,500.00	12,506.46	22,305.10	12,405.84	147.76	136.53	85.67	-10,750.96	-2,079.83	1,333.72	1,050.46	283.26	4.708	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 212H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 232-MWD+HRGM+SAG+FDIR (rev.5), 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
22,600.00	12,506.99	22,405.10	12,406.36	149.12	137.89	85.67	-10,850.95	-2,078.97	1,333.76	1,047.78	285.98	4.664	
22,700.00	12,507.52	22,505.10	12,406.88	150.48	139.25	85.67	-10,950.95	-2,078.11	1,333.80	1,045.11	288.69	4.620	
22,800.00	12,508.04	22,605.10	12,407.41	151.84	140.61	85.67	-11,050.94	-2,077.25	1,333.84	1,042.43	291.41	4.577	
22,830.04	12,508.20	22,634.88	12,407.56	152.25	141.01	85.67	-11,080.72	-2,076.99	1,333.85	1,041.63	292.22	4.565	ES, SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	1.00	0.50	0.50	180.00	-160.00	0.00	160.00				
100.00	100.00	99.00	100.00	0.98	0.97	180.00	-160.00	0.00	160.00	158.05	1.95	81.844	
200.00	200.00	199.00	200.00	1.56	1.56	180.00	-160.00	0.00	160.00	156.88	3.12	51.344	
300.00	300.00	299.00	300.00	1.98	1.98	180.00	-160.00	0.00	160.00	156.04	3.96	40.424	
400.00	400.00	397.58	398.57	2.33	2.40	179.58	-160.43	1.17	160.44	155.78	4.65	34.467	
500.00	500.00	496.02	496.93	2.63	2.76	178.33	-161.72	4.73	161.82	156.56	5.26	30.747	
600.00	599.99	595.81	596.58	2.97	3.03	-23.55	-163.51	9.63	162.62	156.77	5.86	27.761	
700.00	699.91	695.59	696.23	3.26	3.28	-25.81	-165.29	14.54	161.24	154.85	6.39	25.215	
800.00	799.69	795.24	795.74	3.54	3.52	-28.57	-167.08	19.44	157.81	150.92	6.90	22.881	
900.00	899.32	894.73	895.10	3.65	3.75	-31.83	-168.86	24.33	153.03	145.80	7.23	21.171	
1,000.00	998.94	994.21	994.45	3.87	3.97	-35.30	-170.64	29.22	148.65	141.00	7.66	19.418	
1,100.00	1,098.56	1,093.70	1,093.79	4.07	4.19	-38.96	-172.42	34.12	144.85	136.78	8.07	17.946	
1,200.00	1,198.18	1,193.18	1,193.14	4.28	4.40	-42.81	-174.20	39.01	141.68	133.20	8.48	16.711	
1,300.00	1,297.78	1,292.63	1,292.46	4.39	4.60	-53.09	-175.98	43.90	139.24	130.46	8.78	15.860	
1,400.00	1,397.24	1,391.84	1,391.53	4.60	4.81	-68.03	-177.75	48.78	138.17	128.99	9.19	15.043	
1,406.22	1,403.42	1,398.00	1,397.68	4.61	4.82	-68.88	-177.86	49.08	138.17	128.96	9.21	15.002	CC, ES
1,500.00	1,496.46	1,490.70	1,490.26	4.82	5.01	-80.99	-179.52	53.64	139.22	129.63	9.59	14.523	
1,600.00	1,595.38	1,586.02	1,585.39	5.04	5.21	-92.41	-181.99	58.87	144.08	134.09	9.99	14.416	
1,700.00	1,693.92	1,680.26	1,679.30	5.27	5.42	-102.47	-186.32	65.38	154.70	144.28	10.42	14.846	
1,800.00	1,792.04	1,773.55	1,772.07	5.49	5.63	-111.06	-192.47	73.15	171.16	160.30	10.86	15.767	
1,900.00	1,889.64	1,866.05	1,863.78	5.71	5.79	-118.14	-200.38	82.14	193.20	181.96	11.24	17.195	
2,000.00	1,986.68	1,961.25	1,958.06	5.94	5.95	-124.19	-209.29	91.94	219.30	207.65	11.65	18.820	
2,100.00	2,083.28	2,055.89	2,051.78	6.11	6.13	-128.29	-218.15	101.67	247.85	235.80	12.05	20.573	
2,200.00	2,179.88	2,150.51	2,145.48	6.34	6.32	-131.33	-227.01	111.41	277.26	264.78	12.48	22.215	
2,300.00	2,276.47	2,245.13	2,239.18	6.61	6.51	-133.80	-235.87	121.15	307.27	294.35	12.91	23.797	
2,400.00	2,373.06	2,339.76	2,332.89	6.90	6.70	-135.83	-244.73	130.88	337.70	324.36	13.34	25.310	
2,500.00	2,469.65	2,434.38	2,426.59	7.20	6.88	-137.53	-253.59	140.62	368.47	354.69	13.77	26.753	
2,600.00	2,566.24	2,529.00	2,520.29	7.50	7.07	-138.97	-262.45	150.36	399.48	385.28	14.20	28.127	
2,700.00	2,662.84	2,623.63	2,614.00	7.82	7.26	-140.20	-271.30	160.10	430.69	416.06	14.63	29.432	
2,800.00	2,759.43	2,718.25	2,707.70	8.13	7.45	-141.27	-280.16	169.83	462.06	446.99	15.06	30.673	
2,900.00	2,856.02	2,812.87	2,801.40	8.45	7.64	-142.20	-289.02	179.57	493.55	478.06	15.50	31.851	
3,000.00	2,952.61	2,907.50	2,895.11	8.78	7.82	-143.02	-297.88	189.31	525.15	509.22	15.93	32.971	
3,100.00	3,049.20	3,002.12	2,988.81	9.10	8.01	-143.74	-306.74	199.04	556.83	540.47	16.36	34.035	
3,200.00	3,145.79	3,096.74	3,082.51	9.43	8.20	-144.39	-315.60	208.78	588.59	571.80	16.79	35.048	
3,300.00	3,242.39	3,191.37	3,176.22	9.77	8.39	-144.98	-324.46	218.52	620.41	603.18	17.23	36.011	
3,400.00	3,338.98	3,285.99	3,269.92	10.10	8.57	-145.50	-333.32	228.25	652.28	634.61	17.66	36.929	
3,500.00	3,435.57	3,380.61	3,363.62	10.44	8.76	-145.98	-342.18	237.99	684.19	666.09	18.10	37.803	
3,600.00	3,532.16	3,475.24	3,457.32	10.78	8.95	-146.41	-351.03	247.73	716.14	697.61	18.54	38.637	
3,700.00	3,628.75	3,569.86	3,551.03	11.12	9.14	-146.81	-359.89	257.47	748.13	729.16	18.97	39.434	
3,800.00	3,725.34	3,664.48	3,644.73	11.46	9.33	-147.18	-368.75	267.20	780.15	760.74	19.41	40.194	
3,900.00	3,821.94	3,759.11	3,738.43	11.80	9.52	-147.51	-377.61	276.94	812.19	792.35	19.85	40.921	
4,000.00	3,918.53	3,853.73	3,832.14	12.14	9.71	-147.82	-386.47	286.68	844.26	823.97	20.29	41.617	
4,100.00	4,015.12	3,948.35	3,925.84	12.49	9.89	-148.11	-395.33	296.41	876.35	855.62	20.73	42.283	
4,200.00	4,111.71	4,042.98	4,019.54	12.83	10.08	-148.38	-404.19	306.15	908.45	887.29	21.17	42.921	
4,300.00	4,208.30	4,137.60	4,113.25	13.18	10.27	-148.63	-413.05	315.89	940.58	918.97	21.61	43.533	
4,400.00	4,304.90	4,232.22	4,206.95	13.53	10.46	-148.86	-421.90	325.62	972.71	950.67	22.05	44.120	
4,500.00	4,401.49	4,326.85	4,300.65	13.88	10.65	-149.08	-430.76	335.36	1,004.86	982.38	22.49	44.684	
4,600.00	4,498.08	4,421.47	4,394.36	14.23	10.84	-149.29	-439.62	345.10	1,037.03	1,014.10	22.93	45.225	
4,700.00	4,594.67	4,516.09	4,488.06	14.58	11.03	-149.48	-448.48	354.83	1,069.20	1,045.83	23.37	45.746	
4,800.00	4,691.26	4,610.72	4,581.76	14.93	11.22	-149.66	-457.34	364.57	1,101.39	1,077.57	23.81	46.252	
4,900.00	4,788.20	4,705.73	4,675.85	15.26	11.41	-150.04	-466.24	374.35	1,132.46	1,108.20	24.26	46.675	
5,000.00	4,885.74	4,801.45	4,770.64	15.57	11.60	-150.33	-475.20	384.20	1,161.38	1,136.67	24.71	47.009	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	4,983.82	4,897.81	4,866.06	15.85	11.79	-150.53	-484.22	394.11	1,188.11	1,162.96	25.14	47.256	
5,200.00	5,082.39	4,994.74	4,962.05	16.10	11.99	-150.64	-493.29	404.09	1,212.63	1,187.06	25.57	47.423	
5,300.00	5,181.35	5,092.18	5,058.54	16.32	12.19	-150.68	-502.42	414.12	1,234.95	1,208.96	25.99	47.514	
5,400.00	5,280.66	5,190.06	5,155.47	16.52	12.38	-150.65	-511.58	424.19	1,255.04	1,228.64	26.40	47.535	
5,500.00	5,380.25	5,288.31	5,252.77	16.68	12.58	-150.55	-520.78	434.30	1,272.91	1,246.11	26.80	47.491	
5,600.00	5,480.03	5,386.87	5,350.37	16.82	12.78	-150.37	-530.01	444.44	1,288.56	1,261.37	27.19	47.390	
5,700.00	5,579.96	5,500.17	5,462.63	16.93	12.98	-150.09	-540.31	455.77	1,301.75	1,274.16	27.59	47.184	
5,800.00	5,679.94	5,632.56	5,594.26	16.99	13.23	89.13	-549.82	466.22	1,310.61	1,282.61	28.00	46.806	
5,900.00	5,779.94	5,765.85	5,727.19	17.03	13.48	89.42	-556.29	473.33	1,315.89	1,287.56	28.33	46.454	
6,000.00	5,879.94	5,899.66	5,860.90	17.07	13.69	89.57	-559.63	477.00	1,318.62	1,290.02	28.60	46.100	
6,100.00	5,979.94	6,018.71	5,979.94	17.10	13.75	89.59	-560.13	477.55	1,319.02	1,290.32	28.71	45.948	
6,200.00	6,079.94	6,118.71	6,079.94	17.14	13.79	89.59	-560.13	477.55	1,319.02	1,290.24	28.78	45.830	
6,300.00	6,179.94	6,218.71	6,179.94	17.17	13.83	89.59	-560.13	477.55	1,319.02	1,290.17	28.86	45.712	
6,400.00	6,279.94	6,318.71	6,279.94	17.21	13.87	89.59	-560.13	477.55	1,319.02	1,290.09	28.93	45.593	
6,500.00	6,379.94	6,418.71	6,379.94	17.25	13.91	89.59	-560.13	477.55	1,319.02	1,290.02	29.01	45.474	
6,600.00	6,479.94	6,518.71	6,479.94	17.29	13.94	89.59	-560.13	477.55	1,319.02	1,289.94	29.08	45.354	
6,700.00	6,579.94	6,618.71	6,579.94	17.32	13.98	89.59	-560.13	477.55	1,319.02	1,289.86	29.16	45.234	
6,800.00	6,679.94	6,718.71	6,679.94	17.36	14.02	89.59	-560.13	477.55	1,319.02	1,289.79	29.24	45.113	
6,900.00	6,779.94	6,818.71	6,779.94	17.40	14.06	89.59	-560.13	477.55	1,319.02	1,289.71	29.32	44.992	
7,000.00	6,879.94	6,918.71	6,879.94	17.44	14.10	89.59	-560.13	477.55	1,319.02	1,289.63	29.40	44.870	
7,100.00	6,979.94	7,018.71	6,979.94	17.48	14.15	89.59	-560.13	477.55	1,319.02	1,289.55	29.48	44.748	
7,200.00	7,079.94	7,118.71	7,079.94	17.52	14.19	89.59	-560.13	477.55	1,319.02	1,289.47	29.56	44.626	
7,300.00	7,179.94	7,218.71	7,179.94	17.56	14.23	89.59	-560.13	477.55	1,319.02	1,289.39	29.64	44.503	
7,400.00	7,279.94	7,318.71	7,279.94	17.60	14.27	89.59	-560.13	477.55	1,319.02	1,289.30	29.72	44.380	
7,500.00	7,379.94	7,418.71	7,379.94	17.64	14.31	89.59	-560.13	477.55	1,319.02	1,289.22	29.80	44.256	
7,600.00	7,479.94	7,518.71	7,479.94	17.68	14.36	89.59	-560.13	477.55	1,319.02	1,289.14	29.89	44.133	
7,700.00	7,579.94	7,618.71	7,579.94	17.72	14.40	89.59	-560.13	477.55	1,319.02	1,289.05	29.97	44.009	
7,800.00	7,679.94	7,718.71	7,679.94	17.76	14.44	89.59	-560.13	477.55	1,319.02	1,288.97	30.06	43.885	
7,900.00	7,779.94	7,818.71	7,779.94	17.80	14.48	89.59	-560.13	477.55	1,319.02	1,288.88	30.14	43.760	
8,000.00	7,879.94	7,918.71	7,879.94	17.84	14.53	89.59	-560.13	477.55	1,319.02	1,288.80	30.23	43.635	
8,100.00	7,979.94	8,018.71	7,979.94	17.88	14.57	89.59	-560.13	477.55	1,319.02	1,288.71	30.32	43.511	
8,200.00	8,079.94	8,118.71	8,079.94	17.93	14.62	89.59	-560.13	477.55	1,319.02	1,288.62	30.40	43.386	
8,300.00	8,179.94	8,218.71	8,179.94	17.97	14.66	89.59	-560.13	477.55	1,319.02	1,288.53	30.49	43.260	
8,400.00	8,279.94	8,318.71	8,279.94	18.01	14.71	89.59	-560.13	477.55	1,319.02	1,288.45	30.58	43.135	
8,500.00	8,379.94	8,418.71	8,379.94	18.05	14.75	89.59	-560.13	477.55	1,319.02	1,288.36	30.67	43.009	
8,600.00	8,479.94	8,518.71	8,479.94	18.10	14.80	89.59	-560.13	477.55	1,319.02	1,288.27	30.76	42.884	
8,700.00	8,579.94	8,618.71	8,579.94	18.14	14.85	89.59	-560.13	477.55	1,319.02	1,288.18	30.85	42.758	
8,800.00	8,679.94	8,718.71	8,679.94	18.18	14.89	89.59	-560.13	477.55	1,319.02	1,288.08	30.94	42.632	
8,900.00	8,779.94	8,818.71	8,779.94	18.23	14.94	89.59	-560.13	477.55	1,319.02	1,287.99	31.03	42.506	
9,000.00	8,879.94	8,918.71	8,879.94	18.27	14.99	89.59	-560.13	477.55	1,319.02	1,287.90	31.12	42.381	
9,100.00	8,979.94	9,018.71	8,979.94	18.32	15.03	89.59	-560.13	477.55	1,319.02	1,287.81	31.22	42.255	
9,200.00	9,079.94	9,118.71	9,079.94	18.36	15.08	89.59	-560.13	477.55	1,319.02	1,287.71	31.31	42.129	
9,300.00	9,179.94	9,218.71	9,179.94	18.41	15.13	89.59	-560.13	477.55	1,319.02	1,287.62	31.40	42.003	
9,400.00	9,279.94	9,318.71	9,279.94	18.45	15.18	89.59	-560.13	477.55	1,319.02	1,287.53	31.50	41.876	
9,500.00	9,379.94	9,418.71	9,379.94	18.50	15.23	89.59	-560.13	477.55	1,319.02	1,287.43	31.59	41.750	
9,600.00	9,479.94	9,518.71	9,479.94	18.54	15.28	89.59	-560.13	477.55	1,319.02	1,287.34	31.69	41.625	
9,700.00	9,579.94	9,618.71	9,579.94	18.59	15.33	89.59	-560.13	477.55	1,319.02	1,287.24	31.78	41.499	
9,800.00	9,679.94	9,718.71	9,679.94	18.64	15.38	89.59	-560.13	477.55	1,319.02	1,287.14	31.88	41.373	
9,900.00	9,779.94	9,818.71	9,779.94	18.68	15.43	89.59	-560.13	477.55	1,319.02	1,287.05	31.98	41.247	
10,000.00	9,879.94	9,918.71	9,879.94	18.73	15.48	89.59	-560.13	477.55	1,319.02	1,286.95	32.08	41.121	
10,100.00	9,979.94	10,018.71	9,979.94	18.78	15.53	89.59	-560.13	477.55	1,319.02	1,286.85	32.17	40.995	
10,200.00	10,079.94	10,118.71	10,079.94	18.82	15.58	89.59	-560.13	477.55	1,319.02	1,286.75	32.27	40.870	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	10,179.94	10,218.71	10,179.94	18.87	15.63	89.59	-560.13	477.55	1,319.02	1,286.65	32.37	40.744	
10,400.00	10,279.94	10,318.71	10,279.94	18.92	15.68	89.59	-560.13	477.55	1,319.02	1,286.55	32.47	40.619	
10,500.00	10,379.94	10,418.71	10,379.94	18.97	15.73	89.59	-560.13	477.55	1,319.02	1,286.45	32.57	40.494	
10,600.00	10,479.94	10,518.71	10,479.94	19.02	15.78	89.59	-560.13	477.55	1,319.02	1,286.35	32.67	40.369	
10,700.00	10,579.94	10,618.71	10,579.94	19.07	15.83	89.59	-560.13	477.55	1,319.02	1,286.25	32.78	40.244	
10,800.00	10,679.94	10,718.71	10,679.94	19.11	15.89	89.59	-560.13	477.55	1,319.02	1,286.15	32.88	40.119	
10,900.00	10,779.94	10,818.71	10,779.94	19.16	15.94	89.59	-560.13	477.55	1,319.02	1,286.04	32.98	39.995	
11,000.00	10,879.94	10,918.71	10,879.94	19.21	15.99	89.59	-560.13	477.55	1,319.02	1,285.94	33.08	39.870	
11,100.00	10,979.94	11,018.71	10,979.94	19.26	16.05	89.59	-560.13	477.55	1,319.02	1,285.84	33.19	39.746	
11,200.00	11,079.94	11,118.71	11,079.94	19.31	16.10	89.59	-560.13	477.55	1,319.02	1,285.73	33.29	39.622	
11,300.00	11,179.94	11,218.71	11,179.94	19.36	16.15	89.59	-560.13	477.55	1,319.02	1,285.63	33.39	39.498	
11,400.00	11,279.94	11,318.71	11,279.94	19.41	16.21	89.59	-560.13	477.55	1,319.02	1,285.53	33.50	39.375	
11,500.00	11,379.94	11,418.71	11,379.94	19.46	16.26	89.59	-560.13	477.55	1,319.02	1,285.42	33.60	39.252	
11,600.00	11,479.94	11,518.71	11,479.94	19.51	16.31	89.59	-560.13	477.55	1,319.02	1,285.31	33.71	39.128	
11,700.00	11,579.94	11,618.71	11,579.94	19.56	16.37	89.59	-560.13	477.55	1,319.02	1,285.21	33.82	39.006	
11,800.00	11,679.94	11,718.71	11,679.94	19.61	16.42	89.59	-560.13	477.55	1,319.02	1,285.10	33.92	38.883	
11,900.00	11,779.94	11,818.71	11,779.94	19.67	16.48	89.59	-560.13	477.55	1,319.02	1,285.00	34.03	38.764	
11,908.14	11,788.08	11,826.85	11,788.08	19.67	16.48	89.59	-560.13	477.55	1,319.02	1,284.99	34.03	38.755	
12,000.00	11,879.94	11,918.42	11,879.61	19.72	16.52	89.66	-561.87	477.57	1,319.03	1,284.91	34.12	38.658	
12,100.00	11,979.48	12,016.66	11,976.42	19.84	16.65	-89.47	-577.86	477.71	1,319.08	1,284.82	34.27	38.496	
12,200.00	12,076.09	12,113.59	12,067.88	20.05	16.80	-89.13	-609.59	478.00	1,319.18	1,284.61	34.57	38.159	
12,300.00	12,166.83	12,209.36	12,151.73	20.32	16.95	-88.82	-655.63	478.42	1,319.31	1,284.25	35.06	37.631	
12,400.00	12,248.94	12,304.11	12,226.01	20.67	17.29	-88.55	-714.28	478.95	1,319.46	1,283.71	35.75	36.909	
12,500.00	12,319.94	12,398.01	12,289.10	21.11	17.76	-88.32	-783.69	479.58	1,319.61	1,282.96	36.65	36.001	
12,600.00	12,377.66	12,491.24	12,339.70	21.65	18.34	-88.13	-861.86	480.29	1,319.75	1,281.97	37.78	34.929	
12,700.00	12,420.35	12,583.96	12,376.81	22.29	19.01	-88.00	-946.72	481.06	1,319.86	1,280.74	39.12	33.738	
12,800.00	12,446.71	12,676.37	12,399.70	23.03	19.76	-87.93	-1,036.14	481.88	1,319.93	1,279.29	40.64	32.481	
12,900.04	12,455.95	12,768.68	12,407.94	23.86	20.56	-87.92	-1,127.98	482.71	1,319.95	1,277.66	42.29	31.214	
12,902.57	12,455.96	12,771.04	12,407.95	23.88	20.59	-87.92	-1,130.34	482.73	1,319.95	1,277.62	42.33	31.182	
13,000.00	12,456.48	12,868.46	12,408.46	24.75	21.50	-87.92	-1,227.76	483.62	1,319.96	1,275.81	44.15	29.900	
13,100.00	12,457.00	12,968.46	12,408.99	25.69	22.47	-87.92	-1,327.75	484.53	1,319.97	1,273.87	46.09	28.637	
13,200.00	12,457.53	13,068.46	12,409.51	26.67	23.48	-87.92	-1,427.75	485.43	1,319.98	1,271.86	48.12	27.432	
13,300.00	12,458.05	13,168.46	12,410.04	27.68	24.53	-87.92	-1,527.74	486.34	1,319.98	1,269.77	50.21	26.289	
13,400.00	12,458.58	13,268.46	12,410.56	28.73	25.60	-87.92	-1,627.74	487.25	1,319.99	1,267.63	52.36	25.208	
13,500.00	12,459.11	13,368.46	12,411.09	29.80	26.70	-87.92	-1,727.73	488.16	1,320.00	1,265.43	54.57	24.190	
13,600.00	12,459.63	13,468.46	12,411.61	30.90	27.82	-87.92	-1,827.73	489.07	1,320.01	1,263.19	56.82	23.231	
13,700.00	12,460.16	13,568.47	12,412.14	32.01	28.96	-87.92	-1,927.72	489.98	1,320.02	1,260.91	59.11	22.330	
13,800.00	12,460.69	13,668.47	12,412.66	33.15	30.11	-87.92	-2,027.72	490.89	1,320.03	1,258.59	61.44	21.484	
13,900.00	12,461.21	13,768.47	12,413.19	34.30	31.29	-87.92	-2,127.71	491.79	1,320.04	1,256.24	63.80	20.689	
14,000.00	12,461.74	13,868.47	12,413.71	35.46	32.48	-87.92	-2,227.70	492.70	1,320.05	1,253.86	66.19	19.942	
14,100.00	12,462.26	13,968.47	12,414.24	36.64	33.68	-87.91	-2,327.70	493.61	1,320.06	1,251.45	68.61	19.240	
14,200.00	12,462.79	14,068.47	12,414.76	37.84	34.89	-87.91	-2,427.69	494.52	1,320.07	1,249.02	71.05	18.579	
14,300.00	12,463.32	14,168.47	12,415.29	39.04	36.12	-87.91	-2,527.69	495.43	1,320.08	1,246.57	73.51	17.957	
14,400.00	12,463.84	14,268.47	12,415.81	40.25	37.35	-87.91	-2,627.68	496.34	1,320.09	1,244.09	75.99	17.371	
14,500.00	12,464.37	14,368.47	12,416.34	41.48	38.59	-87.91	-2,727.68	497.25	1,320.10	1,241.61	78.49	16.819	
14,600.00	12,464.90	14,468.47	12,416.86	42.71	39.84	-87.91	-2,827.67	498.16	1,320.11	1,239.10	81.00	16.297	
14,700.00	12,465.42	14,568.47	12,417.39	43.95	41.10	-87.91	-2,927.67	499.06	1,320.11	1,236.59	83.53	15.804	
14,800.00	12,465.95	14,668.47	12,417.91	45.19	42.37	-87.91	-3,027.66	499.97	1,320.12	1,234.06	86.07	15.338	
14,900.00	12,466.47	14,768.47	12,418.44	46.45	43.64	-87.91	-3,127.66	500.88	1,320.13	1,231.51	88.62	14.896	
15,000.00	12,467.00	14,868.47	12,418.96	47.71	44.91	-87.91	-3,227.65	501.79	1,320.14	1,228.96	91.18	14.478	
15,100.00	12,467.53	14,968.47	12,419.49	48.97	46.19	-87.91	-3,327.64	502.70	1,320.15	1,226.40	93.76	14.081	
15,200.00	12,468.05	15,068.47	12,420.01	50.24	47.48	-87.91	-3,427.64	503.61	1,320.16	1,223.82	96.34	13.704	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
15,300.00	12,468.58	15,168.47	12,420.54	51.52	48.77	-87.91	-3,527.63	504.52	1,320.17	1,221.24	98.93	13.345	
15,400.00	12,469.10	15,268.47	12,421.06	52.80	50.06	-87.91	-3,627.63	505.42	1,320.18	1,218.66	101.52	13.004	
15,500.00	12,469.63	15,368.47	12,421.59	54.08	51.36	-87.91	-3,727.62	506.33	1,320.19	1,216.06	104.13	12.678	
15,600.00	12,470.16	15,468.47	12,422.11	55.37	52.66	-87.91	-3,827.62	507.24	1,320.20	1,213.46	106.74	12.368	
15,700.00	12,470.68	15,568.47	12,422.64	56.66	53.97	-87.91	-3,927.61	508.15	1,320.21	1,210.85	109.36	12.072	
15,800.00	12,471.21	15,668.47	12,423.16	57.95	55.28	-87.91	-4,027.61	509.06	1,320.22	1,208.24	111.98	11.790	
15,900.00	12,471.74	15,768.47	12,423.69	59.25	56.59	-87.91	-4,127.60	509.97	1,320.23	1,205.62	114.61	11.519	
16,000.00	12,472.26	15,868.47	12,424.21	60.55	57.90	-87.91	-4,227.59	510.88	1,320.24	1,202.99	117.24	11.261	
16,100.00	12,472.79	15,968.47	12,424.74	61.86	59.22	-87.91	-4,327.59	511.79	1,320.24	1,200.36	119.88	11.013	
16,200.00	12,473.31	16,068.47	12,425.26	63.16	60.54	-87.91	-4,427.58	512.69	1,320.25	1,197.73	122.52	10.775	
16,300.00	12,473.84	16,168.47	12,425.79	64.47	61.86	-87.91	-4,527.58	513.60	1,320.26	1,195.09	125.17	10.548	
16,400.00	12,474.37	16,268.47	12,426.31	65.78	63.18	-87.91	-4,627.57	514.51	1,320.27	1,192.45	127.82	10.329	
16,500.00	12,474.89	16,368.47	12,426.84	67.10	64.50	-87.91	-4,727.57	515.42	1,320.28	1,189.81	130.48	10.119	
16,600.00	12,475.42	16,468.47	12,427.36	68.41	65.83	-87.91	-4,827.56	516.33	1,320.29	1,187.16	133.13	9.917	
16,700.00	12,475.94	16,568.47	12,427.89	69.73	67.16	-87.91	-4,927.56	517.24	1,320.30	1,184.51	135.79	9.723	
16,800.00	12,476.47	16,668.47	12,428.41	71.05	68.49	-87.91	-5,027.55	518.15	1,320.31	1,181.85	138.46	9.536	
16,900.00	12,477.00	16,768.47	12,428.94	72.37	69.82	-87.91	-5,127.55	519.05	1,320.32	1,179.19	141.12	9.356	
17,000.00	12,477.52	16,868.47	12,429.46	73.70	71.15	-87.91	-5,227.54	519.96	1,320.33	1,176.53	143.79	9.182	
17,100.00	12,478.05	16,968.47	12,429.99	75.02	72.48	-87.91	-5,327.53	520.87	1,320.34	1,173.87	146.47	9.015	
17,200.00	12,478.58	17,068.47	12,430.51	76.35	73.82	-87.91	-5,427.53	521.78	1,320.35	1,171.21	149.14	8.853	
17,300.00	12,479.10	17,168.47	12,431.04	77.68	75.15	-87.91	-5,527.52	522.69	1,320.36	1,168.54	151.82	8.697	
17,400.00	12,479.63	17,268.47	12,431.56	79.01	76.49	-87.91	-5,627.52	523.60	1,320.37	1,165.87	154.49	8.546	
17,500.00	12,480.15	17,368.47	12,432.09	80.34	77.83	-87.91	-5,727.51	524.51	1,320.37	1,163.20	157.18	8.401	
17,600.00	12,480.68	17,468.47	12,432.61	81.67	79.17	-87.91	-5,827.51	525.42	1,320.38	1,160.53	159.86	8.260	
17,700.00	12,481.21	17,568.47	12,433.14	83.00	80.51	-87.91	-5,927.50	526.32	1,320.39	1,157.85	162.54	8.123	
17,800.00	12,481.73	17,668.47	12,433.66	84.34	81.85	-87.91	-6,027.50	527.23	1,320.40	1,155.17	165.23	7.991	
17,900.00	12,482.26	17,768.47	12,434.19	85.67	83.19	-87.91	-6,127.49	528.14	1,320.41	1,152.50	167.92	7.864	
18,000.00	12,482.79	17,868.47	12,434.71	87.01	84.54	-87.91	-6,227.48	529.05	1,320.42	1,149.82	170.61	7.740	
18,100.00	12,483.31	17,968.47	12,435.24	88.35	85.88	-87.91	-6,327.48	529.96	1,320.43	1,147.13	173.30	7.619	
18,200.00	12,483.84	18,068.47	12,435.76	89.68	87.23	-87.91	-6,427.47	530.87	1,320.44	1,144.45	175.99	7.503	
18,300.00	12,484.36	18,168.47	12,436.28	91.02	88.57	-87.91	-6,527.47	531.78	1,320.45	1,141.77	178.68	7.390	
18,400.00	12,484.89	18,268.47	12,436.81	92.36	89.92	-87.91	-6,627.46	532.68	1,320.46	1,139.08	181.38	7.280	
18,500.00	12,485.42	18,368.47	12,437.33	93.70	91.26	-87.91	-6,727.46	533.59	1,320.47	1,136.39	184.07	7.174	
18,600.00	12,485.94	18,468.47	12,437.86	95.05	92.61	-87.91	-6,827.45	534.50	1,320.48	1,133.71	186.77	7.070	
18,700.00	12,486.47	18,568.47	12,438.38	96.39	93.96	-87.91	-6,927.45	535.41	1,320.49	1,131.02	189.47	6.969	
18,800.00	12,486.99	18,668.47	12,438.91	97.73	95.31	-87.91	-7,027.44	536.32	1,320.49	1,128.33	192.17	6.872	
18,900.00	12,487.52	18,768.47	12,439.43	99.07	96.66	-87.91	-7,127.44	537.23	1,320.50	1,125.63	194.87	6.776	
19,000.00	12,488.05	18,868.47	12,439.96	100.42	98.01	-87.91	-7,227.43	538.14	1,320.51	1,122.94	197.57	6.684	
19,100.00	12,488.57	18,968.47	12,440.48	101.76	99.36	-87.91	-7,327.42	539.05	1,320.52	1,120.25	200.27	6.594	
19,200.00	12,489.10	19,068.47	12,441.01	103.11	100.71	-87.91	-7,427.42	539.95	1,320.53	1,117.55	202.98	6.506	
19,300.00	12,489.63	19,168.47	12,441.53	104.46	102.06	-87.91	-7,527.41	540.86	1,320.54	1,114.86	205.68	6.420	
19,400.00	12,490.15	19,268.47	12,442.06	105.80	103.41	-87.91	-7,627.41	541.77	1,320.55	1,112.16	208.39	6.337	
19,500.00	12,490.68	19,368.47	12,442.58	107.15	104.76	-87.91	-7,727.40	542.68	1,320.56	1,109.46	211.09	6.256	
19,600.00	12,491.20	19,468.47	12,443.11	108.50	106.12	-87.91	-7,827.40	543.59	1,320.57	1,106.77	213.80	6.177	
19,700.00	12,491.73	19,568.47	12,443.63	109.85	107.47	-87.91	-7,927.39	544.50	1,320.58	1,104.07	216.51	6.099	
19,800.00	12,492.26	19,668.47	12,444.16	111.20	108.82	-87.91	-8,027.39	545.41	1,320.59	1,101.37	219.22	6.024	
19,900.00	12,492.78	19,768.47	12,444.68	112.55	110.18	-87.91	-8,127.38	546.31	1,320.60	1,098.67	221.93	5.951	
20,000.00	12,493.31	19,868.47	12,445.21	113.90	111.53	-87.91	-8,227.37	547.22	1,320.61	1,095.97	224.64	5.879	
20,100.00	12,493.84	19,968.47	12,445.73	115.25	112.89	-87.91	-8,327.37	548.13	1,320.62	1,093.27	227.35	5.809	
20,200.00	12,494.36	20,068.47	12,446.26	116.60	114.24	-87.91	-8,427.36	549.04	1,320.62	1,090.56	230.06	5.740	
20,300.00	12,494.89	20,168.47	12,446.78	117.95	115.60	-87.91	-8,527.36	549.95	1,320.63	1,087.86	232.77	5.674	
20,400.00	12,495.41	20,268.47	12,447.31	119.30	116.95	-87.91	-8,627.35	550.86	1,320.64	1,085.16	235.48	5.608	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
20,500.00	12,495.94	20,368.47	12,447.83	120.65	118.31	-87.91	-8,727.35	551.77	1,320.65	1,082.46	238.20	5.544	
20,600.00	12,496.47	20,468.47	12,448.36	122.01	119.67	-87.91	-8,827.34	552.68	1,320.66	1,079.75	240.91	5.482	
20,700.00	12,496.99	20,568.47	12,448.88	123.36	121.02	-87.91	-8,927.34	553.58	1,320.67	1,077.05	243.62	5.421	
20,800.00	12,497.52	20,668.47	12,449.41	124.71	122.38	-87.91	-9,027.33	554.49	1,320.68	1,074.34	246.34	5.361	
20,900.00	12,498.04	20,768.47	12,449.93	126.07	123.74	-87.91	-9,127.32	555.40	1,320.69	1,071.63	249.05	5.303	
21,000.00	12,498.57	20,868.47	12,450.46	127.42	125.09	-87.91	-9,227.32	556.31	1,320.70	1,068.93	251.77	5.246	
21,100.00	12,499.10	20,968.47	12,450.98	128.77	126.45	-87.91	-9,327.31	557.22	1,320.71	1,066.22	254.49	5.190	
21,200.00	12,499.62	21,068.47	12,451.51	130.13	127.81	-87.91	-9,427.31	558.13	1,320.72	1,063.51	257.20	5.135	
21,300.00	12,500.15	21,168.47	12,452.03	131.48	129.17	-87.91	-9,527.30	559.04	1,320.73	1,060.81	259.92	5.081	
21,400.00	12,500.68	21,268.47	12,452.56	132.84	130.53	-87.91	-9,627.30	559.94	1,320.74	1,058.10	262.64	5.029	
21,500.00	12,501.20	21,368.47	12,453.08	134.20	131.88	-87.91	-9,727.29	560.85	1,320.75	1,055.39	265.36	4.977	
21,600.00	12,501.73	21,468.47	12,453.61	135.55	133.24	-87.91	-9,827.29	561.76	1,320.75	1,052.68	268.07	4.927	
21,700.00	12,502.25	21,568.47	12,454.13	136.91	134.60	-87.91	-9,927.28	562.67	1,320.76	1,049.97	270.79	4.877	
21,800.00	12,502.78	21,668.47	12,454.66	138.26	135.96	-87.91	-10,027.28	563.58	1,320.77	1,047.26	273.51	4.829	
21,900.00	12,503.31	21,768.47	12,455.18	139.62	137.32	-87.91	-10,127.27	564.49	1,320.78	1,044.55	276.23	4.781	
22,000.00	12,503.83	21,868.47	12,455.71	140.98	138.68	-87.91	-10,227.26	565.40	1,320.79	1,041.84	278.95	4.735	
22,100.00	12,504.36	21,968.47	12,456.23	142.33	140.04	-87.91	-10,327.26	566.31	1,320.80	1,039.13	281.67	4.689	
22,200.00	12,504.89	22,068.47	12,456.76	143.69	141.40	-87.91	-10,427.25	567.21	1,320.81	1,036.42	284.39	4.644	
22,300.00	12,505.41	22,168.47	12,457.28	145.05	142.76	-87.91	-10,527.25	568.12	1,320.82	1,033.71	287.11	4.600	
22,400.00	12,505.94	22,268.47	12,457.81	146.41	144.12	-87.91	-10,627.24	569.03	1,320.83	1,031.00	289.83	4.557	
22,500.00	12,506.46	22,368.47	12,458.33	147.76	145.48	-87.91	-10,727.24	569.94	1,320.84	1,028.28	292.55	4.515	
22,600.00	12,506.99	22,468.47	12,458.86	149.12	146.84	-87.91	-10,827.23	570.85	1,320.85	1,025.57	295.28	4.473	
22,700.00	12,507.52	22,568.47	12,459.38	150.48	148.20	-87.91	-10,927.23	571.76	1,320.86	1,022.86	298.00	4.432	
22,800.00	12,508.04	22,668.47	12,459.91	151.84	149.47	-87.91	-11,027.22	572.67	1,320.87	1,020.25	300.62	4.394	
22,830.04	12,508.20	22,698.50	12,460.06	152.25	149.84	-87.91	-11,057.26	572.94	1,320.87	1,019.48	301.39	4.383	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 215H - 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
2,500.00	2,469.65	2,329.50	2,316.43	7.20	6.87	15.73	-846.40	-2,549.84	2,423.39	2,409.90	13.50	179.573	
2,600.00	2,566.24	2,425.66	2,411.54	7.50	7.07	16.21	-835.62	-2,559.11	2,404.69	2,390.76	13.93	172.677	
2,700.00	2,662.84	2,521.83	2,506.66	7.82	7.28	16.69	-824.84	-2,568.38	2,386.15	2,371.79	14.36	166.180	
2,800.00	2,759.43	2,618.00	2,601.77	8.13	7.48	17.18	-814.06	-2,577.66	2,367.78	2,352.99	14.79	160.049	
2,900.00	2,856.02	2,714.17	2,696.88	8.45	7.68	17.67	-803.28	-2,586.93	2,349.59	2,334.36	15.23	154.257	
3,000.00	2,952.61	2,810.34	2,791.99	8.78	7.87	18.17	-792.50	-2,596.20	2,331.59	2,315.91	15.67	148.777	
3,100.00	3,049.20	2,906.51	2,887.10	9.10	8.07	18.68	-781.72	-2,605.47	2,313.76	2,297.65	16.11	143.587	
3,200.00	3,145.79	3,002.67	2,982.21	9.43	8.27	19.20	-770.93	-2,614.74	2,296.13	2,279.57	16.56	138.664	
3,300.00	3,242.39	3,098.84	3,077.32	9.77	8.47	19.73	-760.15	-2,624.01	2,278.68	2,261.68	17.01	133.991	
3,400.00	3,338.98	3,195.01	3,172.43	10.10	8.67	20.26	-749.37	-2,633.28	2,261.44	2,243.98	17.46	129.550	
3,500.00	3,435.57	3,291.18	3,267.55	10.44	8.87	20.80	-738.59	-2,642.55	2,244.40	2,226.49	17.91	125.325	
3,600.00	3,532.16	3,387.35	3,362.66	10.78	9.07	21.35	-727.81	-2,651.82	2,227.56	2,209.20	18.36	121.302	
3,700.00	3,628.75	3,483.51	3,457.77	11.12	9.26	21.91	-717.03	-2,661.09	2,210.94	2,192.12	18.82	117.467	
3,800.00	3,725.34	3,579.68	3,552.88	11.46	9.46	22.47	-706.25	-2,670.36	2,194.53	2,175.25	19.28	113.810	
3,900.00	3,821.94	3,675.85	3,647.99	11.80	9.66	23.05	-695.47	-2,679.63	2,178.35	2,158.60	19.75	110.318	
4,000.00	3,918.53	3,772.02	3,743.10	12.14	9.86	23.63	-684.69	-2,688.90	2,162.39	2,142.18	20.21	106.982	
4,100.00	4,015.12	3,868.19	3,838.21	12.49	10.05	24.21	-673.91	-2,698.17	2,146.67	2,125.98	20.68	103.793	
4,200.00	4,111.71	3,964.36	3,933.33	12.83	10.25	24.81	-663.13	-2,707.44	2,131.18	2,110.02	21.15	100.741	
4,300.00	4,208.30	4,060.52	4,028.44	13.18	10.45	25.42	-652.35	-2,716.72	2,115.93	2,094.30	21.63	97.820	
4,400.00	4,304.90	4,156.69	4,123.55	13.53	10.65	26.03	-641.57	-2,725.99	2,100.93	2,078.82	22.11	95.021	
4,500.00	4,401.49	4,252.86	4,218.66	13.88	10.84	26.65	-630.79	-2,735.26	2,086.18	2,063.59	22.59	92.339	
4,600.00	4,498.08	4,349.03	4,313.77	14.23	11.04	27.28	-620.01	-2,744.53	2,071.69	2,048.61	23.08	89.774	
4,700.00	4,594.67	4,469.29	4,432.81	14.58	11.29	28.07	-607.05	-2,755.67	2,057.17	2,033.57	23.61	87.144	
4,800.00	4,691.26	4,613.23	4,575.87	14.93	11.59	28.92	-595.03	-2,766.00	2,040.94	2,016.79	24.16	84.493	
4,900.00	4,788.20	4,758.18	4,720.42	15.26	11.87	29.52	-587.07	-2,772.86	2,023.81	1,999.14	24.66	82.056	
5,000.00	4,885.74	4,904.14	4,866.29	15.57	12.12	29.97	-583.25	-2,776.14	2,006.72	1,981.61	25.11	79.927	
5,100.00	4,983.82	5,021.68	4,983.82	15.85	12.21	30.19	-582.91	-2,776.43	1,989.99	1,964.57	25.42	78.279	
5,200.00	5,082.39	5,120.24	5,082.39	16.10	12.29	30.32	-582.91	-2,776.43	1,975.35	1,949.61	25.75	76.721	
5,300.00	5,181.35	5,219.21	5,181.35	16.32	12.37	30.43	-582.91	-2,776.43	1,962.99	1,936.93	26.06	75.332	
5,400.00	5,280.66	5,318.52	5,280.66	16.52	12.45	30.53	-582.91	-2,776.43	1,952.88	1,926.53	26.35	74.109	
5,500.00	5,380.25	5,418.10	5,380.25	16.68	12.53	30.61	-582.91	-2,776.43	1,945.04	1,918.41	26.63	73.046	
5,600.00	5,480.03	5,517.89	5,480.03	16.82	12.61	30.66	-582.91	-2,776.43	1,939.45	1,912.57	26.88	72.140	
5,700.00	5,579.96	5,617.81	5,579.96	16.93	12.69	30.69	-582.91	-2,776.43	1,936.12	1,909.00	27.12	71.390	
5,800.00	5,679.94	5,717.80	5,679.94	16.99	12.78	-90.39	-582.91	-2,776.43	1,935.04	1,907.75	27.28	70.927	
5,900.00	5,779.94	5,817.80	5,779.94	17.03	12.86	-90.39	-582.91	-2,776.43	1,935.04	1,907.64	27.40	70.627	
6,000.00	5,879.94	5,917.80	5,879.94	17.07	12.94	-90.39	-582.91	-2,776.43	1,935.04	1,907.52	27.51	70.329	
6,100.00	5,979.94	6,017.80	5,979.94	17.10	13.02	-90.39	-582.91	-2,776.43	1,935.04	1,907.40	27.63	70.032	
6,200.00	6,079.94	6,117.80	6,079.94	17.14	13.10	-90.39	-582.91	-2,776.43	1,935.04	1,907.29	27.75	69.737	
6,300.00	6,179.94	6,217.80	6,179.94	17.17	13.19	-90.39	-582.91	-2,776.43	1,935.04	1,907.17	27.87	69.443	
6,400.00	6,279.94	6,317.80	6,279.94	17.21	13.27	-90.39	-582.91	-2,776.43	1,935.04	1,907.05	27.98	69.151	
6,500.00	6,379.94	6,417.80	6,379.94	17.25	13.35	-90.39	-582.91	-2,776.43	1,935.04	1,906.93	28.10	68.860	
6,600.00	6,479.94	6,517.80	6,479.94	17.29	13.43	-90.39	-582.91	-2,776.43	1,935.04	1,906.82	28.22	68.571	
6,700.00	6,579.94	6,617.80	6,579.94	17.32	13.51	-90.39	-582.91	-2,776.43	1,935.04	1,906.70	28.34	68.284	
6,800.00	6,679.94	6,717.80	6,679.94	17.36	13.60	-90.39	-582.91	-2,776.43	1,935.04	1,906.58	28.46	67.998	
6,900.00	6,779.94	6,817.80	6,779.94	17.40	13.68	-90.39	-582.91	-2,776.43	1,935.04	1,906.46	28.58	67.714	
7,000.00	6,879.94	6,917.80	6,879.94	17.44	13.76	-90.39	-582.91	-2,776.43	1,935.04	1,906.34	28.70	67.431	
7,100.00	6,979.94	7,017.80	6,979.94	17.48	13.84	-90.39	-582.91	-2,776.43	1,935.04	1,906.22	28.82	67.150	
7,200.00	7,079.94	7,117.80	7,079.94	17.52	13.92	-90.39	-582.91	-2,776.43	1,935.04	1,906.10	28.94	66.870	
7,300.00	7,179.94	7,217.80	7,179.94	17.56	14.01	-90.39	-582.91	-2,776.43	1,935.04	1,905.98	29.06	66.592	
7,400.00	7,279.94	7,317.80	7,279.94	17.60	14.09	-90.39	-582.91	-2,776.43	1,935.04	1,905.86	29.18	66.315	
7,500.00	7,379.94	7,417.80	7,379.94	17.64	14.17	-90.39	-582.91	-2,776.43	1,935.04	1,905.73	29.30	66.040	
7,600.00	7,479.94	7,517.80	7,479.94	17.68	14.25	-90.39	-582.91	-2,776.43	1,935.04	1,905.61	29.42	65.766	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 215H - 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
7,700.00	7,579.94	7,617.80	7,579.94	17.72	14.33	-90.39	-582.91	-2,776.43	1,935.04	1,905.49	29.55	65.494	
7,800.00	7,679.94	7,717.80	7,679.94	17.76	14.42	-90.39	-582.91	-2,776.43	1,935.04	1,905.37	29.67	65.224	
7,900.00	7,779.94	7,817.80	7,779.94	17.80	14.50	-90.39	-582.91	-2,776.43	1,935.04	1,905.25	29.79	64.955	
8,000.00	7,879.94	7,917.80	7,879.94	17.84	14.58	-90.39	-582.91	-2,776.43	1,935.04	1,905.12	29.91	64.688	
8,100.00	7,979.94	8,017.80	7,979.94	17.88	14.66	-90.39	-582.91	-2,776.43	1,935.04	1,905.00	30.04	64.422	
8,200.00	8,079.94	8,117.80	8,079.94	17.93	14.74	-90.39	-582.91	-2,776.43	1,935.04	1,904.87	30.16	64.157	
8,300.00	8,179.94	8,217.80	8,179.94	17.97	14.83	-90.39	-582.91	-2,776.43	1,935.04	1,904.75	30.28	63.894	
8,400.00	8,279.94	8,317.80	8,279.94	18.01	14.91	-90.39	-582.91	-2,776.43	1,935.04	1,904.63	30.41	63.633	
8,500.00	8,379.94	8,417.80	8,379.94	18.05	14.99	-90.39	-582.91	-2,776.43	1,935.04	1,904.50	30.53	63.373	
8,600.00	8,479.94	8,517.80	8,479.94	18.10	15.07	-90.39	-582.91	-2,776.43	1,935.04	1,904.38	30.66	63.115	
8,700.00	8,579.94	8,617.80	8,579.94	18.14	15.15	-90.39	-582.91	-2,776.43	1,935.04	1,904.25	30.78	62.858	
8,800.00	8,679.94	8,717.80	8,679.94	18.18	15.24	-90.39	-582.91	-2,776.43	1,935.04	1,904.13	30.91	62.602	
8,900.00	8,779.94	8,817.80	8,779.94	18.23	15.32	-90.39	-582.91	-2,776.43	1,935.04	1,904.00	31.04	62.348	
9,000.00	8,879.94	8,917.80	8,879.94	18.27	15.40	-90.39	-582.91	-2,776.43	1,935.04	1,903.87	31.16	62.096	
9,100.00	8,979.94	9,017.80	8,979.94	18.32	15.48	-90.39	-582.91	-2,776.43	1,935.04	1,903.75	31.29	61.845	
9,200.00	9,079.94	9,117.80	9,079.94	18.36	15.56	-90.39	-582.91	-2,776.43	1,935.04	1,903.62	31.42	61.595	
9,300.00	9,179.94	9,217.80	9,179.94	18.41	15.65	-90.39	-582.91	-2,776.43	1,935.04	1,903.49	31.54	61.347	
9,400.00	9,279.94	9,317.80	9,279.94	18.45	15.73	-90.39	-582.91	-2,776.43	1,935.04	1,903.37	31.67	61.100	
9,500.00	9,379.94	9,417.80	9,379.94	18.50	15.81	-90.39	-582.91	-2,776.43	1,935.04	1,903.24	31.80	60.855	
9,600.00	9,479.94	9,517.80	9,479.94	18.54	15.89	-90.39	-582.91	-2,776.43	1,935.04	1,903.11	31.93	60.611	
9,700.00	9,579.94	9,617.80	9,579.94	18.59	15.98	-90.39	-582.91	-2,776.43	1,935.04	1,902.98	32.05	60.369	
9,800.00	9,679.94	9,717.80	9,679.94	18.64	16.06	-90.39	-582.91	-2,776.43	1,935.04	1,902.85	32.18	60.128	
9,900.00	9,779.94	9,817.80	9,779.94	18.68	16.14	-90.39	-582.91	-2,776.43	1,935.04	1,902.72	32.31	59.888	
10,000.00	9,879.94	9,917.80	9,879.94	18.73	16.22	-90.39	-582.91	-2,776.43	1,935.04	1,902.60	32.44	59.650	
10,100.00	9,979.94	10,017.80	9,979.94	18.78	16.30	-90.39	-582.91	-2,776.43	1,935.04	1,902.47	32.57	59.413	
10,200.00	10,079.94	10,117.80	10,079.94	18.82	16.39	-90.39	-582.91	-2,776.43	1,935.04	1,902.34	32.70	59.178	
10,300.00	10,179.94	10,217.80	10,179.94	18.87	16.47	-90.39	-582.91	-2,776.43	1,935.04	1,902.21	32.83	58.944	
10,400.00	10,279.94	10,317.80	10,279.94	18.92	16.55	-90.39	-582.91	-2,776.43	1,935.04	1,902.08	32.96	58.711	
10,500.00	10,379.94	10,417.80	10,379.94	18.97	16.63	-90.39	-582.91	-2,776.43	1,935.04	1,901.95	33.09	58.480	
10,600.00	10,479.94	10,517.80	10,479.94	19.02	16.71	-90.39	-582.91	-2,776.43	1,935.04	1,901.82	33.22	58.250	
10,700.00	10,579.94	10,617.80	10,579.94	19.07	16.80	-90.39	-582.91	-2,776.43	1,935.04	1,901.69	33.35	58.022	
10,800.00	10,679.94	10,717.80	10,679.94	19.11	16.88	-90.39	-582.91	-2,776.43	1,935.04	1,901.55	33.48	57.794	
10,900.00	10,779.94	10,817.80	10,779.94	19.16	16.96	-90.39	-582.91	-2,776.43	1,935.04	1,901.42	33.61	57.569	
11,000.00	10,879.94	10,917.80	10,879.94	19.21	17.04	-90.39	-582.91	-2,776.43	1,935.04	1,901.29	33.74	57.344	
11,100.00	10,979.94	11,017.80	10,979.94	19.26	17.12	-90.39	-582.91	-2,776.43	1,935.04	1,901.16	33.88	57.121	
11,200.00	11,079.94	11,117.80	11,079.94	19.31	17.21	-90.39	-582.91	-2,776.43	1,935.04	1,901.03	34.01	56.899	
11,300.00	11,179.94	11,217.80	11,179.94	19.36	17.29	-90.39	-582.91	-2,776.43	1,935.04	1,900.90	34.14	56.679	
11,400.00	11,279.94	11,317.80	11,279.94	19.41	17.37	-90.39	-582.91	-2,776.43	1,935.04	1,900.76	34.27	56.460	
11,500.00	11,379.94	11,417.80	11,379.94	19.46	17.45	-90.39	-582.91	-2,776.43	1,935.04	1,900.63	34.41	56.242	
11,600.00	11,479.94	11,517.80	11,479.94	19.51	17.54	-90.39	-582.91	-2,776.43	1,935.04	1,900.50	34.54	56.025	
11,700.00	11,579.94	11,617.80	11,579.94	19.56	17.62	-90.39	-582.91	-2,776.43	1,935.04	1,900.36	34.67	55.810	
11,800.00	11,679.94	11,717.80	11,679.94	19.61	17.70	-90.39	-582.91	-2,776.43	1,935.04	1,900.23	34.81	55.596	
11,900.00	11,779.94	11,817.80	11,779.94	19.67	17.78	-90.39	-582.91	-2,776.43	1,935.04	1,900.10	34.93	55.391	
11,988.93	11,868.87	11,906.85	11,868.87	19.71	17.82	-90.49	-586.28	-2,776.40	1,935.03	1,900.07	34.96	55.344	CC
12,000.00	11,879.94	11,917.83	11,879.78	19.72	17.82	-90.53	-587.57	-2,776.39	1,935.03	1,900.07	34.96	55.352	
12,100.00	11,979.48	12,015.63	11,975.25	19.84	17.85	89.60	-608.22	-2,776.21	1,935.09	1,900.21	34.88	55.474	
12,200.00	12,076.09	12,111.38	12,064.00	20.05	17.87	89.23	-643.87	-2,775.91	1,935.23	1,900.39	34.84	55.547	
12,300.00	12,166.83	12,205.31	12,144.11	20.32	17.89	88.88	-692.71	-2,775.48	1,935.45	1,900.58	34.87	55.507	
12,400.00	12,248.94	12,297.69	12,214.09	20.67	17.92	88.57	-752.86	-2,774.97	1,935.70	1,900.70	35.01	55.294	
12,500.00	12,319.94	12,388.75	12,272.74	21.11	17.95	88.30	-822.39	-2,774.37	1,935.98	1,900.68	35.30	54.846	
12,600.00	12,377.66	12,478.76	12,319.17	21.65	18.00	88.08	-899.38	-2,773.71	1,936.25	1,900.47	35.78	54.122	
12,700.00	12,420.35	12,567.96	12,352.74	22.29	18.07	87.91	-981.93	-2,772.99	1,936.48	1,900.02	36.45	53.120	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 215H - 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
12,800.00	12,446.71	12,656.61	12,373.02	23.03	18.16	87.80	-1,068.14	-2,772.25	1,936.65	1,899.32	37.33	51.876	
12,900.04	12,455.95	12,745.43	12,379.79	23.86	18.29	87.75	-1,156.60	-2,771.49	1,936.75	1,898.36	38.39	50.455	
13,000.00	12,456.48	12,845.39	12,380.31	24.75	18.48	87.75	-1,256.55	-2,770.63	1,936.79	1,897.19	39.60	48.910	
13,100.00	12,457.00	12,945.39	12,380.84	25.69	18.72	87.75	-1,356.55	-2,769.77	1,936.83	1,895.87	40.95	47.292	
13,200.00	12,457.53	13,045.39	12,381.36	26.67	19.03	87.75	-1,456.54	-2,768.91	1,936.87	1,894.42	42.44	45.633	
13,300.00	12,458.05	13,145.39	12,381.88	27.68	19.42	87.75	-1,556.54	-2,768.05	1,936.90	1,892.85	44.06	43.962	
13,400.00	12,458.58	13,245.39	12,382.41	28.73	19.90	87.75	-1,656.53	-2,767.19	1,936.94	1,891.16	45.78	42.306	
13,500.00	12,459.11	13,345.39	12,382.93	29.80	20.47	87.75	-1,756.53	-2,766.33	1,936.98	1,889.37	47.61	40.684	
13,600.00	12,459.63	13,445.39	12,383.45	30.90	21.13	87.75	-1,856.52	-2,765.46	1,937.02	1,887.49	49.53	39.111	
13,700.00	12,460.16	13,545.39	12,383.98	32.01	21.86	87.75	-1,956.52	-2,764.60	1,937.06	1,885.54	51.52	37.597	
13,800.00	12,460.69	13,645.39	12,384.50	33.15	22.66	87.75	-2,056.51	-2,763.74	1,937.10	1,883.51	53.59	36.148	
13,900.00	12,461.21	13,745.39	12,385.02	34.30	23.52	87.75	-2,156.51	-2,762.88	1,937.14	1,881.42	55.72	34.768	
14,000.00	12,461.74	13,845.39	12,385.55	35.46	24.44	87.75	-2,256.50	-2,762.02	1,937.17	1,879.28	57.90	33.458	
14,100.00	12,462.26	13,945.39	12,386.07	36.64	25.40	87.75	-2,356.50	-2,761.16	1,937.21	1,877.08	60.13	32.216	
14,200.00	12,462.79	14,045.39	12,386.59	37.84	26.40	87.75	-2,456.49	-2,760.30	1,937.25	1,874.84	62.41	31.042	
14,300.00	12,463.32	14,145.39	12,387.12	39.04	27.44	87.75	-2,556.49	-2,759.44	1,937.29	1,872.57	64.72	29.933	
14,400.00	12,463.84	14,245.39	12,387.64	40.25	28.51	87.75	-2,656.48	-2,758.58	1,937.33	1,870.26	67.07	28.885	
14,500.00	12,464.37	14,345.39	12,388.16	41.48	29.60	87.75	-2,756.48	-2,757.72	1,937.37	1,867.92	69.45	27.896	
14,600.00	12,464.90	14,445.39	12,388.69	42.71	30.72	87.75	-2,856.47	-2,756.86	1,937.41	1,865.55	71.86	26.963	
14,700.00	12,465.42	14,545.39	12,389.21	43.95	31.86	87.75	-2,956.47	-2,755.99	1,937.44	1,863.16	74.29	26.081	
14,800.00	12,465.95	14,645.39	12,389.73	45.19	33.01	87.75	-3,056.46	-2,755.13	1,937.48	1,860.74	76.74	25.248	
14,900.00	12,466.47	14,745.39	12,390.26	46.45	34.19	87.75	-3,156.46	-2,754.27	1,937.52	1,858.31	79.21	24.460	
15,000.00	12,467.00	14,845.39	12,390.78	47.71	35.38	87.75	-3,256.45	-2,753.41	1,937.56	1,855.86	81.70	23.715	
15,100.00	12,467.53	14,945.39	12,391.30	48.97	36.58	87.75	-3,356.45	-2,752.55	1,937.60	1,853.39	84.21	23.010	
15,200.00	12,468.05	15,045.39	12,391.82	50.24	37.79	87.75	-3,456.44	-2,751.69	1,937.64	1,850.91	86.73	22.341	
15,300.00	12,468.58	15,145.39	12,392.35	51.52	39.02	87.75	-3,556.44	-2,750.83	1,937.68	1,848.41	89.26	21.707	
15,400.00	12,469.10	15,245.39	12,392.87	52.80	40.25	87.75	-3,656.43	-2,749.97	1,937.71	1,845.90	91.81	21.105	
15,500.00	12,469.63	15,345.39	12,393.39	54.08	41.49	87.75	-3,756.43	-2,749.11	1,937.75	1,843.38	94.37	20.534	
15,600.00	12,470.16	15,445.39	12,393.92	55.37	42.74	87.75	-3,856.42	-2,748.25	1,937.79	1,840.85	96.94	19.990	
15,700.00	12,470.68	15,545.39	12,394.44	56.66	44.00	87.75	-3,956.42	-2,747.38	1,937.83	1,838.32	99.52	19.473	
15,800.00	12,471.21	15,645.39	12,394.96	57.95	45.27	87.75	-4,056.41	-2,746.52	1,937.87	1,835.77	102.10	18.980	
15,900.00	12,471.74	15,745.39	12,395.49	59.25	46.54	87.75	-4,156.41	-2,745.66	1,937.91	1,833.21	104.70	18.510	
16,000.00	12,472.26	15,845.39	12,396.01	60.55	47.82	87.75	-4,256.40	-2,744.80	1,937.95	1,830.65	107.30	18.061	
16,100.00	12,472.79	15,945.39	12,396.53	61.86	49.10	87.75	-4,356.40	-2,743.94	1,937.98	1,828.08	109.91	17.633	
16,200.00	12,473.31	16,045.39	12,397.06	63.16	50.38	87.75	-4,456.39	-2,743.08	1,938.02	1,825.50	112.52	17.224	
16,300.00	12,473.84	16,145.39	12,397.58	64.47	51.67	87.75	-4,556.39	-2,742.22	1,938.06	1,822.92	115.14	16.832	
16,400.00	12,474.37	16,245.39	12,398.10	65.78	52.97	87.74	-4,656.38	-2,741.36	1,938.10	1,820.33	117.77	16.457	
16,500.00	12,474.89	16,345.39	12,398.63	67.10	54.27	87.74	-4,756.38	-2,740.50	1,938.14	1,817.74	120.40	16.098	
16,600.00	12,475.42	16,445.39	12,399.15	68.41	55.57	87.74	-4,856.37	-2,739.64	1,938.18	1,815.14	123.04	15.753	
16,700.00	12,475.94	16,545.39	12,399.67	69.73	56.87	87.74	-4,956.37	-2,738.78	1,938.22	1,812.54	125.68	15.422	
16,800.00	12,476.47	16,645.39	12,400.20	71.05	58.18	87.74	-5,056.36	-2,737.91	1,938.25	1,809.93	128.32	15.105	
16,900.00	12,477.00	16,745.39	12,400.72	72.37	59.49	87.74	-5,156.36	-2,737.05	1,938.29	1,807.32	130.97	14.800	
17,000.00	12,477.52	16,845.39	12,401.24	73.70	60.81	87.74	-5,256.35	-2,736.19	1,938.33	1,804.71	133.62	14.506	
17,100.00	12,478.05	16,945.39	12,401.77	75.02	62.12	87.74	-5,356.35	-2,735.33	1,938.37	1,802.09	136.28	14.224	
17,200.00	12,478.58	17,045.39	12,402.29	76.35	63.44	87.74	-5,456.34	-2,734.47	1,938.41	1,799.47	138.94	13.952	
17,300.00	12,479.10	17,145.39	12,402.81	77.68	64.76	87.74	-5,556.34	-2,733.61	1,938.45	1,796.85	141.60	13.690	
17,400.00	12,479.63	17,245.39	12,403.34	79.01	66.09	87.74	-5,656.33	-2,732.75	1,938.49	1,794.22	144.26	13.437	
17,500.00	12,480.15	17,345.39	12,403.86	80.34	67.41	87.74	-5,756.33	-2,731.89	1,938.52	1,791.59	146.93	13.193	
17,600.00	12,480.68	17,445.39	12,404.38	81.67	68.74	87.74	-5,856.32	-2,731.03	1,938.56	1,788.96	149.60	12.958	
17,700.00	12,481.21	17,545.39	12,404.91	83.00	70.06	87.74	-5,956.32	-2,730.17	1,938.60	1,786.33	152.27	12.731	
17,800.00	12,481.73	17,645.39	12,405.43	84.34	71.39	87.74	-6,056.31	-2,729.30	1,938.64	1,783.69	154.95	12.511	
17,900.00	12,482.26	17,745.39	12,405.95	85.67	72.73	87.74	-6,156.31	-2,728.44	1,938.68	1,781.05	157.63	12.299	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 215H - 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
18,000.00	12,482.79	17,845.39	12,406.48	87.01	74.06	87.74	-6,256.30	-2,727.58	1,938.72	1,778.41	160.31	12.094	
18,100.00	12,483.31	17,945.39	12,407.00	88.35	75.39	87.74	-6,356.30	-2,726.72	1,938.76	1,775.77	162.99	11.895	
18,200.00	12,483.84	18,045.39	12,407.52	89.68	76.73	87.74	-6,456.29	-2,725.86	1,938.79	1,773.12	165.67	11.703	
18,300.00	12,484.36	18,145.39	12,408.05	91.02	78.06	87.74	-6,556.29	-2,725.00	1,938.83	1,770.48	168.35	11.516	
18,400.00	12,484.89	18,245.39	12,408.57	92.36	79.40	87.74	-6,656.28	-2,724.14	1,938.87	1,767.83	171.04	11.336	
18,500.00	12,485.42	18,345.39	12,409.09	93.70	80.74	87.74	-6,756.28	-2,723.28	1,938.91	1,765.18	173.73	11.161	
18,600.00	12,485.94	18,445.39	12,409.62	95.05	82.08	87.74	-6,856.27	-2,722.42	1,938.95	1,762.53	176.42	10.991	
18,700.00	12,486.47	18,545.39	12,410.14	96.39	83.42	87.74	-6,956.26	-2,721.56	1,938.99	1,759.88	179.11	10.826	
18,800.00	12,486.99	18,645.39	12,410.66	97.73	84.76	87.74	-7,056.26	-2,720.70	1,939.03	1,757.22	181.80	10.666	
18,900.00	12,487.52	18,745.39	12,411.19	99.07	86.10	87.74	-7,156.25	-2,719.83	1,939.06	1,754.57	184.50	10.510	
19,000.00	12,488.05	18,845.39	12,411.71	100.42	87.45	87.74	-7,256.25	-2,718.97	1,939.10	1,751.91	187.19	10.359	
19,100.00	12,488.57	18,945.39	12,412.23	101.76	88.79	87.74	-7,356.24	-2,718.11	1,939.14	1,749.25	189.89	10.212	
19,200.00	12,489.10	19,045.39	12,412.76	103.11	90.14	87.74	-7,456.24	-2,717.25	1,939.18	1,746.60	192.59	10.069	
19,300.00	12,489.63	19,145.39	12,413.28	104.46	91.48	87.74	-7,556.23	-2,716.39	1,939.22	1,743.94	195.28	9.930	
19,400.00	12,490.15	19,245.39	12,413.80	105.80	92.83	87.74	-7,656.23	-2,715.53	1,939.26	1,741.27	197.98	9.795	
19,500.00	12,490.68	19,345.39	12,414.33	107.15	94.18	87.74	-7,756.22	-2,714.67	1,939.30	1,738.61	200.68	9.663	
19,600.00	12,491.20	19,445.39	12,414.85	108.50	95.52	87.74	-7,856.22	-2,713.81	1,939.33	1,735.95	203.39	9.535	
19,700.00	12,491.73	19,545.39	12,415.37	109.85	96.87	87.74	-7,956.21	-2,712.95	1,939.37	1,733.28	206.09	9.410	
19,800.00	12,492.26	19,645.39	12,415.90	111.20	98.22	87.74	-8,056.21	-2,712.09	1,939.41	1,730.62	208.79	9.289	
19,900.00	12,492.78	19,745.39	12,416.42	112.55	99.57	87.74	-8,156.20	-2,711.23	1,939.45	1,727.95	211.50	9.170	
20,000.00	12,493.31	19,845.39	12,416.94	113.90	100.92	87.74	-8,256.20	-2,710.36	1,939.49	1,725.29	214.20	9.054	
20,100.00	12,493.84	19,945.39	12,417.47	115.25	102.27	87.74	-8,356.19	-2,709.50	1,939.53	1,722.62	216.91	8.942	
20,200.00	12,494.36	20,045.39	12,417.99	116.60	103.62	87.74	-8,456.19	-2,708.64	1,939.57	1,719.95	219.62	8.832	
20,300.00	12,494.89	20,145.39	12,418.51	117.95	104.97	87.74	-8,556.18	-2,707.78	1,939.60	1,717.28	222.32	8.724	
20,400.00	12,495.41	20,245.39	12,419.04	119.30	106.32	87.74	-8,656.18	-2,706.92	1,939.64	1,714.61	225.03	8.619	
20,500.00	12,495.94	20,345.39	12,419.56	120.65	107.68	87.74	-8,756.17	-2,706.06	1,939.68	1,711.94	227.74	8.517	
20,600.00	12,496.47	20,445.39	12,420.08	122.01	109.03	87.74	-8,856.17	-2,705.20	1,939.72	1,709.27	230.45	8.417	
20,700.00	12,496.99	20,545.39	12,420.60	123.36	110.38	87.74	-8,956.16	-2,704.34	1,939.76	1,706.60	233.16	8.319	
20,800.00	12,497.52	20,645.39	12,421.13	124.71	111.74	87.74	-9,056.16	-2,703.48	1,939.80	1,703.93	235.87	8.224	
20,900.00	12,498.04	20,745.39	12,421.65	126.07	113.09	87.74	-9,156.15	-2,702.62	1,939.84	1,701.25	238.58	8.131	
21,000.00	12,498.57	20,845.39	12,422.17	127.42	114.44	87.74	-9,256.15	-2,701.75	1,939.88	1,698.58	241.30	8.039	
21,100.00	12,499.10	20,945.39	12,422.70	128.77	115.80	87.74	-9,356.14	-2,700.89	1,939.91	1,695.91	244.01	7.950	
21,200.00	12,499.62	21,045.39	12,423.22	130.13	117.15	87.74	-9,456.14	-2,700.03	1,939.95	1,693.23	246.72	7.863	
21,300.00	12,500.15	21,145.39	12,423.74	131.48	118.51	87.74	-9,556.13	-2,699.17	1,939.99	1,690.56	249.44	7.778	
21,400.00	12,500.68	21,245.39	12,424.27	132.84	119.87	87.74	-9,656.13	-2,698.31	1,940.03	1,687.88	252.15	7.694	
21,500.00	12,501.20	21,345.39	12,424.79	134.20	121.22	87.74	-9,756.12	-2,697.45	1,940.07	1,685.20	254.86	7.612	
21,600.00	12,501.73	21,445.39	12,425.31	135.55	122.58	87.74	-9,856.12	-2,696.59	1,940.11	1,682.53	257.58	7.532	
21,700.00	12,502.25	21,545.39	12,425.84	136.91	123.94	87.74	-9,956.11	-2,695.73	1,940.15	1,679.85	260.30	7.454	
21,800.00	12,502.78	21,645.39	12,426.36	138.26	125.29	87.74	-10,056.11	-2,694.87	1,940.18	1,677.17	263.01	7.377	
21,900.00	12,503.31	21,745.39	12,426.88	139.62	126.65	87.74	-10,156.10	-2,694.01	1,940.22	1,674.49	265.73	7.302	
22,000.00	12,503.83	21,845.39	12,427.41	140.98	128.01	87.74	-10,256.10	-2,693.15	1,940.26	1,671.82	268.45	7.228	
22,100.00	12,504.36	21,945.39	12,427.93	142.33	129.36	87.74	-10,356.09	-2,692.28	1,940.30	1,669.14	271.16	7.155	
22,200.00	12,504.89	22,045.39	12,428.45	143.69	130.72	87.74	-10,456.09	-2,691.42	1,940.34	1,666.46	273.88	7.085	
22,300.00	12,505.41	22,145.39	12,428.98	145.05	132.08	87.74	-10,556.08	-2,690.56	1,940.38	1,663.78	276.60	7.015	
22,400.00	12,505.94	22,245.39	12,429.50	146.41	133.44	87.74	-10,656.08	-2,689.70	1,940.42	1,661.10	279.32	6.947	
22,500.00	12,506.46	22,345.39	12,430.02	147.76	134.80	87.74	-10,756.07	-2,688.84	1,940.45	1,658.42	282.04	6.880	
22,600.00	12,506.99	22,445.39	12,430.55	149.12	136.16	87.74	-10,856.07	-2,687.98	1,940.49	1,655.74	284.76	6.815	
22,700.00	12,507.52	22,545.39	12,431.07	150.48	137.52	87.74	-10,956.06	-2,687.12	1,940.53	1,653.06	287.48	6.750	
22,800.00	12,508.04	22,645.39	12,431.59	151.84	138.88	87.74	-11,056.06	-2,686.26	1,940.57	1,650.37	290.20	6.687	
22,830.04	12,508.20	22,675.33	12,431.75	152.25	139.28	87.74	-11,086.00	-2,686.00	1,940.58	1,649.57	291.01	6.668	ES, SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	1.00	0.00	0.50	0.50	-26.57	50.00	-25.00	55.90				
100.00	100.00	101.00	100.00	0.98	0.99	-26.57	50.00	-25.00	55.90	53.93	1.97	28.410	
200.00	200.00	201.00	200.00	1.56	1.57	-26.57	50.00	-25.00	55.90	52.78	3.13	17.881	
300.00	300.00	301.00	300.00	1.98	1.98	-26.57	50.00	-25.00	55.90	51.94	3.97	14.096	
400.00	400.00	401.00	400.00	2.33	2.33	-26.57	50.00	-25.00	55.90	51.24	4.66	11.991	
500.00	500.00	501.00	500.00	2.63	2.64	-26.57	50.00	-25.00	55.90	50.63	5.27	10.604	CC, ES
600.00	599.99	600.99	599.99	2.97	2.91	134.38	50.00	-25.00	56.81	50.96	5.85	9.719	
700.00	699.91	700.92	699.92	3.26	3.17	137.05	50.00	-25.00	59.62	53.25	6.37	9.360	
800.00	799.69	802.26	801.24	3.54	3.45	140.54	48.64	-25.10	63.33	56.42	6.91	9.168	
900.00	899.32	903.68	902.58	3.65	3.71	143.89	44.59	-25.41	66.40	59.13	7.27	9.132	
1,000.00	998.94	1,003.60	1,002.36	3.87	3.90	146.66	39.37	-25.80	68.63	60.94	7.69	8.926	
1,100.00	1,098.56	1,103.52	1,102.15	4.07	4.09	149.24	34.16	-26.20	71.00	62.90	8.10	8.769	
1,200.00	1,198.18	1,203.44	1,201.94	4.28	4.27	151.66	28.94	-26.59	73.51	65.02	8.49	8.654	
1,300.00	1,297.78	1,304.35	1,302.68	4.39	4.36	147.90	23.31	-27.09	75.85	67.14	8.70	8.717	
1,400.00	1,397.24	1,406.16	1,404.17	4.60	4.59	141.44	15.32	-28.23	76.55	67.40	9.14	8.372	
1,500.00	1,496.46	1,507.17	1,504.63	4.82	4.72	139.30	4.99	-30.02	75.87	66.38	9.49	7.997	
1,531.72	1,527.87	1,538.79	1,536.07	4.89	4.78	139.42	1.61	-30.62	75.79	66.17	9.62	7.877	
1,600.00	1,595.38	1,606.79	1,603.67	5.04	4.91	140.81	-5.68	-31.92	76.24	66.33	9.91	7.693	
1,700.00	1,693.92	1,706.18	1,702.46	5.27	5.09	145.02	-16.32	-33.82	78.92	68.59	10.33	7.641	
1,800.00	1,792.04	1,805.24	1,800.94	5.49	5.28	150.76	-26.93	-35.71	84.68	73.95	10.73	7.889	
1,900.00	1,889.64	1,903.92	1,899.03	5.71	5.46	156.87	-37.50	-37.59	94.06	82.94	11.13	8.455	
2,000.00	1,986.68	2,002.16	1,996.68	5.94	5.65	162.55	-48.02	-39.46	107.26	95.76	11.50	9.323	
2,100.00	2,083.28	2,100.04	2,093.99	6.11	5.83	168.43	-58.50	-41.33	123.48	111.67	11.81	10.456	
2,200.00	2,179.88	2,197.91	2,191.28	6.34	6.01	173.20	-68.99	-43.20	140.87	128.71	12.16	11.581	
2,300.00	2,276.47	2,295.79	2,288.57	6.61	6.19	176.92	-79.47	-45.06	159.00	146.48	12.52	12.695	
2,400.00	2,373.06	2,393.66	2,385.86	6.90	6.38	179.88	-89.95	-46.93	177.65	164.76	12.89	13.779	
2,500.00	2,469.65	2,491.53	2,483.15	7.20	6.56	-177.73	-100.43	-48.80	196.68	183.41	13.27	14.823	
2,600.00	2,566.24	2,589.41	2,580.45	7.50	6.74	-175.77	-110.91	-50.66	215.97	202.32	13.65	15.824	
2,700.00	2,662.84	2,687.28	2,677.74	7.82	6.92	-174.12	-121.40	-52.53	235.47	221.44	14.03	16.779	
2,800.00	2,759.43	2,785.15	2,775.03	8.13	7.11	-172.73	-131.88	-54.40	255.13	240.71	14.42	17.689	
2,900.00	2,856.02	2,883.03	2,872.32	8.45	7.29	-171.53	-142.36	-56.26	274.92	260.10	14.82	18.554	
3,000.00	2,952.61	2,980.90	2,969.62	8.78	7.47	-170.50	-152.84	-58.13	294.81	279.59	15.21	19.378	
3,100.00	3,049.20	3,078.77	3,066.91	9.10	7.65	-169.59	-163.32	-60.00	314.77	299.16	15.61	20.161	
3,200.00	3,145.79	3,176.65	3,164.20	9.43	7.83	-168.80	-173.81	-61.86	334.80	318.79	16.01	20.906	
3,300.00	3,242.39	3,274.52	3,261.49	9.77	8.01	-168.09	-184.29	-63.73	354.89	338.47	16.42	21.616	
3,400.00	3,338.98	3,372.39	3,358.79	10.10	8.20	-167.46	-194.77	-65.60	375.02	358.20	16.82	22.291	
3,500.00	3,435.57	3,470.27	3,456.08	10.44	8.38	-166.90	-205.25	-67.47	395.20	377.97	17.23	22.934	
3,600.00	3,532.16	3,568.14	3,553.37	10.78	8.56	-166.39	-215.74	-69.33	415.40	397.76	17.64	23.548	
3,700.00	3,628.75	3,666.01	3,650.66	11.12	8.74	-165.92	-226.22	-71.20	435.64	417.59	18.05	24.133	
3,800.00	3,725.34	3,763.89	3,747.96	11.46	8.92	-165.50	-236.70	-73.07	455.90	437.44	18.46	24.692	
3,900.00	3,821.94	3,861.76	3,845.25	11.80	9.10	-165.11	-247.18	-74.93	476.18	457.30	18.88	25.227	
4,000.00	3,918.53	3,959.63	3,942.54	12.14	9.28	-164.76	-257.66	-76.80	496.48	477.19	19.29	25.737	
4,100.00	4,015.12	4,057.50	4,039.83	12.49	9.46	-164.43	-268.15	-78.67	516.80	497.09	19.71	26.226	
4,200.00	4,111.71	4,155.38	4,137.12	12.83	9.65	-164.13	-278.63	-80.53	537.13	517.01	20.12	26.694	
4,300.00	4,208.30	4,253.25	4,234.42	13.18	9.83	-163.85	-289.11	-82.40	557.48	536.94	20.54	27.143	
4,400.00	4,304.90	4,351.12	4,331.71	13.53	10.01	-163.59	-299.59	-84.27	577.84	556.88	20.96	27.574	
4,500.00	4,401.49	4,449.00	4,429.00	13.88	10.19	-163.34	-310.07	-86.13	598.21	576.83	21.37	27.987	
4,600.00	4,498.08	4,546.87	4,526.29	14.23	10.37	-163.12	-320.56	-88.00	618.58	596.79	21.79	28.384	
4,700.00	4,594.67	4,644.74	4,623.59	14.58	10.55	-162.90	-331.04	-89.87	638.97	616.76	22.21	28.765	
4,800.00	4,691.26	4,742.62	4,720.88	14.93	10.73	-162.71	-341.52	-91.73	659.36	636.73	22.63	29.136	
4,900.00	4,788.20	4,840.73	4,818.41	15.26	10.91	-162.57	-352.03	-93.61	678.49	655.43	23.06	29.420	
5,000.00	4,885.74	4,939.28	4,916.37	15.57	11.10	-162.37	-362.58	-95.49	695.17	671.69	23.49	29.596	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
5,100.00	4,983.82	5,038.17	5,014.68	15.85	11.28	-162.11	-373.17	-97.37	709.41	685.50	23.91	29.671	
5,200.00	5,082.39	5,137.36	5,113.28	16.10	11.46	-161.78	-383.80	-99.26	721.21	696.88	24.32	29.650	
5,300.00	5,181.35	5,236.77	5,212.10	16.32	11.65	-161.39	-394.44	-101.16	730.56	705.83	24.73	29.541	
5,400.00	5,280.66	5,336.33	5,311.06	16.52	11.83	-160.94	-405.11	-103.06	737.49	712.37	25.13	29.349	
5,500.00	5,380.25	5,435.97	5,410.12	16.68	12.02	-160.41	-415.78	-104.96	742.02	716.50	25.52	29.081	
5,600.00	5,480.03	5,535.63	5,509.18	16.82	12.20	-159.81	-426.45	-106.86	744.15	718.26	25.89	28.741	
5,700.00	5,579.96	5,635.23	5,608.20	16.93	12.38	-159.13	-437.12	-108.76	743.92	717.67	26.25	28.339	
5,800.00	5,679.94	5,734.72	5,707.09	16.99	12.57	80.53	-447.77	-110.66	741.37	714.83	26.54	27.938	
5,900.00	5,779.94	5,834.13	5,805.91	17.03	12.75	81.33	-458.42	-112.55	737.78	711.00	26.77	27.555	
6,000.00	5,879.94	5,933.53	5,904.73	17.07	12.94	82.13	-469.07	-114.45	734.33	707.31	27.01	27.184	
6,100.00	5,979.94	6,032.94	6,003.54	17.10	13.12	82.93	-479.71	-116.35	731.03	703.77	27.25	26.823	
6,200.00	6,079.94	6,132.35	6,102.36	17.14	13.30	83.75	-490.36	-118.24	727.87	700.38	27.50	26.473	
6,300.00	6,179.94	6,231.75	6,201.18	17.17	13.49	84.57	-501.00	-120.14	724.87	697.13	27.74	26.133	
6,400.00	6,279.94	6,331.16	6,299.99	17.21	13.67	85.39	-511.65	-122.04	722.01	694.03	27.98	25.803	
6,500.00	6,379.94	6,430.57	6,398.81	17.25	13.86	86.23	-522.30	-123.93	719.31	691.09	28.23	25.484	
6,600.00	6,479.94	6,529.97	6,497.63	17.29	14.04	87.07	-532.94	-125.83	716.77	688.30	28.47	25.174	
6,700.00	6,579.94	6,628.88	6,595.95	17.32	14.21	87.91	-543.52	-127.71	714.39	685.68	28.71	24.886	
6,800.00	6,679.94	6,724.76	6,691.41	17.36	14.39	88.61	-552.30	-129.27	712.47	683.55	28.92	24.640	
6,900.00	6,779.94	6,821.03	6,787.45	17.40	14.56	89.12	-558.74	-130.42	711.14	682.03	29.11	24.432	
7,000.00	6,879.94	6,917.57	6,883.90	17.44	14.73	89.45	-562.80	-131.15	710.34	681.07	29.27	24.267	
7,100.00	6,979.94	7,014.25	6,980.57	17.48	14.86	89.58	-564.47	-131.44	710.02	680.62	29.40	24.151	
7,141.18	7,021.12	7,054.81	7,021.12	17.49	14.87	89.59	-564.51	-131.45	710.01	680.59	29.42	24.136	
7,200.00	7,079.94	7,113.63	7,079.94	17.52	14.88	89.59	-564.51	-131.45	710.01	680.56	29.44	24.114	
7,300.00	7,179.94	7,213.63	7,179.94	17.56	14.90	89.59	-564.51	-131.45	710.01	680.50	29.51	24.064	
7,400.00	7,279.94	7,313.63	7,279.94	17.60	14.93	89.59	-564.51	-131.45	710.01	680.44	29.57	24.012	
7,500.00	7,379.94	7,413.63	7,379.94	17.64	14.96	89.59	-564.51	-131.45	710.01	680.38	29.63	23.961	
7,600.00	7,479.94	7,513.63	7,479.94	17.68	14.98	89.59	-564.51	-131.45	710.01	680.31	29.70	23.909	
7,700.00	7,579.94	7,613.63	7,579.94	17.72	15.01	89.59	-564.51	-131.45	710.01	680.25	29.76	23.856	
7,800.00	7,679.94	7,713.63	7,679.94	17.76	15.04	89.59	-564.51	-131.45	710.01	680.18	29.83	23.804	
7,900.00	7,779.94	7,813.63	7,779.94	17.80	15.07	89.59	-564.51	-131.45	710.01	680.11	29.89	23.751	
8,000.00	7,879.94	7,913.63	7,879.94	17.84	15.09	89.59	-564.51	-131.45	710.01	680.05	29.96	23.697	
8,100.00	7,979.94	8,013.63	7,979.94	17.88	15.12	89.59	-564.51	-131.45	710.01	679.98	30.03	23.643	
8,200.00	8,079.94	8,113.63	8,079.94	17.93	15.15	89.59	-564.51	-131.45	710.01	679.91	30.10	23.589	
8,300.00	8,179.94	8,213.63	8,179.94	17.97	15.18	89.59	-564.51	-131.45	710.01	679.84	30.17	23.535	
8,400.00	8,279.94	8,313.63	8,279.94	18.01	15.21	89.59	-564.51	-131.45	710.01	679.77	30.24	23.480	
8,500.00	8,379.94	8,413.63	8,379.94	18.05	15.24	89.59	-564.51	-131.45	710.01	679.70	30.31	23.425	
8,600.00	8,479.94	8,513.63	8,479.94	18.10	15.27	89.59	-564.51	-131.45	710.01	679.63	30.38	23.370	
8,700.00	8,579.94	8,613.63	8,579.94	18.14	15.30	89.59	-564.51	-131.45	710.01	679.55	30.45	23.314	
8,800.00	8,679.94	8,713.63	8,679.94	18.18	15.33	89.59	-564.51	-131.45	710.01	679.48	30.53	23.259	
8,900.00	8,779.94	8,813.63	8,779.94	18.23	15.37	89.59	-564.51	-131.45	710.01	679.41	30.60	23.203	
9,000.00	8,879.94	8,913.63	8,879.94	18.27	15.40	89.59	-564.51	-131.45	710.01	679.33	30.67	23.146	
9,100.00	8,979.94	9,013.63	8,979.94	18.32	15.43	89.59	-564.51	-131.45	710.01	679.26	30.75	23.090	
9,200.00	9,079.94	9,113.63	9,079.94	18.36	15.46	89.59	-564.51	-131.45	710.01	679.18	30.83	23.033	
9,300.00	9,179.94	9,213.63	9,179.94	18.41	15.50	89.59	-564.51	-131.45	710.01	679.11	30.90	22.976	
9,400.00	9,279.94	9,313.63	9,279.94	18.45	15.53	89.59	-564.51	-131.45	710.01	679.03	30.98	22.919	
9,500.00	9,379.94	9,413.63	9,379.94	18.50	15.56	89.59	-564.51	-131.45	710.01	678.95	31.06	22.861	
9,600.00	9,479.94	9,513.63	9,479.94	18.54	15.60	89.59	-564.51	-131.45	710.01	678.87	31.14	22.803	
9,700.00	9,579.94	9,613.63	9,579.94	18.59	15.63	89.59	-564.51	-131.45	710.01	678.79	31.22	22.746	
9,800.00	9,679.94	9,713.63	9,679.94	18.64	15.67	89.59	-564.51	-131.45	710.01	678.71	31.30	22.688	
9,900.00	9,779.94	9,813.63	9,779.94	18.68	15.70	89.59	-564.51	-131.45	710.01	678.63	31.38	22.629	
10,000.00	9,879.94	9,913.63	9,879.94	18.73	15.74	89.59	-564.51	-131.45	710.01	678.55	31.46	22.571	
10,100.00	9,979.94	10,013.63	9,979.94	18.78	15.78	89.59	-564.51	-131.45	710.01	678.47	31.54	22.513	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
10,200.00	10,079.94	10,113.63	10,079.94	18.82	15.81	89.59	-564.51	-131.45	710.01	678.39	31.62	22.454	
10,300.00	10,179.94	10,213.63	10,179.94	18.87	15.85	89.59	-564.51	-131.45	710.01	678.30	31.70	22.395	
10,400.00	10,279.94	10,313.63	10,279.94	18.92	15.89	89.59	-564.51	-131.45	710.01	678.22	31.79	22.336	
10,500.00	10,379.94	10,413.63	10,379.94	18.97	15.92	89.59	-564.51	-131.45	710.01	678.14	31.87	22.277	
10,600.00	10,479.94	10,513.63	10,479.94	19.02	15.96	89.59	-564.51	-131.45	710.01	678.05	31.96	22.218	
10,700.00	10,579.94	10,613.63	10,579.94	19.07	16.00	89.59	-564.51	-131.45	710.01	677.97	32.04	22.159	
10,800.00	10,679.94	10,713.63	10,679.94	19.11	16.04	89.59	-564.51	-131.45	710.01	677.88	32.13	22.099	
10,900.00	10,779.94	10,813.63	10,779.94	19.16	16.08	89.59	-564.51	-131.45	710.01	677.79	32.21	22.040	
11,000.00	10,879.94	10,913.63	10,879.94	19.21	16.11	89.59	-564.51	-131.45	710.01	677.71	32.30	21.981	
11,100.00	10,979.94	11,013.63	10,979.94	19.26	16.15	89.59	-564.51	-131.45	710.01	677.62	32.39	21.921	
11,200.00	11,079.94	11,113.63	11,079.94	19.31	16.19	89.59	-564.51	-131.45	710.01	677.53	32.48	21.861	
11,300.00	11,179.94	11,213.63	11,179.94	19.36	16.23	89.59	-564.51	-131.45	710.01	677.44	32.57	21.802	
11,400.00	11,279.94	11,313.63	11,279.94	19.41	16.27	89.59	-564.51	-131.45	710.01	677.35	32.66	21.742	
11,500.00	11,379.94	11,413.63	11,379.94	19.46	16.31	89.59	-564.51	-131.45	710.01	677.26	32.75	21.682	
11,600.00	11,479.94	11,513.63	11,479.94	19.51	16.35	89.59	-564.51	-131.45	710.01	677.17	32.84	21.622	
11,700.00	11,579.94	11,613.63	11,579.94	19.56	16.40	89.59	-564.51	-131.45	710.01	677.08	32.93	21.562	
11,800.00	11,679.94	11,713.63	11,679.94	19.61	16.44	89.59	-564.51	-131.45	710.01	676.99	33.02	21.502	
11,900.00	11,779.94	11,813.63	11,779.94	19.67	16.48	89.59	-564.51	-131.45	710.01	676.90	33.11	21.443	
11,908.32	11,788.26	11,821.94	11,788.26	19.67	16.48	89.59	-564.51	-131.45	710.01	676.89	33.12	21.438	
12,000.00	11,879.94	11,913.56	11,879.87	19.72	16.54	89.62	-564.97	-131.45	710.01	676.81	33.20	21.383	
12,100.00	11,979.48	12,012.76	11,978.16	19.84	16.78	-89.50	-577.47	-131.33	710.04	676.65	33.39	21.268	
12,200.00	12,076.09	12,111.23	12,072.14	20.05	17.05	-89.16	-606.43	-131.07	710.09	676.31	33.78	21.022	
12,300.00	12,166.83	12,209.01	12,159.20	20.32	17.32	-88.84	-650.69	-130.67	710.16	675.76	34.40	20.645	
12,400.00	12,248.94	12,306.20	12,237.04	20.67	17.58	-88.56	-708.68	-130.14	710.25	674.99	35.26	20.145	
12,500.00	12,319.94	12,402.87	12,303.64	21.11	17.81	-88.32	-778.59	-129.50	710.33	673.97	36.36	19.536	
12,600.00	12,377.66	12,500.00	12,357.79	21.65	18.10	-88.13	-859.08	-128.77	710.41	672.70	37.71	18.838	
12,600.36	12,377.85	12,500.00	12,357.79	21.65	18.10	-88.13	-859.08	-128.77	710.41	672.70	37.71	18.837	
12,700.00	12,420.35	12,595.07	12,396.89	22.29	18.94	-87.99	-945.61	-127.99	710.48	671.22	39.26	18.098	
12,800.00	12,446.71	12,690.81	12,421.28	23.03	19.88	-87.92	-1,038.08	-127.15	710.52	669.53	40.99	17.335	
12,900.04	12,455.95	12,786.51	12,429.94	23.86	20.87	-87.90	-1,133.28	-126.28	710.54	667.70	42.84	16.586	
13,000.00	12,456.48	12,886.42	12,430.47	24.75	21.96	-87.90	-1,233.18	-125.37	710.55	665.68	44.87	15.835	
13,100.00	12,457.00	12,986.42	12,430.99	25.69	23.07	-87.90	-1,333.17	-124.46	710.56	663.58	46.98	15.126	
13,200.00	12,457.53	13,086.42	12,431.52	26.67	24.22	-87.90	-1,433.17	-123.55	710.57	661.42	49.14	14.459	
13,300.00	12,458.05	13,186.42	12,432.04	27.68	25.38	-87.90	-1,533.16	-122.65	710.57	659.21	51.36	13.834	
13,400.00	12,458.58	13,286.42	12,432.57	28.73	26.56	-87.90	-1,633.15	-121.74	710.58	656.95	53.63	13.249	
13,500.00	12,459.11	13,386.42	12,433.09	29.80	27.77	-87.90	-1,733.15	-120.83	710.59	654.65	55.94	12.702	
13,600.00	12,459.63	13,486.42	12,433.62	30.90	28.98	-87.90	-1,833.14	-119.92	710.60	652.31	58.29	12.191	
13,700.00	12,460.16	13,586.42	12,434.14	32.01	30.21	-87.90	-1,933.14	-119.01	710.61	649.94	60.67	11.713	
13,800.00	12,460.69	13,686.42	12,434.67	33.15	31.45	-87.90	-2,033.13	-118.10	710.62	647.55	63.08	11.266	
13,900.00	12,461.21	13,786.42	12,435.19	34.30	32.70	-87.90	-2,133.13	-117.19	710.63	645.12	65.51	10.848	
14,000.00	12,461.74	13,886.42	12,435.72	35.46	33.96	-87.90	-2,233.12	-116.28	710.64	642.67	67.97	10.455	
14,100.00	12,462.26	13,986.42	12,436.24	36.64	35.23	-87.90	-2,333.12	-115.37	710.65	640.20	70.45	10.088	
14,200.00	12,462.79	14,086.42	12,436.77	37.84	36.50	-87.90	-2,433.11	-114.47	710.66	637.72	72.94	9.743	
14,300.00	12,463.32	14,186.42	12,437.29	39.04	37.79	-87.90	-2,533.11	-113.56	710.67	635.21	75.46	9.418	
14,400.00	12,463.84	14,286.42	12,437.82	40.25	39.07	-87.90	-2,633.10	-112.65	710.68	632.69	77.98	9.113	
14,500.00	12,464.37	14,386.42	12,438.34	41.48	40.37	-87.90	-2,733.09	-111.74	710.69	630.16	80.53	8.826	
14,600.00	12,464.90	14,486.42	12,438.87	42.71	41.67	-87.90	-2,833.09	-110.83	710.70	627.62	83.08	8.554	
14,700.00	12,465.42	14,586.42	12,439.39	43.95	42.97	-87.90	-2,933.08	-109.92	710.71	625.06	85.65	8.298	
14,800.00	12,465.95	14,686.42	12,439.92	45.19	44.28	-87.90	-3,033.08	-109.01	710.72	622.49	88.22	8.056	
14,900.00	12,466.47	14,786.42	12,440.44	46.45	45.59	-87.90	-3,133.07	-108.10	710.73	619.92	90.81	7.827	
15,000.00	12,467.00	14,886.42	12,440.97	47.71	46.90	-87.90	-3,233.07	-107.19	710.74	617.33	93.40	7.609	
15,100.00	12,467.53	14,986.42	12,441.50	48.97	48.22	-87.90	-3,333.06	-106.29	710.75	614.74	96.00	7.403	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	12,468.05	15,086.42	12,442.02	50.24	49.54	-87.90	-3,433.06	-105.38	710.75	612.14	98.61	7.207	
15,300.00	12,468.58	15,186.42	12,442.55	51.52	50.86	-87.90	-3,533.05	-104.47	710.76	609.53	101.23	7.021	
15,400.00	12,469.10	15,286.42	12,443.07	52.80	52.18	-87.90	-3,633.04	-103.56	710.77	606.92	103.85	6.844	
15,500.00	12,469.63	15,386.42	12,443.60	54.08	53.51	-87.90	-3,733.04	-102.65	710.78	604.30	106.48	6.675	
15,600.00	12,470.16	15,486.42	12,444.12	55.37	54.84	-87.90	-3,833.03	-101.74	710.79	601.68	109.11	6.514	
15,700.00	12,470.68	15,586.42	12,444.65	56.66	56.17	-87.90	-3,933.03	-100.83	710.80	599.05	111.75	6.360	
15,800.00	12,471.21	15,686.42	12,445.17	57.95	57.50	-87.90	-4,033.02	-99.92	710.81	596.42	114.40	6.214	
15,900.00	12,471.74	15,786.42	12,445.70	59.25	58.84	-87.90	-4,133.02	-99.02	710.82	593.78	117.04	6.073	
16,000.00	12,472.26	15,886.42	12,446.22	60.55	60.17	-87.90	-4,233.01	-98.11	710.83	591.13	119.70	5.939	
16,100.00	12,472.79	15,986.42	12,446.75	61.86	61.51	-87.90	-4,333.01	-97.20	710.84	588.49	122.35	5.810	
16,200.00	12,473.31	16,086.42	12,447.27	63.16	62.85	-87.90	-4,433.00	-96.29	710.85	585.84	125.01	5.686	
16,300.00	12,473.84	16,186.42	12,447.80	64.47	64.19	-87.90	-4,533.00	-95.38	710.86	583.19	127.67	5.568	
16,400.00	12,474.37	16,286.42	12,448.32	65.78	65.53	-87.90	-4,632.99	-94.47	710.87	580.53	130.34	5.454	
16,500.00	12,474.89	16,386.42	12,448.85	67.10	66.87	-87.90	-4,732.98	-93.56	710.88	577.87	133.01	5.345	
16,600.00	12,475.42	16,486.42	12,449.37	68.41	68.22	-87.90	-4,832.98	-92.65	710.89	575.21	135.68	5.240	
16,700.00	12,475.94	16,586.42	12,449.90	69.73	69.56	-87.90	-4,932.97	-91.74	710.90	572.55	138.35	5.138	
16,800.00	12,476.47	16,686.42	12,450.42	71.05	70.91	-87.90	-5,032.97	-90.84	710.91	569.88	141.03	5.041	
16,900.00	12,477.00	16,786.42	12,450.95	72.37	72.25	-87.90	-5,132.96	-89.93	710.92	567.21	143.71	4.947	
17,000.00	12,477.52	16,886.42	12,451.47	73.70	73.60	-87.90	-5,232.96	-89.02	710.93	564.54	146.39	4.856	
17,100.00	12,478.05	16,986.42	12,452.00	75.02	74.95	-87.90	-5,332.95	-88.11	710.93	561.87	149.07	4.769	
17,200.00	12,478.58	17,086.42	12,452.52	76.35	76.30	-87.90	-5,432.95	-87.20	710.94	559.19	151.75	4.685	
17,300.00	12,479.10	17,186.42	12,453.05	77.68	77.65	-87.90	-5,532.94	-86.29	710.95	556.51	154.44	4.603	
17,400.00	12,479.63	17,286.42	12,453.57	79.01	79.00	-87.90	-5,632.93	-85.38	710.96	553.83	157.13	4.525	
17,500.00	12,480.15	17,386.42	12,454.10	80.34	80.35	-87.90	-5,732.93	-84.47	710.97	551.15	159.82	4.449	
17,600.00	12,480.68	17,486.42	12,454.62	81.67	81.70	-87.90	-5,832.92	-83.56	710.98	548.47	162.51	4.375	
17,700.00	12,481.21	17,586.42	12,455.15	83.00	83.05	-87.90	-5,932.92	-82.66	710.99	545.79	165.20	4.304	
17,800.00	12,481.73	17,686.42	12,455.67	84.34	84.40	-87.90	-6,032.91	-81.75	711.00	543.10	167.90	4.235	
17,900.00	12,482.26	17,786.42	12,456.20	85.67	85.76	-87.90	-6,132.91	-80.84	711.01	540.42	170.59	4.168	
18,000.00	12,482.79	17,886.42	12,456.72	87.01	87.11	-87.90	-6,232.90	-79.93	711.02	537.73	173.29	4.103	
18,100.00	12,483.31	17,986.42	12,457.25	88.35	88.46	-87.90	-6,332.90	-79.02	711.03	535.04	175.99	4.040	
18,200.00	12,483.84	18,086.42	12,457.77	89.68	89.82	-87.90	-6,432.89	-78.11	711.04	532.35	178.69	3.979	
18,300.00	12,484.36	18,186.42	12,458.30	91.02	91.17	-87.90	-6,532.88	-77.20	711.05	529.66	181.39	3.920	
18,400.00	12,484.89	18,286.42	12,458.82	92.36	92.53	-87.90	-6,632.88	-76.29	711.06	526.97	184.09	3.862	
18,500.00	12,485.42	18,386.42	12,459.35	93.70	93.89	-87.90	-6,732.87	-75.38	711.07	524.27	186.80	3.807	
18,600.00	12,485.94	18,486.42	12,459.87	95.05	95.24	-87.90	-6,832.87	-74.48	711.08	521.58	189.50	3.752	
18,700.00	12,486.47	18,586.42	12,460.40	96.39	96.60	-87.90	-6,932.86	-73.57	711.09	518.88	192.20	3.700	
18,800.00	12,486.99	18,686.42	12,460.92	97.73	97.96	-87.90	-7,032.86	-72.66	711.10	516.19	194.91	3.648	
18,900.00	12,487.52	18,786.42	12,461.45	99.07	99.31	-87.90	-7,132.85	-71.75	711.11	513.49	197.62	3.598	
19,000.00	12,488.05	18,886.42	12,461.97	100.42	100.67	-87.90	-7,232.85	-70.84	711.11	510.79	200.32	3.550	
19,100.00	12,488.57	18,986.42	12,462.50	101.76	102.03	-87.90	-7,332.84	-69.93	711.12	508.09	203.03	3.503	
19,200.00	12,489.10	19,086.42	12,463.02	103.11	103.39	-87.90	-7,432.84	-69.02	711.13	505.39	205.74	3.456	
19,300.00	12,489.63	19,186.42	12,463.55	104.46	104.75	-87.90	-7,532.83	-68.11	711.14	502.69	208.45	3.412	
19,400.00	12,490.15	19,286.42	12,464.07	105.80	106.11	-87.90	-7,632.82	-67.20	711.15	499.99	211.16	3.368	
19,500.00	12,490.68	19,386.42	12,464.60	107.15	107.46	-87.90	-7,732.82	-66.30	711.16	497.29	213.87	3.325	
19,600.00	12,491.20	19,486.42	12,465.12	108.50	108.82	-87.90	-7,832.81	-65.39	711.17	494.59	216.59	3.284	
19,700.00	12,491.73	19,586.42	12,465.65	109.85	110.18	-87.90	-7,932.81	-64.48	711.18	491.88	219.30	3.243	
19,800.00	12,492.26	19,686.42	12,466.17	111.20	111.54	-87.90	-8,032.80	-63.57	711.19	489.18	222.01	3.203	
19,900.00	12,492.78	19,786.42	12,466.70	112.55	112.90	-87.90	-8,132.80	-62.66	711.20	486.47	224.73	3.165	
20,000.00	12,493.31	19,886.42	12,467.22	113.90	114.26	-87.90	-8,232.79	-61.75	711.21	483.77	227.44	3.127	
20,100.00	12,493.84	19,986.42	12,467.75	115.25	115.62	-87.90	-8,332.79	-60.84	711.22	481.06	230.15	3.090	
20,200.00	12,494.36	20,086.42	12,468.27	116.60	116.99	-87.90	-8,432.78	-59.93	711.23	478.36	232.87	3.054	
20,300.00	12,494.89	20,186.42	12,468.80	117.95	118.35	-87.90	-8,532.77	-59.02	711.24	475.65	235.59	3.019	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	12,495.41	20,286.42	12,469.32	119.30	119.71	-87.90	-8,632.77	-58.12	711.25	472.95	238.30	2.985	
20,500.00	12,495.94	20,386.42	12,469.85	120.65	121.07	-87.90	-8,732.76	-57.21	711.26	470.24	241.02	2.951	
20,600.00	12,496.47	20,486.42	12,470.37	122.01	122.43	-87.90	-8,832.76	-56.30	711.27	467.53	243.74	2.918	
20,700.00	12,496.99	20,586.42	12,470.90	123.36	123.79	-87.90	-8,932.75	-55.39	711.28	464.82	246.45	2.886	
20,800.00	12,497.52	20,686.42	12,471.42	124.71	125.15	-87.90	-9,032.75	-54.48	711.29	462.11	249.17	2.855	
20,900.00	12,498.04	20,786.42	12,471.95	126.07	126.52	-87.90	-9,132.74	-53.57	711.29	459.40	251.89	2.824	
21,000.00	12,498.57	20,886.42	12,472.47	127.42	127.88	-87.90	-9,232.74	-52.66	711.30	456.69	254.61	2.794	
21,100.00	12,499.10	20,986.42	12,473.00	128.77	129.24	-87.90	-9,332.73	-51.75	711.31	453.98	257.33	2.764	
21,200.00	12,499.62	21,086.42	12,473.52	130.13	130.60	-87.90	-9,432.73	-50.85	711.32	451.27	260.05	2.735	
21,300.00	12,500.15	21,186.42	12,474.05	131.48	131.97	-87.90	-9,532.72	-49.94	711.33	448.56	262.77	2.707	
21,400.00	12,500.68	21,286.42	12,474.57	132.84	133.33	-87.90	-9,632.71	-49.03	711.34	445.85	265.49	2.679	
21,500.00	12,501.20	21,386.42	12,475.10	134.20	134.69	-87.90	-9,732.71	-48.12	711.35	443.14	268.21	2.652	
21,600.00	12,501.73	21,486.42	12,475.62	135.55	136.06	-87.90	-9,832.70	-47.21	711.36	440.43	270.93	2.626	
21,700.00	12,502.25	21,586.42	12,476.15	136.91	137.42	-87.90	-9,932.70	-46.30	711.37	437.72	273.65	2.600	
21,800.00	12,502.78	21,686.42	12,476.67	138.26	138.78	-87.90	-10,032.69	-45.39	711.38	435.00	276.38	2.574	
21,900.00	12,503.31	21,786.42	12,477.20	139.62	140.15	-87.90	-10,132.69	-44.48	711.39	432.29	279.10	2.549	
22,000.00	12,503.83	21,886.42	12,477.72	140.98	141.51	-87.90	-10,232.68	-43.57	711.40	429.58	281.82	2.524	
22,100.00	12,504.36	21,986.42	12,478.25	142.33	142.87	-87.90	-10,332.68	-42.67	711.41	426.86	284.54	2.500	
22,200.00	12,504.89	22,086.42	12,478.77	143.69	144.24	-87.90	-10,432.67	-41.76	711.42	424.15	287.27	2.477	
22,300.00	12,505.41	22,186.42	12,479.30	145.05	145.60	-87.90	-10,532.66	-40.85	711.43	421.44	289.99	2.453	
22,400.00	12,505.94	22,286.42	12,479.82	146.41	146.96	-87.90	-10,632.66	-39.94	711.44	418.72	292.71	2.430	
22,500.00	12,506.46	22,386.42	12,480.35	147.76	148.33	-87.90	-10,732.65	-39.03	711.45	416.01	295.44	2.408	
22,600.00	12,506.99	22,486.42	12,480.87	149.12	149.69	-87.90	-10,832.65	-38.12	711.46	413.29	298.16	2.386	
22,700.00	12,507.52	22,586.42	12,481.40	150.48	151.06	-87.90	-10,932.64	-37.21	711.47	410.58	300.89	2.365	
22,800.00	12,508.04	22,686.42	12,481.93	151.84	152.42	-87.90	-11,032.64	-36.30	711.47	407.86	303.61	2.343	
22,830.04	12,508.20	22,716.46	12,482.08	152.25	152.81	-87.90	-11,062.68	-36.03	711.48	407.07	304.40	2.337	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	Rule Assigned: Warning
1,600.00	1,595.38	1,796.82	1,794.56	5.04	5.31	24.59	-832.98	-2,347.36	2,432.18	2,421.99	10.19	238.698	
1,700.00	1,693.92	1,893.90	1,891.26	5.27	5.48	21.00	-833.27	-2,338.91	2,408.45	2,397.85	10.59	227.393	
1,800.00	1,792.04	1,990.32	1,987.32	5.49	5.66	18.27	-833.57	-2,330.51	2,382.18	2,371.19	10.99	216.681	
1,900.00	1,889.64	2,086.03	2,082.67	5.71	5.83	16.14	-833.86	-2,322.17	2,353.40	2,342.01	11.40	206.514	
2,000.00	1,986.68	2,180.96	2,177.23	5.94	6.00	14.43	-834.15	-2,313.90	2,322.13	2,310.33	11.80	196.755	
2,100.00	2,083.28	2,378.88	2,374.03	6.11	6.39	14.30	-832.95	-2,293.10	2,287.55	2,275.23	12.31	185.783	
2,200.00	2,179.88	2,600.25	2,592.65	6.34	6.86	14.59	-826.20	-2,259.14	2,247.64	2,234.74	12.90	174.216	
2,300.00	2,276.47	2,810.14	2,797.82	6.61	7.30	14.95	-814.51	-2,216.56	2,202.70	2,189.25	13.45	163.780	
2,400.00	2,373.06	2,947.29	2,930.55	6.90	7.58	15.23	-804.25	-2,183.60	2,153.84	2,139.96	13.88	155.183	
2,500.00	2,469.65	3,034.08	3,014.37	7.20	7.75	15.42	-797.46	-2,162.18	2,104.55	2,090.30	14.25	147.685	
2,600.00	2,566.24	3,120.86	3,098.20	7.50	7.91	15.63	-790.68	-2,140.77	2,055.29	2,040.66	14.63	140.532	
2,700.00	2,662.84	3,207.65	3,182.03	7.82	8.08	15.84	-783.90	-2,119.35	2,006.04	1,991.04	15.00	133.707	
2,800.00	2,759.43	3,294.43	3,265.86	8.13	8.25	16.06	-777.12	-2,097.94	1,956.82	1,941.43	15.39	127.187	
2,900.00	2,856.02	3,381.22	3,349.69	8.45	8.46	16.30	-770.33	-2,076.52	1,907.62	1,891.85	15.77	120.945	
3,000.00	2,952.61	3,468.01	3,433.52	8.78	8.71	16.54	-763.55	-2,055.11	1,858.44	1,842.28	16.16	115.002	
3,100.00	3,049.20	3,554.79	3,517.34	9.10	8.96	16.80	-756.77	-2,033.69	1,809.30	1,792.75	16.55	109.310	
3,200.00	3,145.79	3,641.58	3,601.17	9.43	9.21	17.08	-749.99	-2,012.28	1,760.18	1,743.23	16.95	103.865	
3,300.00	3,242.39	3,728.36	3,685.00	9.77	9.46	17.37	-743.20	-1,990.86	1,711.10	1,693.75	17.34	98.651	
3,400.00	3,338.98	3,815.15	3,768.83	10.10	9.72	17.67	-736.42	-1,969.45	1,662.05	1,644.30	17.75	93.658	
3,500.00	3,435.57	3,901.94	3,852.66	10.44	9.98	18.00	-729.64	-1,948.04	1,613.04	1,594.89	18.15	88.871	
3,600.00	3,532.16	3,988.72	3,936.49	10.78	10.25	18.34	-722.85	-1,926.62	1,564.07	1,545.52	18.56	84.281	
3,700.00	3,628.75	4,075.51	4,020.31	11.12	10.51	18.71	-716.07	-1,905.21	1,515.15	1,496.19	18.97	79.877	
3,800.00	3,725.34	4,162.29	4,104.14	11.46	10.78	19.10	-709.29	-1,883.79	1,466.28	1,446.90	19.38	75.648	
3,900.00	3,821.94	4,249.08	4,187.97	11.80	11.05	19.52	-702.51	-1,862.38	1,417.47	1,397.67	19.80	71.587	
4,000.00	3,918.53	4,335.87	4,271.80	12.14	11.32	19.97	-695.72	-1,840.96	1,368.72	1,348.50	20.22	67.684	
4,100.00	4,015.12	4,422.65	4,355.63	12.49	11.59	20.45	-688.94	-1,819.55	1,320.04	1,299.39	20.65	63.932	
4,200.00	4,111.71	4,509.44	4,439.46	12.83	11.87	20.97	-682.16	-1,798.13	1,271.44	1,250.36	21.08	60.322	
4,300.00	4,208.30	4,596.22	4,523.28	13.18	12.15	21.53	-675.38	-1,776.72	1,222.92	1,201.41	21.51	56.847	
4,400.00	4,304.90	4,683.01	4,607.11	13.53	12.42	22.13	-668.59	-1,755.30	1,174.50	1,152.55	21.95	53.501	
4,500.00	4,401.49	4,769.79	4,690.94	13.88	12.70	22.78	-661.81	-1,733.89	1,126.19	1,103.79	22.40	50.278	
4,600.00	4,498.08	4,856.58	4,774.77	14.23	12.98	23.50	-655.03	-1,712.47	1,078.01	1,055.15	22.85	47.173	
4,700.00	4,594.67	4,943.37	4,858.60	14.58	13.26	24.27	-648.25	-1,691.06	1,029.96	1,006.65	23.31	44.179	
4,800.00	4,691.26	5,030.15	4,942.43	14.93	13.55	25.11	-641.46	-1,669.64	982.08	958.30	23.78	41.296	
4,900.00	4,788.20	5,117.60	5,026.89	15.26	13.83	25.67	-634.63	-1,648.07	935.48	911.21	24.27	38.549	
5,000.00	4,885.74	5,206.28	5,112.55	15.57	14.12	26.25	-627.70	-1,626.18	891.16	866.40	24.75	36.003	
5,100.00	4,983.82	5,296.12	5,199.33	15.85	14.42	26.86	-620.68	-1,604.01	849.14	823.90	25.24	33.645	
5,200.00	5,082.39	5,387.08	5,287.19	16.10	14.71	27.48	-613.57	-1,581.57	809.44	783.73	25.72	31.476	
5,300.00	5,181.35	5,464.63	5,362.28	16.32	14.96	27.96	-607.71	-1,563.08	772.89	746.65	26.24	29.454	
5,400.00	5,280.66	5,543.47	5,438.99	16.52	15.19	28.42	-602.23	-1,545.78	740.51	713.75	26.76	27.675	
5,500.00	5,380.25	5,624.11	5,517.84	16.68	15.42	28.85	-597.12	-1,529.65	712.38	685.12	27.25	26.139	
5,600.00	5,480.03	5,700.00	5,592.35	16.82	15.62	29.19	-592.77	-1,515.91	688.58	660.85	27.73	24.829	
5,700.00	5,579.96	5,789.90	5,680.96	16.93	15.84	29.55	-588.20	-1,501.48	669.06	640.91	28.15	23.766	
5,800.00	5,679.94	5,874.54	5,764.70	16.99	16.02	-91.31	-584.47	-1,489.71	653.95	625.46	28.49	22.953	
5,900.00	5,779.94	5,959.88	5,849.37	17.03	16.18	-91.05	-581.28	-1,479.63	642.07	613.30	28.77	22.320	
6,000.00	5,879.94	6,045.65	5,934.70	17.07	16.32	-90.82	-578.65	-1,471.33	632.33	603.31	29.02	21.787	
6,100.00	5,979.94	6,131.77	6,020.55	17.10	16.45	-90.64	-576.59	-1,464.83	624.75	595.49	29.26	21.351	
6,200.00	6,079.94	6,218.16	6,106.79	17.14	16.55	-90.51	-575.12	-1,460.17	619.33	589.86	29.48	21.012	
6,300.00	6,179.94	6,300.00	6,188.59	17.17	16.64	-90.43	-574.26	-1,457.46	616.10	586.44	29.66	20.771	
6,400.00	6,279.94	6,391.42	6,280.00	17.21	16.71	-90.40	-573.93	-1,456.42	615.00	585.21	29.78	20.648	
6,433.35	6,313.30	6,424.72	6,313.30	17.22	16.72	-90.40	-573.93	-1,456.42	615.00	585.18	29.81	20.628	
6,500.00	6,379.94	6,491.37	6,379.94	17.25	16.76	-90.40	-573.93	-1,456.42	615.00	585.12	29.88	20.584	
6,600.00	6,479.94	6,591.37	6,479.94	17.29	16.82	-90.40	-573.93	-1,456.42	615.00	585.02	29.97	20.518	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
6,700.00	6,579.94	6,691.37	6,579.94	17.32	16.87	-90.40	-573.93	-1,456.42	615.00	584.92	30.07	20.452	
6,800.00	6,679.94	6,791.37	6,679.94	17.36	16.93	-90.40	-573.93	-1,456.42	615.00	584.83	30.17	20.385	
6,900.00	6,779.94	6,891.37	6,779.94	17.40	16.99	-90.40	-573.93	-1,456.42	615.00	584.73	30.27	20.319	
7,000.00	6,879.94	6,991.37	6,879.94	17.44	17.05	-90.40	-573.93	-1,456.42	615.00	584.63	30.37	20.253	
7,100.00	6,979.94	7,091.37	6,979.94	17.48	17.11	-90.40	-573.93	-1,456.42	615.00	584.53	30.46	20.187	
7,200.00	7,079.94	7,191.37	7,079.94	17.52	17.17	-90.40	-573.93	-1,456.42	615.00	584.43	30.56	20.121	
7,300.00	7,179.94	7,291.37	7,179.94	17.56	17.23	-90.40	-573.93	-1,456.42	615.00	584.33	30.67	20.055	
7,400.00	7,279.94	7,391.37	7,279.94	17.60	17.29	-90.40	-573.93	-1,456.42	615.00	584.23	30.77	19.989	
7,500.00	7,379.94	7,491.37	7,379.94	17.64	17.34	-90.40	-573.93	-1,456.42	615.00	584.13	30.87	19.924	
7,600.00	7,479.94	7,591.37	7,479.94	17.68	17.40	-90.40	-573.93	-1,456.42	615.00	584.03	30.97	19.858	
7,700.00	7,579.94	7,691.37	7,579.94	17.72	17.46	-90.40	-573.93	-1,456.42	615.00	583.92	31.07	19.793	
7,800.00	7,679.94	7,791.37	7,679.94	17.76	17.52	-90.40	-573.93	-1,456.42	615.00	583.82	31.17	19.727	
7,900.00	7,779.94	7,891.37	7,779.94	17.80	17.58	-90.40	-573.93	-1,456.42	615.00	583.72	31.28	19.662	
8,000.00	7,879.94	7,991.37	7,879.94	17.84	17.64	-90.40	-573.93	-1,456.42	615.00	583.61	31.38	19.597	
8,100.00	7,979.94	8,091.37	7,979.94	17.88	17.71	-90.40	-573.93	-1,456.42	615.00	583.51	31.49	19.532	
8,200.00	8,079.94	8,191.37	8,079.94	17.93	17.77	-90.40	-573.93	-1,456.42	615.00	583.40	31.59	19.467	
8,300.00	8,179.94	8,291.37	8,179.94	17.97	17.83	-90.40	-573.93	-1,456.42	615.00	583.30	31.70	19.402	
8,400.00	8,279.94	8,391.37	8,279.94	18.01	17.89	-90.40	-573.93	-1,456.42	615.00	583.19	31.80	19.338	
8,500.00	8,379.94	8,491.37	8,379.94	18.05	17.95	-90.40	-573.93	-1,456.42	615.00	583.09	31.91	19.273	
8,600.00	8,479.94	8,591.37	8,479.94	18.10	18.01	-90.40	-573.93	-1,456.42	615.00	582.98	32.02	19.209	
8,700.00	8,579.94	8,691.37	8,579.94	18.14	18.07	-90.40	-573.93	-1,456.42	615.00	582.87	32.12	19.145	
8,800.00	8,679.94	8,791.37	8,679.94	18.18	18.13	-90.40	-573.93	-1,456.42	615.00	582.76	32.23	19.081	
8,900.00	8,779.94	8,891.37	8,779.94	18.23	18.20	-90.40	-573.93	-1,456.42	615.00	582.66	32.34	19.017	
9,000.00	8,879.94	8,991.37	8,879.94	18.27	18.26	-90.40	-573.93	-1,456.42	615.00	582.55	32.45	18.953	
9,100.00	8,979.94	9,091.37	8,979.94	18.32	18.32	-90.40	-573.93	-1,456.42	615.00	582.44	32.56	18.890	
9,200.00	9,079.94	9,191.37	9,079.94	18.36	18.38	-90.40	-573.93	-1,456.42	615.00	582.33	32.67	18.826	
9,300.00	9,179.94	9,291.37	9,179.94	18.41	18.44	-90.40	-573.93	-1,456.42	615.00	582.22	32.78	18.763	
9,400.00	9,279.94	9,391.37	9,279.94	18.45	18.51	-90.40	-573.93	-1,456.42	615.00	582.11	32.89	18.700	
9,500.00	9,379.94	9,491.37	9,379.94	18.50	18.57	-90.40	-573.93	-1,456.42	615.00	582.00	33.00	18.637	
9,600.00	9,479.94	9,591.37	9,479.94	18.54	18.63	-90.40	-573.93	-1,456.42	615.00	581.89	33.11	18.575	
9,700.00	9,579.94	9,691.37	9,579.94	18.59	18.69	-90.40	-573.93	-1,456.42	615.00	581.77	33.22	18.512	
9,800.00	9,679.94	9,791.37	9,679.94	18.64	18.76	-90.40	-573.93	-1,456.42	615.00	581.66	33.33	18.450	
9,900.00	9,779.94	9,891.37	9,779.94	18.68	18.82	-90.40	-573.93	-1,456.42	615.00	581.55	33.45	18.388	
10,000.00	9,879.94	9,991.37	9,879.94	18.73	18.88	-90.40	-573.93	-1,456.42	615.00	581.44	33.56	18.326	
10,100.00	9,979.94	10,091.37	9,979.94	18.78	18.95	-90.40	-573.93	-1,456.42	615.00	581.32	33.67	18.264	
10,200.00	10,079.94	10,191.37	10,079.94	18.82	19.01	-90.40	-573.93	-1,456.42	615.00	581.21	33.79	18.203	
10,300.00	10,179.94	10,291.37	10,179.94	18.87	19.08	-90.40	-573.93	-1,456.42	615.00	581.10	33.90	18.142	
10,400.00	10,279.94	10,391.37	10,279.94	18.92	19.14	-90.40	-573.93	-1,456.42	615.00	580.98	34.01	18.081	
10,500.00	10,379.94	10,491.37	10,379.94	18.97	19.20	-90.40	-573.93	-1,456.42	615.00	580.87	34.13	18.020	
10,600.00	10,479.94	10,591.37	10,479.94	19.02	19.27	-90.40	-573.93	-1,456.42	615.00	580.75	34.24	17.959	
10,700.00	10,579.94	10,691.37	10,579.94	19.07	19.33	-90.40	-573.93	-1,456.42	615.00	580.63	34.36	17.899	
10,800.00	10,679.94	10,791.37	10,679.94	19.11	19.40	-90.40	-573.93	-1,456.42	615.00	580.52	34.48	17.838	
10,900.00	10,779.94	10,891.37	10,779.94	19.16	19.46	-90.40	-573.93	-1,456.42	615.00	580.40	34.59	17.778	
11,000.00	10,879.94	10,991.37	10,879.94	19.21	19.53	-90.40	-573.93	-1,456.42	615.00	580.29	34.71	17.718	
11,100.00	10,979.94	11,091.37	10,979.94	19.26	19.59	-90.40	-573.93	-1,456.42	615.00	580.17	34.83	17.659	
11,200.00	11,079.94	11,191.37	11,079.94	19.31	19.66	-90.40	-573.93	-1,456.42	615.00	580.05	34.94	17.599	
11,300.00	11,179.94	11,291.37	11,179.94	19.36	19.72	-90.40	-573.93	-1,456.42	615.00	579.93	35.06	17.540	
11,400.00	11,279.94	11,391.37	11,279.94	19.41	19.79	-90.40	-573.93	-1,456.42	615.00	579.81	35.18	17.481	
11,500.00	11,379.94	11,491.37	11,379.94	19.46	19.85	-90.40	-573.93	-1,456.42	615.00	579.70	35.30	17.423	
11,600.00	11,479.94	11,591.37	11,479.94	19.51	19.92	-90.40	-573.93	-1,456.42	615.00	579.58	35.42	17.364	
11,700.00	11,579.94	11,691.37	11,579.94	19.56	19.98	-90.40	-573.93	-1,456.42	615.00	579.46	35.54	17.306	
11,800.00	11,679.94	11,791.37	11,679.94	19.61	20.05	-90.40	-573.93	-1,456.42	615.00	579.34	35.66	17.248	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
11,900.00	11,779.94	11,891.39	11,779.97	19.67	20.10	-90.43	-574.27	-1,456.42	614.99	579.24	35.75	17.202	
11,913.84	11,793.78	11,905.22	11,793.78	19.67	20.10	-90.49	-574.92	-1,456.41	614.99	579.24	35.75	17.201	CC
12,000.00	11,879.94	11,989.86	11,877.60	19.72	20.16	-91.53	-586.09	-1,456.32	615.10	579.39	35.71	17.226	
12,100.00	11,979.48	12,084.15	11,967.89	19.84	20.20	87.10	-612.90	-1,456.08	615.83	580.21	35.61	17.291	
12,200.00	12,076.09	12,175.60	12,050.12	20.05	20.24	85.33	-652.70	-1,455.74	617.15	581.50	35.65	17.313	
12,300.00	12,166.83	12,264.66	12,123.12	20.32	20.27	83.71	-703.54	-1,455.30	618.88	583.03	35.85	17.262	
12,400.00	12,248.94	12,350.00	12,184.90	20.67	20.33	82.29	-762.31	-1,454.80	620.84	584.58	36.26	17.122	
12,500.00	12,319.94	12,437.21	12,238.30	21.11	20.41	81.04	-831.15	-1,454.20	622.80	585.95	36.86	16.897	
12,600.00	12,377.66	12,521.45	12,279.39	21.65	20.54	80.05	-904.60	-1,453.57	624.59	586.92	37.67	16.580	
12,700.00	12,420.35	12,604.77	12,309.02	22.29	20.71	79.33	-982.39	-1,452.90	626.02	587.37	38.65	16.197	
12,800.00	12,446.71	12,687.49	12,326.98	23.03	20.94	78.88	-1,063.06	-1,452.21	626.97	587.21	39.76	15.769	
12,900.04	12,455.95	12,770.21	12,333.14	23.86	21.23	78.71	-1,145.48	-1,451.50	627.35	586.41	40.94	15.322	
13,000.00	12,456.48	12,870.17	12,333.66	24.75	21.65	78.71	-1,245.43	-1,450.64	627.39	585.17	42.22	14.860	
13,100.00	12,457.00	12,970.17	12,334.18	25.69	22.14	78.71	-1,345.43	-1,449.78	627.43	583.81	43.62	14.384	
13,200.00	12,457.53	13,070.17	12,334.70	26.67	22.68	78.71	-1,445.42	-1,448.91	627.47	582.33	45.13	13.902	
13,300.00	12,458.05	13,170.17	12,335.22	27.68	23.29	78.71	-1,545.42	-1,448.05	627.50	580.75	46.76	13.421	
13,400.00	12,458.58	13,270.17	12,335.75	28.73	23.96	78.71	-1,645.41	-1,447.19	627.54	579.07	48.47	12.946	
13,500.00	12,459.11	13,370.17	12,336.27	29.80	24.67	78.71	-1,745.41	-1,446.33	627.58	577.30	50.28	12.482	
13,600.00	12,459.63	13,470.17	12,336.79	30.90	25.43	78.71	-1,845.40	-1,445.47	627.62	575.46	52.16	12.032	
13,700.00	12,460.16	13,570.17	12,337.31	32.01	26.24	78.71	-1,945.40	-1,444.61	627.66	573.54	54.12	11.598	
13,800.00	12,460.69	13,670.17	12,337.83	33.15	27.09	78.71	-2,045.39	-1,443.75	627.70	571.56	56.14	11.181	
13,900.00	12,461.21	13,770.17	12,338.35	34.30	27.98	78.71	-2,145.39	-1,442.89	627.74	569.52	58.21	10.783	
14,000.00	12,461.74	13,870.17	12,338.87	35.46	28.90	78.71	-2,245.38	-1,442.03	627.77	567.43	60.34	10.404	
14,100.00	12,462.26	13,970.17	12,339.39	36.64	29.86	78.71	-2,345.38	-1,441.16	627.81	565.30	62.51	10.043	
14,200.00	12,462.79	14,070.17	12,339.92	37.84	30.84	78.71	-2,445.37	-1,440.30	627.85	563.13	64.73	9.700	
14,300.00	12,463.32	14,170.17	12,340.44	39.04	31.86	78.71	-2,545.37	-1,439.44	627.89	560.91	66.97	9.375	
14,400.00	12,463.84	14,270.17	12,340.96	40.25	32.90	78.71	-2,645.36	-1,438.58	627.93	558.67	69.26	9.067	
14,500.00	12,464.37	14,370.17	12,341.48	41.48	33.96	78.71	-2,745.36	-1,437.72	627.97	556.40	71.57	8.774	
14,600.00	12,464.90	14,470.17	12,342.00	42.71	35.04	78.72	-2,845.35	-1,436.86	628.00	554.10	73.91	8.497	
14,700.00	12,465.42	14,570.17	12,342.52	43.95	36.14	78.72	-2,945.35	-1,436.00	628.04	551.77	76.27	8.234	
14,800.00	12,465.95	14,670.17	12,343.04	45.19	37.26	78.72	-3,045.34	-1,435.14	628.08	549.42	78.66	7.985	
14,900.00	12,466.47	14,770.17	12,343.57	46.45	38.39	78.72	-3,145.34	-1,434.27	628.12	547.06	81.07	7.748	
15,000.00	12,467.00	14,870.17	12,344.09	47.71	39.54	78.72	-3,245.33	-1,433.41	628.16	544.67	83.49	7.524	
15,100.00	12,467.53	14,970.17	12,344.61	48.97	40.70	78.72	-3,345.33	-1,432.55	628.20	542.27	85.93	7.311	
15,200.00	12,468.05	15,070.17	12,345.13	50.24	41.88	78.72	-3,445.32	-1,431.69	628.24	539.85	88.39	7.108	
15,300.00	12,468.58	15,170.17	12,345.65	51.52	43.06	78.72	-3,545.32	-1,430.83	628.27	537.42	90.86	6.915	
15,400.00	12,469.10	15,270.17	12,346.17	52.80	44.26	78.72	-3,645.31	-1,429.97	628.31	534.97	93.34	6.732	
15,500.00	12,469.63	15,370.17	12,346.69	54.08	45.47	78.72	-3,745.31	-1,429.11	628.35	532.52	95.83	6.557	
15,600.00	12,470.16	15,470.17	12,347.22	55.37	46.68	78.72	-3,845.30	-1,428.25	628.39	530.05	98.34	6.390	
15,700.00	12,470.68	15,570.17	12,347.74	56.66	47.91	78.72	-3,945.30	-1,427.39	628.43	527.58	100.85	6.231	
15,800.00	12,471.21	15,670.17	12,348.26	57.95	49.14	78.72	-4,045.29	-1,426.52	628.47	525.09	103.38	6.079	
15,900.00	12,471.74	15,770.17	12,348.78	59.25	50.38	78.72	-4,145.29	-1,425.66	628.50	522.60	105.91	5.934	
16,000.00	12,472.26	15,870.17	12,349.30	60.55	51.62	78.72	-4,245.28	-1,424.80	628.54	520.09	108.45	5.796	
16,100.00	12,472.79	15,970.17	12,349.82	61.86	52.87	78.72	-4,345.28	-1,423.94	628.58	517.58	111.00	5.663	
16,200.00	12,473.31	16,070.17	12,350.34	63.16	54.13	78.72	-4,445.27	-1,423.08	628.62	515.07	113.55	5.536	
16,300.00	12,473.84	16,170.17	12,350.86	64.47	55.39	78.72	-4,545.27	-1,422.22	628.66	512.54	116.11	5.414	
16,400.00	12,474.37	16,270.17	12,351.39	65.78	56.66	78.72	-4,645.26	-1,421.36	628.70	510.02	118.68	5.297	
16,500.00	12,474.89	16,370.17	12,351.91	67.10	57.93	78.72	-4,745.26	-1,420.50	628.74	507.48	121.25	5.185	
16,600.00	12,475.42	16,470.17	12,352.43	68.41	59.21	78.72	-4,845.25	-1,419.63	628.77	504.94	123.83	5.078	
16,700.00	12,475.94	16,570.17	12,352.95	69.73	60.49	78.72	-4,945.25	-1,418.77	628.81	502.40	126.41	4.974	
16,800.00	12,476.47	16,670.17	12,353.47	71.05	61.77	78.72	-5,045.24	-1,417.91	628.85	499.85	129.00	4.875	
16,900.00	12,477.00	16,770.17	12,353.99	72.37	63.06	78.72	-5,145.23	-1,417.05	628.89	497.30	131.59	4.779	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
17,000.00	12,477.52	16,870.17	12,354.51	73.70	64.35	78.72	-5,245.23	-1,416.19	628.93	494.74	134.19	4.687	
17,100.00	12,478.05	16,970.17	12,355.04	75.02	65.64	78.72	-5,345.22	-1,415.33	628.97	492.18	136.79	4.598	
17,200.00	12,478.58	17,070.17	12,355.56	76.35	66.94	78.72	-5,445.22	-1,414.47	629.00	489.61	139.39	4.512	
17,300.00	12,479.10	17,170.17	12,356.08	77.68	68.24	78.72	-5,545.21	-1,413.61	629.04	487.04	142.00	4.430	
17,400.00	12,479.63	17,270.17	12,356.60	79.01	69.54	78.72	-5,645.21	-1,412.75	629.08	484.47	144.61	4.350	
17,500.00	12,480.15	17,370.17	12,357.12	80.34	70.85	78.72	-5,745.20	-1,411.88	629.12	481.90	147.22	4.273	
17,600.00	12,480.68	17,470.17	12,357.64	81.67	72.16	78.72	-5,845.20	-1,411.02	629.16	479.32	149.84	4.199	
17,700.00	12,481.21	17,570.17	12,358.16	83.00	73.47	78.72	-5,945.19	-1,410.16	629.20	476.74	152.46	4.127	
17,800.00	12,481.73	17,670.17	12,358.69	84.34	74.78	78.72	-6,045.19	-1,409.30	629.24	474.16	155.08	4.058	
17,900.00	12,482.26	17,770.17	12,359.21	85.67	76.09	78.72	-6,145.18	-1,408.44	629.27	471.57	157.70	3.990	
18,000.00	12,482.79	17,870.17	12,359.73	87.01	77.41	78.72	-6,245.18	-1,407.58	629.31	468.99	160.33	3.925	
18,100.00	12,483.31	17,970.17	12,360.25	88.35	78.73	78.72	-6,345.17	-1,406.72	629.35	466.40	162.95	3.862	
18,200.00	12,483.84	18,070.17	12,360.77	89.68	80.05	78.72	-6,445.17	-1,405.86	629.39	463.81	165.58	3.801	
18,300.00	12,484.36	18,170.17	12,361.29	91.02	81.37	78.72	-6,545.16	-1,404.99	629.43	461.21	168.22	3.742	
18,400.00	12,484.89	18,270.17	12,361.81	92.36	82.69	78.72	-6,645.16	-1,404.13	629.47	458.62	170.85	3.684	
18,500.00	12,485.42	18,370.17	12,362.34	93.70	84.01	78.72	-6,745.15	-1,403.27	629.50	456.02	173.49	3.629	
18,600.00	12,485.94	18,470.17	12,362.86	95.05	85.34	78.73	-6,845.15	-1,402.41	629.54	453.42	176.12	3.574	
18,700.00	12,486.47	18,570.17	12,363.38	96.39	86.67	78.73	-6,945.14	-1,401.55	629.58	450.82	178.76	3.522	
18,800.00	12,486.99	18,670.17	12,363.90	97.73	88.00	78.73	-7,045.14	-1,400.69	629.62	448.22	181.40	3.471	
18,900.00	12,487.52	18,770.17	12,364.42	99.07	89.33	78.73	-7,145.13	-1,399.83	629.66	445.61	184.04	3.421	
19,000.00	12,488.05	18,870.17	12,364.94	100.42	90.66	78.73	-7,245.13	-1,398.97	629.70	443.01	186.69	3.373	
19,100.00	12,488.57	18,970.17	12,365.46	101.76	91.99	78.73	-7,345.12	-1,398.11	629.74	440.40	189.33	3.326	
19,200.00	12,489.10	19,070.17	12,365.98	103.11	93.32	78.73	-7,445.12	-1,397.24	629.77	437.79	191.98	3.280	
19,300.00	12,489.63	19,170.17	12,366.51	104.46	94.66	78.73	-7,545.11	-1,396.38	629.81	435.19	194.63	3.236	
19,400.00	12,490.15	19,270.17	12,367.03	105.80	95.99	78.73	-7,645.11	-1,395.52	629.85	432.57	197.28	3.193	
19,500.00	12,490.68	19,370.17	12,367.55	107.15	97.33	78.73	-7,745.10	-1,394.66	629.89	429.96	199.93	3.151	
19,600.00	12,491.20	19,470.17	12,368.07	108.50	98.66	78.73	-7,845.10	-1,393.80	629.93	427.35	202.58	3.110	
19,700.00	12,491.73	19,570.17	12,368.59	109.85	100.00	78.73	-7,945.09	-1,392.94	629.97	424.74	205.23	3.070	
19,800.00	12,492.26	19,670.17	12,369.11	111.20	101.34	78.73	-8,045.09	-1,392.08	630.00	422.12	207.88	3.031	
19,900.00	12,492.78	19,770.17	12,369.63	112.55	102.68	78.73	-8,145.08	-1,391.22	630.04	419.51	210.54	2.993	
20,000.00	12,493.31	19,870.17	12,370.16	113.90	104.02	78.73	-8,245.08	-1,390.35	630.08	416.89	213.19	2.955	
20,100.00	12,493.84	19,970.17	12,370.68	115.25	105.36	78.73	-8,345.07	-1,389.49	630.12	414.27	215.85	2.919	
20,200.00	12,494.36	20,070.17	12,371.20	116.60	106.70	78.73	-8,445.07	-1,388.63	630.16	411.65	218.51	2.884	
20,300.00	12,494.89	20,170.17	12,371.72	117.95	108.05	78.73	-8,545.06	-1,387.77	630.20	409.03	221.16	2.849	
20,400.00	12,495.41	20,270.17	12,372.24	119.30	109.39	78.73	-8,645.06	-1,386.91	630.24	406.41	223.82	2.816	
20,500.00	12,495.94	20,370.17	12,372.76	120.65	110.73	78.73	-8,745.05	-1,386.05	630.27	403.79	226.48	2.783	
20,600.00	12,496.47	20,470.17	12,373.28	122.01	112.08	78.73	-8,845.05	-1,385.19	630.31	401.17	229.14	2.751	
20,700.00	12,496.99	20,570.17	12,373.81	123.36	113.42	78.73	-8,945.04	-1,384.33	630.35	398.55	231.80	2.719	
20,800.00	12,497.52	20,670.17	12,374.33	124.71	114.77	78.73	-9,045.04	-1,383.47	630.39	395.92	234.47	2.689	
20,900.00	12,498.04	20,770.17	12,374.85	126.07	116.11	78.73	-9,145.03	-1,382.60	630.43	393.30	237.13	2.659	
21,000.00	12,498.57	20,870.17	12,375.37	127.42	117.46	78.73	-9,245.03	-1,381.74	630.47	390.68	239.79	2.629	
21,100.00	12,499.10	20,970.17	12,375.89	128.77	118.81	78.73	-9,345.02	-1,380.88	630.50	388.05	242.45	2.601	
21,200.00	12,499.62	21,070.17	12,376.41	130.13	120.16	78.73	-9,445.02	-1,380.02	630.54	385.42	245.12	2.572	
21,300.00	12,500.15	21,170.17	12,376.93	131.48	121.50	78.73	-9,545.01	-1,379.16	630.58	382.80	247.78	2.545	
21,400.00	12,500.68	21,270.17	12,377.45	132.84	122.85	78.73	-9,645.01	-1,378.30	630.62	380.17	250.45	2.518	
21,500.00	12,501.20	21,370.17	12,377.98	134.20	124.20	78.73	-9,745.00	-1,377.44	630.66	377.54	253.12	2.492	
21,600.00	12,501.73	21,470.17	12,378.50	135.55	125.55	78.73	-9,845.00	-1,376.58	630.70	374.91	255.78	2.466	
21,700.00	12,502.25	21,570.17	12,379.02	136.91	126.90	78.73	-9,944.99	-1,375.71	630.74	372.29	258.45	2.440	
21,800.00	12,502.78	21,670.17	12,379.54	138.26	128.25	78.73	-10,044.99	-1,374.85	630.77	369.66	261.12	2.416	
21,900.00	12,503.31	21,770.17	12,380.06	139.62	129.60	78.73	-10,144.98	-1,373.99	630.81	367.03	263.79	2.391	
22,000.00	12,503.83	21,870.17	12,380.58	140.98	130.95	78.73	-10,244.98	-1,373.13	630.85	364.40	266.46	2.368	
22,100.00	12,504.36	21,970.17	12,381.10	142.33	132.31	78.73	-10,344.97	-1,372.27	630.89	361.77	269.12	2.344	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
22,200.00	12,504.89	22,070.17	12,381.63	143.69	133.66	78.73	-10,444.97	-1,371.41	630.93	359.13	271.79	2.321	
22,300.00	12,505.41	22,170.17	12,382.15	145.05	135.01	78.73	-10,544.96	-1,370.55	630.97	356.50	274.46	2.299	
22,400.00	12,505.94	22,270.17	12,382.67	146.41	136.36	78.73	-10,644.96	-1,369.69	631.00	353.87	277.13	2.277	
22,500.00	12,506.46	22,370.17	12,383.19	147.76	137.72	78.73	-10,744.95	-1,368.83	631.04	351.24	279.81	2.255	
22,600.00	12,506.99	22,470.17	12,383.71	149.12	139.07	78.74	-10,844.95	-1,367.96	631.08	348.60	282.48	2.234	
22,700.00	12,507.52	22,570.17	12,384.23	150.48	140.42	78.74	-10,944.94	-1,367.10	631.12	345.97	285.15	2.213	
22,800.00	12,508.04	22,670.17	12,384.75	151.84	141.78	78.74	-11,044.94	-1,366.24	631.16	343.34	287.82	2.193	
22,800.32	12,508.04	22,670.49	12,384.76	151.84	141.78	78.74	-11,045.26	-1,366.24	631.16	343.33	287.83	2.193	
22,830.04	12,508.20	22,698.24	12,384.90	152.25	142.16	78.74	-11,073.00	-1,366.00	631.17	342.58	288.60	2.187	ES, SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	1.00	0.50	0.50	180.00	-185.00	0.00	185.00				
100.00	100.00	99.00	100.00	0.98	0.97	180.00	-185.00	0.00	185.00	183.05	1.95	94.633	
200.00	200.00	199.00	200.00	1.56	1.56	180.00	-185.00	0.00	185.00	181.88	3.12	59.366	
300.00	300.00	299.00	300.00	1.98	1.98	180.00	-185.00	0.00	185.00	181.04	3.96	46.740	CC
400.00	400.00	397.58	398.57	2.33	2.40	179.63	-185.37	1.19	185.38	180.73	4.65	39.845	
500.00	500.00	496.02	496.93	2.63	2.76	178.52	-186.49	4.80	186.57	181.32	5.26	35.482	
600.00	599.99	594.18	594.89	2.97	3.09	-23.44	-188.35	10.82	187.53	181.67	5.86	32.014	
700.00	699.91	691.87	692.18	3.26	3.39	-26.41	-190.94	19.19	187.36	180.96	6.40	29.262	
800.00	799.69	788.89	788.56	3.54	3.67	-30.42	-194.24	29.85	186.61	179.69	6.92	26.967	
874.58	874.02	861.44	860.44	3.63	3.78	-34.01	-197.15	39.25	186.47	179.36	7.11	26.243	
900.00	899.32	886.48	885.23	3.65	3.82	-35.35	-198.18	42.58	186.32	179.15	7.17	25.974	ES
1,000.00	998.94	985.07	982.86	3.87	4.03	-40.39	-202.24	55.68	187.52	179.91	7.62	24.618	
1,100.00	1,098.56	1,083.66	1,080.49	4.07	4.26	-45.34	-206.29	68.79	190.20	182.13	8.06	23.590	
1,200.00	1,198.18	1,182.25	1,178.13	4.28	4.47	-50.11	-210.35	81.90	194.28	185.78	8.50	22.864	
1,300.00	1,297.78	1,280.79	1,275.71	4.39	4.69	-60.85	-214.41	95.00	199.78	190.96	8.82	22.643	
1,400.00	1,397.24	1,378.92	1,372.88	4.60	4.90	-75.46	-218.45	108.05	207.45	198.20	9.25	22.420	
1,500.00	1,496.46	1,476.51	1,469.52	4.82	5.11	-87.28	-222.46	121.02	217.82	208.14	9.67	22.521	
1,600.00	1,595.38	1,573.49	1,565.56	5.04	5.32	-97.15	-226.45	133.91	231.23	221.14	10.09	22.914	
1,700.00	1,693.92	1,669.81	1,660.93	5.27	5.53	-105.60	-230.42	146.72	247.94	237.42	10.52	23.575	
1,800.00	1,792.04	1,765.38	1,755.58	5.49	5.73	-112.92	-234.35	159.43	268.07	257.12	10.95	24.476	
1,900.00	1,889.64	1,860.16	1,849.43	5.71	5.93	-119.28	-238.25	172.03	291.66	280.27	11.40	25.588	
2,000.00	1,986.68	1,954.07	1,942.43	5.94	6.13	-124.82	-242.12	184.51	318.68	306.83	11.85	26.886	
2,100.00	2,083.28	2,047.34	2,034.80	6.11	6.32	-128.68	-245.95	196.91	348.40	336.15	12.26	28.426	
2,200.00	2,179.88	2,140.60	2,127.15	6.34	6.52	-131.72	-249.79	209.31	379.27	366.57	12.70	29.866	
2,300.00	2,276.47	2,232.05	2,217.71	6.61	6.70	-134.27	-253.57	221.50	411.03	397.92	13.12	31.340	
2,400.00	2,373.06	2,315.59	2,300.24	6.90	6.87	-136.26	-257.44	233.80	444.83	431.33	13.51	32.929	
2,500.00	2,469.65	2,400.00	2,383.33	7.20	7.08	-137.96	-261.96	247.96	481.13	467.20	13.93	34.545	
2,600.00	2,566.24	2,478.88	2,460.67	7.50	7.27	-139.32	-266.75	262.74	519.71	505.40	14.31	36.313	
2,700.00	2,662.84	2,558.54	2,538.42	7.82	7.47	-140.48	-272.13	279.19	560.44	545.74	14.70	38.121	
2,800.00	2,759.43	2,640.12	2,617.67	8.13	7.65	-141.48	-278.18	297.54	603.13	588.05	15.08	40.003	
2,900.00	2,856.02	2,729.76	2,704.66	8.45	7.86	-142.43	-284.99	318.13	646.44	630.94	15.50	41.697	
3,000.00	2,952.61	2,819.41	2,791.64	8.78	8.11	-143.26	-291.79	338.72	689.88	673.93	15.94	43.270	
3,100.00	3,049.20	2,909.06	2,878.63	9.10	8.38	-143.99	-298.59	359.31	733.42	717.03	16.39	44.760	
3,200.00	3,145.79	2,998.70	2,965.61	9.43	8.65	-144.64	-305.39	379.90	777.05	760.22	16.83	46.171	
3,300.00	3,242.39	3,088.35	3,052.59	9.77	8.92	-145.22	-312.20	400.49	820.75	803.47	17.28	47.509	
3,400.00	3,338.98	3,178.00	3,139.58	10.10	9.19	-145.74	-319.00	421.08	864.51	846.79	17.72	48.778	
3,500.00	3,435.57	3,267.65	3,226.56	10.44	9.47	-146.22	-325.80	441.68	908.33	890.16	18.17	49.984	
3,600.00	3,532.16	3,357.29	3,313.55	10.78	9.75	-146.65	-332.61	462.27	952.19	933.57	18.62	51.129	
3,700.00	3,628.75	3,446.94	3,400.53	11.12	10.03	-147.04	-339.41	482.86	996.09	977.02	19.08	52.218	
3,800.00	3,725.34	3,536.59	3,487.52	11.46	10.31	-147.40	-346.21	503.45	1,040.03	1,020.50	19.53	53.255	
3,900.00	3,821.94	3,626.23	3,574.50	11.80	10.60	-147.73	-353.02	524.04	1,084.00	1,064.01	19.98	54.242	
4,000.00	3,918.53	3,715.88	3,661.49	12.14	10.88	-148.03	-359.82	544.63	1,127.99	1,107.55	20.44	55.184	
4,100.00	4,015.12	3,805.53	3,748.47	12.49	11.17	-148.32	-366.62	565.22	1,172.01	1,151.11	20.90	56.082	
4,200.00	4,111.71	3,895.17	3,835.45	12.83	11.45	-148.58	-373.43	585.81	1,216.05	1,194.69	21.36	56.939	
4,300.00	4,208.30	3,984.82	3,922.44	13.18	11.74	-148.82	-380.23	606.40	1,260.11	1,238.29	21.82	57.758	
4,400.00	4,304.90	4,074.47	4,009.42	13.53	12.03	-149.05	-387.03	626.99	1,304.18	1,281.91	22.28	58.541	
4,500.00	4,401.49	4,164.11	4,096.41	13.88	12.32	-149.26	-393.83	647.58	1,348.28	1,325.54	22.74	59.291	
4,600.00	4,498.08	4,253.76	4,183.39	14.23	12.61	-149.46	-400.64	668.17	1,392.38	1,369.18	23.20	60.009	
4,700.00	4,594.67	4,343.41	4,270.38	14.58	12.90	-149.64	-407.44	688.76	1,436.50	1,412.83	23.67	60.696	
4,800.00	4,691.26	4,433.05	4,357.36	14.93	13.19	-149.83	-414.24	709.35	1,480.63	1,456.50	24.13	61.362	
4,900.00	4,788.20	4,523.24	4,444.87	15.26	13.48	-150.32	-421.09	730.07	1,523.70	1,499.10	24.60	61.937	
5,000.00	4,885.74	4,614.42	4,533.34	15.57	13.78	-150.73	-428.01	751.01	1,564.72	1,539.65	25.07	62.426	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	4,983.82	4,706.53	4,622.71	15.85	14.08	-151.06	-435.00	772.17	1,603.64	1,578.12	25.52	62.830	
5,200.00	5,082.39	4,799.50	4,712.92	16.10	14.38	-151.32	-442.05	793.52	1,640.45	1,614.47	25.97	63.155	
5,300.00	5,181.35	4,893.28	4,803.92	16.32	14.69	-151.52	-449.17	815.06	1,675.11	1,648.69	26.42	63.407	
5,400.00	5,280.66	4,987.80	4,895.63	16.52	15.00	-151.65	-456.34	836.77	1,707.61	1,680.75	26.85	63.592	
5,500.00	5,380.25	5,082.99	4,987.99	16.68	15.31	-151.73	-463.57	858.63	1,737.92	1,710.65	27.28	63.716	
5,600.00	5,480.03	5,178.79	5,080.95	16.82	15.62	-151.75	-470.84	880.64	1,766.05	1,738.36	27.69	63.786	
5,700.00	5,579.96	5,275.13	5,174.43	16.93	15.94	-151.72	-478.15	902.77	1,791.98	1,763.90	28.08	63.810	
5,800.00	5,679.94	5,371.96	5,268.38	16.99	16.26	87.27	-485.50	925.01	1,815.71	1,787.30	28.41	63.912	
5,900.00	5,779.94	5,468.99	5,362.53	17.03	16.58	87.54	-492.86	947.29	1,838.39	1,809.70	28.70	64.063	
6,000.00	5,879.94	5,566.02	5,456.68	17.07	16.90	87.81	-500.22	969.58	1,861.12	1,832.13	28.98	64.213	
6,100.00	5,979.94	5,663.05	5,550.82	17.10	17.22	88.06	-507.59	991.86	1,883.88	1,854.61	29.27	64.361	
6,200.00	6,079.94	5,760.08	5,644.97	17.14	17.54	88.31	-514.95	1,014.15	1,906.67	1,877.12	29.56	64.508	
6,300.00	6,179.94	5,887.29	5,768.53	17.17	17.93	88.63	-524.44	1,042.89	1,929.25	1,899.28	29.96	64.392	
6,400.00	6,279.94	6,075.54	5,952.89	17.21	18.47	89.01	-536.36	1,078.94	1,948.31	1,917.71	30.61	63.653	
6,500.00	6,379.94	6,267.19	6,142.28	17.25	18.91	89.29	-545.54	1,106.74	1,962.77	1,931.59	31.18	62.941	
6,600.00	6,479.94	6,461.36	6,335.40	17.29	19.25	89.48	-551.80	1,125.67	1,972.50	1,940.82	31.68	62.273	
6,700.00	6,579.94	6,657.07	6,530.82	17.32	19.48	89.58	-554.98	1,135.30	1,977.41	1,945.34	32.07	61.668	
6,800.00	6,679.94	6,806.20	6,679.94	17.36	19.55	89.59	-555.39	1,136.55	1,978.04	1,945.84	32.20	61.425	
6,900.00	6,779.94	6,906.20	6,779.94	17.40	19.58	89.59	-555.39	1,136.55	1,978.04	1,945.76	32.28	61.281	
7,000.00	6,879.94	7,006.20	6,879.94	17.44	19.62	89.59	-555.39	1,136.55	1,978.04	1,945.69	32.35	61.137	
7,100.00	6,979.94	7,106.20	6,979.94	17.48	19.66	89.59	-555.39	1,136.55	1,978.04	1,945.61	32.43	60.992	
7,200.00	7,079.94	7,206.20	7,079.94	17.52	19.70	89.59	-555.39	1,136.55	1,978.04	1,945.53	32.51	60.847	
7,300.00	7,179.94	7,306.20	7,179.94	17.56	19.74	89.59	-555.39	1,136.55	1,978.04	1,945.45	32.59	60.701	
7,400.00	7,279.94	7,406.20	7,279.94	17.60	19.78	89.59	-555.39	1,136.55	1,978.04	1,945.38	32.67	60.555	
7,500.00	7,379.94	7,506.20	7,379.94	17.64	19.81	89.59	-555.39	1,136.55	1,978.04	1,945.30	32.74	60.409	
7,600.00	7,479.94	7,606.20	7,479.94	17.68	19.85	89.59	-555.39	1,136.55	1,978.04	1,945.22	32.82	60.262	
7,700.00	7,579.94	7,706.20	7,579.94	17.72	19.89	89.59	-555.39	1,136.55	1,978.04	1,945.14	32.90	60.114	
7,800.00	7,679.94	7,806.20	7,679.94	17.76	19.93	89.59	-555.39	1,136.55	1,978.04	1,945.06	32.99	59.966	
7,900.00	7,779.94	7,906.20	7,779.94	17.80	19.97	89.59	-555.39	1,136.55	1,978.04	1,944.97	33.07	59.818	
8,000.00	7,879.94	8,006.20	7,879.94	17.84	20.02	89.59	-555.39	1,136.55	1,978.04	1,944.89	33.15	59.669	
8,100.00	7,979.94	8,106.20	7,979.94	17.88	20.06	89.59	-555.39	1,136.55	1,978.04	1,944.81	33.23	59.520	
8,200.00	8,079.94	8,206.20	8,079.94	17.93	20.10	89.59	-555.39	1,136.55	1,978.04	1,944.72	33.32	59.371	
8,300.00	8,179.94	8,306.20	8,179.94	17.97	20.14	89.59	-555.39	1,136.55	1,978.04	1,944.64	33.40	59.222	
8,400.00	8,279.94	8,406.20	8,279.94	18.01	20.18	89.59	-555.39	1,136.55	1,978.04	1,944.56	33.49	59.072	
8,500.00	8,379.94	8,506.20	8,379.94	18.05	20.22	89.59	-555.39	1,136.55	1,978.04	1,944.47	33.57	58.922	
8,600.00	8,479.94	8,606.20	8,479.94	18.10	20.26	89.59	-555.39	1,136.55	1,978.04	1,944.38	33.66	58.771	
8,700.00	8,579.94	8,706.20	8,579.94	18.14	20.31	89.59	-555.39	1,136.55	1,978.04	1,944.30	33.74	58.621	
8,800.00	8,679.94	8,806.20	8,679.94	18.18	20.35	89.59	-555.39	1,136.55	1,978.04	1,944.21	33.83	58.470	
8,900.00	8,779.94	8,906.20	8,779.94	18.23	20.39	89.59	-555.39	1,136.55	1,978.04	1,944.12	33.92	58.319	
9,000.00	8,879.94	9,006.20	8,879.94	18.27	20.44	89.59	-555.39	1,136.55	1,978.04	1,944.04	34.01	58.168	
9,100.00	8,979.94	9,106.20	8,979.94	18.32	20.48	89.59	-555.39	1,136.55	1,978.04	1,943.95	34.09	58.017	
9,200.00	9,079.94	9,206.20	9,079.94	18.36	20.52	89.59	-555.39	1,136.55	1,978.04	1,943.86	34.18	57.865	
9,300.00	9,179.94	9,306.20	9,179.94	18.41	20.57	89.59	-555.39	1,136.55	1,978.04	1,943.77	34.27	57.713	
9,400.00	9,279.94	9,406.20	9,279.94	18.45	20.61	89.59	-555.39	1,136.55	1,978.04	1,943.68	34.36	57.562	
9,500.00	9,379.94	9,506.20	9,379.94	18.50	20.65	89.59	-555.39	1,136.55	1,978.04	1,943.59	34.45	57.410	
9,600.00	9,479.94	9,606.20	9,479.94	18.54	20.70	89.59	-555.39	1,136.55	1,978.04	1,943.50	34.55	57.258	
9,700.00	9,579.94	9,706.20	9,579.94	18.59	20.74	89.59	-555.39	1,136.55	1,978.04	1,943.40	34.64	57.106	
9,800.00	9,679.94	9,806.20	9,679.94	18.64	20.79	89.59	-555.39	1,136.55	1,978.04	1,943.31	34.73	56.954	
9,900.00	9,779.94	9,906.20	9,779.94	18.68	20.83	89.59	-555.39	1,136.55	1,978.04	1,943.22	34.82	56.802	
10,000.00	9,879.94	10,006.20	9,879.94	18.73	20.88	89.59	-555.39	1,136.55	1,978.04	1,943.12	34.92	56.650	
10,100.00	9,979.94	10,106.20	9,979.94	18.78	20.92	89.59	-555.39	1,136.55	1,978.04	1,943.03	35.01	56.498	
10,200.00	10,079.94	10,206.20	10,079.94	18.82	20.97	89.59	-555.39	1,136.55	1,978.04	1,942.94	35.11	56.346	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	10,179.94	10,306.20	10,179.94	18.87	21.02	89.59	-555.39	1,136.55	1,978.04	1,942.84	35.20	56.194	
10,400.00	10,279.94	10,406.20	10,279.94	18.92	21.06	89.59	-555.39	1,136.55	1,978.04	1,942.75	35.30	56.042	
10,500.00	10,379.94	10,506.20	10,379.94	18.97	21.11	89.59	-555.39	1,136.55	1,978.04	1,942.65	35.39	55.890	
10,600.00	10,479.94	10,606.20	10,479.94	19.02	21.16	89.59	-555.39	1,136.55	1,978.04	1,942.55	35.49	55.738	
10,700.00	10,579.94	10,706.20	10,579.94	19.07	21.20	89.59	-555.39	1,136.55	1,978.04	1,942.46	35.59	55.586	
10,800.00	10,679.94	10,806.20	10,679.94	19.11	21.25	89.59	-555.39	1,136.55	1,978.04	1,942.36	35.68	55.434	
10,900.00	10,779.94	10,906.20	10,779.94	19.16	21.30	89.59	-555.39	1,136.55	1,978.04	1,942.26	35.78	55.283	
11,000.00	10,879.94	11,006.20	10,879.94	19.21	21.34	89.59	-555.39	1,136.55	1,978.04	1,942.16	35.88	55.131	
11,100.00	10,979.94	11,106.20	10,979.94	19.26	21.39	89.59	-555.39	1,136.55	1,978.04	1,942.06	35.98	54.979	
11,200.00	11,079.94	11,206.20	11,079.94	19.31	21.44	89.59	-555.39	1,136.55	1,978.04	1,941.96	36.08	54.828	
11,300.00	11,179.94	11,306.20	11,179.94	19.36	21.49	89.59	-555.39	1,136.55	1,978.04	1,941.86	36.18	54.677	
11,400.00	11,279.94	11,406.20	11,279.94	19.41	21.54	89.59	-555.39	1,136.55	1,978.04	1,941.76	36.28	54.526	
11,500.00	11,379.94	11,506.20	11,379.94	19.46	21.59	89.59	-555.39	1,136.55	1,978.04	1,941.66	36.38	54.375	
11,600.00	11,479.94	11,606.20	11,479.94	19.51	21.63	89.59	-555.39	1,136.55	1,978.04	1,941.56	36.48	54.224	
11,700.00	11,579.94	11,706.20	11,579.94	19.56	21.68	89.59	-555.39	1,136.55	1,978.04	1,941.46	36.58	54.073	
11,800.00	11,679.94	11,806.20	11,679.94	19.61	21.73	89.59	-555.39	1,136.55	1,978.04	1,941.36	36.68	53.923	
11,900.00	11,779.94	11,906.20	11,779.94	19.67	21.78	89.59	-555.39	1,136.55	1,978.04	1,941.26	36.78	53.775	
11,901.16	11,781.10	11,907.36	11,781.10	19.67	21.78	89.59	-555.39	1,136.55	1,978.04	1,941.26	36.78	53.774	
12,000.00	11,879.94	12,005.41	11,878.99	19.72	21.85	89.71	-559.56	1,136.59	1,978.05	1,941.19	36.86	53.660	
12,100.00	11,979.48	12,102.26	11,973.69	19.84	21.99	-89.42	-579.27	1,136.77	1,978.14	1,941.15	36.99	53.481	
12,200.00	12,076.09	12,197.25	12,062.06	20.05	22.18	-89.09	-613.81	1,137.08	1,978.30	1,941.04	37.26	53.095	
12,300.00	12,166.83	12,290.61	12,142.19	20.32	22.43	-88.78	-661.51	1,137.51	1,978.50	1,940.80	37.70	52.478	
12,400.00	12,248.94	12,382.59	12,212.54	20.67	22.72	-88.51	-720.61	1,138.05	1,978.73	1,940.40	38.33	51.622	
12,500.00	12,319.94	12,473.42	12,271.86	21.11	23.08	-88.28	-789.27	1,138.67	1,978.96	1,939.79	39.16	50.532	
12,600.00	12,377.66	12,563.36	12,319.19	21.65	23.51	-88.10	-865.64	1,139.37	1,979.16	1,938.96	40.20	49.231	
12,700.00	12,420.35	12,650.00	12,352.95	22.29	23.99	-87.97	-945.34	1,140.09	1,979.32	1,937.89	41.42	47.783	
12,800.00	12,446.71	12,741.53	12,375.14	23.03	24.58	-87.90	-1,034.03	1,140.90	1,979.41	1,936.56	42.85	46.189	
12,900.04	12,455.95	12,830.27	12,382.93	23.86	25.21	-87.89	-1,122.33	1,141.70	1,979.44	1,935.04	44.40	44.580	
12,901.26	12,455.96	12,831.35	12,382.94	23.87	25.22	-87.89	-1,123.42	1,141.71	1,979.44	1,935.02	44.42	44.560	
13,000.00	12,456.48	12,929.85	12,383.46	24.75	25.97	-87.89	-1,221.91	1,142.61	1,979.45	1,933.30	46.15	42.892	
13,100.00	12,457.00	13,029.85	12,383.98	25.69	26.79	-87.89	-1,321.90	1,143.51	1,979.45	1,931.46	47.99	41.244	
13,200.00	12,457.53	13,129.85	12,384.51	26.67	27.65	-87.89	-1,421.90	1,144.42	1,979.46	1,929.55	49.92	39.654	
13,300.00	12,458.05	13,229.85	12,385.04	27.68	28.55	-87.89	-1,521.89	1,145.33	1,979.47	1,927.56	51.92	38.128	
13,400.00	12,458.58	13,329.85	12,385.56	28.73	29.48	-87.89	-1,621.88	1,146.24	1,979.48	1,925.50	53.98	36.671	
13,500.00	12,459.11	13,429.85	12,386.09	29.80	30.45	-87.89	-1,721.88	1,147.15	1,979.49	1,923.39	56.10	35.285	
13,600.00	12,459.63	13,529.85	12,386.61	30.90	31.44	-87.89	-1,821.87	1,148.06	1,979.50	1,921.23	58.27	33.970	
13,700.00	12,460.16	13,629.85	12,387.14	32.01	32.45	-87.89	-1,921.87	1,148.97	1,979.51	1,919.02	60.49	32.725	
13,800.00	12,460.69	13,729.85	12,387.66	33.15	33.49	-87.89	-2,021.86	1,149.87	1,979.52	1,916.77	62.75	31.547	
13,900.00	12,461.21	13,829.85	12,388.19	34.30	34.55	-87.89	-2,121.86	1,150.78	1,979.53	1,914.48	65.04	30.434	
14,000.00	12,461.74	13,929.85	12,388.72	35.46	35.63	-87.89	-2,221.85	1,151.69	1,979.54	1,912.17	67.37	29.383	
14,100.00	12,462.26	14,029.85	12,389.24	36.64	36.73	-87.89	-2,321.85	1,152.60	1,979.55	1,909.82	69.73	28.389	
14,200.00	12,462.79	14,129.85	12,389.77	37.84	37.84	-87.89	-2,421.84	1,153.51	1,979.55	1,907.44	72.11	27.450	
14,300.00	12,463.32	14,229.85	12,390.29	39.04	38.97	-87.89	-2,521.83	1,154.42	1,979.56	1,905.04	74.52	26.563	
14,400.00	12,463.84	14,329.85	12,390.82	40.25	40.11	-87.89	-2,621.83	1,155.32	1,979.57	1,902.62	76.95	25.724	
14,500.00	12,464.37	14,429.85	12,391.35	41.48	41.26	-87.89	-2,721.82	1,156.23	1,979.58	1,900.18	79.41	24.930	
14,600.00	12,464.90	14,529.85	12,391.87	42.71	42.43	-87.89	-2,821.82	1,157.14	1,979.59	1,897.72	81.87	24.178	
14,700.00	12,465.42	14,629.85	12,392.40	43.95	43.61	-87.89	-2,921.81	1,158.05	1,979.60	1,895.24	84.36	23.466	
14,800.00	12,465.95	14,729.85	12,392.92	45.19	44.80	-87.89	-3,021.81	1,158.96	1,979.61	1,892.75	86.86	22.790	
14,900.00	12,466.47	14,829.85	12,393.45	46.45	45.99	-87.89	-3,121.80	1,159.87	1,979.62	1,890.24	89.38	22.149	
15,000.00	12,467.00	14,929.85	12,393.98	47.71	47.20	-87.89	-3,221.80	1,160.78	1,979.63	1,887.72	91.90	21.540	
15,100.00	12,467.53	15,029.85	12,394.50	48.97	48.41	-87.89	-3,321.79	1,161.68	1,979.64	1,885.19	94.44	20.961	
15,200.00	12,468.05	15,129.85	12,395.03	50.24	49.63	-87.89	-3,421.79	1,162.59	1,979.65	1,882.65	96.99	20.410	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
15,300.00	12,468.58	15,229.85	12,395.55	51.52	50.86	-87.89	-3,521.78	1,163.50	1,979.65	1,880.10	99.55	19.885	
15,400.00	12,469.10	15,329.85	12,396.08	52.80	52.10	-87.89	-3,621.77	1,164.41	1,979.66	1,877.54	102.12	19.385	
15,500.00	12,469.63	15,429.85	12,396.60	54.08	53.34	-87.89	-3,721.77	1,165.32	1,979.67	1,874.97	104.70	18.908	
15,600.00	12,470.16	15,529.85	12,397.13	55.37	54.58	-87.89	-3,821.76	1,166.23	1,979.68	1,872.40	107.29	18.452	
15,700.00	12,470.68	15,629.85	12,397.66	56.66	55.84	-87.89	-3,921.76	1,167.14	1,979.69	1,869.81	109.88	18.017	
15,800.00	12,471.21	15,729.85	12,398.18	57.95	57.09	-87.89	-4,021.75	1,168.04	1,979.70	1,867.22	112.48	17.600	
15,900.00	12,471.74	15,829.85	12,398.71	59.25	58.36	-87.89	-4,121.75	1,168.95	1,979.71	1,864.62	115.09	17.202	
16,000.00	12,472.26	15,929.85	12,399.23	60.55	59.62	-87.89	-4,221.74	1,169.86	1,979.72	1,862.02	117.70	16.820	
16,100.00	12,472.79	16,029.85	12,399.76	61.86	60.89	-87.89	-4,321.74	1,170.77	1,979.73	1,859.41	120.32	16.454	
16,200.00	12,473.31	16,129.85	12,400.29	63.16	62.17	-87.89	-4,421.73	1,171.68	1,979.74	1,856.80	122.94	16.103	
16,300.00	12,473.84	16,229.85	12,400.81	64.47	63.45	-87.89	-4,521.72	1,172.59	1,979.75	1,854.18	125.57	15.766	
16,400.00	12,474.37	16,329.85	12,401.34	65.78	64.73	-87.89	-4,621.72	1,173.50	1,979.75	1,851.55	128.20	15.443	
16,500.00	12,474.89	16,429.85	12,401.86	67.10	66.02	-87.89	-4,721.71	1,174.40	1,979.76	1,848.93	130.84	15.131	
16,600.00	12,475.42	16,529.85	12,402.39	68.41	67.30	-87.89	-4,821.71	1,175.31	1,979.77	1,846.29	133.48	14.832	
16,700.00	12,475.94	16,629.85	12,402.91	69.73	68.60	-87.89	-4,921.70	1,176.22	1,979.78	1,843.66	136.12	14.544	
16,800.00	12,476.47	16,729.85	12,403.44	71.05	69.89	-87.89	-5,021.70	1,177.13	1,979.79	1,841.02	138.77	14.266	
16,900.00	12,477.00	16,829.85	12,403.97	72.37	71.19	-87.89	-5,121.69	1,178.04	1,979.80	1,838.38	141.42	13.999	
17,000.00	12,477.52	16,929.85	12,404.49	73.70	72.49	-87.89	-5,221.69	1,178.95	1,979.81	1,835.73	144.08	13.741	
17,100.00	12,478.05	17,029.85	12,405.02	75.02	73.79	-87.89	-5,321.68	1,179.85	1,979.82	1,833.08	146.74	13.492	
17,200.00	12,478.58	17,129.85	12,405.54	76.35	75.09	-87.89	-5,421.68	1,180.76	1,979.83	1,830.43	149.40	13.252	
17,300.00	12,479.10	17,229.85	12,406.07	77.68	76.40	-87.89	-5,521.67	1,181.67	1,979.84	1,827.77	152.06	13.020	
17,400.00	12,479.63	17,329.85	12,406.60	79.01	77.71	-87.89	-5,621.66	1,182.58	1,979.85	1,825.12	154.73	12.796	
17,500.00	12,480.15	17,429.85	12,407.12	80.34	79.02	-87.89	-5,721.66	1,183.49	1,979.85	1,822.46	157.40	12.579	
17,600.00	12,480.68	17,529.85	12,407.65	81.67	80.33	-87.89	-5,821.65	1,184.40	1,979.86	1,819.80	160.07	12.369	
17,700.00	12,481.21	17,629.85	12,408.17	83.00	81.65	-87.89	-5,921.65	1,185.31	1,979.87	1,817.13	162.74	12.166	
17,800.00	12,481.73	17,729.85	12,408.70	84.34	82.96	-87.89	-6,021.64	1,186.21	1,979.88	1,814.46	165.42	11.969	
17,900.00	12,482.26	17,829.85	12,409.22	85.67	84.28	-87.89	-6,121.64	1,187.12	1,979.89	1,811.80	168.09	11.778	
18,000.00	12,482.79	17,929.85	12,409.75	87.01	85.60	-87.89	-6,221.63	1,188.03	1,979.90	1,809.13	170.77	11.594	
18,100.00	12,483.31	18,029.85	12,410.28	88.35	86.92	-87.89	-6,321.63	1,188.94	1,979.91	1,806.45	173.45	11.415	
18,200.00	12,483.84	18,129.85	12,410.80	89.68	88.24	-87.89	-6,421.62	1,189.85	1,979.92	1,803.78	176.14	11.241	
18,300.00	12,484.36	18,229.85	12,411.33	91.02	89.57	-87.89	-6,521.61	1,190.76	1,979.93	1,801.11	178.82	11.072	
18,400.00	12,484.89	18,329.85	12,411.85	92.36	90.89	-87.89	-6,621.61	1,191.67	1,979.94	1,798.43	181.51	10.908	
18,500.00	12,485.42	18,429.85	12,412.38	93.70	92.22	-87.89	-6,721.60	1,192.57	1,979.95	1,795.75	184.20	10.749	
18,600.00	12,485.94	18,529.85	12,412.91	95.05	93.55	-87.89	-6,821.60	1,193.48	1,979.95	1,793.07	186.89	10.595	
18,700.00	12,486.47	18,629.85	12,413.43	96.39	94.87	-87.89	-6,921.59	1,194.39	1,979.96	1,790.39	189.58	10.444	
18,800.00	12,486.99	18,729.85	12,413.96	97.73	96.20	-87.89	-7,021.59	1,195.30	1,979.97	1,787.71	192.27	10.298	
18,900.00	12,487.52	18,829.85	12,414.48	99.07	97.53	-87.89	-7,121.58	1,196.21	1,979.98	1,785.02	194.96	10.156	
19,000.00	12,488.05	18,929.85	12,415.01	100.42	98.87	-87.89	-7,221.58	1,197.12	1,979.99	1,782.34	197.65	10.017	
19,100.00	12,488.57	19,029.85	12,415.54	101.76	100.20	-87.89	-7,321.57	1,198.02	1,980.00	1,779.65	200.35	9.883	
19,200.00	12,489.10	19,129.85	12,416.06	103.11	101.53	-87.89	-7,421.56	1,198.93	1,980.01	1,776.96	203.05	9.751	
19,300.00	12,489.63	19,229.85	12,416.59	104.46	102.87	-87.89	-7,521.56	1,199.84	1,980.02	1,774.27	205.74	9.624	
19,400.00	12,490.15	19,329.85	12,417.11	105.80	104.20	-87.89	-7,621.55	1,200.75	1,980.03	1,771.58	208.44	9.499	
19,500.00	12,490.68	19,429.85	12,417.64	107.15	105.54	-87.89	-7,721.55	1,201.66	1,980.04	1,768.89	211.14	9.378	
19,600.00	12,491.20	19,529.85	12,418.16	108.50	106.88	-87.89	-7,821.54	1,202.57	1,980.05	1,766.20	213.84	9.259	
19,700.00	12,491.73	19,629.85	12,418.69	109.85	108.21	-87.89	-7,921.54	1,203.48	1,980.05	1,763.51	216.55	9.144	
19,800.00	12,492.26	19,729.85	12,419.22	111.20	109.55	-87.89	-8,021.53	1,204.38	1,980.06	1,760.82	219.25	9.031	
19,900.00	12,492.78	19,829.85	12,419.74	112.55	110.89	-87.89	-8,121.53	1,205.29	1,980.07	1,758.12	221.95	8.921	
20,000.00	12,493.31	19,929.85	12,420.27	113.90	112.23	-87.89	-8,221.52	1,206.20	1,980.08	1,755.43	224.66	8.814	
20,100.00	12,493.84	20,029.85	12,420.79	115.25	113.57	-87.89	-8,321.52	1,207.11	1,980.09	1,752.73	227.36	8.709	
20,200.00	12,494.36	20,129.85	12,421.32	116.60	114.91	-87.89	-8,421.51	1,208.02	1,980.10	1,750.03	230.07	8.607	
20,300.00	12,494.89	20,229.85	12,421.85	117.95	116.26	-87.89	-8,521.50	1,208.93	1,980.11	1,747.34	232.77	8.507	
20,400.00	12,495.41	20,329.85	12,422.37	119.30	117.60	-87.89	-8,621.50	1,209.84	1,980.12	1,744.64	235.48	8.409	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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)	Rule Assigned: Minimum Separation (usft)	Separation Factor	Warning
20,500.00	12,495.94	20,429.85	12,422.90	120.65	118.94	-87.89	-8,721.49	1,210.74	1,980.13	1,741.94	238.19	8.313	
20,600.00	12,496.47	20,529.85	12,423.42	122.01	120.29	-87.89	-8,821.49	1,211.65	1,980.14	1,739.24	240.90	8.220	
20,700.00	12,496.99	20,629.85	12,423.95	123.36	121.63	-87.89	-8,921.48	1,212.56	1,980.15	1,736.54	243.61	8.128	
20,800.00	12,497.52	20,729.85	12,424.47	124.71	122.98	-87.89	-9,021.48	1,213.47	1,980.15	1,733.84	246.32	8.039	
20,900.00	12,498.04	20,829.85	12,425.00	126.07	124.32	-87.89	-9,121.47	1,214.38	1,980.16	1,731.14	249.03	7.952	
21,000.00	12,498.57	20,929.85	12,425.53	127.42	125.67	-87.89	-9,221.47	1,215.29	1,980.17	1,728.44	251.74	7.866	
21,100.00	12,499.10	21,029.85	12,426.05	128.77	127.01	-87.89	-9,321.46	1,216.20	1,980.18	1,725.73	254.45	7.782	
21,200.00	12,499.62	21,129.85	12,426.58	130.13	128.36	-87.89	-9,421.45	1,217.10	1,980.19	1,723.03	257.16	7.700	
21,300.00	12,500.15	21,229.85	12,427.10	131.48	129.71	-87.89	-9,521.45	1,218.01	1,980.20	1,720.33	259.87	7.620	
21,400.00	12,500.68	21,329.85	12,427.63	132.84	131.06	-87.89	-9,621.44	1,218.92	1,980.21	1,717.62	262.59	7.541	
21,500.00	12,501.20	21,429.85	12,428.16	134.20	132.41	-87.89	-9,721.44	1,219.83	1,980.22	1,714.92	265.30	7.464	
21,600.00	12,501.73	21,529.85	12,428.68	135.55	133.75	-87.89	-9,821.43	1,220.74	1,980.23	1,712.21	268.02	7.388	
21,700.00	12,502.25	21,629.85	12,429.21	136.91	135.10	-87.89	-9,921.43	1,221.65	1,980.24	1,709.51	270.73	7.314	
21,800.00	12,502.78	21,729.85	12,429.73	138.26	136.45	-87.89	-10,021.42	1,222.55	1,980.25	1,706.80	273.45	7.242	
21,900.00	12,503.31	21,829.85	12,430.26	139.62	137.80	-87.89	-10,121.42	1,223.46	1,980.25	1,704.09	276.16	7.171	
22,000.00	12,503.83	21,929.85	12,430.79	140.98	139.15	-87.89	-10,221.41	1,224.37	1,980.26	1,701.39	278.88	7.101	
22,100.00	12,504.36	22,029.85	12,431.31	142.33	140.50	-87.89	-10,321.41	1,225.28	1,980.27	1,698.68	281.59	7.032	
22,200.00	12,504.89	22,129.85	12,431.84	143.69	141.86	-87.89	-10,421.40	1,226.19	1,980.28	1,695.97	284.31	6.965	
22,300.00	12,505.41	22,229.85	12,432.36	145.05	143.21	-87.89	-10,521.39	1,227.10	1,980.29	1,693.26	287.03	6.899	
22,400.00	12,505.94	22,329.85	12,432.89	146.41	144.56	-87.89	-10,621.39	1,228.01	1,980.30	1,690.55	289.75	6.835	
22,500.00	12,506.46	22,429.85	12,433.41	147.76	145.91	-87.89	-10,721.38	1,228.91	1,980.31	1,687.85	292.46	6.771	
22,600.00	12,506.99	22,529.85	12,433.94	149.12	147.26	-87.89	-10,821.38	1,229.82	1,980.32	1,685.14	295.18	6.709	
22,700.00	12,507.52	22,629.85	12,434.47	150.48	148.62	-87.89	-10,921.37	1,230.73	1,980.33	1,682.43	297.90	6.648	
22,800.00	12,508.04	22,729.85	12,434.99	151.84	149.97	-87.89	-11,021.37	1,231.64	1,980.34	1,679.72	300.62	6.588	
22,830.04	12,508.20	22,759.89	12,435.15	152.25	150.38	-87.89	-11,051.40	1,231.91	1,980.34	1,678.90	301.43	6.570	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 221H - 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
2,400.00	2,373.06	2,270.60	2,265.42	6.90	6.43	12.28	-972.06	-2,483.18	2,419.93	2,407.13	12.80	189.066	
2,500.00	2,469.65	2,335.71	2,330.14	7.20	6.56	12.52	-967.12	-2,488.39	2,399.62	2,386.48	13.14	182.656	
2,600.00	2,566.24	2,400.00	2,393.91	7.50	6.70	12.78	-961.87	-2,494.55	2,380.68	2,367.20	13.48	176.595	
2,700.00	2,662.84	2,466.27	2,459.51	7.82	6.84	13.07	-956.05	-2,501.94	2,363.14	2,349.31	13.84	170.799	
2,800.00	2,759.43	2,531.63	2,524.05	8.13	6.98	13.37	-949.92	-2,510.28	2,347.04	2,332.84	14.19	165.362	
2,900.00	2,856.02	2,600.00	2,591.36	8.45	7.13	13.71	-943.10	-2,520.11	2,332.40	2,317.83	14.56	160.170	
3,000.00	2,952.61	2,662.34	2,652.55	8.78	7.27	14.03	-936.51	-2,530.06	2,319.24	2,304.31	14.92	155.433	
3,100.00	3,049.20	2,742.34	2,730.83	9.10	7.43	14.47	-927.64	-2,543.94	2,307.45	2,292.13	15.32	150.621	
3,200.00	3,145.79	2,839.22	2,825.59	9.43	7.62	15.01	-916.83	-2,560.94	2,296.06	2,280.30	15.76	145.658	
3,300.00	3,242.39	2,936.09	2,920.35	9.77	7.81	15.55	-906.01	-2,577.93	2,284.89	2,268.68	16.21	140.939	
3,400.00	3,338.98	3,032.97	3,015.11	10.10	8.01	16.10	-895.20	-2,594.92	2,273.93	2,257.27	16.66	136.452	
3,500.00	3,435.57	3,129.85	3,109.87	10.44	8.21	16.65	-884.39	-2,611.92	2,263.19	2,246.07	17.12	132.183	
3,600.00	3,532.16	3,226.72	3,204.63	10.78	8.41	17.21	-873.57	-2,628.91	2,252.67	2,235.09	17.58	128.120	
3,700.00	3,628.75	3,323.60	3,299.39	11.12	8.61	17.77	-862.76	-2,645.90	2,242.38	2,224.33	18.05	124.251	
3,800.00	3,725.34	3,420.48	3,394.15	11.46	8.82	18.34	-851.95	-2,662.90	2,232.31	2,213.80	18.52	120.565	
3,900.00	3,821.94	3,517.35	3,488.91	11.80	9.04	18.92	-841.13	-2,679.89	2,222.48	2,203.49	18.99	117.052	
4,000.00	3,918.53	3,614.23	3,583.67	12.14	9.25	19.49	-830.32	-2,696.89	2,212.88	2,193.42	19.46	113.701	
4,100.00	4,015.12	3,711.11	3,678.43	12.49	9.47	20.08	-819.51	-2,713.88	2,203.52	2,183.58	19.94	110.504	
4,200.00	4,111.71	3,807.98	3,773.19	12.83	9.70	20.66	-808.69	-2,730.87	2,194.39	2,173.97	20.42	107.451	
4,300.00	4,208.30	3,904.86	3,867.95	13.18	9.93	21.25	-797.88	-2,747.87	2,185.51	2,164.61	20.91	104.534	
4,400.00	4,304.90	4,001.74	3,962.71	13.53	10.17	21.85	-787.07	-2,764.86	2,176.88	2,155.49	21.39	101.749	
4,500.00	4,401.49	4,098.61	4,057.47	13.88	10.40	22.45	-776.26	-2,781.85	2,168.50	2,146.61	21.89	99.084	
4,600.00	4,498.08	4,195.49	4,152.23	14.23	10.65	23.05	-765.44	-2,798.85	2,160.37	2,137.99	22.38	96.534	
4,700.00	4,594.67	4,292.37	4,246.99	14.58	10.89	23.66	-754.63	-2,815.84	2,152.49	2,129.61	22.88	94.093	
4,800.00	4,691.26	4,389.24	4,341.74	14.93	11.14	24.28	-743.82	-2,832.84	2,144.87	2,121.50	23.37	91.766	
4,900.00	4,788.20	4,486.33	4,436.71	15.26	11.38	24.84	-732.98	-2,849.87	2,138.75	2,114.86	23.88	89.552	
5,000.00	4,885.74	4,583.78	4,532.03	15.57	11.64	25.40	-722.10	-2,866.96	2,135.23	2,110.85	24.38	87.571	
5,086.18	4,970.24	4,668.01	4,614.41	15.81	11.85	25.87	-712.70	-2,881.73	2,134.28	2,109.48	24.80	86.045	CC
5,100.00	4,983.82	4,681.52	4,627.64	15.85	11.89	25.95	-711.19	-2,884.11	2,134.31	2,109.43	24.87	85.812	
5,200.00	5,082.39	4,779.50	4,723.47	16.10	12.14	26.48	-700.26	-2,901.29	2,135.93	2,110.58	25.35	84.264	
5,300.00	5,181.35	4,877.63	4,819.45	16.32	12.40	27.00	-689.30	-2,918.51	2,140.07	2,114.26	25.81	82.915	
5,400.00	5,280.66	4,975.85	4,915.53	16.52	12.66	27.51	-678.34	-2,935.74	2,146.69	2,120.44	26.26	81.757	
5,500.00	5,380.25	5,074.10	5,011.63	16.68	12.92	28.01	-667.38	-2,952.97	2,155.77	2,129.08	26.69	80.781	
5,600.00	5,480.03	5,172.30	5,107.69	16.82	13.18	28.48	-656.41	-2,970.20	2,167.25	2,140.15	27.10	79.980	
5,700.00	5,579.96	5,270.40	5,203.64	16.93	13.44	28.94	-645.46	-2,987.40	2,181.11	2,153.63	27.49	79.352	
5,800.00	5,679.94	5,368.32	5,299.43	16.99	13.70	-91.72	-634.54	-3,004.58	2,197.31	2,169.51	27.80	79.035	
5,900.00	5,779.94	5,518.28	5,446.41	17.03	14.08	-91.28	-618.59	-3,029.63	2,214.01	2,185.81	28.19	78.530	
6,000.00	5,879.94	5,710.64	5,636.41	17.07	14.51	-90.85	-602.54	-3,054.86	2,227.02	2,198.37	28.65	77.727	
6,100.00	5,979.94	5,905.59	5,830.25	17.10	14.85	-90.56	-591.54	-3,072.16	2,235.84	2,206.81	29.03	77.018	
6,200.00	6,079.94	6,102.13	6,026.49	17.14	15.09	-90.41	-585.83	-3,081.13	2,240.39	2,211.07	29.31	76.426	
6,300.00	6,179.94	6,255.60	6,179.94	17.17	15.22	-90.39	-585.00	-3,082.43	2,241.04	2,211.59	29.45	76.084	
6,400.00	6,279.94	6,355.60	6,279.94	17.21	15.28	-90.39	-585.00	-3,082.43	2,241.04	2,211.49	29.56	75.823	
6,500.00	6,379.94	6,455.60	6,379.94	17.25	15.35	-90.39	-585.00	-3,082.43	2,241.04	2,211.38	29.66	75.555	
6,600.00	6,479.94	6,555.60	6,479.94	17.29	15.42	-90.39	-585.00	-3,082.43	2,241.04	2,211.28	29.77	75.287	
6,700.00	6,579.94	6,655.60	6,579.94	17.32	15.49	-90.39	-585.00	-3,082.43	2,241.04	2,211.17	29.87	75.019	
6,800.00	6,679.94	6,755.60	6,679.94	17.36	15.56	-90.39	-585.00	-3,082.43	2,241.04	2,211.06	29.98	74.752	
6,900.00	6,779.94	6,855.60	6,779.94	17.40	15.63	-90.39	-585.00	-3,082.43	2,241.04	2,210.96	30.09	74.486	
7,000.00	6,879.94	6,955.60	6,879.94	17.44	15.70	-90.39	-585.00	-3,082.43	2,241.04	2,210.85	30.19	74.221	
7,100.00	6,979.94	7,055.60	6,979.94	17.48	15.77	-90.39	-585.00	-3,082.43	2,241.04	2,210.74	30.30	73.957	
7,200.00	7,079.94	7,155.60	7,079.94	17.52	15.84	-90.39	-585.00	-3,082.43	2,241.04	2,210.63	30.41	73.693	
7,300.00	7,179.94	7,255.60	7,179.94	17.56	15.91	-90.39	-585.00	-3,082.43	2,241.04	2,210.52	30.52	73.430	
7,400.00	7,279.94	7,355.60	7,279.94	17.60	15.98	-90.39	-585.00	-3,082.43	2,241.04	2,210.41	30.63	73.168	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 221H - 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
7,500.00	7,379.94	7,455.60	7,379.94	17.64	16.05	-90.39	-585.00	-3,082.43	2,241.04	2,210.30	30.74	72.906	
7,600.00	7,479.94	7,555.60	7,479.94	17.68	16.12	-90.39	-585.00	-3,082.43	2,241.04	2,210.19	30.85	72.646	
7,700.00	7,579.94	7,655.60	7,579.94	17.72	16.20	-90.39	-585.00	-3,082.43	2,241.04	2,210.08	30.96	72.386	
7,800.00	7,679.94	7,755.60	7,679.94	17.76	16.27	-90.39	-585.00	-3,082.43	2,241.04	2,209.97	31.07	72.127	
7,900.00	7,779.94	7,855.60	7,779.94	17.80	16.34	-90.39	-585.00	-3,082.43	2,241.04	2,209.86	31.18	71.869	
8,000.00	7,879.94	7,955.60	7,879.94	17.84	16.41	-90.39	-585.00	-3,082.43	2,241.04	2,209.75	31.29	71.612	
8,100.00	7,979.94	8,055.60	7,979.94	17.88	16.48	-90.39	-585.00	-3,082.43	2,241.04	2,209.64	31.41	71.356	
8,200.00	8,079.94	8,155.60	8,079.94	17.93	16.55	-90.39	-585.00	-3,082.43	2,241.04	2,209.52	31.52	71.100	
8,300.00	8,179.94	8,255.60	8,179.94	17.97	16.62	-90.39	-585.00	-3,082.43	2,241.04	2,209.41	31.63	70.846	
8,400.00	8,279.94	8,355.60	8,279.94	18.01	16.70	-90.39	-585.00	-3,082.43	2,241.04	2,209.30	31.75	70.592	
8,500.00	8,379.94	8,455.60	8,379.94	18.05	16.77	-90.39	-585.00	-3,082.43	2,241.04	2,209.18	31.86	70.339	
8,600.00	8,479.94	8,555.60	8,479.94	18.10	16.84	-90.39	-585.00	-3,082.43	2,241.04	2,209.07	31.97	70.087	
8,700.00	8,579.94	8,655.60	8,579.94	18.14	16.91	-90.39	-585.00	-3,082.43	2,241.04	2,208.95	32.09	69.837	
8,800.00	8,679.94	8,755.60	8,679.94	18.18	16.98	-90.39	-585.00	-3,082.43	2,241.04	2,208.84	32.21	69.587	
8,900.00	8,779.94	8,855.60	8,779.94	18.23	17.06	-90.39	-585.00	-3,082.43	2,241.04	2,208.72	32.32	69.338	
9,000.00	8,879.94	8,955.60	8,879.94	18.27	17.13	-90.39	-585.00	-3,082.43	2,241.04	2,208.61	32.44	69.090	
9,100.00	8,979.94	9,055.60	8,979.94	18.32	17.20	-90.39	-585.00	-3,082.43	2,241.04	2,208.49	32.55	68.842	
9,200.00	9,079.94	9,155.60	9,079.94	18.36	17.27	-90.39	-585.00	-3,082.43	2,241.04	2,208.37	32.67	68.596	
9,300.00	9,179.94	9,255.60	9,179.94	18.41	17.34	-90.39	-585.00	-3,082.43	2,241.04	2,208.26	32.79	68.351	
9,400.00	9,279.94	9,355.60	9,279.94	18.45	17.42	-90.39	-585.00	-3,082.43	2,241.04	2,208.14	32.90	68.107	
9,500.00	9,379.94	9,455.60	9,379.94	18.50	17.49	-90.39	-585.00	-3,082.43	2,241.04	2,208.02	33.02	67.864	
9,600.00	9,479.94	9,555.60	9,479.94	18.54	17.56	-90.39	-585.00	-3,082.43	2,241.04	2,207.90	33.14	67.621	
9,700.00	9,579.94	9,655.60	9,579.94	18.59	17.64	-90.39	-585.00	-3,082.43	2,241.04	2,207.78	33.26	67.380	
9,800.00	9,679.94	9,755.60	9,679.94	18.64	17.71	-90.39	-585.00	-3,082.43	2,241.04	2,207.66	33.38	67.140	
9,900.00	9,779.94	9,855.60	9,779.94	18.68	17.78	-90.39	-585.00	-3,082.43	2,241.04	2,207.54	33.50	66.901	
10,000.00	9,879.94	9,955.60	9,879.94	18.73	17.85	-90.39	-585.00	-3,082.43	2,241.04	2,207.43	33.62	66.662	
10,100.00	9,979.94	10,055.60	9,979.94	18.78	17.93	-90.39	-585.00	-3,082.43	2,241.04	2,207.30	33.74	66.425	
10,200.00	10,079.94	10,155.60	10,079.94	18.82	18.00	-90.39	-585.00	-3,082.43	2,241.04	2,207.18	33.86	66.189	
10,300.00	10,179.94	10,255.60	10,179.94	18.87	18.07	-90.39	-585.00	-3,082.43	2,241.04	2,207.06	33.98	65.954	
10,400.00	10,279.94	10,355.60	10,279.94	18.92	18.15	-90.39	-585.00	-3,082.43	2,241.04	2,206.94	34.10	65.719	
10,500.00	10,379.94	10,455.60	10,379.94	18.97	18.22	-90.39	-585.00	-3,082.43	2,241.04	2,206.82	34.22	65.486	
10,600.00	10,479.94	10,555.60	10,479.94	19.02	18.29	-90.39	-585.00	-3,082.43	2,241.04	2,206.70	34.34	65.254	
10,700.00	10,579.94	10,655.60	10,579.94	19.07	18.37	-90.39	-585.00	-3,082.43	2,241.04	2,206.58	34.47	65.023	
10,800.00	10,679.94	10,755.60	10,679.94	19.11	18.44	-90.39	-585.00	-3,082.43	2,241.04	2,206.45	34.59	64.793	
10,900.00	10,779.94	10,855.60	10,779.94	19.16	18.51	-90.39	-585.00	-3,082.43	2,241.04	2,206.33	34.71	64.563	
11,000.00	10,879.94	10,955.60	10,879.94	19.21	18.59	-90.39	-585.00	-3,082.43	2,241.04	2,206.21	34.83	64.335	
11,100.00	10,979.94	11,055.60	10,979.94	19.26	18.66	-90.39	-585.00	-3,082.43	2,241.04	2,206.09	34.96	64.108	
11,200.00	11,079.94	11,155.60	11,079.94	19.31	18.74	-90.39	-585.00	-3,082.43	2,241.04	2,205.96	35.08	63.882	
11,300.00	11,179.94	11,255.60	11,179.94	19.36	18.81	-90.39	-585.00	-3,082.43	2,241.04	2,205.84	35.20	63.657	
11,400.00	11,279.94	11,355.60	11,279.94	19.41	18.88	-90.39	-585.00	-3,082.43	2,241.04	2,205.71	35.33	63.433	
11,500.00	11,379.94	11,455.60	11,379.94	19.46	18.96	-90.39	-585.00	-3,082.43	2,241.04	2,205.59	35.45	63.210	
11,600.00	11,479.94	11,555.60	11,479.94	19.51	19.03	-90.39	-585.00	-3,082.43	2,241.04	2,205.46	35.58	62.988	
11,700.00	11,579.94	11,655.60	11,579.94	19.56	19.11	-90.39	-585.00	-3,082.43	2,241.04	2,205.34	35.70	62.767	
11,800.00	11,679.94	11,755.60	11,679.94	19.61	19.18	-90.39	-585.00	-3,082.43	2,241.04	2,205.21	35.83	62.547	
11,900.00	11,779.94	11,855.60	11,779.94	19.67	19.25	-90.39	-585.00	-3,082.43	2,241.04	2,205.09	35.96	62.328	
12,000.00	11,879.94	11,955.60	11,879.94	19.72	19.33	-90.39	-585.00	-3,082.43	2,241.04	2,204.96	36.08	62.107	
12,000.05	11,879.99	11,955.65	11,879.99	19.72	19.33	-90.39	-585.00	-3,082.43	2,241.04	2,204.96	36.08	62.107	
12,100.00	11,979.48	12,055.14	11,979.48	19.84	19.40	90.33	-585.00	-3,082.43	2,241.08	2,204.86	36.22	61.877	
12,200.00	12,076.09	12,151.75	12,076.09	20.05	19.47	90.92	-585.00	-3,082.43	2,241.36	2,204.91	36.46	61.482	
12,300.00	12,166.83	12,242.49	12,166.83	20.32	19.54	91.78	-585.00	-3,082.43	2,242.47	2,205.65	36.82	60.912	
12,400.00	12,248.94	12,324.60	12,248.94	20.67	19.60	92.69	-585.00	-3,082.43	2,245.21	2,207.91	37.31	60.181	
12,500.00	12,319.94	12,393.73	12,318.05	21.11	19.64	93.37	-586.13	-3,082.54	2,250.60	2,212.68	37.92	59.349	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 221H - 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	Rule Assigned: Warning
12,600.00	12,377.66	12,461.74	12,385.51	21.65	19.67	93.77	-594.38	-3,083.33	2,259.36	2,220.73	38.63	58.490	
12,700.00	12,420.35	12,535.63	12,457.12	22.29	19.69	93.99	-612.29	-3,085.06	2,271.59	2,232.16	39.44	57.602	
12,800.00	12,446.71	12,619.36	12,534.69	23.03	19.70	94.10	-643.46	-3,088.06	2,287.22	2,246.90	40.31	56.734	
12,900.04	12,455.95	12,721.30	12,621.71	23.86	19.73	94.27	-696.06	-3,093.12	2,305.94	2,264.71	41.22	55.940	
13,000.00	12,456.48	12,876.58	12,732.83	24.75	19.80	97.02	-803.35	-3,103.46	2,326.07	2,284.00	42.07	55.294	
13,100.00	12,457.00	13,137.04	12,842.31	25.69	20.15	99.60	-1,036.14	-3,125.87	2,343.24	2,300.45	42.79	54.757	
13,200.00	12,457.53	13,537.51	12,857.43	26.67	21.39	99.80	-1,434.76	-3,149.94	2,350.60	2,306.88	43.71	53.774	
13,300.00	12,458.05	13,658.65	12,858.49	27.68	21.89	99.81	-1,555.89	-3,149.03	2,350.73	2,305.58	45.15	52.061	
13,400.00	12,458.58	13,758.65	12,859.37	28.73	22.37	99.82	-1,655.88	-3,148.17	2,350.83	2,304.12	46.71	50.326	
13,500.00	12,459.11	13,858.65	12,860.25	29.80	22.91	99.83	-1,755.88	-3,147.31	2,350.93	2,302.56	48.37	48.599	
13,600.00	12,459.63	13,958.65	12,861.13	30.90	23.51	99.83	-1,855.87	-3,146.45	2,351.03	2,300.90	50.13	46.899	
13,700.00	12,460.16	14,058.65	12,862.01	32.01	24.16	99.84	-1,955.86	-3,145.59	2,351.13	2,299.16	51.97	45.240	
13,800.00	12,460.69	14,158.64	12,862.88	33.15	24.87	99.85	-2,055.85	-3,144.73	2,351.23	2,297.34	53.89	43.633	
13,900.00	12,461.21	14,258.64	12,863.76	34.30	25.64	99.86	-2,155.84	-3,143.87	2,351.32	2,295.45	55.87	42.084	
14,000.00	12,461.74	14,358.64	12,864.64	35.46	26.45	99.87	-2,255.83	-3,143.01	2,351.42	2,293.50	57.92	40.599	
14,100.00	12,462.26	14,458.64	12,865.52	36.64	27.31	99.87	-2,355.83	-3,142.15	2,351.52	2,291.50	60.02	39.178	
14,200.00	12,462.79	14,558.64	12,866.40	37.84	28.21	99.88	-2,455.82	-3,141.29	2,351.62	2,289.45	62.17	37.824	
14,300.00	12,463.32	14,658.64	12,867.27	39.04	29.14	99.89	-2,555.81	-3,140.43	2,351.72	2,287.35	64.37	36.536	
14,400.00	12,463.84	14,758.64	12,868.15	40.25	30.11	99.90	-2,655.80	-3,139.57	2,351.82	2,285.22	66.60	35.311	
14,500.00	12,464.37	14,858.64	12,869.03	41.48	31.12	99.91	-2,755.79	-3,138.71	2,351.92	2,283.04	68.87	34.148	
14,600.00	12,464.90	14,958.64	12,869.91	42.71	32.15	99.92	-2,855.79	-3,137.85	2,352.02	2,280.84	71.18	33.045	
14,700.00	12,465.42	15,058.64	12,870.79	43.95	33.20	99.92	-2,955.78	-3,136.99	2,352.12	2,278.61	73.51	31.998	
14,800.00	12,465.95	15,158.64	12,871.66	45.19	34.28	99.93	-3,055.77	-3,136.13	2,352.21	2,276.35	75.87	31.005	
14,900.00	12,466.47	15,258.64	12,872.54	46.45	35.38	99.94	-3,155.76	-3,135.27	2,352.31	2,274.07	78.25	30.062	
15,000.00	12,467.00	15,358.64	12,873.42	47.71	36.50	99.95	-3,255.75	-3,134.41	2,352.41	2,271.76	80.65	29.168	
15,100.00	12,467.53	15,458.64	12,874.30	48.97	37.64	99.96	-3,355.74	-3,133.55	2,352.51	2,269.44	83.07	28.319	
15,200.00	12,468.05	15,558.64	12,875.17	50.24	38.79	99.97	-3,455.74	-3,132.69	2,352.61	2,267.10	85.51	27.512	
15,300.00	12,468.58	15,658.64	12,876.05	51.52	39.96	99.97	-3,555.73	-3,131.83	2,352.71	2,264.74	87.97	26.745	
15,400.00	12,469.10	15,758.63	12,876.93	52.80	41.14	99.98	-3,655.72	-3,130.97	2,352.81	2,262.37	90.44	26.016	
15,500.00	12,469.63	15,858.63	12,877.81	54.08	42.33	99.99	-3,755.71	-3,130.11	2,352.91	2,259.99	92.92	25.322	
15,600.00	12,470.16	15,958.63	12,878.69	55.37	43.53	100.00	-3,855.70	-3,129.25	2,353.01	2,257.59	95.42	24.660	
15,700.00	12,470.68	16,058.63	12,879.56	56.66	44.75	100.01	-3,955.70	-3,128.38	2,353.11	2,255.19	97.92	24.030	
15,800.00	12,471.21	16,158.63	12,880.44	57.95	45.97	100.02	-4,055.69	-3,127.52	2,353.21	2,252.77	100.44	23.429	
15,900.00	12,471.74	16,258.63	12,881.32	59.25	47.20	100.02	-4,155.68	-3,126.66	2,353.31	2,250.34	102.97	22.855	
16,000.00	12,472.26	16,358.63	12,882.20	60.55	48.44	100.03	-4,255.67	-3,125.80	2,353.41	2,247.90	105.50	22.306	
16,100.00	12,472.79	16,458.63	12,883.08	61.86	49.68	100.04	-4,355.66	-3,124.94	2,353.51	2,245.46	108.05	21.782	
16,200.00	12,473.31	16,558.63	12,883.95	63.16	50.94	100.05	-4,455.65	-3,124.08	2,353.61	2,243.01	110.60	21.280	
16,300.00	12,473.84	16,658.63	12,884.83	64.47	52.19	100.06	-4,555.65	-3,123.22	2,353.71	2,240.55	113.16	20.800	
16,400.00	12,474.37	16,758.63	12,885.71	65.78	53.46	100.06	-4,655.64	-3,122.36	2,353.81	2,238.08	115.72	20.340	
16,500.00	12,474.89	16,858.63	12,886.59	67.10	54.73	100.07	-4,755.63	-3,121.50	2,353.91	2,235.61	118.29	19.899	
16,600.00	12,475.42	16,958.63	12,887.47	68.41	56.00	100.08	-4,855.62	-3,120.64	2,354.01	2,233.14	120.87	19.475	
16,700.00	12,475.94	17,058.63	12,888.34	69.73	57.28	100.09	-4,955.61	-3,119.78	2,354.11	2,230.65	123.45	19.069	
16,800.00	12,476.47	17,158.63	12,889.22	71.05	58.56	100.10	-5,055.61	-3,118.92	2,354.21	2,228.17	126.04	18.678	
16,900.00	12,477.00	17,258.63	12,890.10	72.37	59.85	100.11	-5,155.60	-3,118.06	2,354.31	2,225.68	128.63	18.303	
17,000.00	12,477.52	17,358.62	12,890.98	73.70	61.14	100.11	-5,255.59	-3,117.20	2,354.41	2,223.18	131.23	17.941	
17,100.00	12,478.05	17,458.62	12,891.85	75.02	62.43	100.12	-5,355.58	-3,116.34	2,354.51	2,220.68	133.83	17.594	
17,200.00	12,478.58	17,558.62	12,892.73	76.35	63.73	100.13	-5,455.57	-3,115.48	2,354.61	2,218.18	136.43	17.258	
17,300.00	12,479.10	17,658.62	12,893.61	77.68	65.03	100.14	-5,555.56	-3,114.62	2,354.71	2,215.67	139.04	16.936	
17,400.00	12,479.63	17,758.62	12,894.49	79.01	66.33	100.15	-5,655.56	-3,113.76	2,354.81	2,213.16	141.65	16.624	
17,500.00	12,480.15	17,858.62	12,895.37	80.34	67.64	100.16	-5,755.55	-3,112.90	2,354.91	2,210.64	144.26	16.324	
17,600.00	12,480.68	17,958.62	12,896.24	81.67	68.95	100.16	-5,855.54	-3,112.04	2,355.01	2,208.13	146.88	16.033	
17,700.00	12,481.21	18,058.62	12,897.12	83.00	70.26	100.17	-5,955.53	-3,111.18	2,355.11	2,205.61	149.50	15.753	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 221H - 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
17,800.00	12,481.73	18,158.62	12,898.00	84.34	71.57	100.18	-6,055.52	-3,110.32	2,355.21	2,203.09	152.12	15.482	
17,900.00	12,482.26	18,258.62	12,898.88	85.67	72.88	100.19	-6,155.52	-3,109.46	2,355.31	2,200.56	154.75	15.220	
18,000.00	12,482.79	18,358.62	12,899.76	87.01	74.20	100.20	-6,255.51	-3,108.60	2,355.41	2,198.04	157.38	14.967	
18,100.00	12,483.31	18,458.62	12,900.63	88.35	75.52	100.21	-6,355.50	-3,107.74	2,355.51	2,195.51	160.01	14.721	
18,200.00	12,483.84	18,558.62	12,901.51	89.68	76.84	100.21	-6,455.49	-3,106.88	2,355.61	2,192.98	162.64	14.484	
18,300.00	12,484.36	18,658.62	12,902.39	91.02	78.16	100.22	-6,555.48	-3,106.02	2,355.71	2,190.44	165.27	14.254	
18,400.00	12,484.89	18,758.62	12,903.27	92.36	79.49	100.23	-6,655.47	-3,105.16	2,355.82	2,187.91	167.91	14.030	
18,500.00	12,485.42	18,858.62	12,904.14	93.70	80.81	100.24	-6,755.47	-3,104.30	2,355.92	2,185.37	170.55	13.814	
18,600.00	12,485.94	18,958.61	12,905.02	95.05	82.14	100.25	-6,855.46	-3,103.43	2,356.02	2,182.83	173.18	13.604	
18,700.00	12,486.47	19,058.61	12,905.90	96.39	83.47	100.25	-6,955.45	-3,102.57	2,356.12	2,180.29	175.83	13.400	
18,800.00	12,486.99	19,158.61	12,906.78	97.73	84.80	100.26	-7,055.44	-3,101.71	2,356.22	2,177.75	178.47	13.202	
18,900.00	12,487.52	19,258.61	12,907.66	99.07	86.13	100.27	-7,155.43	-3,100.85	2,356.32	2,175.21	181.11	13.010	
19,000.00	12,488.05	19,358.61	12,908.53	100.42	87.46	100.28	-7,255.43	-3,099.99	2,356.42	2,172.66	183.76	12.824	
19,100.00	12,488.57	19,458.61	12,909.41	101.76	88.80	100.29	-7,355.42	-3,099.13	2,356.52	2,170.12	186.40	12.642	
19,200.00	12,489.10	19,558.61	12,910.29	103.11	90.13	100.30	-7,455.41	-3,098.27	2,356.62	2,167.57	189.05	12.465	
19,300.00	12,489.63	19,658.61	12,911.17	104.46	91.47	100.30	-7,555.40	-3,097.41	2,356.73	2,165.02	191.70	12.294	
19,400.00	12,490.15	19,758.61	12,912.05	105.80	92.80	100.31	-7,655.39	-3,096.55	2,356.83	2,162.47	194.35	12.127	
19,500.00	12,490.68	19,858.61	12,912.92	107.15	94.14	100.32	-7,755.38	-3,095.69	2,356.93	2,159.92	197.00	11.964	
19,600.00	12,491.20	19,958.61	12,913.80	108.50	95.48	100.33	-7,855.38	-3,094.83	2,357.03	2,157.37	199.66	11.805	
19,700.00	12,491.73	20,058.61	12,914.68	109.85	96.82	100.34	-7,955.37	-3,093.97	2,357.13	2,154.82	202.31	11.651	
19,800.00	12,492.26	20,158.61	12,915.56	111.20	98.16	100.35	-8,055.36	-3,093.11	2,357.23	2,152.27	204.97	11.501	
19,900.00	12,492.78	20,258.61	12,916.44	112.55	99.50	100.35	-8,155.35	-3,092.25	2,357.33	2,149.71	207.62	11.354	
20,000.00	12,493.31	20,358.61	12,917.31	113.90	100.84	100.36	-8,255.34	-3,091.39	2,357.44	2,147.16	210.28	11.211	
20,100.00	12,493.84	20,458.61	12,918.19	115.25	102.19	100.37	-8,355.34	-3,090.53	2,357.54	2,144.60	212.93	11.072	
20,200.00	12,494.36	20,558.60	12,919.07	116.60	103.53	100.38	-8,455.33	-3,089.67	2,357.64	2,142.05	215.59	10.936	
20,300.00	12,494.89	20,658.60	12,919.95	117.95	104.87	100.39	-8,555.32	-3,088.81	2,357.74	2,139.49	218.25	10.803	
20,400.00	12,495.41	20,758.60	12,920.82	119.30	106.22	100.39	-8,655.31	-3,087.95	2,357.84	2,136.93	220.91	10.673	
20,500.00	12,495.94	20,858.60	12,921.70	120.65	107.56	100.40	-8,755.30	-3,087.09	2,357.95	2,134.37	223.57	10.547	
20,600.00	12,496.47	20,958.60	12,922.58	122.01	108.91	100.41	-8,855.29	-3,086.23	2,358.05	2,131.81	226.23	10.423	
20,700.00	12,496.99	21,058.60	12,923.46	123.36	110.26	100.42	-8,955.29	-3,085.37	2,358.15	2,129.25	228.89	10.302	
20,800.00	12,497.52	21,158.60	12,924.34	124.71	111.60	100.43	-9,055.28	-3,084.51	2,358.25	2,126.69	231.56	10.184	
20,900.00	12,498.04	21,258.60	12,925.21	126.07	112.95	100.44	-9,155.27	-3,083.65	2,358.35	2,124.13	234.22	10.069	
21,000.00	12,498.57	21,358.60	12,926.09	127.42	114.30	100.44	-9,255.26	-3,082.79	2,358.46	2,121.57	236.88	9.956	
21,100.00	12,499.10	21,458.60	12,926.97	128.77	115.65	100.45	-9,355.25	-3,081.93	2,358.56	2,119.01	239.55	9.846	
21,200.00	12,499.62	21,558.60	12,927.85	130.13	117.00	100.46	-9,455.25	-3,081.07	2,358.66	2,116.45	242.21	9.738	
21,300.00	12,500.15	21,658.60	12,928.73	131.48	118.35	100.47	-9,555.24	-3,080.21	2,358.76	2,113.88	244.88	9.632	
21,400.00	12,500.68	21,758.60	12,929.60	132.84	119.70	100.48	-9,655.23	-3,079.35	2,358.86	2,111.32	247.54	9.529	
21,500.00	12,501.20	21,858.60	12,930.48	134.20	121.05	100.49	-9,755.22	-3,078.48	2,358.97	2,108.76	250.21	9.428	
21,600.00	12,501.73	21,958.60	12,931.36	135.55	122.40	100.49	-9,855.21	-3,077.62	2,359.07	2,106.19	252.88	9.329	
21,700.00	12,502.25	22,058.60	12,932.24	136.91	123.75	100.50	-9,955.21	-3,076.76	2,359.17	2,103.63	255.54	9.232	
21,800.00	12,502.78	22,158.59	12,933.12	138.26	125.10	100.51	-10,055.20	-3,075.90	2,359.27	2,101.06	258.21	9.137	
21,900.00	12,503.31	22,258.59	12,933.99	139.62	126.46	100.52	-10,155.19	-3,075.04	2,359.38	2,098.50	260.88	9.044	
22,000.00	12,503.83	22,358.59	12,934.87	140.98	127.81	100.53	-10,255.18	-3,074.18	2,359.48	2,095.93	263.55	8.953	
22,100.00	12,504.36	22,458.59	12,935.75	142.33	129.16	100.53	-10,355.17	-3,073.32	2,359.58	2,093.37	266.21	8.863	
22,200.00	12,504.89	22,558.59	12,936.63	143.69	130.52	100.54	-10,455.16	-3,072.46	2,359.69	2,090.80	268.88	8.776	
22,300.00	12,505.41	22,658.59	12,937.50	145.05	131.87	100.55	-10,555.16	-3,071.60	2,359.79	2,088.24	271.55	8.690	
22,400.00	12,505.94	22,758.59	12,938.38	146.41	133.22	100.56	-10,655.15	-3,070.74	2,359.89	2,085.67	274.22	8.606	
22,500.00	12,506.46	22,858.59	12,939.26	147.76	134.58	100.57	-10,755.14	-3,069.88	2,359.99	2,083.10	276.89	8.523	
22,600.00	12,506.99	22,958.59	12,940.14	149.12	135.93	100.58	-10,855.13	-3,069.02	2,360.10	2,080.54	279.56	8.442	
22,700.00	12,507.52	23,058.59	12,941.02	150.48	137.29	100.58	-10,955.12	-3,068.16	2,360.20	2,077.97	282.23	8.363	
22,800.00	12,508.04	23,158.59	12,941.89	151.84	138.57	100.59	-11,055.12	-3,067.30	2,360.30	2,075.49	284.81	8.287	
22,830.04	12,508.20	23,188.63	12,942.16	152.25	138.94	100.59	-11,085.15	-3,067.04	2,360.33	2,074.76	285.57	8.265	ES, SF

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 222H - 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	Rule Assigned: Warning
1,900.00	1,889.64	2,095.94	2,095.52	5.71	5.74	15.48	-876.44	-2,366.86	2,410.01	2,398.70	11.32	212.976	
2,000.00	1,986.68	2,190.71	2,189.92	5.94	5.89	13.79	-875.43	-2,358.66	2,378.36	2,366.66	11.70	203.310	
2,100.00	2,083.28	2,393.88	2,391.89	6.11	6.25	13.74	-870.14	-2,337.44	2,343.07	2,330.90	12.17	192.488	
2,200.00	2,179.88	2,602.55	2,597.94	6.34	6.65	14.17	-857.42	-2,307.21	2,303.01	2,290.31	12.69	181.416	
2,300.00	2,276.47	2,747.31	2,739.79	6.61	6.92	14.55	-844.43	-2,281.45	2,259.06	2,245.93	13.12	172.119	
2,400.00	2,373.06	2,836.42	2,826.96	6.90	7.07	14.81	-835.93	-2,265.00	2,214.61	2,201.13	13.48	164.308	
2,500.00	2,469.65	2,925.54	2,914.13	7.20	7.22	15.08	-827.42	-2,248.55	2,170.20	2,156.36	13.84	156.823	
2,600.00	2,566.24	3,014.65	3,001.30	7.50	7.38	15.36	-818.91	-2,232.09	2,125.83	2,111.63	14.20	149.674	
2,700.00	2,662.84	3,103.76	3,088.46	7.82	7.53	15.66	-810.40	-2,215.64	2,081.51	2,066.93	14.57	142.844	
2,800.00	2,759.43	3,192.88	3,175.63	8.13	7.69	15.96	-801.89	-2,199.19	2,037.23	2,022.28	14.94	136.317	
2,900.00	2,856.02	3,281.99	3,262.80	8.45	7.85	16.28	-793.38	-2,182.74	1,993.00	1,977.67	15.32	130.077	
3,000.00	2,952.61	3,371.10	3,349.96	8.78	8.01	16.61	-784.87	-2,166.28	1,948.82	1,933.12	15.70	124.111	
3,100.00	3,049.20	3,460.22	3,437.13	9.10	8.20	16.96	-776.36	-2,149.83	1,904.70	1,888.61	16.09	118.383	
3,200.00	3,145.79	3,549.33	3,524.30	9.43	8.40	17.33	-767.86	-2,133.38	1,860.64	1,844.16	16.48	112.928	
3,300.00	3,242.39	3,638.44	3,611.47	9.77	8.61	17.71	-759.35	-2,116.93	1,816.64	1,799.77	16.87	107.694	
3,400.00	3,338.98	3,727.56	3,698.63	10.10	8.82	18.11	-750.84	-2,100.47	1,772.71	1,755.45	17.26	102.679	
3,500.00	3,435.57	3,816.67	3,785.80	10.44	9.03	18.53	-742.33	-2,084.02	1,728.86	1,711.19	17.66	97.871	
3,600.00	3,532.16	3,905.78	3,872.97	10.78	9.24	18.97	-733.82	-2,067.57	1,685.09	1,667.02	18.07	93.260	
3,700.00	3,628.75	3,994.90	3,960.14	11.12	9.45	19.44	-725.31	-2,051.12	1,641.40	1,622.93	18.48	88.835	
3,800.00	3,725.34	4,084.01	4,047.30	11.46	9.67	19.93	-716.80	-2,034.67	1,597.81	1,578.92	18.89	84.587	
3,900.00	3,821.94	4,173.13	4,134.47	11.80	9.89	20.45	-708.29	-2,018.21	1,554.32	1,535.02	19.31	80.507	
4,000.00	3,918.53	4,262.24	4,221.64	12.14	10.11	20.99	-699.79	-2,001.76	1,510.95	1,491.22	19.73	76.587	
4,100.00	4,015.12	4,351.35	4,308.81	12.49	10.33	21.57	-691.28	-1,985.31	1,467.69	1,447.53	20.16	72.819	
4,200.00	4,111.71	4,440.47	4,395.97	12.83	10.55	22.18	-682.77	-1,968.86	1,424.56	1,403.98	20.59	69.196	
4,300.00	4,208.30	4,529.58	4,483.14	13.18	10.78	22.83	-674.26	-1,952.40	1,381.58	1,360.56	21.03	65.710	
4,400.00	4,304.90	4,618.69	4,570.31	13.53	11.00	23.52	-665.75	-1,935.95	1,338.76	1,317.29	21.47	62.355	
4,500.00	4,401.49	4,707.81	4,657.47	13.88	11.23	24.25	-657.24	-1,919.50	1,296.11	1,274.19	21.92	59.125	
4,600.00	4,498.08	4,796.92	4,744.64	14.23	11.45	25.03	-648.73	-1,903.05	1,253.65	1,231.27	22.38	56.016	
4,700.00	4,594.67	4,886.03	4,831.81	14.58	11.68	25.87	-640.22	-1,886.59	1,211.40	1,188.55	22.85	53.020	
4,800.00	4,691.26	4,975.15	4,918.98	14.93	11.91	26.76	-631.72	-1,870.14	1,169.39	1,146.07	23.32	50.141	
4,900.00	4,788.20	5,064.87	5,006.74	15.26	12.14	27.38	-623.15	-1,853.58	1,128.74	1,104.93	23.81	47.399	
5,000.00	4,885.74	5,155.71	5,095.60	15.57	12.36	28.01	-614.47	-1,836.80	1,090.48	1,066.20	24.28	44.904	
5,100.00	4,983.82	5,229.30	5,167.72	15.85	12.53	28.46	-607.75	-1,823.81	1,055.41	1,030.64	24.77	42.605	
5,200.00	5,082.39	5,300.00	5,237.26	16.10	12.70	28.86	-601.90	-1,812.49	1,024.41	999.13	25.27	40.535	
5,300.00	5,181.35	5,381.32	5,317.52	16.32	12.88	29.31	-595.90	-1,800.89	997.49	971.74	25.75	38.743	
5,400.00	5,280.66	5,459.68	5,395.10	16.52	13.03	29.69	-590.86	-1,791.14	974.72	948.52	26.20	37.205	
5,500.00	5,380.25	5,539.30	5,474.16	16.68	13.18	30.02	-586.49	-1,782.69	956.10	929.48	26.62	35.915	
5,600.00	5,480.03	5,619.97	5,554.43	16.82	13.31	30.28	-582.84	-1,775.63	941.66	914.65	27.01	34.863	
5,700.00	5,579.96	5,700.00	5,634.22	16.93	13.43	30.47	-579.98	-1,770.11	931.39	904.03	27.36	34.041	
5,800.00	5,679.94	5,783.38	5,717.46	16.99	13.54	-90.51	-577.82	-1,765.93	925.29	897.68	27.61	33.507	
5,900.00	5,779.94	5,865.59	5,799.62	17.03	13.62	-90.43	-576.51	-1,763.40	922.20	894.40	27.80	33.171	
6,000.00	5,879.94	5,947.88	5,881.90	17.07	13.68	-90.40	-576.01	-1,762.44	921.02	893.09	27.94	32.967	
6,037.48	5,917.42	5,983.40	5,917.42	17.08	13.70	-90.40	-576.01	-1,762.43	921.01	893.04	27.97	32.931	
6,100.00	5,979.94	6,045.92	5,979.94	17.10	13.74	-90.40	-576.01	-1,762.43	921.01	892.98	28.03	32.859	
6,200.00	6,079.94	6,145.92	6,079.94	17.14	13.81	-90.40	-576.01	-1,762.43	921.01	892.88	28.14	32.733	
6,300.00	6,179.94	6,245.92	6,179.94	17.17	13.88	-90.40	-576.01	-1,762.43	921.01	892.77	28.25	32.607	
6,400.00	6,279.94	6,345.92	6,279.94	17.21	13.96	-90.40	-576.01	-1,762.43	921.01	892.66	28.35	32.482	
6,500.00	6,379.94	6,445.92	6,379.94	17.25	14.03	-90.40	-576.01	-1,762.43	921.01	892.55	28.46	32.357	
6,600.00	6,479.94	6,545.92	6,479.94	17.29	14.10	-90.40	-576.01	-1,762.43	921.01	892.44	28.57	32.233	
6,700.00	6,579.94	6,645.92	6,579.94	17.32	14.18	-90.40	-576.01	-1,762.43	921.01	892.33	28.68	32.109	
6,800.00	6,679.94	6,745.92	6,679.94	17.36	14.25	-90.40	-576.01	-1,762.43	921.01	892.22	28.80	31.985	
6,900.00	6,779.94	6,845.92	6,779.94	17.40	14.33	-90.40	-576.01	-1,762.43	921.01	892.11	28.91	31.862	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 222H - 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
7,000.00	6,879.94	6,945.92	6,879.94	17.44	14.40	-90.40	-576.01	-1,762.43	921.01	891.99	29.02	31.739	
7,100.00	6,979.94	7,045.92	6,979.94	17.48	14.47	-90.40	-576.01	-1,762.43	921.01	891.88	29.13	31.617	
7,200.00	7,079.94	7,145.92	7,079.94	17.52	14.55	-90.40	-576.01	-1,762.43	921.01	891.77	29.24	31.496	
7,300.00	7,179.94	7,245.92	7,179.94	17.56	14.62	-90.40	-576.01	-1,762.43	921.01	891.66	29.36	31.374	
7,400.00	7,279.94	7,345.92	7,279.94	17.60	14.69	-90.40	-576.01	-1,762.43	921.01	891.54	29.47	31.254	
7,500.00	7,379.94	7,445.92	7,379.94	17.64	14.77	-90.40	-576.01	-1,762.43	921.01	891.43	29.58	31.133	
7,600.00	7,479.94	7,545.92	7,479.94	17.68	14.84	-90.40	-576.01	-1,762.43	921.01	891.32	29.70	31.014	
7,700.00	7,579.94	7,645.92	7,579.94	17.72	14.92	-90.40	-576.01	-1,762.43	921.01	891.20	29.81	30.894	
7,800.00	7,679.94	7,745.92	7,679.94	17.76	14.99	-90.40	-576.01	-1,762.43	921.01	891.09	29.93	30.776	
7,900.00	7,779.94	7,845.92	7,779.94	17.80	15.07	-90.40	-576.01	-1,762.43	921.01	890.97	30.04	30.657	
8,000.00	7,879.94	7,945.92	7,879.94	17.84	15.14	-90.40	-576.01	-1,762.43	921.01	890.85	30.16	30.539	
8,100.00	7,979.94	8,045.92	7,979.94	17.88	15.22	-90.40	-576.01	-1,762.43	921.01	890.74	30.27	30.422	
8,200.00	8,079.94	8,145.92	8,079.94	17.93	15.29	-90.40	-576.01	-1,762.43	921.01	890.62	30.39	30.305	
8,300.00	8,179.94	8,245.92	8,179.94	17.97	15.37	-90.40	-576.01	-1,762.43	921.01	890.50	30.51	30.189	
8,400.00	8,279.94	8,345.92	8,279.94	18.01	15.44	-90.40	-576.01	-1,762.43	921.01	890.39	30.63	30.073	
8,500.00	8,379.94	8,445.92	8,379.94	18.05	15.51	-90.40	-576.01	-1,762.43	921.01	890.27	30.74	29.958	
8,600.00	8,479.94	8,545.92	8,479.94	18.10	15.59	-90.40	-576.01	-1,762.43	921.01	890.15	30.86	29.844	
8,700.00	8,579.94	8,645.92	8,579.94	18.14	15.66	-90.40	-576.01	-1,762.43	921.01	890.03	30.98	29.729	
8,800.00	8,679.94	8,745.92	8,679.94	18.18	15.74	-90.40	-576.01	-1,762.43	921.01	889.91	31.10	29.616	
8,900.00	8,779.94	8,845.92	8,779.94	18.23	15.82	-90.40	-576.01	-1,762.43	921.01	889.79	31.22	29.503	
9,000.00	8,879.94	8,945.92	8,879.94	18.27	15.89	-90.40	-576.01	-1,762.43	921.01	889.67	31.34	29.390	
9,100.00	8,979.94	9,045.92	8,979.94	18.32	15.97	-90.40	-576.01	-1,762.43	921.01	889.55	31.46	29.278	
9,200.00	9,079.94	9,145.92	9,079.94	18.36	16.04	-90.40	-576.01	-1,762.43	921.01	889.43	31.58	29.166	
9,300.00	9,179.94	9,245.92	9,179.94	18.41	16.12	-90.40	-576.01	-1,762.43	921.01	889.31	31.70	29.055	
9,400.00	9,279.94	9,345.92	9,279.94	18.45	16.19	-90.40	-576.01	-1,762.43	921.01	889.19	31.82	28.945	
9,500.00	9,379.94	9,445.92	9,379.94	18.50	16.27	-90.40	-576.01	-1,762.43	921.01	889.07	31.94	28.835	
9,600.00	9,479.94	9,545.92	9,479.94	18.54	16.34	-90.40	-576.01	-1,762.43	921.01	888.95	32.06	28.725	
9,700.00	9,579.94	9,645.92	9,579.94	18.59	16.42	-90.40	-576.01	-1,762.43	921.01	888.83	32.18	28.616	
9,800.00	9,679.94	9,745.92	9,679.94	18.64	16.50	-90.40	-576.01	-1,762.43	921.01	888.70	32.31	28.508	
9,900.00	9,779.94	9,845.92	9,779.94	18.68	16.57	-90.40	-576.01	-1,762.43	921.01	888.58	32.43	28.400	
10,000.00	9,879.94	9,945.92	9,879.94	18.73	16.65	-90.40	-576.01	-1,762.43	921.01	888.46	32.55	28.293	
10,100.00	9,979.94	10,045.92	9,979.94	18.78	16.72	-90.40	-576.01	-1,762.43	921.01	888.34	32.68	28.186	
10,200.00	10,079.94	10,145.92	10,079.94	18.82	16.80	-90.40	-576.01	-1,762.43	921.01	888.21	32.80	28.080	
10,300.00	10,179.94	10,245.92	10,179.94	18.87	16.88	-90.40	-576.01	-1,762.43	921.01	888.09	32.92	27.974	
10,400.00	10,279.94	10,345.92	10,279.94	18.92	16.95	-90.40	-576.01	-1,762.43	921.01	887.96	33.05	27.868	
10,500.00	10,379.94	10,445.92	10,379.94	18.97	17.03	-90.40	-576.01	-1,762.43	921.01	887.84	33.17	27.764	
10,600.00	10,479.94	10,545.92	10,479.94	19.02	17.10	-90.40	-576.01	-1,762.43	921.01	887.71	33.30	27.660	
10,700.00	10,579.94	10,645.92	10,579.94	19.07	17.18	-90.40	-576.01	-1,762.43	921.01	887.59	33.42	27.556	
10,800.00	10,679.94	10,745.92	10,679.94	19.11	17.26	-90.40	-576.01	-1,762.43	921.01	887.46	33.55	27.453	
10,900.00	10,779.94	10,845.92	10,779.94	19.16	17.33	-90.40	-576.01	-1,762.43	921.01	887.34	33.67	27.350	
11,000.00	10,879.94	10,945.92	10,879.94	19.21	17.41	-90.40	-576.01	-1,762.43	921.01	887.21	33.80	27.248	
11,100.00	10,979.94	11,045.92	10,979.94	19.26	17.49	-90.40	-576.01	-1,762.43	921.01	887.08	33.93	27.147	
11,200.00	11,079.94	11,145.92	11,079.94	19.31	17.56	-90.40	-576.01	-1,762.43	921.01	886.96	34.05	27.046	
11,300.00	11,179.94	11,245.92	11,179.94	19.36	17.64	-90.40	-576.01	-1,762.43	921.01	886.83	34.18	26.945	
11,400.00	11,279.94	11,345.92	11,279.94	19.41	17.72	-90.40	-576.01	-1,762.43	921.01	886.70	34.31	26.845	
11,500.00	11,379.94	11,445.92	11,379.94	19.46	17.79	-90.40	-576.01	-1,762.43	921.01	886.58	34.44	26.746	
11,600.00	11,479.94	11,545.92	11,479.94	19.51	17.87	-90.40	-576.01	-1,762.43	921.01	886.45	34.56	26.647	
11,700.00	11,579.94	11,645.92	11,579.94	19.56	17.95	-90.40	-576.01	-1,762.43	921.01	886.32	34.69	26.548	
11,800.00	11,679.94	11,745.92	11,679.94	19.61	18.02	-90.40	-576.01	-1,762.43	921.01	886.19	34.82	26.450	
11,900.00	11,779.94	11,845.92	11,779.94	19.67	18.10	-90.40	-576.01	-1,762.43	921.01	886.06	34.95	26.353	
12,000.00	11,879.94	11,945.92	11,879.94	19.72	18.18	-90.40	-576.01	-1,762.43	921.01	885.93	35.08	26.254	CC
12,000.00	11,879.95	11,945.93	11,879.95	19.72	18.18	-90.40	-576.01	-1,762.43	921.01	885.93	35.08	26.254	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 222H - 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	Rule Assigned: Warning
12,100.00	11,979.48	12,045.46	11,979.48	19.84	18.25	90.62	-576.01	-1,762.43	921.07	885.83	35.24	26.140	
12,200.00	12,076.09	12,142.07	12,076.09	20.05	18.33	92.07	-576.01	-1,762.43	921.69	886.16	35.53	25.938	
12,300.00	12,166.83	12,232.81	12,166.83	20.32	18.40	94.16	-576.01	-1,762.43	924.23	888.23	36.00	25.670	
12,400.00	12,248.94	12,314.92	12,248.94	20.67	18.46	96.39	-576.01	-1,762.43	930.70	894.04	36.67	25.382	
12,500.00	12,319.94	12,393.60	12,327.59	21.11	18.52	98.46	-577.51	-1,762.57	943.24	905.75	37.50	25.156	
12,600.00	12,377.66	12,485.79	12,418.60	21.65	18.56	100.54	-591.49	-1,763.92	962.28	923.90	38.38	25.069	
12,700.00	12,420.35	12,596.45	12,523.12	22.29	18.58	102.72	-627.14	-1,767.35	987.09	947.74	39.35	25.087	
12,800.00	12,446.71	12,740.21	12,645.20	23.03	18.60	105.40	-702.00	-1,774.56	1,016.03	975.58	40.44	25.121	
12,900.04	12,455.95	12,945.28	12,778.81	23.86	18.70	108.85	-855.42	-1,789.33	1,045.57	1,003.71	41.86	24.979	
13,000.00	12,456.48	13,247.34	12,858.94	24.75	19.20	112.34	-1,141.72	-1,816.90	1,065.29	1,021.86	43.44	24.525	
13,100.00	12,457.00	13,399.52	12,860.27	25.69	19.69	112.13	-1,293.50	-1,827.44	1,072.68	1,028.02	44.66	24.019	
13,200.00	12,457.53	13,552.74	12,861.60	26.67	20.40	112.08	-1,446.68	-1,829.89	1,075.12	1,028.98	46.14	23.301	
13,202.24	12,457.54	13,556.16	12,861.63	26.69	20.41	112.08	-1,450.10	-1,829.85	1,075.12	1,028.94	46.18	23.283	
13,300.00	12,458.05	13,650.61	12,862.45	27.68	20.94	112.09	-1,544.54	-1,829.05	1,075.29	1,027.73	47.56	22.610	
13,400.00	12,458.58	13,750.61	12,863.32	28.73	21.57	112.11	-1,644.54	-1,828.19	1,075.45	1,026.38	49.07	21.917	
13,500.00	12,459.11	13,850.61	12,864.19	29.80	22.26	112.12	-1,744.53	-1,827.33	1,075.62	1,024.95	50.67	21.229	
13,600.00	12,459.63	13,950.61	12,865.05	30.90	23.01	112.14	-1,844.52	-1,826.47	1,075.78	1,023.44	52.34	20.553	
13,700.00	12,460.16	14,050.61	12,865.92	32.01	23.81	112.16	-1,944.51	-1,825.61	1,075.95	1,021.86	54.09	19.893	
13,800.00	12,460.69	14,150.61	12,866.79	33.15	24.67	112.17	-2,044.50	-1,824.75	1,076.11	1,020.22	55.90	19.252	
13,900.00	12,461.21	14,250.61	12,867.66	34.30	25.57	112.19	-2,144.50	-1,823.89	1,076.28	1,018.52	57.76	18.633	
14,000.00	12,461.74	14,350.61	12,868.53	35.46	26.51	112.20	-2,244.49	-1,823.03	1,076.44	1,016.76	59.68	18.037	
14,100.00	12,462.26	14,450.60	12,869.39	36.64	27.49	112.22	-2,344.48	-1,822.17	1,076.61	1,014.96	61.64	17.465	
14,200.00	12,462.79	14,550.60	12,870.26	37.84	28.51	112.24	-2,444.47	-1,821.31	1,076.77	1,013.12	63.65	16.917	
14,300.00	12,463.32	14,650.60	12,871.13	39.04	29.55	112.25	-2,544.46	-1,820.45	1,076.94	1,011.24	65.70	16.392	
14,400.00	12,463.84	14,750.60	12,872.00	40.25	30.62	112.27	-2,644.45	-1,819.59	1,077.10	1,009.32	67.78	15.891	
14,500.00	12,464.37	14,850.60	12,872.87	41.48	31.71	112.28	-2,744.45	-1,818.72	1,077.27	1,007.38	69.89	15.413	
14,600.00	12,464.90	14,950.60	12,873.73	42.71	32.82	112.30	-2,844.44	-1,817.86	1,077.43	1,005.40	72.03	14.957	
14,700.00	12,465.42	15,050.60	12,874.60	43.95	33.96	112.32	-2,944.43	-1,817.00	1,077.60	1,003.40	74.20	14.522	
14,800.00	12,465.95	15,150.60	12,875.47	45.19	35.11	112.33	-3,044.42	-1,816.14	1,077.77	1,001.37	76.39	14.108	
14,900.00	12,466.47	15,250.60	12,876.34	46.45	36.27	112.35	-3,144.41	-1,815.28	1,077.93	999.32	78.61	13.713	
15,000.00	12,467.00	15,350.60	12,877.21	47.71	37.45	112.36	-3,244.41	-1,814.42	1,078.10	997.25	80.84	13.336	
15,100.00	12,467.53	15,450.60	12,878.07	48.97	38.64	112.38	-3,344.40	-1,813.56	1,078.26	995.17	83.09	12.976	
15,200.00	12,468.05	15,550.60	12,878.94	50.24	39.85	112.40	-3,444.39	-1,812.70	1,078.43	993.07	85.36	12.633	
15,300.00	12,468.58	15,650.60	12,879.81	51.52	41.06	112.41	-3,544.38	-1,811.84	1,078.60	990.95	87.65	12.306	
15,400.00	12,469.10	15,750.60	12,880.68	52.80	42.29	112.43	-3,644.37	-1,810.98	1,078.76	988.82	89.95	11.993	
15,500.00	12,469.63	15,850.60	12,881.55	54.08	43.52	112.45	-3,744.37	-1,810.12	1,078.93	986.67	92.26	11.695	
15,600.00	12,470.16	15,950.60	12,882.41	55.37	44.76	112.46	-3,844.36	-1,809.26	1,079.09	984.51	94.58	11.409	
15,700.00	12,470.68	16,050.60	12,883.28	56.66	46.01	112.48	-3,944.35	-1,808.40	1,079.26	982.35	96.92	11.136	
15,800.00	12,471.21	16,150.59	12,884.15	57.95	47.27	112.49	-4,044.34	-1,807.54	1,079.43	980.17	99.26	10.875	
15,900.00	12,471.74	16,250.59	12,885.02	59.25	48.53	112.51	-4,144.33	-1,806.67	1,079.59	977.98	101.61	10.624	
16,000.00	12,472.26	16,350.59	12,885.89	60.55	49.80	112.52	-4,244.33	-1,805.81	1,079.76	975.78	103.98	10.385	
16,100.00	12,472.79	16,450.59	12,886.75	61.86	51.07	112.54	-4,344.32	-1,804.95	1,079.93	973.58	106.35	10.155	
16,200.00	12,473.31	16,550.59	12,887.62	63.16	52.35	112.56	-4,444.31	-1,804.09	1,080.09	971.37	108.73	9.934	
16,300.00	12,473.84	16,650.59	12,888.49	64.47	53.63	112.57	-4,544.30	-1,803.23	1,080.26	969.15	111.11	9.722	
16,400.00	12,474.37	16,750.59	12,889.36	65.78	54.92	112.59	-4,644.29	-1,802.37	1,080.43	966.92	113.50	9.519	
16,500.00	12,474.89	16,850.59	12,890.23	67.10	56.21	112.60	-4,744.29	-1,801.51	1,080.59	964.69	115.90	9.323	
16,600.00	12,475.42	16,950.59	12,891.09	68.41	57.50	112.62	-4,844.28	-1,800.65	1,080.76	962.46	118.30	9.135	
16,700.00	12,475.94	17,050.59	12,891.96	69.73	58.80	112.64	-4,944.27	-1,799.79	1,080.93	960.22	120.71	8.955	
16,800.00	12,476.47	17,150.59	12,892.83	71.05	60.10	112.65	-5,044.26	-1,798.93	1,081.10	957.97	123.13	8.780	
16,900.00	12,477.00	17,250.59	12,893.70	72.37	61.41	112.67	-5,144.25	-1,798.07	1,081.26	955.72	125.55	8.613	
17,000.00	12,477.52	17,350.59	12,894.57	73.70	62.71	112.68	-5,244.25	-1,797.21	1,081.43	953.46	127.97	8.451	
17,100.00	12,478.05	17,450.59	12,895.43	75.02	64.02	112.70	-5,344.24	-1,796.35	1,081.60	951.20	130.40	8.295	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 222H - 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	Rule Assigned: Warning
17,200.00	12,478.58	17,550.59	12,896.30	76.35	65.34	112.72	-5,444.23	-1,795.49	1,081.77	948.94	132.83	8.144	
17,300.00	12,479.10	17,650.59	12,897.17	77.68	66.65	112.73	-5,544.22	-1,794.62	1,081.93	946.67	135.26	7.999	
17,400.00	12,479.63	17,750.59	12,898.04	79.01	67.97	112.75	-5,644.21	-1,793.76	1,082.10	944.40	137.70	7.859	
17,500.00	12,480.15	17,850.58	12,898.91	80.34	69.29	112.76	-5,744.20	-1,792.90	1,082.27	942.13	140.14	7.723	
17,600.00	12,480.68	17,950.58	12,899.77	81.67	70.61	112.78	-5,844.20	-1,792.04	1,082.44	939.86	142.58	7.592	
17,700.00	12,481.21	18,050.58	12,900.64	83.00	71.93	112.80	-5,944.19	-1,791.18	1,082.61	937.58	145.03	7.465	
17,800.00	12,481.73	18,150.58	12,901.51	84.34	73.25	112.81	-6,044.18	-1,790.32	1,082.77	935.30	147.48	7.342	
17,900.00	12,482.26	18,250.58	12,902.38	85.67	74.58	112.83	-6,144.17	-1,789.46	1,082.94	933.01	149.93	7.223	
18,000.00	12,482.79	18,350.58	12,903.25	87.01	75.91	112.84	-6,244.16	-1,788.60	1,083.11	930.73	152.38	7.108	
18,100.00	12,483.31	18,450.58	12,904.11	88.35	77.24	112.86	-6,344.16	-1,787.74	1,083.28	928.44	154.84	6.996	
18,200.00	12,483.84	18,550.58	12,904.98	89.68	78.57	112.88	-6,444.15	-1,786.88	1,083.45	926.15	157.30	6.888	
18,300.00	12,484.36	18,650.58	12,905.85	91.02	79.90	112.89	-6,544.14	-1,786.02	1,083.62	923.86	159.75	6.783	
18,400.00	12,484.89	18,750.58	12,906.72	92.36	81.23	112.91	-6,644.13	-1,785.16	1,083.79	921.57	162.22	6.681	
18,500.00	12,485.42	18,850.58	12,907.59	93.70	82.57	112.92	-6,744.12	-1,784.30	1,083.95	919.27	164.68	6.582	
18,600.00	12,485.94	18,950.58	12,908.45	95.05	83.90	112.94	-6,844.12	-1,783.44	1,084.12	916.98	167.14	6.486	
18,700.00	12,486.47	19,050.58	12,909.32	96.39	85.24	112.95	-6,944.11	-1,782.58	1,084.29	914.68	169.61	6.393	
18,800.00	12,486.99	19,150.58	12,910.19	97.73	86.58	112.97	-7,044.10	-1,781.71	1,084.46	912.38	172.08	6.302	
18,900.00	12,487.52	19,250.58	12,911.06	99.07	87.92	112.99	-7,144.09	-1,780.85	1,084.63	910.08	174.55	6.214	
19,000.00	12,488.05	19,350.58	12,911.93	100.42	89.26	113.00	-7,244.08	-1,779.99	1,084.80	907.78	177.02	6.128	
19,100.00	12,488.57	19,450.58	12,912.79	101.76	90.60	113.02	-7,344.08	-1,779.13	1,084.97	905.48	179.49	6.045	
19,200.00	12,489.10	19,550.57	12,913.66	103.11	91.94	113.03	-7,444.07	-1,778.27	1,085.14	903.18	181.96	5.964	
19,300.00	12,489.63	19,650.57	12,914.53	104.46	93.28	113.05	-7,544.06	-1,777.41	1,085.31	900.87	184.43	5.885	
19,400.00	12,490.15	19,750.57	12,915.40	105.80	94.62	113.07	-7,644.05	-1,776.55	1,085.48	898.57	186.91	5.808	
19,500.00	12,490.68	19,850.57	12,916.27	107.15	95.97	113.08	-7,744.04	-1,775.69	1,085.65	896.26	189.38	5.733	
19,600.00	12,491.20	19,950.57	12,917.13	108.50	97.31	113.10	-7,844.04	-1,774.83	1,085.82	893.96	191.86	5.659	
19,700.00	12,491.73	20,050.57	12,918.00	109.85	98.66	113.11	-7,944.03	-1,773.97	1,085.99	891.65	194.34	5.588	
19,800.00	12,492.26	20,150.57	12,918.87	111.20	100.00	113.13	-8,044.02	-1,773.11	1,086.16	889.34	196.81	5.519	
19,900.00	12,492.78	20,250.57	12,919.74	112.55	101.35	113.14	-8,144.01	-1,772.25	1,086.33	887.03	199.29	5.451	
20,000.00	12,493.31	20,350.57	12,920.61	113.90	102.70	113.16	-8,244.00	-1,771.39	1,086.50	884.72	201.77	5.385	
20,100.00	12,493.84	20,450.57	12,921.48	115.25	104.04	113.18	-8,344.00	-1,770.53	1,086.67	882.41	204.25	5.320	
20,200.00	12,494.36	20,550.57	12,922.34	116.60	105.39	113.19	-8,443.99	-1,769.66	1,086.84	880.10	206.73	5.257	
20,300.00	12,494.89	20,650.57	12,923.21	117.95	106.74	113.21	-8,543.98	-1,768.80	1,087.01	877.79	209.21	5.196	
20,400.00	12,495.41	20,750.57	12,924.08	119.30	108.09	113.22	-8,643.97	-1,767.94	1,087.18	875.48	211.69	5.136	
20,500.00	12,495.94	20,850.57	12,924.95	120.65	109.44	113.24	-8,743.96	-1,767.08	1,087.35	873.17	214.18	5.077	
20,600.00	12,496.47	20,950.57	12,925.82	122.01	110.79	113.25	-8,843.95	-1,766.22	1,087.52	870.86	216.66	5.020	
20,700.00	12,496.99	21,050.57	12,926.68	123.36	112.14	113.27	-8,943.95	-1,765.36	1,087.69	868.55	219.14	4.963	
20,800.00	12,497.52	21,150.57	12,927.55	124.71	113.49	113.29	-9,043.94	-1,764.50	1,087.86	866.23	221.62	4.909	
20,900.00	12,498.04	21,250.56	12,928.42	126.07	114.84	113.30	-9,143.93	-1,763.64	1,088.03	863.92	224.11	4.855	
21,000.00	12,498.57	21,350.56	12,929.29	127.42	116.20	113.32	-9,243.92	-1,762.78	1,088.20	861.61	226.59	4.803	
21,100.00	12,499.10	21,450.56	12,930.16	128.77	117.55	113.33	-9,343.91	-1,761.92	1,088.37	859.30	229.07	4.751	
21,200.00	12,499.62	21,550.56	12,931.02	130.13	118.90	113.35	-9,443.91	-1,761.06	1,088.54	856.98	231.56	4.701	
21,300.00	12,500.15	21,650.56	12,931.89	131.48	120.26	113.36	-9,543.90	-1,760.20	1,088.71	854.67	234.04	4.652	
21,400.00	12,500.68	21,750.56	12,932.76	132.84	121.61	113.38	-9,643.89	-1,759.34	1,088.88	852.36	236.53	4.604	
21,500.00	12,501.20	21,850.56	12,933.63	134.20	122.96	113.40	-9,743.88	-1,758.48	1,089.05	850.04	239.01	4.557	
21,600.00	12,501.73	21,950.56	12,934.50	135.55	124.32	113.41	-9,843.87	-1,757.61	1,089.23	847.73	241.50	4.510	
21,700.00	12,502.25	22,050.56	12,935.36	136.91	125.67	113.43	-9,943.87	-1,756.75	1,089.40	845.42	243.98	4.465	
21,800.00	12,502.78	22,150.56	12,936.23	138.26	127.03	113.44	-10,043.86	-1,755.89	1,089.57	843.10	246.46	4.421	
21,900.00	12,503.31	22,250.56	12,937.10	139.62	128.38	113.46	-10,143.85	-1,755.03	1,089.74	840.79	248.95	4.377	
22,000.00	12,503.83	22,350.56	12,937.97	140.98	129.74	113.47	-10,243.84	-1,754.17	1,089.91	838.48	251.43	4.335	
22,100.00	12,504.36	22,450.56	12,938.84	142.33	131.10	113.49	-10,343.83	-1,753.31	1,090.08	836.16	253.92	4.293	
22,200.00	12,504.89	22,550.56	12,939.70	143.69	132.45	113.51	-10,443.83	-1,752.45	1,090.26	833.85	256.41	4.252	
22,300.00	12,505.41	22,650.56	12,940.57	145.05	133.81	113.52	-10,543.82	-1,751.59	1,090.43	831.54	258.89	4.212	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 222H - OH - Plan #1

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
22,400.00	12,505.94	22,750.56	12,941.44	146.41	135.17	113.54	-10,643.81	-1,750.73	1,090.60	829.22	261.38	4.173	
22,500.00	12,506.46	22,850.56	12,942.31	147.76	136.52	113.55	-10,743.80	-1,749.87	1,090.77	826.91	263.86	4.134	
22,600.00	12,506.99	22,950.55	12,943.18	149.12	137.88	113.57	-10,843.79	-1,749.01	1,090.94	824.60	266.35	4.096	
22,700.00	12,507.52	23,050.55	12,944.04	150.48	139.24	113.58	-10,943.79	-1,748.15	1,091.12	822.29	268.83	4.059	
22,800.00	12,508.04	23,150.55	12,944.91	151.84	140.59	113.60	-11,043.78	-1,747.29	1,091.29	819.97	271.32	4.022	
22,830.04	12,508.20	23,180.59	12,945.17	152.25	141.00	113.60	-11,073.81	-1,747.03	1,091.34	819.28	272.06	4.011	ES, SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	1.00	0.00	0.50	0.50	0.00	50.00	0.00	50.00				
100.00	100.00	101.00	100.00	0.98	0.99	0.00	50.00	0.00	50.00	48.03	1.97	25.411	
200.00	200.00	201.00	200.00	1.56	1.57	0.00	50.00	0.00	50.00	46.87	3.13	15.993	
300.00	300.00	301.00	300.00	1.98	1.98	0.00	50.00	0.00	50.00	46.03	3.97	12.608	
400.00	400.00	401.00	400.00	2.33	2.33	0.00	50.00	0.00	50.00	45.34	4.66	10.725	
500.00	500.00	501.00	500.00	2.63	2.64	0.00	50.00	0.00	50.00	44.73	5.27	9.484	CC, ES
600.00	599.99	600.99	599.99	2.97	2.91	160.49	50.00	0.00	51.23	45.36	5.87	8.724	
700.00	699.91	700.91	699.91	3.26	3.17	161.84	50.00	0.00	54.95	48.53	6.42	8.563	
800.00	799.69	800.69	799.69	3.54	3.40	163.73	50.00	0.00	61.20	54.27	6.93	8.830	
900.00	899.32	900.32	899.32	3.65	3.62	165.70	50.00	0.00	69.47	62.20	7.27	9.560	
1,000.00	998.94	999.94	998.94	3.87	3.84	167.28	50.00	0.00	77.94	70.25	7.69	10.133	
1,100.00	1,098.56	1,099.56	1,098.56	4.07	4.04	168.55	50.00	0.00	86.47	78.36	8.10	10.669	
1,200.00	1,198.18	1,199.18	1,198.18	4.28	4.23	169.59	50.00	0.00	95.03	86.52	8.51	11.173	
1,300.00	1,297.78	1,298.78	1,297.78	4.39	4.42	164.41	50.00	0.00	103.75	94.95	8.80	11.788	
1,400.00	1,397.24	1,398.24	1,397.24	4.60	4.60	156.36	50.00	0.00	113.53	104.34	9.19	12.347	
1,500.00	1,496.46	1,497.46	1,496.46	4.82	4.77	151.99	50.00	0.00	124.73	115.14	9.59	13.007	
1,600.00	1,595.38	1,596.38	1,595.38	5.04	4.94	150.01	50.00	0.00	137.55	127.57	9.98	13.782	
1,700.00	1,693.92	1,694.92	1,693.92	5.27	5.11	149.55	50.00	0.00	152.25	141.88	10.37	14.684	
1,800.00	1,792.04	1,793.04	1,792.04	5.49	5.27	150.01	50.00	0.00	169.03	158.27	10.75	15.718	
1,900.00	1,889.64	1,890.64	1,889.64	5.71	5.42	151.01	50.00	0.00	188.05	176.91	11.13	16.889	
2,000.00	1,986.68	1,987.68	1,986.68	5.94	5.57	152.30	50.00	0.00	209.45	197.94	11.51	18.195	
2,100.00	2,083.28	2,089.67	2,088.67	6.11	5.74	155.00	49.23	-0.72	231.74	219.89	11.85	19.564	
2,200.00	2,179.88	2,193.66	2,192.57	6.34	5.90	157.51	46.41	-3.34	251.96	239.75	12.21	20.639	
2,300.00	2,276.47	2,298.81	2,297.50	6.61	6.05	159.60	41.45	-7.96	269.86	257.30	12.57	21.474	
2,400.00	2,373.06	2,404.98	2,403.22	6.90	6.21	161.40	34.30	-14.61	285.32	272.39	12.93	22.073	
2,500.00	2,469.65	2,512.04	2,509.50	7.20	6.37	163.01	24.91	-23.34	298.23	284.94	13.29	22.448	
2,600.00	2,566.24	2,619.80	2,616.09	7.50	6.54	164.49	13.27	-34.18	308.54	294.89	13.64	22.612	
2,700.00	2,662.84	2,728.12	2,722.72	7.82	6.71	165.89	-0.65	-47.13	316.20	302.20	14.00	22.579	
2,800.00	2,759.43	2,833.71	2,826.14	8.13	6.86	167.21	-16.24	-61.63	321.36	307.00	14.36	22.378	
2,900.00	2,856.02	2,933.37	2,923.62	8.45	7.00	168.42	-31.40	-75.74	326.04	311.33	14.71	22.160	
3,000.00	2,952.61	3,033.02	3,021.10	8.78	7.13	169.59	-46.57	-89.85	330.87	315.80	15.07	21.954	
3,100.00	3,049.20	3,132.68	3,118.58	9.10	7.27	170.74	-61.73	-103.96	335.83	320.40	15.43	21.760	
3,200.00	3,145.79	3,232.33	3,216.06	9.43	7.41	171.84	-76.90	-118.07	340.92	325.12	15.80	21.578	
3,300.00	3,242.39	3,331.99	3,313.53	9.77	7.56	172.92	-92.06	-132.18	346.14	329.97	16.17	21.405	
3,400.00	3,338.98	3,431.64	3,411.01	10.10	7.72	173.96	-107.23	-146.29	351.48	334.93	16.54	21.244	
3,500.00	3,435.57	3,531.30	3,508.49	10.44	7.90	174.98	-122.39	-160.41	356.92	339.99	16.93	21.080	
3,600.00	3,532.16	3,630.95	3,605.97	10.78	8.11	175.96	-137.56	-174.52	362.48	345.16	17.32	20.931	
3,700.00	3,628.75	3,730.61	3,703.45	11.12	8.32	176.91	-152.72	-188.63	368.14	350.43	17.71	20.789	
3,800.00	3,725.34	3,830.26	3,800.93	11.46	8.54	177.83	-167.89	-202.74	373.90	355.80	18.10	20.652	
3,900.00	3,821.94	3,929.92	3,898.40	11.80	8.76	178.73	-183.05	-216.85	379.75	361.25	18.51	20.521	
4,000.00	3,918.53	4,029.57	3,995.88	12.14	8.99	179.60	-198.22	-230.96	385.70	366.78	18.91	20.394	
4,100.00	4,015.12	4,129.23	4,093.36	12.49	9.22	-179.56	-213.38	-245.07	391.72	372.40	19.32	20.272	
4,200.00	4,111.71	4,228.88	4,190.84	12.83	9.45	-178.75	-228.55	-259.18	397.83	378.10	19.74	20.155	
4,300.00	4,208.30	4,328.54	4,288.32	13.18	9.69	-177.96	-243.71	-273.29	404.02	383.86	20.16	20.041	
4,400.00	4,304.90	4,428.19	4,385.80	13.53	9.93	-177.19	-258.88	-287.40	410.28	389.70	20.58	19.931	
4,500.00	4,401.49	4,527.85	4,483.27	13.88	10.18	-176.45	-274.04	-301.51	416.62	395.60	21.02	19.825	
4,600.00	4,498.08	4,627.50	4,580.75	14.23	10.42	-175.73	-289.21	-315.62	423.02	401.57	21.45	19.721	
4,700.00	4,594.67	4,727.16	4,678.23	14.58	10.67	-175.03	-304.37	-329.73	429.49	407.60	21.89	19.621	
4,800.00	4,691.26	4,826.81	4,775.71	14.93	10.92	-174.35	-319.53	-343.84	436.02	413.69	22.33	19.526	
4,900.00	4,788.20	4,926.54	4,873.26	15.26	11.18	-173.68	-334.71	-357.96	441.25	418.46	22.79	19.360	
5,000.00	4,885.74	5,026.35	4,970.89	15.57	11.43	-172.98	-349.90	-372.09	443.95	420.70	23.25	19.092	
5,100.00	4,983.82	5,126.18	5,068.54	15.85	11.69	-172.24	-365.09	-386.23	444.12	420.41	23.71	18.729	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
5,200.00	5,082.39	5,225.97	5,166.14	16.10	11.95	-171.44	-380.27	-400.36	441.78	417.61	24.17	18.277	
5,300.00	5,181.35	5,325.63	5,263.63	16.32	12.21	-170.58	-395.44	-414.47	436.94	412.32	24.63	17.741	
5,400.00	5,280.66	5,425.11	5,360.94	16.52	12.47	-169.63	-410.58	-428.55	429.63	404.55	25.08	17.128	
5,500.00	5,380.25	5,524.34	5,458.00	16.68	12.74	-168.57	-425.68	-442.60	419.88	394.35	25.54	16.443	
5,600.00	5,480.03	5,623.24	5,554.74	16.82	13.00	-167.36	-440.73	-456.61	407.74	381.75	25.99	15.690	
5,700.00	5,579.96	5,721.75	5,651.10	16.93	13.26	-165.99	-455.72	-470.56	393.25	366.82	26.43	14.877	
5,800.00	5,679.94	5,819.81	5,747.02	16.99	13.53	74.50	-470.64	-484.44	376.49	349.67	26.82	14.038	
5,900.00	5,779.94	5,917.63	5,842.70	17.03	13.79	76.23	-485.53	-498.29	358.83	331.66	27.17	13.206	
6,000.00	5,879.94	6,015.44	5,938.38	17.07	14.05	78.13	-500.41	-512.14	341.53	313.99	27.54	12.400	
6,100.00	5,979.94	6,109.73	6,030.68	17.10	14.28	80.11	-514.51	-525.26	324.94	297.04	27.90	11.647	
6,200.00	6,079.94	6,200.00	6,119.42	17.14	14.51	81.97	-526.60	-536.51	310.47	282.20	28.27	10.983	
6,300.00	6,179.94	6,295.00	6,213.21	17.17	14.72	83.81	-537.67	-546.80	298.22	269.58	28.64	10.413	
6,400.00	6,279.94	6,388.70	6,306.05	17.21	14.91	85.46	-546.91	-555.40	288.13	259.15	28.98	9.943	
6,500.00	6,379.94	6,482.97	6,399.74	17.25	15.07	86.90	-554.51	-562.48	280.07	250.79	29.28	9.564	
6,600.00	6,479.94	6,577.70	6,494.12	17.29	15.21	88.08	-560.45	-568.01	273.95	244.40	29.55	9.271	
6,700.00	6,579.94	6,672.77	6,589.02	17.32	15.33	88.95	-564.69	-571.95	269.69	239.92	29.77	9.058	
6,800.00	6,679.94	6,768.08	6,684.26	17.36	15.43	89.48	-567.20	-574.28	267.20	237.26	29.95	8.922	
6,900.00	6,779.94	6,863.77	6,779.94	17.40	15.48	89.65	-567.97	-575.00	266.45	236.41	30.04	8.871	
7,000.00	6,879.94	6,963.77	6,879.94	17.44	15.51	89.65	-567.97	-575.00	266.45	236.34	30.10	8.851	
7,100.00	6,979.94	7,063.77	6,979.94	17.48	15.55	89.65	-567.97	-575.00	266.45	236.26	30.18	8.828	
7,200.00	7,079.94	7,163.77	7,079.94	17.52	15.59	89.65	-567.97	-575.00	266.45	236.18	30.26	8.804	
7,300.00	7,179.94	7,263.77	7,179.94	17.56	15.63	89.65	-567.97	-575.00	266.45	236.10	30.34	8.781	
7,400.00	7,279.94	7,363.77	7,279.94	17.60	15.67	89.65	-567.97	-575.00	266.45	236.02	30.42	8.757	
7,500.00	7,379.94	7,463.77	7,379.94	17.64	15.72	89.65	-567.97	-575.00	266.45	235.94	30.51	8.734	
7,600.00	7,479.94	7,563.77	7,479.94	17.68	15.76	89.65	-567.97	-575.00	266.45	235.86	30.59	8.710	
7,700.00	7,579.94	7,663.77	7,579.94	17.72	15.80	89.65	-567.97	-575.00	266.45	235.77	30.67	8.687	
7,800.00	7,679.94	7,763.77	7,679.94	17.76	15.84	89.65	-567.97	-575.00	266.45	235.69	30.76	8.663	
7,900.00	7,779.94	7,863.77	7,779.94	17.80	15.89	89.65	-567.97	-575.00	266.45	235.60	30.84	8.639	
8,000.00	7,879.94	7,963.77	7,879.94	17.84	15.93	89.65	-567.97	-575.00	266.45	235.52	30.93	8.615	
8,100.00	7,979.94	8,063.77	7,979.94	17.88	15.97	89.65	-567.97	-575.00	266.45	235.43	31.01	8.591	
8,200.00	8,079.94	8,163.77	8,079.94	17.93	16.02	89.65	-567.97	-575.00	266.45	235.35	31.10	8.567	
8,300.00	8,179.94	8,263.77	8,179.94	17.97	16.06	89.65	-567.97	-575.00	266.45	235.26	31.19	8.543	
8,400.00	8,279.94	8,363.77	8,279.94	18.01	16.11	89.65	-567.97	-575.00	266.45	235.17	31.28	8.519	
8,500.00	8,379.94	8,463.77	8,379.94	18.05	16.15	89.65	-567.97	-575.00	266.45	235.08	31.36	8.495	
8,600.00	8,479.94	8,563.77	8,479.94	18.10	16.20	89.65	-567.97	-575.00	266.45	234.99	31.45	8.471	
8,700.00	8,579.94	8,663.77	8,579.94	18.14	16.24	89.65	-567.97	-575.00	266.45	234.90	31.54	8.447	
8,800.00	8,679.94	8,763.77	8,679.94	18.18	16.29	89.65	-567.97	-575.00	266.45	234.81	31.63	8.423	
8,900.00	8,779.94	8,863.77	8,779.94	18.23	16.33	89.65	-567.97	-575.00	266.45	234.72	31.72	8.399	
9,000.00	8,879.94	8,963.77	8,879.94	18.27	16.38	89.65	-567.97	-575.00	266.45	234.63	31.81	8.375	
9,100.00	8,979.94	9,063.77	8,979.94	18.32	16.43	89.65	-567.97	-575.00	266.45	234.54	31.91	8.351	
9,200.00	9,079.94	9,163.77	9,079.94	18.36	16.47	89.65	-567.97	-575.00	266.45	234.45	32.00	8.327	
9,300.00	9,179.94	9,263.77	9,179.94	18.41	16.52	89.65	-567.97	-575.00	266.45	234.35	32.09	8.303	
9,400.00	9,279.94	9,363.77	9,279.94	18.45	16.57	89.65	-567.97	-575.00	266.45	234.26	32.19	8.278	
9,500.00	9,379.94	9,463.77	9,379.94	18.50	16.62	89.65	-567.97	-575.00	266.45	234.17	32.28	8.254	
9,600.00	9,479.94	9,563.77	9,479.94	18.54	16.67	89.65	-567.97	-575.00	266.45	234.07	32.37	8.230	
9,700.00	9,579.94	9,663.77	9,579.94	18.59	16.71	89.65	-567.97	-575.00	266.45	233.98	32.47	8.206	
9,800.00	9,679.94	9,763.77	9,679.94	18.64	16.76	89.65	-567.97	-575.00	266.45	233.88	32.57	8.182	
9,900.00	9,779.94	9,863.77	9,779.94	18.68	16.81	89.65	-567.97	-575.00	266.45	233.78	32.66	8.158	
10,000.00	9,879.94	9,963.77	9,879.94	18.73	16.86	89.65	-567.97	-575.00	266.45	233.69	32.76	8.134	
10,100.00	9,979.94	10,063.77	9,979.94	18.78	16.91	89.65	-567.97	-575.00	266.45	233.59	32.86	8.109	
10,200.00	10,079.94	10,163.77	10,079.94	18.82	16.96	89.65	-567.97	-575.00	266.45	233.49	32.95	8.085	
10,300.00	10,179.94	10,263.77	10,179.94	18.87	17.01	89.65	-567.97	-575.00	266.45	233.39	33.05	8.061	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
10,400.00	10,279.94	10,363.77	10,279.94	18.92	17.06	89.65	-567.97	-575.00	266.45	233.29	33.15	8.037	
10,500.00	10,379.94	10,463.77	10,379.94	18.97	17.11	89.65	-567.97	-575.00	266.45	233.19	33.25	8.013	
10,600.00	10,479.94	10,563.77	10,479.94	19.02	17.16	89.65	-567.97	-575.00	266.45	233.09	33.35	7.989	
10,700.00	10,579.94	10,663.77	10,579.94	19.07	17.21	89.65	-567.97	-575.00	266.45	232.99	33.45	7.965	
10,800.00	10,679.94	10,763.77	10,679.94	19.11	17.26	89.65	-567.97	-575.00	266.45	232.89	33.55	7.941	
10,900.00	10,779.94	10,863.77	10,779.94	19.16	17.31	89.65	-567.97	-575.00	266.45	232.79	33.65	7.917	
11,000.00	10,879.94	10,963.77	10,879.94	19.21	17.37	89.65	-567.97	-575.00	266.45	232.69	33.76	7.893	
11,100.00	10,979.94	11,063.77	10,979.94	19.26	17.42	89.65	-567.97	-575.00	266.45	232.59	33.86	7.870	
11,200.00	11,079.94	11,163.77	11,079.94	19.31	17.47	89.65	-567.97	-575.00	266.45	232.48	33.96	7.846	
11,300.00	11,179.94	11,263.77	11,179.94	19.36	17.52	89.65	-567.97	-575.00	266.45	232.38	34.06	7.822	
11,400.00	11,279.94	11,363.77	11,279.94	19.41	17.57	89.65	-567.97	-575.00	266.45	232.28	34.17	7.798	
11,500.00	11,379.94	11,463.77	11,379.94	19.46	17.63	89.65	-567.97	-575.00	266.45	232.17	34.27	7.774	
11,600.00	11,479.94	11,563.77	11,479.94	19.51	17.68	89.65	-567.97	-575.00	266.45	232.07	34.38	7.751	
11,700.00	11,579.94	11,663.77	11,579.94	19.56	17.73	89.65	-567.97	-575.00	266.45	231.96	34.48	7.727	
11,800.00	11,679.94	11,763.77	11,679.94	19.61	17.79	89.65	-567.97	-575.00	266.45	231.86	34.59	7.703	
11,900.00	11,779.94	11,863.77	11,779.94	19.67	17.84	89.65	-567.97	-575.00	266.45	231.75	34.69	7.680	
12,000.00	11,879.94	11,963.77	11,879.94	19.72	17.90	89.65	-567.97	-575.00	266.45	231.64	34.80	7.656	
12,029.70	11,909.64	11,993.46	11,909.64	19.76	17.91	-90.00	-567.97	-575.00	266.44	231.62	34.82	7.651	
12,100.00	11,979.48	12,063.31	11,979.48	19.84	17.95	-91.58	-567.97	-575.00	266.55	231.75	34.79	7.661	
12,200.00	12,076.09	12,159.92	12,076.09	20.05	18.00	-96.61	-567.97	-575.00	268.45	233.81	34.64	7.750	
12,300.00	12,166.83	12,250.65	12,166.83	20.32	18.05	-103.65	-567.97	-575.00	276.66	242.23	34.43	8.035	
12,400.00	12,248.94	12,338.47	12,254.63	20.67	18.11	-111.33	-568.79	-574.92	296.82	262.51	34.31	8.651	
12,500.00	12,319.94	12,444.01	12,358.90	21.11	18.27	-119.20	-584.00	-573.41	328.19	293.46	34.73	9.449	
12,600.00	12,377.66	12,567.97	12,475.30	21.65	18.58	-126.08	-625.74	-569.28	366.15	329.75	36.40	10.059	
12,700.00	12,420.35	12,719.03	12,600.80	22.29	19.12	-131.85	-708.61	-561.09	405.67	365.78	39.89	10.170	
12,800.00	12,446.71	12,907.07	12,719.82	23.03	20.12	-135.94	-852.40	-546.86	440.57	395.46	45.11	9.767	
12,900.04	12,455.95	13,134.39	12,792.26	23.86	21.86	-137.26	-1,065.27	-525.80	463.72	413.22	50.50	9.183	
13,000.00	12,456.48	13,284.76	12,797.37	24.75	23.28	-136.51	-1,214.80	-512.13	470.46	418.01	52.45	8.970	
13,100.00	12,457.00	13,397.52	12,797.96	25.69	24.43	-136.09	-1,327.41	-506.38	473.36	419.68	53.68	8.818	
13,200.00	12,457.53	13,504.83	12,798.53	26.67	25.56	-136.03	-1,434.70	-504.69	473.81	418.88	54.93	8.626	
13,300.00	12,458.05	13,604.83	12,799.05	27.68	26.65	-136.03	-1,534.69	-503.78	473.81	417.73	56.08	8.449	
13,400.00	12,458.58	13,704.83	12,799.58	28.73	27.77	-136.03	-1,634.68	-502.87	473.82	416.54	57.28	8.272	
13,500.00	12,459.11	13,804.83	12,800.10	29.80	28.91	-136.03	-1,734.68	-501.96	473.83	415.30	58.53	8.096	
13,600.00	12,459.63	13,904.83	12,800.63	30.90	30.06	-136.03	-1,834.67	-501.05	473.84	414.02	59.81	7.922	
13,700.00	12,460.16	14,004.83	12,801.16	32.01	31.23	-136.03	-1,934.67	-500.14	473.84	412.71	61.14	7.751	
13,800.00	12,460.69	14,104.83	12,801.68	33.15	32.42	-136.02	-2,034.66	-499.23	473.85	411.35	62.50	7.582	
13,900.00	12,461.21	14,204.83	12,802.21	34.30	33.62	-136.02	-2,134.66	-498.32	473.86	409.96	63.89	7.416	
14,000.00	12,461.74	14,304.83	12,802.73	35.46	34.83	-136.02	-2,234.65	-497.41	473.87	408.54	65.32	7.254	
14,100.00	12,462.26	14,404.83	12,803.26	36.64	36.06	-136.02	-2,334.65	-496.50	473.87	407.09	66.78	7.096	
14,200.00	12,462.79	14,504.83	12,803.79	37.84	37.29	-136.02	-2,434.64	-495.59	473.88	405.61	68.27	6.942	
14,300.00	12,463.32	14,604.83	12,804.31	39.04	38.53	-136.02	-2,534.63	-494.68	473.89	404.11	69.78	6.791	
14,400.00	12,463.84	14,704.83	12,804.84	40.25	39.78	-136.02	-2,634.63	-493.77	473.90	402.58	71.32	6.645	
14,500.00	12,464.37	14,804.83	12,805.36	41.48	41.04	-136.02	-2,734.62	-492.86	473.90	401.03	72.88	6.503	
14,600.00	12,464.90	14,904.83	12,805.89	42.71	42.30	-136.02	-2,834.62	-491.95	473.91	399.45	74.46	6.365	
14,700.00	12,465.42	15,004.83	12,806.42	43.95	43.57	-136.02	-2,934.61	-491.04	473.92	397.86	76.06	6.231	
14,800.00	12,465.95	15,104.83	12,806.94	45.19	44.85	-136.02	-3,034.61	-490.13	473.93	396.24	77.68	6.101	
14,900.00	12,466.47	15,204.83	12,807.47	46.45	46.13	-136.01	-3,134.60	-489.22	473.93	394.61	79.32	5.975	
15,000.00	12,467.00	15,304.83	12,807.99	47.71	47.42	-136.01	-3,234.60	-488.31	473.94	392.96	80.98	5.853	
15,100.00	12,467.53	15,404.83	12,808.52	48.97	48.71	-136.01	-3,334.59	-487.40	473.95	391.30	82.65	5.734	
15,200.00	12,468.05	15,504.83	12,809.05	50.24	50.00	-136.01	-3,434.58	-486.49	473.95	389.62	84.34	5.620	
15,300.00	12,468.58	15,604.83	12,809.57	51.52	51.30	-136.01	-3,534.58	-485.58	473.96	387.93	86.04	5.509	
15,400.00	12,469.10	15,704.83	12,810.10	52.80	52.60	-136.01	-3,634.57	-484.67	473.97	386.22	87.75	5.401	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
15,500.00	12,469.63	15,804.83	12,810.62	54.08	53.91	-136.01	-3,734.57	-483.76	473.98	384.50	89.48	5.297	
15,600.00	12,470.16	15,904.83	12,811.15	55.37	55.22	-136.01	-3,834.56	-482.85	473.98	382.77	91.21	5.196	
15,700.00	12,470.68	16,004.83	12,811.68	56.66	56.53	-136.01	-3,934.56	-481.94	473.99	381.03	92.96	5.099	
15,800.00	12,471.21	16,104.83	12,812.20	57.95	57.84	-136.01	-4,034.55	-481.03	474.00	379.28	94.72	5.004	
15,900.00	12,471.74	16,204.83	12,812.73	59.25	59.16	-136.00	-4,134.55	-480.12	474.01	377.51	96.49	4.912	
16,000.00	12,472.26	16,304.83	12,813.25	60.55	60.47	-136.00	-4,234.54	-479.20	474.01	375.74	98.27	4.823	
16,100.00	12,472.79	16,404.83	12,813.78	61.86	61.79	-136.00	-4,334.53	-478.29	474.02	373.96	100.06	4.737	
16,200.00	12,473.31	16,504.83	12,814.31	63.16	63.12	-136.00	-4,434.53	-477.38	474.03	372.17	101.86	4.654	
16,300.00	12,473.84	16,604.83	12,814.83	64.47	64.44	-136.00	-4,534.52	-476.47	474.04	370.38	103.66	4.573	
16,400.00	12,474.37	16,704.83	12,815.36	65.78	65.77	-136.00	-4,634.52	-475.56	474.04	368.57	105.47	4.494	
16,500.00	12,474.89	16,804.83	12,815.88	67.10	67.10	-136.00	-4,734.51	-474.65	474.05	366.76	107.29	4.418	
16,600.00	12,475.42	16,904.83	12,816.41	68.41	68.43	-136.00	-4,834.51	-473.74	474.06	364.94	109.12	4.345	
16,700.00	12,475.94	17,004.83	12,816.94	69.73	69.76	-136.00	-4,934.50	-472.83	474.07	363.12	110.95	4.273	
16,800.00	12,476.47	17,104.83	12,817.46	71.05	71.09	-136.00	-5,034.50	-471.92	474.07	361.29	112.79	4.203	
16,900.00	12,477.00	17,204.83	12,817.99	72.37	72.42	-135.99	-5,134.49	-471.01	474.08	359.45	114.63	4.136	
17,000.00	12,477.52	17,304.83	12,818.51	73.70	73.76	-135.99	-5,234.49	-470.10	474.09	357.61	116.48	4.070	
17,100.00	12,478.05	17,404.83	12,819.04	75.02	75.09	-135.99	-5,334.48	-469.19	474.10	355.76	118.34	4.006	
17,200.00	12,478.58	17,504.83	12,819.57	76.35	76.43	-135.99	-5,434.47	-468.28	474.10	353.91	120.20	3.944	
17,300.00	12,479.10	17,604.83	12,820.09	77.68	77.77	-135.99	-5,534.47	-467.37	474.11	352.05	122.06	3.884	
17,400.00	12,479.63	17,704.83	12,820.62	79.01	79.11	-135.99	-5,634.46	-466.46	474.12	350.18	123.93	3.826	
17,500.00	12,480.15	17,804.83	12,821.14	80.34	80.45	-135.99	-5,734.46	-465.55	474.12	348.32	125.81	3.769	
17,600.00	12,480.68	17,904.83	12,821.67	81.67	81.79	-135.99	-5,834.45	-464.64	474.13	346.45	127.69	3.713	
17,700.00	12,481.21	18,004.83	12,822.20	83.00	83.13	-135.99	-5,934.45	-463.73	474.14	344.57	129.57	3.659	
17,800.00	12,481.73	18,104.83	12,822.72	84.34	84.48	-135.99	-6,034.44	-462.82	474.15	342.69	131.45	3.607	
17,900.00	12,482.26	18,204.83	12,823.25	85.67	85.82	-135.99	-6,134.44	-461.91	474.15	340.81	133.35	3.556	
18,000.00	12,482.79	18,304.83	12,823.77	87.01	87.17	-135.98	-6,234.43	-461.00	474.16	338.92	135.24	3.506	
18,100.00	12,483.31	18,404.83	12,824.30	88.35	88.51	-135.98	-6,334.42	-460.09	474.17	337.03	137.14	3.458	
18,200.00	12,483.84	18,504.83	12,824.83	89.68	89.86	-135.98	-6,434.42	-459.18	474.18	335.14	139.04	3.410	
18,300.00	12,484.36	18,604.83	12,825.35	91.02	91.20	-135.98	-6,534.41	-458.27	474.18	333.24	140.94	3.364	
18,400.00	12,484.89	18,704.83	12,825.88	92.36	92.55	-135.98	-6,634.41	-457.36	474.19	331.34	142.85	3.320	
18,500.00	12,485.42	18,804.83	12,826.40	93.70	93.90	-135.98	-6,734.40	-456.45	474.20	329.44	144.76	3.276	
18,600.00	12,485.94	18,904.83	12,826.93	95.05	95.25	-135.98	-6,834.40	-455.54	474.21	327.54	146.67	3.233	
18,700.00	12,486.47	19,004.83	12,827.46	96.39	96.60	-135.98	-6,934.39	-454.63	474.21	325.63	148.59	3.192	
18,800.00	12,486.99	19,104.83	12,827.98	97.73	97.95	-135.98	-7,034.39	-453.72	474.22	323.72	150.50	3.151	
18,900.00	12,487.52	19,204.83	12,828.51	99.07	99.30	-135.98	-7,134.38	-452.81	474.23	321.80	152.42	3.111	
19,000.00	12,488.05	19,304.83	12,829.03	100.42	100.65	-135.97	-7,234.37	-451.90	474.24	319.89	154.35	3.073	
19,100.00	12,488.57	19,404.83	12,829.56	101.76	102.00	-135.97	-7,334.37	-450.99	474.24	317.97	156.27	3.035	
19,200.00	12,489.10	19,504.83	12,830.09	103.11	103.35	-135.97	-7,434.36	-450.08	474.25	316.05	158.20	2.998	
19,300.00	12,489.63	19,604.83	12,830.61	104.46	104.71	-135.97	-7,534.36	-449.17	474.26	314.13	160.13	2.962	
19,400.00	12,490.15	19,704.83	12,831.14	105.80	106.06	-135.97	-7,634.35	-448.26	474.26	312.20	162.06	2.926	
19,500.00	12,490.68	19,804.83	12,831.66	107.15	107.41	-135.97	-7,734.35	-447.35	474.27	310.28	163.99	2.892	
19,600.00	12,491.20	19,904.83	12,832.19	108.50	108.77	-135.97	-7,834.34	-446.44	474.28	308.35	165.93	2.858	
19,700.00	12,491.73	20,004.83	12,832.72	109.85	110.12	-135.97	-7,934.34	-445.53	474.29	306.42	167.87	2.825	
19,800.00	12,492.26	20,104.83	12,833.24	111.20	111.47	-135.97	-8,034.33	-444.62	474.29	304.49	169.81	2.793	
19,900.00	12,492.78	20,204.83	12,833.77	112.55	112.83	-135.97	-8,134.33	-443.71	474.30	302.55	171.75	2.762	
20,000.00	12,493.31	20,304.83	12,834.29	113.90	114.18	-135.97	-8,234.32	-442.79	474.31	300.62	173.69	2.731	
20,100.00	12,493.84	20,404.83	12,834.82	115.25	115.54	-135.96	-8,334.31	-441.88	474.32	298.68	175.64	2.701	
20,200.00	12,494.36	20,504.83	12,835.35	116.60	116.90	-135.96	-8,434.31	-440.97	474.32	296.74	177.58	2.671	
20,300.00	12,494.89	20,604.83	12,835.87	117.95	118.25	-135.96	-8,534.30	-440.06	474.33	294.80	179.53	2.642	
20,400.00	12,495.41	20,704.83	12,836.40	119.30	119.61	-135.96	-8,634.30	-439.15	474.34	292.86	181.48	2.614	
20,500.00	12,495.94	20,804.83	12,836.92	120.65	120.96	-135.96	-8,734.29	-438.24	474.35	290.92	183.43	2.586	
20,600.00	12,496.47	20,904.83	12,837.45	122.01	122.32	-135.96	-8,834.29	-437.33	474.35	288.97	185.38	2.559	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
20,700.00	12,496.99	21,004.83	12,837.98	123.36	123.68	-135.96	-8,934.28	-436.42	474.36	287.02	187.34	2.532	
20,800.00	12,497.52	21,104.83	12,838.50	124.71	125.04	-135.96	-9,034.28	-435.51	474.37	285.08	189.29	2.506	
20,900.00	12,498.04	21,204.83	12,839.03	126.07	126.39	-135.96	-9,134.27	-434.60	474.38	283.13	191.25	2.480	
21,000.00	12,498.57	21,304.83	12,839.55	127.42	127.75	-135.96	-9,234.26	-433.69	474.38	281.18	193.20	2.455	
21,100.00	12,499.10	21,404.83	12,840.08	128.77	129.11	-135.95	-9,334.26	-432.78	474.39	279.23	195.16	2.431	
21,200.00	12,499.62	21,504.83	12,840.61	130.13	130.47	-135.95	-9,434.25	-431.87	474.40	277.28	197.12	2.407	
21,300.00	12,500.15	21,604.83	12,841.13	131.48	131.83	-135.95	-9,534.25	-430.96	474.41	275.32	199.08	2.383	
21,400.00	12,500.68	21,704.83	12,841.66	132.84	133.19	-135.95	-9,634.24	-430.05	474.41	273.37	201.05	2.360	
21,500.00	12,501.20	21,804.83	12,842.18	134.20	134.55	-135.95	-9,734.24	-429.14	474.42	271.41	203.01	2.337	
21,600.00	12,501.73	21,904.83	12,842.71	135.55	135.91	-135.95	-9,834.23	-428.23	474.43	269.45	204.97	2.315	
21,700.00	12,502.25	22,004.83	12,843.24	136.91	137.26	-135.95	-9,934.23	-427.32	474.43	267.50	206.94	2.293	
21,800.00	12,502.78	22,104.83	12,843.76	138.26	138.62	-135.95	-10,034.22	-426.41	474.44	265.54	208.90	2.271	
21,900.00	12,503.31	22,204.83	12,844.29	139.62	139.98	-135.95	-10,134.21	-425.50	474.45	263.58	210.87	2.250	
22,000.00	12,503.83	22,304.83	12,844.81	140.98	141.34	-135.95	-10,234.21	-424.59	474.46	261.62	212.84	2.229	
22,100.00	12,504.36	22,404.83	12,845.34	142.33	142.71	-135.95	-10,334.20	-423.68	474.46	259.66	214.81	2.209	
22,200.00	12,504.89	22,504.83	12,845.87	143.69	144.07	-135.94	-10,434.20	-422.77	474.47	257.69	216.78	2.189	
22,300.00	12,505.41	22,604.83	12,846.39	145.05	145.43	-135.94	-10,534.19	-421.86	474.48	255.73	218.75	2.169	
22,400.00	12,505.94	22,704.83	12,846.92	146.41	146.79	-135.94	-10,634.19	-420.95	474.49	253.77	220.72	2.150	
22,500.00	12,506.46	22,804.83	12,847.44	147.76	148.15	-135.94	-10,734.18	-420.04	474.49	251.80	222.69	2.131	
22,600.00	12,506.99	22,904.83	12,847.97	149.12	149.51	-135.94	-10,834.18	-419.13	474.50	249.83	224.67	2.112	
22,700.00	12,507.52	23,004.83	12,848.50	150.48	150.87	-135.94	-10,934.17	-418.22	474.51	247.87	226.64	2.094	
22,800.00	12,508.04	23,104.83	12,849.02	151.84	152.23	-135.94	-11,034.16	-417.31	474.52	245.90	228.62	2.076	
22,830.04	12,508.20	23,134.87	12,849.18	152.25	152.64	-135.94	-11,064.20	-417.03	474.52	245.31	229.21	2.070	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	1.00	0.00	0.50	0.50	180.00	-135.00	0.00	135.00				
100.00	100.00	101.00	100.00	0.98	0.99	180.00	-135.00	0.00	135.00	133.03	1.97	68.610	
200.00	200.00	201.00	200.00	1.56	1.57	180.00	-135.00	0.00	135.00	131.87	3.13	43.181	
300.00	300.00	301.00	300.00	1.98	1.98	180.00	-135.00	0.00	135.00	131.03	3.97	34.041	
400.00	400.00	401.00	400.00	2.33	2.33	180.00	-135.00	0.00	135.00	130.34	4.66	28.958	
500.00	500.00	501.00	500.00	2.63	2.64	180.00	-135.00	0.00	135.00	129.73	5.27	25.608	
600.00	599.99	600.99	599.99	2.97	2.91	-20.20	-135.00	0.00	133.77	127.90	5.87	22.780	
700.00	699.91	700.91	699.91	3.26	3.17	-20.81	-135.00	0.00	130.09	123.68	6.41	20.285	
800.00	799.69	800.69	799.69	3.54	3.40	-21.92	-135.00	0.00	124.00	117.08	6.92	17.921	
900.00	899.32	900.32	899.32	3.65	3.62	-23.52	-135.00	0.00	116.09	108.84	7.25	16.017	
1,000.00	998.94	999.94	998.94	3.87	3.84	-25.36	-135.00	0.00	108.15	100.48	7.67	14.106	
1,100.00	1,098.56	1,099.56	1,098.56	4.07	4.04	-27.49	-135.00	0.00	100.34	92.27	8.07	12.431	
1,200.00	1,198.18	1,199.18	1,198.18	4.28	4.23	-29.97	-135.00	0.00	92.69	84.22	8.46	10.952	
1,300.00	1,297.78	1,298.78	1,297.78	4.39	4.42	-39.30	-135.00	0.00	85.23	76.48	8.74	9.746	
1,400.00	1,397.24	1,398.24	1,397.24	4.60	4.60	-54.57	-135.00	0.00	78.15	69.03	9.12	8.572	
1,500.00	1,496.46	1,497.46	1,496.46	4.82	4.77	-69.87	-135.00	0.00	72.36	62.89	9.46	7.646	
1,600.00	1,595.38	1,596.38	1,595.38	5.04	4.94	-86.34	-135.00	0.00	69.34	59.55	9.80	7.079	
1,621.31	1,616.41	1,617.41	1,616.41	5.09	4.98	-90.00	-135.00	0.00	69.23	59.36	9.87	7.016	CC, ES
1,700.00	1,693.92	1,694.92	1,693.92	5.27	5.11	-103.62	-135.00	0.00	70.89	60.75	10.14	6.991	
1,800.00	1,792.04	1,791.15	1,790.15	5.49	5.28	-119.64	-135.50	0.96	79.37	68.83	10.54	7.531	
1,900.00	1,889.64	1,886.19	1,885.11	5.71	5.44	-132.43	-137.10	4.02	96.05	85.10	10.94	8.776	
2,000.00	1,986.68	1,979.81	1,978.56	5.94	5.60	-141.53	-139.75	9.08	119.75	108.41	11.34	10.558	
2,100.00	2,083.28	2,071.99	2,070.40	6.11	5.75	-146.62	-143.39	16.03	148.57	136.91	11.66	12.740	
2,200.00	2,179.88	2,163.09	2,160.96	6.34	5.91	-149.49	-148.00	24.84	180.11	168.10	12.01	14.998	
2,300.00	2,276.47	2,253.06	2,250.13	6.61	6.06	-151.20	-153.54	35.41	213.86	201.51	12.35	17.319	
2,400.00	2,373.06	2,341.81	2,337.79	6.90	6.21	-152.17	-159.95	47.66	249.59	236.91	12.68	19.677	
2,500.00	2,469.65	2,429.27	2,423.85	7.20	6.36	-152.65	-167.19	61.49	287.18	274.16	13.02	22.058	
2,600.00	2,566.24	2,515.39	2,508.21	7.50	6.51	-152.82	-175.21	76.81	326.53	313.18	13.35	24.453	
2,700.00	2,662.84	2,600.00	2,590.70	7.82	6.66	-152.78	-183.95	93.50	367.61	353.92	13.69	26.858	
2,800.00	2,759.43	2,686.58	2,674.69	8.13	6.74	-152.60	-193.68	112.08	410.21	396.23	13.98	29.347	
2,900.00	2,856.02	2,776.91	2,762.26	8.45	6.87	-152.42	-203.97	131.74	453.09	438.74	14.36	31.563	
3,000.00	2,952.61	2,867.24	2,849.82	8.78	7.01	-152.27	-214.26	151.40	495.97	481.23	14.75	33.631	
3,100.00	3,049.20	2,957.57	2,937.39	9.10	7.15	-152.14	-224.55	171.06	538.86	523.71	15.15	35.577	
3,200.00	3,145.79	3,047.91	3,024.95	9.43	7.32	-152.04	-234.84	190.72	581.75	566.20	15.55	37.414	
3,300.00	3,242.39	3,138.24	3,112.52	9.77	7.54	-151.94	-245.13	210.37	624.63	608.67	15.96	39.137	
3,400.00	3,338.98	3,228.57	3,200.08	10.10	7.76	-151.86	-255.42	230.03	667.52	651.15	16.38	40.763	
3,500.00	3,435.57	3,318.90	3,287.65	10.44	8.00	-151.79	-265.71	249.69	710.41	693.62	16.80	42.296	
3,600.00	3,532.16	3,409.23	3,375.21	10.78	8.23	-151.73	-276.00	269.35	753.30	736.08	17.22	43.744	
3,700.00	3,628.75	3,499.57	3,462.77	11.12	8.47	-151.68	-286.29	289.01	796.19	778.54	17.65	45.110	
3,800.00	3,725.34	3,589.90	3,550.34	11.46	8.72	-151.63	-296.58	308.66	839.09	821.00	18.08	46.402	
3,900.00	3,821.94	3,680.23	3,637.90	11.80	8.97	-151.58	-306.88	328.32	881.98	863.46	18.52	47.623	
4,000.00	3,918.53	3,770.56	3,725.47	12.14	9.22	-151.54	-317.17	347.98	924.87	905.91	18.96	48.780	
4,100.00	4,015.12	3,860.89	3,813.03	12.49	9.48	-151.50	-327.46	367.64	967.76	948.36	19.40	49.875	
4,200.00	4,111.71	3,951.23	3,900.60	12.83	9.74	-151.47	-337.75	387.30	1,010.66	990.81	19.85	50.914	
4,300.00	4,208.30	4,041.56	3,988.16	13.18	10.00	-151.44	-348.04	406.95	1,053.55	1,033.25	20.30	51.900	
4,400.00	4,304.90	4,131.89	4,075.73	13.53	10.27	-151.41	-358.33	426.61	1,096.45	1,075.69	20.75	52.836	
4,500.00	4,401.49	4,222.22	4,163.29	13.88	10.53	-151.38	-368.62	446.27	1,139.34	1,118.13	21.21	53.726	
4,600.00	4,498.08	4,312.55	4,250.85	14.23	10.80	-151.36	-378.91	465.93	1,182.23	1,160.57	21.66	54.573	
4,700.00	4,594.67	4,402.89	4,338.42	14.58	11.08	-151.33	-389.20	485.59	1,225.13	1,203.01	22.12	55.379	
4,800.00	4,691.26	4,493.22	4,425.98	14.93	11.35	-151.32	-399.49	505.24	1,268.02	1,245.44	22.58	56.153	
4,900.00	4,788.20	4,584.05	4,514.03	15.26	11.63	-151.60	-409.84	525.01	1,309.83	1,286.78	23.05	56.823	
5,000.00	4,885.74	4,675.80	4,602.97	15.57	11.91	-151.80	-420.29	544.98	1,349.54	1,326.03	23.51	57.392	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	4,983.82	4,768.40	4,692.73	15.85	12.20	-151.93	-430.84	565.13	1,387.13	1,363.16	23.97	57.863	
5,200.00	5,082.39	4,861.78	4,783.26	16.10	12.49	-152.00	-441.48	585.45	1,422.58	1,398.16	24.42	58.245	
5,300.00	5,181.35	4,955.90	4,874.49	16.32	12.78	-152.00	-452.20	605.93	1,455.88	1,431.01	24.87	58.545	
5,400.00	5,280.66	5,050.67	4,966.36	16.52	13.08	-151.95	-463.00	626.56	1,487.02	1,461.72	25.30	58.770	
5,500.00	5,380.25	5,146.04	5,058.81	16.68	13.38	-151.85	-473.87	647.31	1,515.99	1,490.26	25.73	58.928	
5,600.00	5,480.03	5,241.95	5,151.77	16.82	13.69	-151.69	-484.79	668.18	1,542.79	1,516.66	26.14	59.028	
5,700.00	5,579.96	5,338.31	5,245.19	16.93	13.99	-151.48	-495.77	689.15	1,567.43	1,540.90	26.53	59.074	
5,800.00	5,679.94	5,451.71	5,355.17	16.99	14.35	87.75	-508.56	713.59	1,589.76	1,562.81	26.94	59.000	
5,900.00	5,779.94	5,605.82	5,505.69	17.03	14.79	88.35	-523.88	742.86	1,608.51	1,581.02	27.49	58.510	
6,000.00	5,879.94	5,762.44	5,659.90	17.07	15.18	88.82	-536.55	767.06	1,623.82	1,595.83	27.99	58.011	
6,100.00	5,979.94	5,921.08	5,817.11	17.10	15.50	89.18	-546.39	785.85	1,635.58	1,607.14	28.44	57.506	
6,200.00	6,079.94	6,081.24	5,976.57	17.14	15.76	89.43	-553.24	798.93	1,643.71	1,614.87	28.83	57.005	
6,300.00	6,179.94	6,242.37	6,137.48	17.17	15.94	89.56	-556.99	806.11	1,648.14	1,618.98	29.16	56.518	
6,400.00	6,279.94	6,384.84	6,279.94	17.21	16.02	89.59	-557.75	807.55	1,649.03	1,619.71	29.32	56.234	
6,500.00	6,379.94	6,484.84	6,379.94	17.25	16.06	89.59	-557.75	807.55	1,649.03	1,619.63	29.41	56.078	
6,600.00	6,479.94	6,584.84	6,479.94	17.29	16.11	89.59	-557.75	807.55	1,649.03	1,619.54	29.49	55.913	
6,700.00	6,579.94	6,684.84	6,579.94	17.32	16.16	89.59	-557.75	807.55	1,649.03	1,619.45	29.58	55.748	
6,800.00	6,679.94	6,784.84	6,679.94	17.36	16.21	89.59	-557.75	807.55	1,649.03	1,619.36	29.67	55.582	
6,900.00	6,779.94	6,884.84	6,779.94	17.40	16.26	89.59	-557.75	807.55	1,649.03	1,619.28	29.76	55.416	
7,000.00	6,879.94	6,984.84	6,879.94	17.44	16.31	89.59	-557.75	807.55	1,649.03	1,619.19	29.85	55.250	
7,100.00	6,979.94	7,084.84	6,979.94	17.48	16.36	89.59	-557.75	807.55	1,649.03	1,619.10	29.94	55.084	
7,200.00	7,079.94	7,184.84	7,079.94	17.52	16.41	89.59	-557.75	807.55	1,649.03	1,619.01	30.03	54.918	
7,300.00	7,179.94	7,284.84	7,179.94	17.56	16.46	89.59	-557.75	807.55	1,649.03	1,618.91	30.12	54.751	
7,400.00	7,279.94	7,384.84	7,279.94	17.60	16.51	89.59	-557.75	807.55	1,649.03	1,618.82	30.21	54.585	
7,500.00	7,379.94	7,484.84	7,379.94	17.64	16.56	89.59	-557.75	807.55	1,649.03	1,618.73	30.30	54.418	
7,600.00	7,479.94	7,584.84	7,479.94	17.68	16.61	89.59	-557.75	807.55	1,649.03	1,618.64	30.40	54.252	
7,700.00	7,579.94	7,684.84	7,579.94	17.72	16.66	89.59	-557.75	807.55	1,649.03	1,618.54	30.49	54.085	
7,800.00	7,679.94	7,784.84	7,679.94	17.76	16.71	89.59	-557.75	807.55	1,649.03	1,618.45	30.58	53.918	
7,900.00	7,779.94	7,884.84	7,779.94	17.80	16.77	89.59	-557.75	807.55	1,649.03	1,618.35	30.68	53.752	
8,000.00	7,879.94	7,984.84	7,879.94	17.84	16.82	89.59	-557.75	807.55	1,649.03	1,618.26	30.77	53.585	
8,100.00	7,979.94	8,084.84	7,979.94	17.88	16.87	89.59	-557.75	807.55	1,649.03	1,618.16	30.87	53.419	
8,200.00	8,079.94	8,184.84	8,079.94	17.93	16.92	89.59	-557.75	807.55	1,649.03	1,618.07	30.97	53.252	
8,300.00	8,179.94	8,284.84	8,179.94	17.97	16.98	89.59	-557.75	807.55	1,649.03	1,617.97	31.06	53.086	
8,400.00	8,279.94	8,384.84	8,279.94	18.01	17.03	89.59	-557.75	807.55	1,649.03	1,617.87	31.16	52.920	
8,500.00	8,379.94	8,484.84	8,379.94	18.05	17.08	89.59	-557.75	807.55	1,649.03	1,617.77	31.26	52.754	
8,600.00	8,479.94	8,584.84	8,479.94	18.10	17.14	89.59	-557.75	807.55	1,649.03	1,617.68	31.36	52.588	
8,700.00	8,579.94	8,684.84	8,579.94	18.14	17.19	89.59	-557.75	807.55	1,649.03	1,617.58	31.46	52.422	
8,800.00	8,679.94	8,784.84	8,679.94	18.18	17.24	89.59	-557.75	807.55	1,649.03	1,617.48	31.56	52.256	
8,900.00	8,779.94	8,884.85	8,779.94	18.23	17.30	89.59	-557.75	807.55	1,649.03	1,617.38	31.66	52.091	
9,000.00	8,879.94	8,984.85	8,879.94	18.27	17.35	89.59	-557.75	807.55	1,649.03	1,617.28	31.76	51.926	
9,100.00	8,979.94	9,084.85	8,979.94	18.32	17.41	89.59	-557.75	807.55	1,649.03	1,617.17	31.86	51.761	
9,200.00	9,079.94	9,184.85	9,079.94	18.36	17.46	89.59	-557.75	807.55	1,649.03	1,617.07	31.96	51.596	
9,300.00	9,179.94	9,284.85	9,179.94	18.41	17.52	89.59	-557.75	807.55	1,649.03	1,616.97	32.06	51.431	
9,400.00	9,279.94	9,384.85	9,279.94	18.45	17.57	89.59	-557.75	807.55	1,649.03	1,616.87	32.17	51.267	
9,500.00	9,379.94	9,484.85	9,379.94	18.50	17.63	89.59	-557.75	807.55	1,649.03	1,616.76	32.27	51.103	
9,600.00	9,479.94	9,584.85	9,479.94	18.54	17.68	89.59	-557.75	807.55	1,649.03	1,616.66	32.37	50.939	
9,700.00	9,579.94	9,684.85	9,579.94	18.59	17.74	89.59	-557.75	807.55	1,649.03	1,616.56	32.48	50.776	
9,800.00	9,679.94	9,784.85	9,679.94	18.64	17.80	89.59	-557.75	807.55	1,649.03	1,616.45	32.58	50.612	
9,900.00	9,779.94	9,884.85	9,779.94	18.68	17.85	89.59	-557.75	807.55	1,649.03	1,616.35	32.69	50.450	
10,000.00	9,879.94	9,984.85	9,879.94	18.73	17.91	89.59	-557.75	807.55	1,649.03	1,616.24	32.79	50.287	
10,100.00	9,979.94	10,084.85	9,979.94	18.78	17.97	89.59	-557.75	807.55	1,649.03	1,616.13	32.90	50.125	
10,200.00	10,079.94	10,184.85	10,079.94	18.82	18.02	89.59	-557.75	807.55	1,649.03	1,616.03	33.01	49.963	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	Rule Assigned: Warning
10,300.00	10,179.94	10,284.85	10,179.94	18.87	18.08	89.59	-557.75	807.55	1,649.03	1,615.92	33.11	49.801	
10,400.00	10,279.94	10,384.85	10,279.94	18.92	18.14	89.59	-557.75	807.55	1,649.03	1,615.81	33.22	49.640	
10,500.00	10,379.94	10,484.85	10,379.94	18.97	18.19	89.59	-557.75	807.55	1,649.03	1,615.71	33.33	49.479	
10,600.00	10,479.94	10,584.85	10,479.94	19.02	18.25	89.59	-557.75	807.55	1,649.03	1,615.60	33.44	49.319	
10,700.00	10,579.94	10,684.85	10,579.94	19.07	18.31	89.59	-557.75	807.55	1,649.03	1,615.49	33.54	49.159	
10,800.00	10,679.94	10,784.85	10,679.94	19.11	18.37	89.59	-557.75	807.55	1,649.03	1,615.38	33.65	48.999	
10,900.00	10,779.94	10,884.85	10,779.94	19.16	18.43	89.59	-557.75	807.55	1,649.03	1,615.27	33.76	48.840	
11,000.00	10,879.94	10,984.85	10,879.94	19.21	18.48	89.59	-557.75	807.55	1,649.03	1,615.16	33.87	48.681	
11,100.00	10,979.94	11,084.85	10,979.94	19.26	18.54	89.59	-557.75	807.55	1,649.03	1,615.05	33.98	48.523	
11,200.00	11,079.94	11,184.85	11,079.94	19.31	18.60	89.59	-557.75	807.55	1,649.03	1,614.94	34.10	48.365	
11,300.00	11,179.94	11,284.85	11,179.94	19.36	18.66	89.59	-557.75	807.55	1,649.03	1,614.83	34.21	48.208	
11,400.00	11,279.94	11,384.85	11,279.94	19.41	18.72	89.59	-557.75	807.55	1,649.03	1,614.71	34.32	48.051	
11,500.00	11,379.94	11,484.85	11,379.94	19.46	18.78	89.59	-557.75	807.55	1,649.03	1,614.60	34.43	47.894	
11,600.00	11,479.94	11,584.85	11,479.94	19.51	18.84	89.59	-557.75	807.55	1,649.03	1,614.49	34.54	47.738	
11,700.00	11,579.94	11,684.85	11,579.94	19.56	18.90	89.59	-557.75	807.55	1,649.03	1,614.38	34.66	47.582	
11,800.00	11,679.94	11,784.85	11,679.94	19.61	18.96	89.59	-557.75	807.55	1,649.03	1,614.26	34.77	47.427	
11,900.00	11,779.94	11,884.85	11,779.94	19.67	19.02	89.59	-557.75	807.55	1,649.03	1,614.15	34.88	47.272	
12,000.00	11,879.94	11,984.85	11,879.94	19.72	19.08	89.59	-557.75	807.55	1,649.03	1,614.03	35.00	47.116	
12,059.20	11,939.04	12,043.94	11,939.04	19.79	19.11	-90.00	-557.75	807.55	1,649.03	1,613.96	35.07	47.025	
12,100.00	11,979.48	12,084.38	11,979.48	19.84	19.14	-90.18	-557.75	807.55	1,649.04	1,613.93	35.11	46.965	
12,200.00	12,076.09	12,180.99	12,076.09	20.05	19.20	-91.00	-557.75	807.55	1,649.31	1,614.01	35.30	46.717	
12,300.00	12,166.83	12,271.73	12,166.83	20.32	19.24	-92.18	-557.75	807.55	1,650.61	1,615.04	35.57	46.401	
12,400.00	12,248.94	12,375.97	12,270.54	20.67	19.35	-93.68	-566.82	807.63	1,653.54	1,617.60	35.94	46.010	
12,500.00	12,319.94	12,493.82	12,383.56	21.11	19.57	-95.22	-599.44	807.93	1,657.78	1,621.23	36.54	45.363	
12,600.00	12,377.66	12,629.18	12,501.94	21.65	19.93	-96.75	-664.41	808.52	1,662.87	1,625.34	37.53	44.311	
12,700.00	12,420.35	12,786.11	12,615.66	22.29	20.52	-98.20	-771.84	809.50	1,667.99	1,628.96	39.03	42.738	
12,800.00	12,446.71	12,965.69	12,704.54	23.03	21.47	-99.34	-927.03	810.91	1,671.98	1,630.87	41.11	40.671	
12,900.04	12,455.95	13,161.67	12,741.83	23.86	22.86	-99.84	-1,118.45	812.64	1,673.69	1,630.11	43.58	38.403	
13,000.00	12,456.48	13,266.23	12,742.45	24.75	23.72	-99.84	-1,223.01	813.59	1,673.70	1,628.32	45.38	36.879	
13,100.00	12,457.00	13,366.23	12,742.98	25.69	24.59	-99.84	-1,323.00	814.50	1,673.71	1,626.48	47.23	35.434	
13,200.00	12,457.53	13,466.23	12,743.50	26.67	25.51	-99.84	-1,423.00	815.41	1,673.72	1,624.56	49.16	34.043	
13,300.00	12,458.05	13,566.23	12,744.03	27.68	26.47	-99.84	-1,522.99	816.32	1,673.73	1,622.57	51.16	32.713	
13,400.00	12,458.58	13,666.23	12,744.56	28.73	27.47	-99.84	-1,622.99	817.23	1,673.74	1,620.51	53.23	31.445	
13,500.00	12,459.11	13,766.23	12,745.08	29.80	28.49	-99.84	-1,722.98	818.14	1,673.75	1,618.40	55.35	30.242	
13,600.00	12,459.63	13,866.23	12,745.61	30.90	29.54	-99.84	-1,822.97	819.05	1,673.76	1,616.25	57.51	29.103	
13,700.00	12,460.16	13,966.23	12,746.13	32.01	30.62	-99.84	-1,922.97	819.95	1,673.77	1,614.04	59.72	28.026	
13,800.00	12,460.69	14,066.23	12,746.66	33.15	31.72	-99.84	-2,022.96	820.86	1,673.78	1,611.80	61.97	27.008	
13,900.00	12,461.21	14,166.23	12,747.18	34.30	32.84	-99.84	-2,122.96	821.77	1,673.78	1,609.53	64.26	26.048	
14,000.00	12,461.74	14,266.23	12,747.71	35.46	33.98	-99.84	-2,222.95	822.68	1,673.79	1,607.22	66.57	25.142	
14,100.00	12,462.26	14,366.23	12,748.24	36.64	35.13	-99.84	-2,322.95	823.59	1,673.80	1,604.88	68.92	24.286	
14,200.00	12,462.79	14,466.23	12,748.76	37.84	36.29	-99.84	-2,422.94	824.50	1,673.81	1,602.52	71.29	23.479	
14,300.00	12,463.32	14,566.23	12,749.29	39.04	37.47	-99.84	-2,522.94	825.41	1,673.82	1,600.14	73.68	22.717	
14,400.00	12,463.84	14,666.23	12,749.81	40.25	38.67	-99.84	-2,622.93	826.31	1,673.83	1,597.73	76.10	21.996	
14,500.00	12,464.37	14,766.23	12,750.34	41.48	39.87	-99.84	-2,722.92	827.22	1,673.84	1,595.31	78.53	21.315	
14,600.00	12,464.90	14,866.23	12,750.87	42.71	41.08	-99.84	-2,822.92	828.13	1,673.85	1,592.87	80.98	20.670	
14,700.00	12,465.42	14,966.23	12,751.39	43.95	42.31	-99.84	-2,922.91	829.04	1,673.86	1,590.41	83.45	20.059	
14,800.00	12,465.95	15,066.23	12,751.92	45.19	43.54	-99.84	-3,022.91	829.95	1,673.86	1,587.94	85.93	19.480	
14,900.00	12,466.47	15,166.23	12,752.44	46.45	44.78	-99.84	-3,122.90	830.86	1,673.87	1,585.46	88.42	18.931	
15,000.00	12,467.00	15,266.23	12,752.97	47.71	46.02	-99.84	-3,222.90	831.77	1,673.88	1,582.96	90.92	18.410	
15,100.00	12,467.53	15,366.23	12,753.49	48.97	47.27	-99.84	-3,322.89	832.67	1,673.89	1,580.45	93.44	17.914	
15,200.00	12,468.05	15,466.23	12,754.02	50.24	48.53	-99.84	-3,422.89	833.58	1,673.90	1,577.93	95.97	17.443	
15,300.00	12,468.58	15,566.23	12,754.55	51.52	49.80	-99.84	-3,522.88	834.49	1,673.91	1,575.41	98.50	16.994	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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	Rule Assigned: Warning
15,400.00	12,469.10	15,666.23	12,755.07	52.80	51.07	-99.84	-3,622.88	835.40	1,673.92	1,572.87	101.05	16.566	
15,500.00	12,469.63	15,766.23	12,755.60	54.08	52.34	-99.84	-3,722.87	836.31	1,673.93	1,570.33	103.60	16.158	
15,600.00	12,470.16	15,866.23	12,756.12	55.37	53.62	-99.84	-3,822.86	837.22	1,673.94	1,567.78	106.16	15.768	
15,700.00	12,470.68	15,966.23	12,756.65	56.66	54.90	-99.84	-3,922.86	838.13	1,673.94	1,565.22	108.73	15.396	
15,800.00	12,471.21	16,066.23	12,757.18	57.95	56.19	-99.84	-4,022.85	839.03	1,673.95	1,562.65	111.30	15.040	
15,900.00	12,471.74	16,166.23	12,757.70	59.25	57.48	-99.84	-4,122.85	839.94	1,673.96	1,560.08	113.88	14.699	
16,000.00	12,472.26	16,266.23	12,758.23	60.55	58.77	-99.84	-4,222.84	840.85	1,673.97	1,557.51	116.46	14.373	
16,100.00	12,472.79	16,366.23	12,758.75	61.86	60.07	-99.84	-4,322.84	841.76	1,673.98	1,554.93	119.05	14.061	
16,200.00	12,473.31	16,466.23	12,759.28	63.16	61.37	-99.84	-4,422.83	842.67	1,673.99	1,552.34	121.65	13.761	
16,300.00	12,473.84	16,566.23	12,759.81	64.47	62.68	-99.84	-4,522.83	843.58	1,674.00	1,549.75	124.25	13.473	
16,400.00	12,474.37	16,666.23	12,760.33	65.78	63.98	-99.84	-4,622.82	844.48	1,674.01	1,547.15	126.85	13.196	
16,500.00	12,474.89	16,766.23	12,760.86	67.10	65.29	-99.84	-4,722.81	845.39	1,674.02	1,544.55	129.46	12.930	
16,600.00	12,475.42	16,866.23	12,761.38	68.41	66.60	-99.84	-4,822.81	846.30	1,674.03	1,541.95	132.07	12.675	
16,700.00	12,475.94	16,966.23	12,761.91	69.73	67.92	-99.84	-4,922.80	847.21	1,674.03	1,539.34	134.69	12.429	
16,800.00	12,476.47	17,066.23	12,762.43	71.05	69.23	-99.84	-5,022.80	848.12	1,674.04	1,536.73	137.31	12.192	
16,900.00	12,477.00	17,166.23	12,762.96	72.37	70.55	-99.84	-5,122.79	849.03	1,674.05	1,534.12	139.93	11.963	
17,000.00	12,477.52	17,266.23	12,763.49	73.70	71.87	-99.84	-5,222.79	849.94	1,674.06	1,531.50	142.56	11.743	
17,100.00	12,478.05	17,366.23	12,764.01	75.02	73.19	-99.84	-5,322.78	850.84	1,674.07	1,528.88	145.19	11.531	
17,200.00	12,478.58	17,466.23	12,764.54	76.35	74.51	-99.84	-5,422.78	851.75	1,674.08	1,526.26	147.82	11.325	
17,300.00	12,479.10	17,566.23	12,765.06	77.68	75.84	-99.84	-5,522.77	852.66	1,674.09	1,523.64	150.45	11.127	
17,400.00	12,479.63	17,666.23	12,765.59	79.01	77.16	-99.84	-5,622.76	853.57	1,674.10	1,521.01	153.09	10.936	
17,500.00	12,480.15	17,766.23	12,766.12	80.34	78.49	-99.84	-5,722.76	854.48	1,674.11	1,518.38	155.72	10.750	
17,600.00	12,480.68	17,866.23	12,766.64	81.67	79.82	-99.84	-5,822.75	855.39	1,674.11	1,515.75	158.36	10.571	
17,700.00	12,481.21	17,966.23	12,767.17	83.00	81.15	-99.84	-5,922.75	856.30	1,674.12	1,513.12	161.01	10.398	
17,800.00	12,481.73	18,066.23	12,767.69	84.34	82.48	-99.84	-6,022.74	857.20	1,674.13	1,510.48	163.65	10.230	
17,900.00	12,482.26	18,166.23	12,768.22	85.67	83.81	-99.84	-6,122.74	858.11	1,674.14	1,507.84	166.30	10.067	
18,000.00	12,482.79	18,266.23	12,768.75	87.01	85.15	-99.84	-6,222.73	859.02	1,674.15	1,505.20	168.95	9.909	
18,100.00	12,483.31	18,366.23	12,769.27	88.35	86.48	-99.83	-6,322.73	859.93	1,674.16	1,502.56	171.60	9.756	
18,200.00	12,483.84	18,466.23	12,769.80	89.68	87.82	-99.83	-6,422.72	860.84	1,674.17	1,499.92	174.25	9.608	
18,300.00	12,484.36	18,566.23	12,770.32	91.02	89.15	-99.83	-6,522.72	861.75	1,674.18	1,497.28	176.90	9.464	
18,400.00	12,484.89	18,666.23	12,770.85	92.36	90.49	-99.83	-6,622.71	862.66	1,674.19	1,494.63	179.55	9.324	
18,500.00	12,485.42	18,766.23	12,771.37	93.70	91.83	-99.83	-6,722.70	863.56	1,674.19	1,491.98	182.21	9.188	
18,600.00	12,485.94	18,866.23	12,771.90	95.05	93.17	-99.83	-6,822.70	864.47	1,674.20	1,489.34	184.87	9.056	
18,700.00	12,486.47	18,966.23	12,772.43	96.39	94.51	-99.83	-6,922.69	865.38	1,674.21	1,486.69	187.53	8.928	
18,800.00	12,486.99	19,066.23	12,772.95	97.73	95.85	-99.83	-7,022.69	866.29	1,674.22	1,484.03	190.19	8.803	
18,900.00	12,487.52	19,166.23	12,773.48	99.07	97.20	-99.83	-7,122.68	867.20	1,674.23	1,481.38	192.85	8.682	
19,000.00	12,488.05	19,266.23	12,774.00	100.42	98.54	-99.83	-7,222.68	868.11	1,674.24	1,478.73	195.51	8.563	
19,100.00	12,488.57	19,366.23	12,774.53	101.76	99.88	-99.83	-7,322.67	869.02	1,674.25	1,476.07	198.17	8.448	
19,200.00	12,489.10	19,466.23	12,775.06	103.11	101.23	-99.83	-7,422.67	869.92	1,674.26	1,473.42	200.84	8.336	
19,300.00	12,489.63	19,566.23	12,775.58	104.46	102.57	-99.83	-7,522.66	870.83	1,674.27	1,470.76	203.50	8.227	
19,400.00	12,490.15	19,666.23	12,776.11	105.80	103.92	-99.83	-7,622.65	871.74	1,674.28	1,468.11	206.17	8.121	
19,500.00	12,490.68	19,766.23	12,776.63	107.15	105.26	-99.83	-7,722.65	872.65	1,674.28	1,465.45	208.84	8.017	
19,600.00	12,491.20	19,866.23	12,777.16	108.50	106.61	-99.83	-7,822.64	873.56	1,674.29	1,462.79	211.51	7.916	
19,700.00	12,491.73	19,966.23	12,777.69	109.85	107.96	-99.83	-7,922.64	874.47	1,674.30	1,460.13	214.17	7.817	
19,800.00	12,492.26	20,066.23	12,778.21	111.20	109.30	-99.83	-8,022.63	875.38	1,674.31	1,457.47	216.84	7.721	
19,900.00	12,492.78	20,166.23	12,778.74	112.55	110.65	-99.83	-8,122.63	876.28	1,674.32	1,454.80	219.52	7.627	
20,000.00	12,493.31	20,266.23	12,779.26	113.90	112.00	-99.83	-8,222.62	877.19	1,674.33	1,452.14	222.19	7.536	
20,100.00	12,493.84	20,366.23	12,779.79	115.25	113.35	-99.83	-8,322.62	878.10	1,674.34	1,449.48	224.86	7.446	
20,200.00	12,494.36	20,466.23	12,780.31	116.60	114.70	-99.83	-8,422.61	879.01	1,674.35	1,446.81	227.53	7.359	
20,300.00	12,494.89	20,566.23	12,780.84	117.95	116.05	-99.83	-8,522.61	879.92	1,674.36	1,444.15	230.21	7.273	
20,400.00	12,495.41	20,666.23	12,781.37	119.30	117.40	-99.83	-8,622.60	880.83	1,674.36	1,441.48	232.88	7.190	
20,500.00	12,495.94	20,766.23	12,781.89	120.65	118.75	-99.83	-8,722.59	881.74	1,674.37	1,438.82	235.56	7.108	

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 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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
20,600.00	12,496.47	20,866.23	12,782.42	122.01	120.10	-99.83	-8,822.59	882.64	1,674.38	1,436.15	238.23	7.028	
20,700.00	12,496.99	20,966.23	12,782.94	123.36	121.46	-99.83	-8,922.58	883.55	1,674.39	1,433.48	240.91	6.950	
20,800.00	12,497.52	21,066.23	12,783.47	124.71	122.81	-99.83	-9,022.58	884.46	1,674.40	1,430.81	243.59	6.874	
20,900.00	12,498.04	21,166.23	12,784.00	126.07	124.16	-99.83	-9,122.57	885.37	1,674.41	1,428.15	246.26	6.799	
21,000.00	12,498.57	21,266.23	12,784.52	127.42	125.52	-99.83	-9,222.57	886.28	1,674.42	1,425.48	248.94	6.726	
21,100.00	12,499.10	21,366.23	12,785.05	128.77	126.87	-99.83	-9,322.56	887.19	1,674.43	1,422.81	251.62	6.655	
21,200.00	12,499.62	21,466.23	12,785.57	130.13	128.22	-99.83	-9,422.56	888.10	1,674.44	1,420.14	254.30	6.585	
21,300.00	12,500.15	21,566.23	12,786.10	131.48	129.58	-99.83	-9,522.55	889.00	1,674.44	1,417.47	256.98	6.516	
21,400.00	12,500.68	21,666.23	12,786.62	132.84	130.93	-99.83	-9,622.54	889.91	1,674.45	1,414.79	259.66	6.449	
21,500.00	12,501.20	21,766.23	12,787.15	134.20	132.29	-99.83	-9,722.54	890.82	1,674.46	1,412.12	262.34	6.383	
21,600.00	12,501.73	21,866.23	12,787.68	135.55	133.64	-99.83	-9,822.53	891.73	1,674.47	1,409.45	265.02	6.318	
21,700.00	12,502.25	21,966.23	12,788.20	136.91	135.00	-99.83	-9,922.53	892.64	1,674.48	1,406.78	267.70	6.255	
21,800.00	12,502.78	22,066.23	12,788.73	138.26	136.35	-99.83	-10,022.52	893.55	1,674.49	1,404.11	270.38	6.193	
21,900.00	12,503.31	22,166.23	12,789.25	139.62	137.71	-99.83	-10,122.52	894.45	1,674.50	1,401.43	273.07	6.132	
22,000.00	12,503.83	22,266.23	12,789.78	140.98	139.06	-99.83	-10,222.51	895.36	1,674.51	1,398.76	275.75	6.073	
22,100.00	12,504.36	22,366.23	12,790.31	142.33	140.42	-99.83	-10,322.51	896.27	1,674.52	1,396.08	278.43	6.014	
22,200.00	12,504.89	22,466.23	12,790.83	143.69	141.78	-99.83	-10,422.50	897.18	1,674.52	1,393.41	281.12	5.957	
22,300.00	12,505.41	22,566.23	12,791.36	145.05	143.13	-99.83	-10,522.49	898.09	1,674.53	1,390.73	283.80	5.900	
22,400.00	12,505.94	22,666.23	12,791.88	146.41	144.49	-99.83	-10,622.49	899.00	1,674.54	1,388.06	286.48	5.845	
22,500.00	12,506.46	22,766.23	12,792.41	147.76	145.85	-99.83	-10,722.48	899.91	1,674.55	1,385.38	289.17	5.791	
22,600.00	12,506.99	22,866.23	12,792.94	149.12	147.21	-99.83	-10,822.48	900.81	1,674.56	1,382.71	291.85	5.738	
22,700.00	12,507.52	22,966.23	12,793.46	150.48	148.56	-99.83	-10,922.47	901.72	1,674.57	1,380.03	294.54	5.685	
22,800.00	12,508.04	23,066.23	12,793.99	151.84	149.92	-99.83	-11,022.47	902.63	1,674.58	1,377.35	297.23	5.634	
22,830.04	12,508.20	23,096.27	12,794.15	152.25	150.33	-99.83	-11,052.51	902.90	1,674.58	1,376.55	298.03	5.619	SF

Total Directional

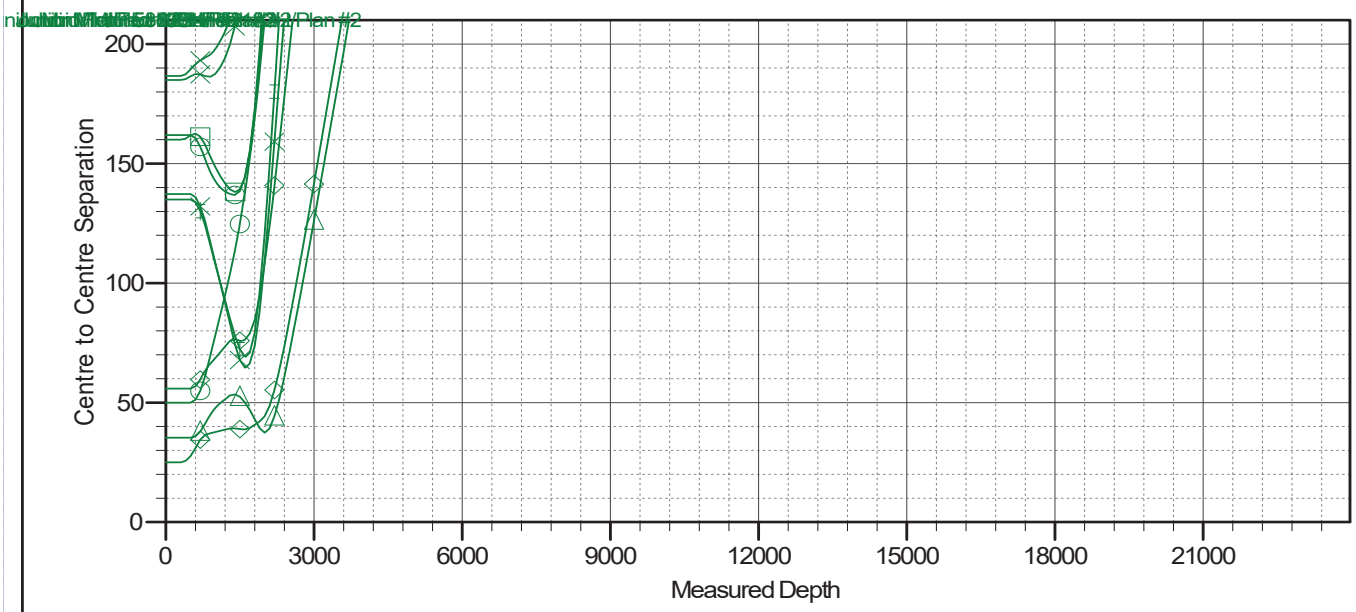
Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 3221' + KB 26' @ 3247.00usft (KB 2
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: Junior Mint Fed 213H
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 131H, OH, Plan 1 V0
- Junior Mint Fed 138H, OH, Plan #2 V0
- Junior Mint Fed 152H, OH, Plan #3 V0
- Junior Mint Fed 158H, OH, Plan #2 V0
- Junior Mint Fed 133H, OH, Plan #2 V0
- Junior Mint Fed 137H, OH, Plan 2 V0
- Junior Mint Fed 211H, OH, Plan 1 V0
- Junior Mint Fed 224H, OH, Plan #2 V0
- Junior Mint Fed 223H, OH, Plan #2 V0
- Junior Mint Fed 216H, OH, Plan #2 V0
- Junior Mint Fed 218H, OH, Plan #2 V0
- Junior Mint Fed 132H, OH, Plan 2 V0
- Junior Mint Fed 156H, OH, Plan #2 V0
- Junior Mint Fed 134H, OH, Plan #2 V0
- Junior Mint Fed 135H, OH, Plan 1 V0
- Junior Mint Fed 221H, OH, Plan 1 V0
- Junior Mint Fed 151H, OH, Plan 1 V0
- Junior Mint Fed 212H, OH, Plan #1 V0
- Junior Mint Fed 215H, OH, Plan 1 V0
- Junior Mint Fed 222H, OH, Plan #1 V0
- Junior Mint Fed 214H, OH, Plan #2 V0

Total Directional

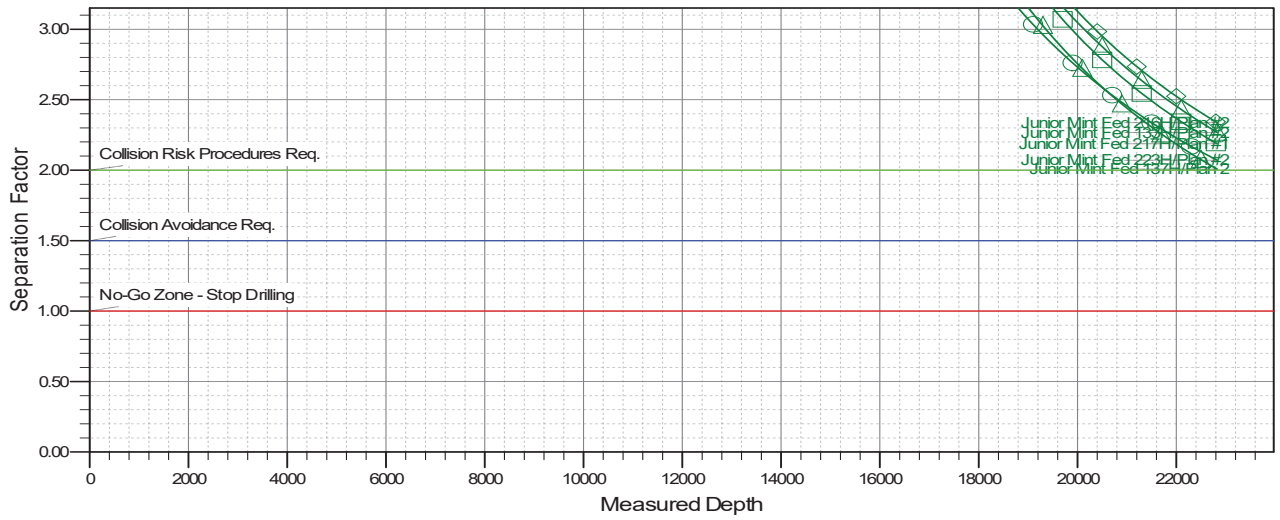
Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 213H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221' + KB 26' @ 3247.00usft (KB 26')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 213H	**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 3221' + KB 26' @ 3247.00usft (KB 2
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: Junior Mint Fed 213H
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 131H, OH, Plan 1 V0
- Junior Mint Fed 138H, OH, Plan #2 V0
- Junior Mint Fed 152H, OH, Plan #3 V0
- Junior Mint Fed 158H, OH, Plan #2 V0
- Junior Mint Fed 133H, OH, Plan #2 V0
- Junior Mint Fed 137H, OH, Plan 2 V0
- Junior Mint Fed 211H, OH, Plan 1 V0
- Junior Mint Fed 224H, OH, Plan #2 V0
- Junior Mint Fed 223H, OH, Plan #2 V0
- Junior Mint Fed 216H, OH, Plan #2 V0
- Junior Mint Fed 218H, OH, Plan #2 V0
- Junior Mint Fed 132H, OH, Plan 2 V0
- Junior Mint Fed 156H, OH, Plan #2 V0
- Junior Mint Fed 134H, OH, Plan #2 V0
- Junior Mint Fed 135H, OH, Plan 1 V0
- Junior Mint Fed 221H, OH, Plan 1 V0
- Junior Mint Fed 151H, OH, Plan 1 V0
- Junior Mint Fed 212H, OH, Plan #1 V0
- Junior Mint Fed 215H, OH, Plan 1 V0
- Junior Mint Fed 222H, OH, Plan #1 V0
- Junior Mint Fed 214H, OH, Plan #2 V0

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Property Code	Property Name	Well Number
	JUNIOR MINT FED	213H

OGRID No.	Operator Name	Ground Level Elevation
332195	CIVITAS PERMIAN OPERATING, LLC	3225'

Surface Owner: [ ] State [ ] Fee [ ] Tribal [X] Federal

Mineral Owner: [ ] State [ ] Fee [ ] Tribal [X] 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	-	550' S	1740' E	N 32.1391366	W 103.3524884	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
O	22	25-S	35-E	-	5' S	2310' E	N 32.1086277	W 103.3543245	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: [X] 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
B	15	25-S	35-E	-	100' N	2310' E	N 32.1373533	W 103.3543220	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
B	15	25-S	35-E	-	100' N	2310' E	N 32.1373533	W 103.3543220	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
O	22	25-S	35-E	-	100' S	2310' E	N 32.1088889	W 103.3543244	LEA

Unitized Area or Area of Uniform Intrest	Spacing Unity Type	Ground Floor Elevation
Y	[X] Horizontal [ ] Vertical	3225'

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

4/21/2025 10:01:16 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\7APROCK C-102 UPDATES\C-102_JUNIOR_MINT_FED_213H_REV3.dwg\JRENK 4/21/2025 10:01 AM

C-102

Submit Electronically
Via OCD Permitting

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

Revised July 9, 2024

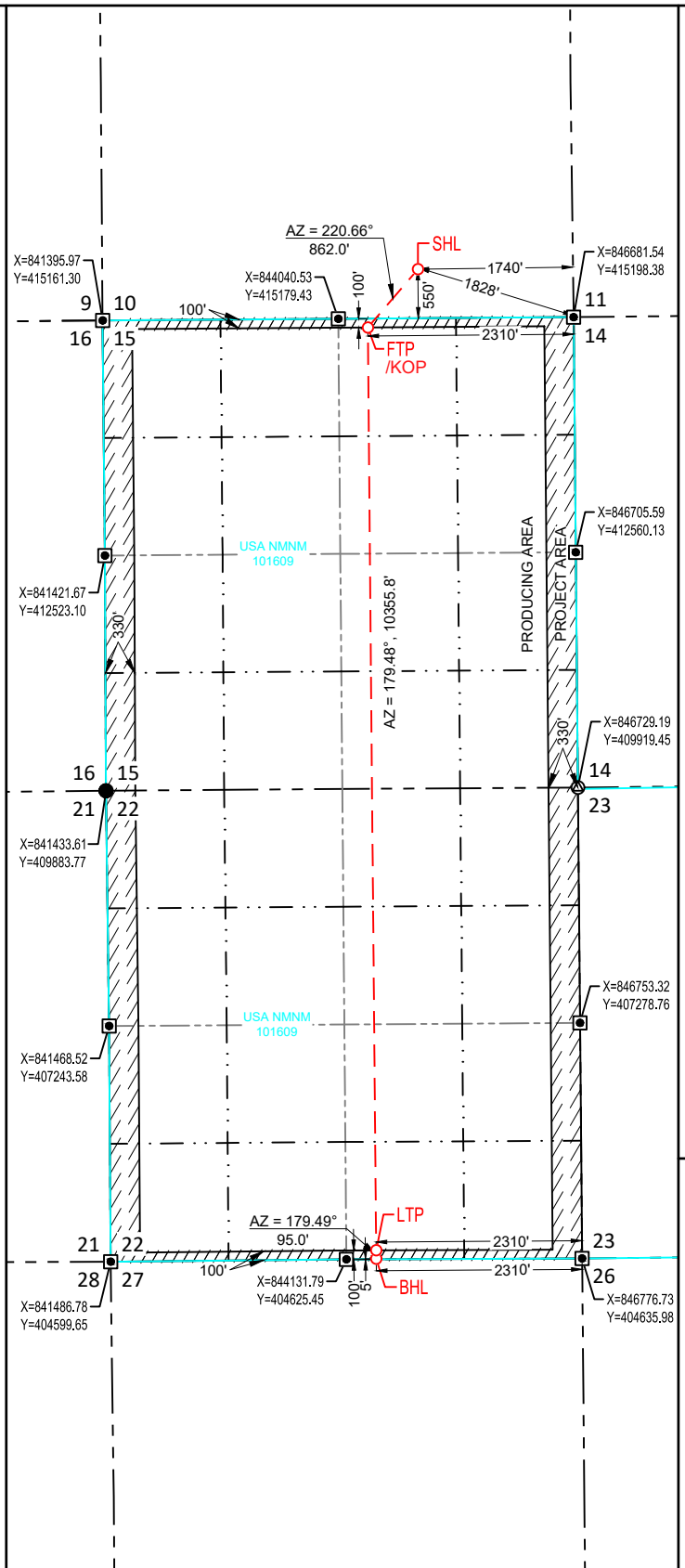
Submittal Type:
- [X] Initial Submittal
- [ ] Amended Report
- [ ] As Drilled

Property Name and Well Number

JUNIOR MINT FED 213H

SURFACE LOCATION (SHL)
NEW MEXICO EAST
NAD 1983
X=844934
Y=415736
LAT.: N 32.1391366
LONG.: W 103.3524884
550' FSL 1740' FEL

KICK OFF POINT (KOP) / FIRST TAKE POINT (FTP)
NEW MEXICO EAST
NAD 1983
X=844373
Y=415082
LAT.: N 32.1373533
LONG.: W 103.3543220
100' FNL 2310' FEL



LAST TAKE POINT (LTP)
NEW MEXICO EAST
NAD 1983
X=844466
Y=404727
LAT.: N 32.1088889
LONG.: W 103.3543244
100' FSL 2310' FEL

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST
NAD 1983
X=844467
Y=404632
LAT.: N 32.1086277
LONG.: W 103.3543245
5' FSL 2310' 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

4/21/2025 10:01:19 AM

M:\SURVEY\CVITAS_RESOURCES_INC\LEA\JUNIOR_MINT_UNIT\FINAL_PRODUCTS\APROCK C-102 UPDATES\C-102_JUNIOR_MINT_FED_213H_REV3.dwg LUREVA 4/21/2025 10:01 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 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: 10400086481
Submission Date: 07/06/2022
Operator Name: TAP ROCK OPERATING LLC
Well Name: JUNIOR MINT FED
Well Number: 213H
Well Type: CONVENTIONAL GAS WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
9894016	QUATERNARY	3225	0	0	OTHER : Caliche	NONE	N
9894017	RUSTLER	2565	660	660	SALT	OTHER : Salt	N
9894018	TOP SALT	2125	1100	1100	SALT	OTHER : Salt	N
9894019	BASE OF SALT	-1695	4920	4942	SALT	OTHER : Salt	N
9894020	DELAWARE	-1935	5160	5184	OTHER, SANDSTONE : Mountain Group	NONE	N
9894021	LAMAR	-1940	5165	5189	SANDSTONE	NATURAL GAS, OIL	N
9894022	BELL CANYON	-1960	5185	5209	SANDSTONE	NATURAL GAS, OIL	N
9894023	RAMSEY SAND	-1980	5205	5229	SANDSTONE	NATURAL GAS, OIL	N
9894024	CHERRY CANYON	-2925	6150	6181	OTHER : Carbonate	NATURAL GAS, OIL	N
9894025	BRUSHY CANYON	-4395	7620	7662	SANDSTONE	NATURAL GAS, OIL	N
9894026	BONE SPRING LIME	-5705	8930	8973	OTHER : Carbonate	NATURAL GAS, OIL	N
9894027	UPPER AVALON SHALE	-5730	8955	8998	OTHER : Carbonate	NATURAL GAS, OIL	N
9894028	AVALON SAND	-5960	9185	9228	OTHER : Middle Carbonate	NATURAL GAS, OIL	N
9894029	BONE SPRING 1ST	-6940	10165	10208	SANDSTONE	NATURAL GAS, OIL	N
9894030	BONE SPRING 2ND	-7105	10330	10373	OTHER : Carbonate	NATURAL GAS, OIL	N
9894031	BONE SPRING 2ND	-7490	10715	10758	SANDSTONE	NATURAL GAS, OIL	N
9894014	BONE SPRING 3RD	-8040	11265	11308	OTHER : Carbonate	NATURAL GAS, OIL	N

Operator Name: TAP ROCK OPERATING LLC

Well Name: JUNIOR MINT FED **Well Number:** 213H

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
9894015	BONE SPRING 3RD	-8670	11895	11938	SANDSTONE	NATURAL GAS, OIL	N
9894032	WOLFCAMP	-8985	12210	12274	OTHER : A	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

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

Equipment: At 22,903', 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_20220703122726.pdf

BOP Diagram Attachment:

10M_BOP_Stack_5M_Annular_Preventer_20220703122737.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	3225	2540	685	J-55	42	BUTT	1.13	1.15	DRY	1.6	DRY	1.6

Operator Name: TAP ROCK OPERATING LLC

Well Name: JUNIOR MINT FED **Well Number:** 213H

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
2	PRODUCTION	6.75	5.5	NEW	NON API	N	0	11626	0	11583	3221	-8358	11626	P-110	20	OTHER - TXP	1.13	1.15	DRY	1.6	DRY	1.6
3	INTERMEDIATE	9.875	7.625	NEW	API	N	0	11826	0	11783	3221	-8558	11826	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	11626	22903	11583	12508	-8358	-9283	11277	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_20220703122807.pdf

Casing ID: 2 **String** PRODUCTION

Inspection Document:

Spec Document:

5.5in_TXP_Casing_Spec_20220703122857.PDF

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_20220703122905.pdf

Operator Name: TAP ROCK OPERATING LLC

Well Name: JUNIOR MINT FED **Well Number:** 213H

Casing Attachments

Casing ID: 3 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_20220703122829.pdf

Casing ID: 4 **String** PRODUCTION

Inspection Document:

Spec Document:

5.5in_W441_Casing_Spec_20220703122930.pdf

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_20220703122943.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		11626	22903	912	1.24	14.5	1131	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	10826	893	4.29	10.5	3831	65	Class C	Bentonite + 1% CaCL2 + 8% NaCL+

Operator Name: TAP ROCK OPERATING LLC

Well Name: JUNIOR MINT FED **Well Number:** 213H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
											LCM
INTERMEDIATE	Tail		10826	11826	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	11826	OTHER : Diesel Brine Emulsion	9.2	9.2							
11826	22903	OIL-BASED MUD	12.5	12.5							

Operator Name: TAP ROCK OPERATING LLC

Well Name: JUNIOR MINT FED **Well Number:** 213H

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: 8130 **Anticipated Surface Pressure:** 5378

Anticipated Bottom Hole Temperature(F): 200

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

JM_E2_H2S_Plan_v2_RDC_20221112091812.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

JM_213H_Horizontal_Plan_20220703123131.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

JM_213H_Drill_Plan_20220703123139.pdf
CoFlex_Certs_20220703123213.pdf
JM_213H_Anticollision_Report_20220703123224.pdf
Well_Control_Plan_10M_BOP_5M_Annular_20220703123232.pdf
Wellhead_3T_11.75_1.625_5.5_062922_20220703123232.pdf

Other Variance attachment:

TAP ROCK RESOURCES

INTREPID

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

Magnetic Field
Strength: 47396.4nT
Dip Angle: 59.95°
Date: 06/22/2022
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 #213H
Wellbore: OWB
Design: Plan #1
Lat: 32° 8' 20.891 N
Long: 103° 21' 8.960 W
Pad GL: 3225.0
KB: KB @ 3251.0usft

WELL DETAILS: Junior Mint Fed #213H

3225.0

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.0	0.0	415736.00	844934.00	32° 8' 20.891 N	103° 21' 8.960 W

SECTION DETAILS

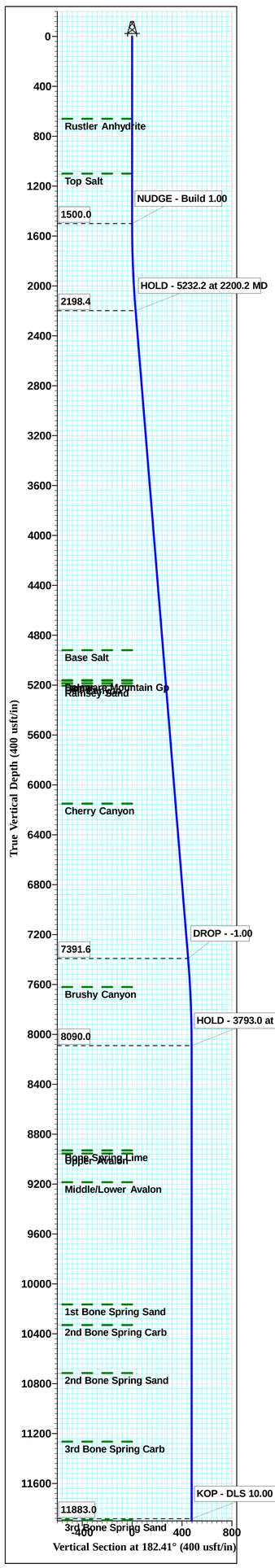
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	NUDGE - Build 1.00
2200.2	7.00	231.12	2198.4	-26.8	-33.3	1.00	231.12	28.2	HOLD - 5232.2 at 2200.2 MD
7432.3	7.00	231.12	7391.6	-427.2	-529.7	0.00	0.00	449.1	DROP - -1.00
8132.5	0.00	0.00	8090.0	-454.0	-563.0	1.00	180.00	477.3	HOLD - 3793.0 at 8132.5 MD
11925.5	0.00	0.00	11883.0	-454.0	-563.0	0.00	0.00	477.3	KOP - DLS 10.00 TFO 179.48
12822.5	89.70	179.48	12456.0	-1024.0	-557.9	10.00	179.48	1046.5	EOC - 10080.6 hold at 12822.5 MD
22903.1	89.70	179.48	12508.2	-11104.0	-467.0	0.00	0.00	11113.8	TD at 22903.1

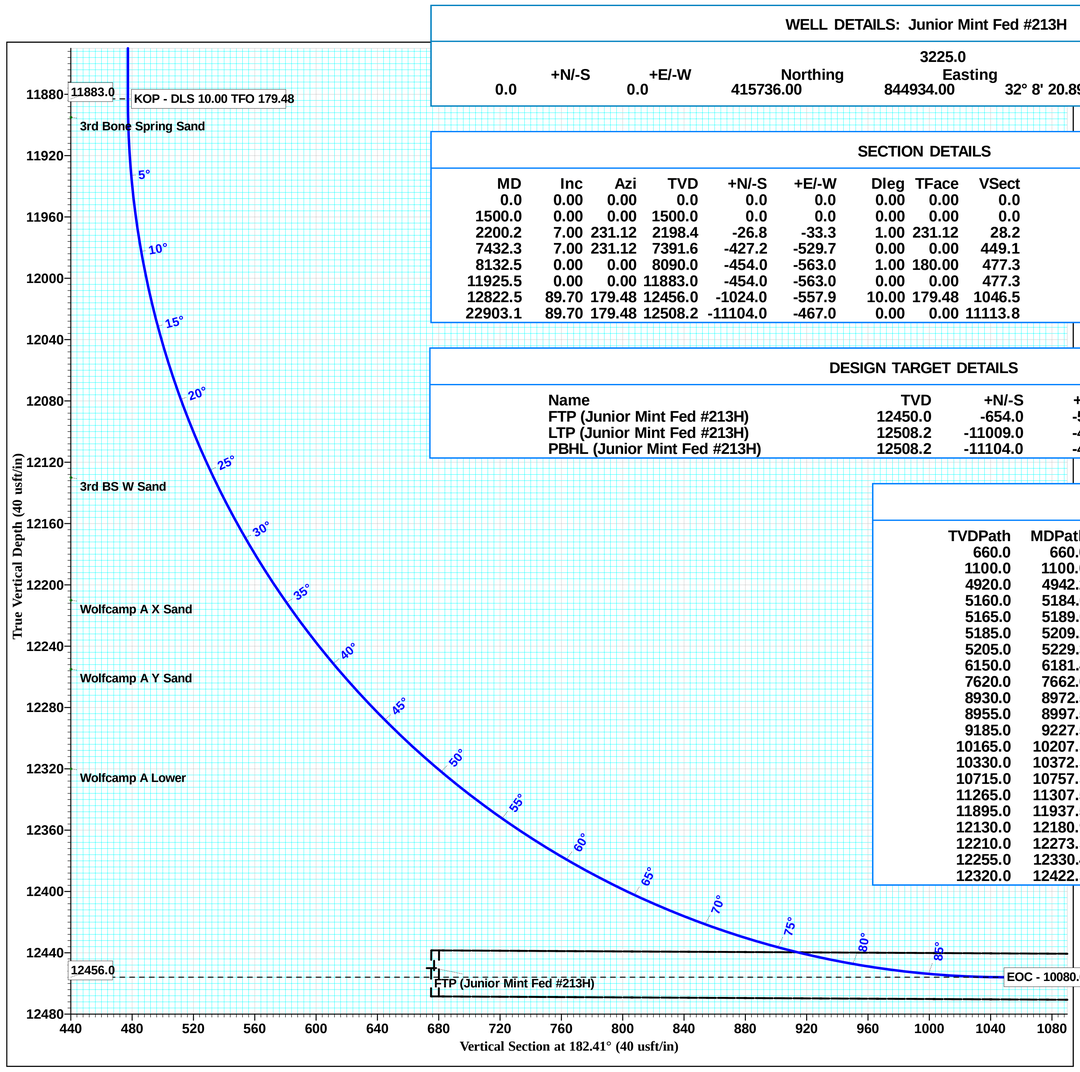
DESIGN TARGET DETAILS

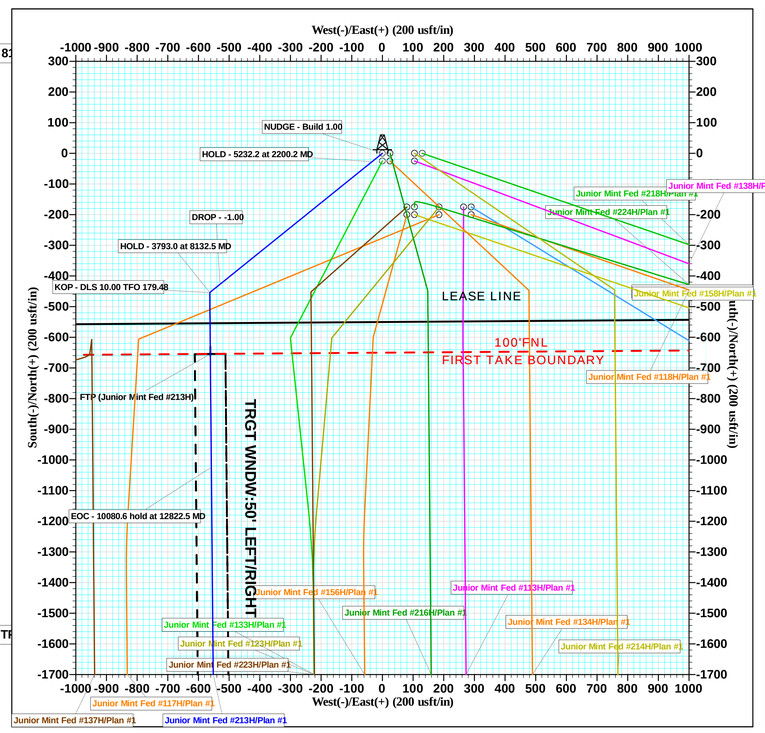
Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Junior Mint Fed #213H)	12450.0	-654.0	-561.0	415082.00	844373.00
LTP (Junior Mint Fed #213H)	12508.2	-11009.0	-468.0	404727.00	844466.00
PBHL (Junior Mint Fed #213H)	12508.2	-11104.0	-467.0	404632.00	844467.00

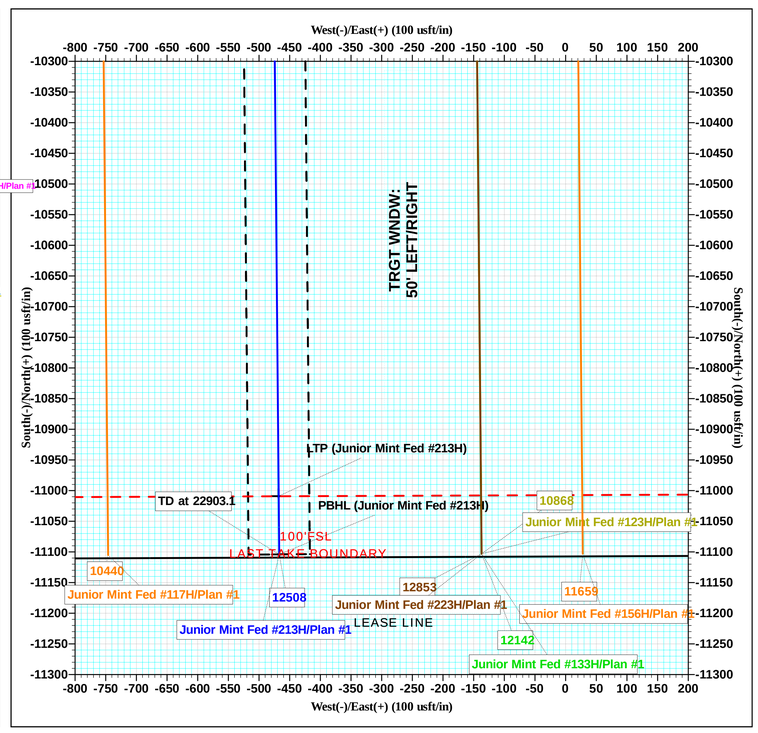
FORMATIONS

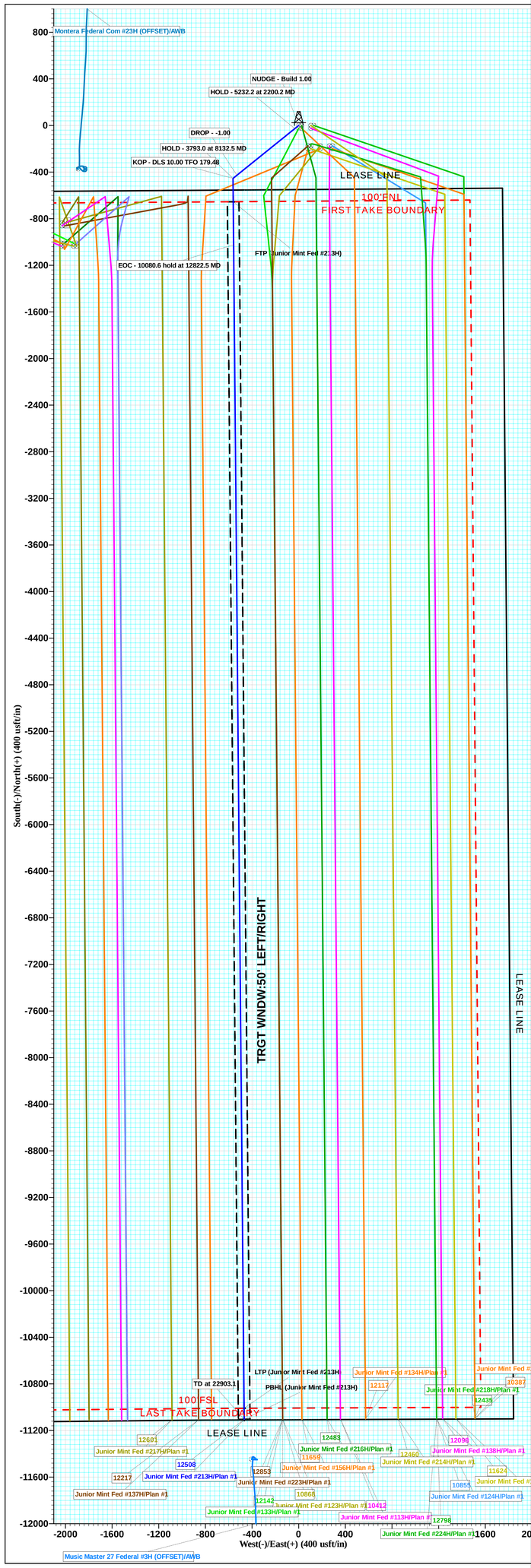
TVDPath	MDPath	Formation
660.0	660.0	Rustler Anhydrite
1100.0	1100.0	Top Salt
4920.0	4942.2	Base Salt
5160.0	5184.0	Delaware Mountain Gp
5165.0	5189.0	Lamar
5185.0	5209.2	Bell Canyon
5205.0	5229.3	Ramsey Sand
6150.0	6181.4	Cherry Canyon
7620.0	7662.0	Brushy Canyon
8930.0	8972.5	Bone Spring Lime
8955.0	8997.5	Upper Avalon
9185.0	9227.5	Middle/Lower Avalon
10165.0	10207.5	1st Bone Spring Sand
10330.0	10372.5	2nd Bone Spring Carb
10715.0	10757.5	2nd Bone Spring Sand
11265.0	11307.5	3rd Bone Spring Carb
11895.0	11937.5	3rd Bone Spring Sand
12130.0	12180.9	3rd BS W Sand
12210.0	12273.5	Wolfcamp A X Sand
12255.0	12330.4	Wolfcamp A Y Sand
12320.0	12422.5	Wolfcamp A Lower

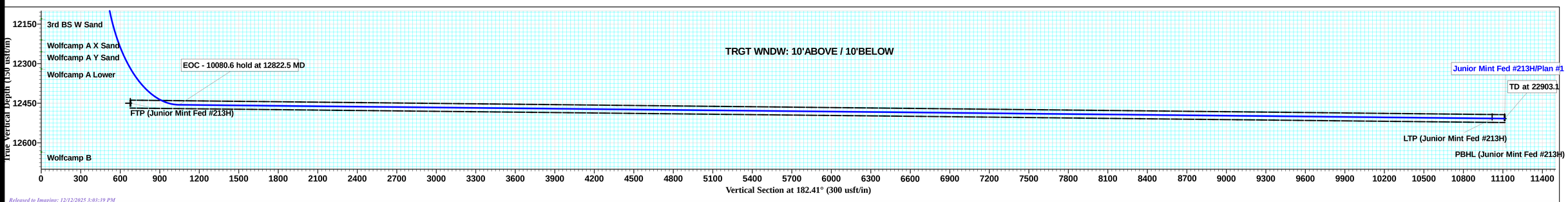












Tap Rock Resources, LLC

Lea County, NM (NAD 83 NME)
(Junior Mint Fed) Sec-15_T-25-S_R-35-E
Junior Mint Fed #213H

OWB

Plan: Plan #1

Standard Planning Report

27 June, 2022

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Junior Mint Fed #213H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3251.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3251.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	**North Reference:**	Grid
Well:	Junior Mint Fed #213H	**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 #213H

Well Position	**+N/-S**	1,011.0 usft	**Northing:**	415,736.00 usft	**Latitude:**	32° 8' 20.891 N
	+E/-W	2,009.0 usft	**Easting:**	844,934.00 usft	**Longitude:**	103° 21' 8.960 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,225.0 usft

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	06/22/22	6.30	59.95	47,396.44387129

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	182.41

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

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,903.0	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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,200.2	7.00	231.12	2,198.4	-26.8	-33.3	1.00	1.00	0.00	231.12	
7,432.3	7.00	231.12	7,391.6	-427.2	-529.7	0.00	0.00	0.00	0.00	
8,132.5	0.00	0.00	8,090.0	-454.0	-563.0	1.00	-1.00	0.00	180.00	
11,925.5	0.00	0.00	11,883.0	-454.0	-563.0	0.00	0.00	0.00	0.00	
12,822.5	89.70	179.48	12,455.9	-1,024.0	-557.9	10.00	10.00	20.01	179.48	
22,903.1	89.70	179.48	12,508.2	-11,104.0	-467.0	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 #213H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3251.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3251.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	**North Reference:**	Grid
Well:	Junior Mint Fed #213H	**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
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
NUDGE - Build 1.00									
1,600.0	1.00	231.12	1,600.0	-0.5	-0.7	0.6	1.00	1.00	0.00
1,700.0	2.00	231.12	1,700.0	-2.2	-2.7	2.3	1.00	1.00	0.00
1,800.0	3.00	231.12	1,799.9	-4.9	-6.1	5.2	1.00	1.00	0.00
1,900.0	4.00	231.12	1,899.7	-8.8	-10.9	9.2	1.00	1.00	0.00
2,000.0	5.00	231.12	1,999.4	-13.7	-17.0	14.4	1.00	1.00	0.00
2,100.0	6.00	231.12	2,098.9	-19.7	-24.4	20.7	1.00	1.00	0.00
2,200.2	7.00	231.12	2,198.4	-26.8	-33.3	28.2	1.00	1.00	0.00
HOLD - 5232.2 at 2200.2 MD									
2,300.0	7.00	231.12	2,297.5	-34.5	-42.7	36.2	0.00	0.00	0.00
2,400.0	7.00	231.12	2,396.8	-42.1	-52.2	44.3	0.00	0.00	0.00
2,500.0	7.00	231.12	2,496.0	-49.8	-61.7	52.3	0.00	0.00	0.00
2,600.0	7.00	231.12	2,595.3	-57.4	-71.2	60.4	0.00	0.00	0.00
2,700.0	7.00	231.12	2,694.5	-65.1	-80.7	68.4	0.00	0.00	0.00
2,800.0	7.00	231.12	2,793.8	-72.7	-90.2	76.4	0.00	0.00	0.00
2,900.0	7.00	231.12	2,893.0	-80.4	-99.7	84.5	0.00	0.00	0.00
3,000.0	7.00	231.12	2,992.3	-88.0	-109.2	92.5	0.00	0.00	0.00
3,100.0	7.00	231.12	3,091.5	-95.7	-118.6	100.6	0.00	0.00	0.00
3,200.0	7.00	231.12	3,190.8	-103.3	-128.1	108.6	0.00	0.00	0.00
3,300.0	7.00	231.12	3,290.1	-111.0	-137.6	116.7	0.00	0.00	0.00
3,400.0	7.00	231.12	3,389.3	-118.6	-147.1	124.7	0.00	0.00	0.00
3,500.0	7.00	231.12	3,488.6	-126.3	-156.6	132.8	0.00	0.00	0.00
3,600.0	7.00	231.12	3,587.8	-133.9	-166.1	140.8	0.00	0.00	0.00
3,700.0	7.00	231.12	3,687.1	-141.6	-175.6	148.8	0.00	0.00	0.00
3,800.0	7.00	231.12	3,786.3	-149.2	-185.1	156.9	0.00	0.00	0.00
3,900.0	7.00	231.12	3,885.6	-156.9	-194.6	164.9	0.00	0.00	0.00
4,000.0	7.00	231.12	3,984.8	-164.5	-204.0	173.0	0.00	0.00	0.00
4,100.0	7.00	231.12	4,084.1	-172.2	-213.5	181.0	0.00	0.00	0.00
4,200.0	7.00	231.12	4,183.3	-179.8	-223.0	189.1	0.00	0.00	0.00
4,300.0	7.00	231.12	4,282.6	-187.5	-232.5	197.1	0.00	0.00	0.00
4,400.0	7.00	231.12	4,381.9	-195.1	-242.0	205.1	0.00	0.00	0.00
4,500.0	7.00	231.12	4,481.1	-202.8	-251.5	213.2	0.00	0.00	0.00
4,600.0	7.00	231.12	4,580.4	-210.5	-261.0	221.2	0.00	0.00	0.00
4,700.0	7.00	231.12	4,679.6	-218.1	-270.5	229.3	0.00	0.00	0.00
4,800.0	7.00	231.12	4,778.9	-225.8	-280.0	237.3	0.00	0.00	0.00
4,900.0	7.00	231.12	4,878.1	-233.4	-289.4	245.4	0.00	0.00	0.00
5,000.0	7.00	231.12	4,977.4	-241.1	-298.9	253.4	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Junior Mint Fed #213H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3251.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3251.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	**North Reference:**	Grid
Well:	Junior Mint Fed #213H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	7.00	231.12	5,076.6	-248.7	-308.4	261.5	0.00	0.00	0.00
5,200.0	7.00	231.12	5,175.9	-256.4	-317.9	269.5	0.00	0.00	0.00
5,300.0	7.00	231.12	5,275.1	-264.0	-327.4	277.5	0.00	0.00	0.00
5,400.0	7.00	231.12	5,374.4	-271.7	-336.9	285.6	0.00	0.00	0.00
5,500.0	7.00	231.12	5,473.7	-279.3	-346.4	293.6	0.00	0.00	0.00
5,600.0	7.00	231.12	5,572.9	-287.0	-355.9	301.7	0.00	0.00	0.00
5,700.0	7.00	231.12	5,672.2	-294.6	-365.4	309.7	0.00	0.00	0.00
5,800.0	7.00	231.12	5,771.4	-302.3	-374.8	317.8	0.00	0.00	0.00
5,900.0	7.00	231.12	5,870.7	-309.9	-384.3	325.8	0.00	0.00	0.00
6,000.0	7.00	231.12	5,969.9	-317.6	-393.8	333.8	0.00	0.00	0.00
6,100.0	7.00	231.12	6,069.2	-325.2	-403.3	341.9	0.00	0.00	0.00
6,200.0	7.00	231.12	6,168.4	-332.9	-412.8	349.9	0.00	0.00	0.00
6,300.0	7.00	231.12	6,267.7	-340.5	-422.3	358.0	0.00	0.00	0.00
6,400.0	7.00	231.12	6,366.9	-348.2	-431.8	366.0	0.00	0.00	0.00
6,500.0	7.00	231.12	6,466.2	-355.8	-441.3	374.1	0.00	0.00	0.00
6,600.0	7.00	231.12	6,565.4	-363.5	-450.8	382.1	0.00	0.00	0.00
6,700.0	7.00	231.12	6,664.7	-371.1	-460.2	390.2	0.00	0.00	0.00
6,800.0	7.00	231.12	6,764.0	-378.8	-469.7	398.2	0.00	0.00	0.00
6,900.0	7.00	231.12	6,863.2	-386.4	-479.2	406.2	0.00	0.00	0.00
7,000.0	7.00	231.12	6,962.5	-394.1	-488.7	414.3	0.00	0.00	0.00
7,100.0	7.00	231.12	7,061.7	-401.7	-498.2	422.3	0.00	0.00	0.00
7,200.0	7.00	231.12	7,161.0	-409.4	-507.7	430.4	0.00	0.00	0.00
7,300.0	7.00	231.12	7,260.2	-417.1	-517.2	438.4	0.00	0.00	0.00
7,400.0	7.00	231.12	7,359.5	-424.7	-526.7	446.5	0.00	0.00	0.00
7,432.3	7.00	231.12	7,391.6	-427.2	-529.7	449.1	0.00	0.00	0.00
DROP - -1.00									
7,500.0	6.33	231.12	7,458.8	-432.1	-535.9	454.2	1.00	-1.00	0.00
7,600.0	5.33	231.12	7,558.3	-438.5	-543.8	460.9	1.00	-1.00	0.00
7,700.0	4.33	231.12	7,657.9	-443.8	-550.3	466.5	1.00	-1.00	0.00
7,800.0	3.33	231.12	7,757.7	-447.9	-555.5	470.9	1.00	-1.00	0.00
7,900.0	2.33	231.12	7,857.6	-451.0	-559.3	474.1	1.00	-1.00	0.00
8,000.0	1.33	231.12	7,957.5	-453.0	-561.8	476.2	1.00	-1.00	0.00
8,100.0	0.33	231.12	8,057.5	-453.9	-562.9	477.2	1.00	-1.00	0.00
8,132.5	0.00	0.00	8,090.0	-454.0	-563.0	477.3	1.00	-1.00	0.00
HOLD - 3793.0 at 8132.5 MD									
8,200.0	0.00	0.00	8,157.5	-454.0	-563.0	477.3	0.00	0.00	0.00
8,300.0	0.00	0.00	8,257.5	-454.0	-563.0	477.3	0.00	0.00	0.00
8,400.0	0.00	0.00	8,357.5	-454.0	-563.0	477.3	0.00	0.00	0.00
8,500.0	0.00	0.00	8,457.5	-454.0	-563.0	477.3	0.00	0.00	0.00
8,600.0	0.00	0.00	8,557.5	-454.0	-563.0	477.3	0.00	0.00	0.00
8,700.0	0.00	0.00	8,657.5	-454.0	-563.0	477.3	0.00	0.00	0.00
8,800.0	0.00	0.00	8,757.5	-454.0	-563.0	477.3	0.00	0.00	0.00
8,900.0	0.00	0.00	8,857.5	-454.0	-563.0	477.3	0.00	0.00	0.00
9,000.0	0.00	0.00	8,957.5	-454.0	-563.0	477.3	0.00	0.00	0.00
9,100.0	0.00	0.00	9,057.5	-454.0	-563.0	477.3	0.00	0.00	0.00
9,200.0	0.00	0.00	9,157.5	-454.0	-563.0	477.3	0.00	0.00	0.00
9,300.0	0.00	0.00	9,257.5	-454.0	-563.0	477.3	0.00	0.00	0.00
9,400.0	0.00	0.00	9,357.5	-454.0	-563.0	477.3	0.00	0.00	0.00
9,500.0	0.00	0.00	9,457.5	-454.0	-563.0	477.3	0.00	0.00	0.00
9,600.0	0.00	0.00	9,557.5	-454.0	-563.0	477.3	0.00	0.00	0.00
9,700.0	0.00	0.00	9,657.5	-454.0	-563.0	477.3	0.00	0.00	0.00
9,800.0	0.00	0.00	9,757.5	-454.0	-563.0	477.3	0.00	0.00	0.00
9,900.0	0.00	0.00	9,857.5	-454.0	-563.0	477.3	0.00	0.00	0.00
10,000.0	0.00	0.00	9,957.5	-454.0	-563.0	477.3	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Junior Mint Fed #213H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3251.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3251.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	**North Reference:**	Grid
Well:	Junior Mint Fed #213H	**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)
10,100.0	0.00	0.00	10,057.5	-454.0	-563.0	477.3	0.00	0.00	0.00
10,200.0	0.00	0.00	10,157.5	-454.0	-563.0	477.3	0.00	0.00	0.00
10,300.0	0.00	0.00	10,257.5	-454.0	-563.0	477.3	0.00	0.00	0.00
10,400.0	0.00	0.00	10,357.5	-454.0	-563.0	477.3	0.00	0.00	0.00
10,500.0	0.00	0.00	10,457.5	-454.0	-563.0	477.3	0.00	0.00	0.00
10,600.0	0.00	0.00	10,557.5	-454.0	-563.0	477.3	0.00	0.00	0.00
10,700.0	0.00	0.00	10,657.5	-454.0	-563.0	477.3	0.00	0.00	0.00
10,800.0	0.00	0.00	10,757.5	-454.0	-563.0	477.3	0.00	0.00	0.00
10,900.0	0.00	0.00	10,857.5	-454.0	-563.0	477.3	0.00	0.00	0.00
11,000.0	0.00	0.00	10,957.5	-454.0	-563.0	477.3	0.00	0.00	0.00
11,100.0	0.00	0.00	11,057.5	-454.0	-563.0	477.3	0.00	0.00	0.00
11,200.0	0.00	0.00	11,157.5	-454.0	-563.0	477.3	0.00	0.00	0.00
11,300.0	0.00	0.00	11,257.5	-454.0	-563.0	477.3	0.00	0.00	0.00
11,400.0	0.00	0.00	11,357.5	-454.0	-563.0	477.3	0.00	0.00	0.00
11,500.0	0.00	0.00	11,457.5	-454.0	-563.0	477.3	0.00	0.00	0.00
11,600.0	0.00	0.00	11,557.5	-454.0	-563.0	477.3	0.00	0.00	0.00
11,700.0	0.00	0.00	11,657.5	-454.0	-563.0	477.3	0.00	0.00	0.00
11,800.0	0.00	0.00	11,757.5	-454.0	-563.0	477.3	0.00	0.00	0.00
11,900.0	0.00	0.00	11,857.5	-454.0	-563.0	477.3	0.00	0.00	0.00
11,925.5	0.00	0.00	11,883.0	-454.0	-563.0	477.3	0.00	0.00	0.00
KOP - DLS 10.00 TFO 179.48									
11,950.0	2.45	179.48	11,907.5	-454.5	-563.0	477.8	10.00	10.00	0.00
12,000.0	7.45	179.48	11,957.3	-458.8	-563.0	482.1	10.00	10.00	0.00
12,050.0	12.45	179.48	12,006.5	-467.5	-562.9	490.7	10.00	10.00	0.00
12,100.0	17.45	179.48	12,054.8	-480.4	-562.8	503.6	10.00	10.00	0.00
12,150.0	22.45	179.48	12,101.8	-497.4	-562.6	520.6	10.00	10.00	0.00
12,200.0	27.45	179.48	12,147.1	-518.5	-562.4	541.7	10.00	10.00	0.00
12,250.0	32.45	179.48	12,190.4	-543.5	-562.2	566.6	10.00	10.00	0.00
12,300.0	37.45	179.48	12,231.4	-572.1	-561.9	595.2	10.00	10.00	0.00
12,350.0	42.45	179.48	12,269.7	-604.2	-561.6	627.2	10.00	10.00	0.00
12,400.0	47.45	179.48	12,305.1	-639.5	-561.3	662.5	10.00	10.00	0.00
12,450.0	52.45	179.48	12,337.3	-677.8	-561.0	700.7	10.00	10.00	0.00
12,500.0	57.45	179.48	12,366.0	-718.7	-560.6	741.6	10.00	10.00	0.00
12,550.0	62.45	179.48	12,391.0	-761.9	-560.2	784.8	10.00	10.00	0.00
12,600.0	67.45	179.48	12,412.2	-807.2	-559.8	830.0	10.00	10.00	0.00
12,650.0	72.45	179.48	12,429.3	-854.2	-559.4	876.9	10.00	10.00	0.00
12,700.0	77.45	179.48	12,442.3	-902.4	-559.0	925.1	10.00	10.00	0.00
12,750.0	82.45	179.48	12,451.0	-951.7	-558.5	974.3	10.00	10.00	0.00
12,800.0	87.45	179.48	12,455.4	-1,001.4	-558.1	1,024.0	10.00	10.00	0.00
12,822.5	89.70	179.48	12,455.9	-1,024.0	-557.9	1,046.5	10.00	10.00	0.00
EOC - 10080.6 hold at 12822.5 MD									
12,900.0	89.70	179.48	12,456.4	-1,101.4	-557.2	1,123.9	0.00	0.00	0.00
13,000.0	89.70	179.48	12,456.9	-1,201.4	-556.3	1,223.7	0.00	0.00	0.00
13,100.0	89.70	179.48	12,457.4	-1,301.4	-555.4	1,323.6	0.00	0.00	0.00
13,200.0	89.70	179.48	12,457.9	-1,401.4	-554.5	1,423.5	0.00	0.00	0.00
13,300.0	89.70	179.48	12,458.4	-1,501.4	-553.6	1,523.3	0.00	0.00	0.00
13,400.0	89.70	179.48	12,458.9	-1,601.4	-552.7	1,623.2	0.00	0.00	0.00
13,500.0	89.70	179.48	12,459.5	-1,701.4	-551.8	1,723.1	0.00	0.00	0.00
13,600.0	89.70	179.48	12,460.0	-1,801.4	-550.9	1,822.9	0.00	0.00	0.00
13,700.0	89.70	179.48	12,460.5	-1,901.4	-550.0	1,922.8	0.00	0.00	0.00
13,800.0	89.70	179.48	12,461.0	-2,001.4	-549.1	2,022.7	0.00	0.00	0.00
13,900.0	89.70	179.48	12,461.5	-2,101.4	-548.2	2,122.6	0.00	0.00	0.00
14,000.0	89.70	179.48	12,462.1	-2,201.4	-547.2	2,222.4	0.00	0.00	0.00
14,100.0	89.70	179.48	12,462.6	-2,301.4	-546.3	2,322.3	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Junior Mint Fed #213H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3251.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3251.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	**North Reference:**	Grid
Well:	Junior Mint Fed #213H	**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)
14,200.0	89.70	179.48	12,463.1	-2,401.4	-545.4	2,422.2	0.00	0.00	0.00
14,300.0	89.70	179.48	12,463.6	-2,501.4	-544.5	2,522.0	0.00	0.00	0.00
14,400.0	89.70	179.48	12,464.1	-2,601.3	-543.6	2,621.9	0.00	0.00	0.00
14,500.0	89.70	179.48	12,464.6	-2,701.3	-542.7	2,721.8	0.00	0.00	0.00
14,600.0	89.70	179.48	12,465.2	-2,801.3	-541.8	2,821.6	0.00	0.00	0.00
14,700.0	89.70	179.48	12,465.7	-2,901.3	-540.9	2,921.5	0.00	0.00	0.00
14,800.0	89.70	179.48	12,466.2	-3,001.3	-540.0	3,021.4	0.00	0.00	0.00
14,900.0	89.70	179.48	12,466.7	-3,101.3	-539.1	3,121.2	0.00	0.00	0.00
15,000.0	89.70	179.48	12,467.2	-3,201.3	-538.2	3,221.1	0.00	0.00	0.00
15,100.0	89.70	179.48	12,467.8	-3,301.3	-537.3	3,321.0	0.00	0.00	0.00
15,200.0	89.70	179.48	12,468.3	-3,401.3	-536.4	3,420.8	0.00	0.00	0.00
15,300.0	89.70	179.48	12,468.8	-3,501.3	-535.5	3,520.7	0.00	0.00	0.00
15,400.0	89.70	179.48	12,469.3	-3,601.3	-534.6	3,620.6	0.00	0.00	0.00
15,500.0	89.70	179.48	12,469.8	-3,701.3	-533.7	3,720.4	0.00	0.00	0.00
15,600.0	89.70	179.48	12,470.3	-3,801.3	-532.8	3,820.3	0.00	0.00	0.00
15,700.0	89.70	179.48	12,470.9	-3,901.3	-531.9	3,920.2	0.00	0.00	0.00
15,800.0	89.70	179.48	12,471.4	-4,001.3	-531.0	4,020.1	0.00	0.00	0.00
15,900.0	89.70	179.48	12,471.9	-4,101.3	-530.1	4,119.9	0.00	0.00	0.00
16,000.0	89.70	179.48	12,472.4	-4,201.3	-529.2	4,219.8	0.00	0.00	0.00
16,100.0	89.70	179.48	12,472.9	-4,301.3	-528.3	4,319.7	0.00	0.00	0.00
16,200.0	89.70	179.48	12,473.5	-4,401.3	-527.4	4,419.5	0.00	0.00	0.00
16,300.0	89.70	179.48	12,474.0	-4,501.2	-526.5	4,519.4	0.00	0.00	0.00
16,400.0	89.70	179.48	12,474.5	-4,601.2	-525.6	4,619.3	0.00	0.00	0.00
16,500.0	89.70	179.48	12,475.0	-4,701.2	-524.7	4,719.1	0.00	0.00	0.00
16,600.0	89.70	179.48	12,475.5	-4,801.2	-523.8	4,819.0	0.00	0.00	0.00
16,700.0	89.70	179.48	12,476.0	-4,901.2	-522.9	4,918.9	0.00	0.00	0.00
16,800.0	89.70	179.48	12,476.6	-5,001.2	-522.0	5,018.7	0.00	0.00	0.00
16,900.0	89.70	179.48	12,477.1	-5,101.2	-521.1	5,118.6	0.00	0.00	0.00
17,000.0	89.70	179.48	12,477.6	-5,201.2	-520.2	5,218.5	0.00	0.00	0.00
17,100.0	89.70	179.48	12,478.1	-5,301.2	-519.3	5,318.3	0.00	0.00	0.00
17,200.0	89.70	179.48	12,478.6	-5,401.2	-518.4	5,418.2	0.00	0.00	0.00
17,300.0	89.70	179.48	12,479.2	-5,501.2	-517.5	5,518.1	0.00	0.00	0.00
17,400.0	89.70	179.48	12,479.7	-5,601.2	-516.6	5,617.9	0.00	0.00	0.00
17,500.0	89.70	179.48	12,480.2	-5,701.2	-515.7	5,717.8	0.00	0.00	0.00
17,600.0	89.70	179.48	12,480.7	-5,801.2	-514.8	5,817.7	0.00	0.00	0.00
17,700.0	89.70	179.48	12,481.2	-5,901.2	-513.9	5,917.6	0.00	0.00	0.00
17,800.0	89.70	179.48	12,481.7	-6,001.2	-513.0	6,017.4	0.00	0.00	0.00
17,900.0	89.70	179.48	12,482.3	-6,101.2	-512.1	6,117.3	0.00	0.00	0.00
18,000.0	89.70	179.48	12,482.8	-6,201.2	-511.2	6,217.2	0.00	0.00	0.00
18,100.0	89.70	179.48	12,483.3	-6,301.1	-510.3	6,317.0	0.00	0.00	0.00
18,200.0	89.70	179.48	12,483.8	-6,401.1	-509.4	6,416.9	0.00	0.00	0.00
18,300.0	89.70	179.48	12,484.3	-6,501.1	-508.5	6,516.8	0.00	0.00	0.00
18,400.0	89.70	179.48	12,484.9	-6,601.1	-507.6	6,616.6	0.00	0.00	0.00
18,500.0	89.70	179.48	12,485.4	-6,701.1	-506.7	6,716.5	0.00	0.00	0.00
18,600.0	89.70	179.48	12,485.9	-6,801.1	-505.8	6,816.4	0.00	0.00	0.00
18,700.0	89.70	179.48	12,486.4	-6,901.1	-504.9	6,916.2	0.00	0.00	0.00
18,800.0	89.70	179.48	12,486.9	-7,001.1	-504.0	7,016.1	0.00	0.00	0.00
18,900.0	89.70	179.48	12,487.4	-7,101.1	-503.1	7,116.0	0.00	0.00	0.00
19,000.0	89.70	179.48	12,488.0	-7,201.1	-502.2	7,215.8	0.00	0.00	0.00
19,100.0	89.70	179.48	12,488.5	-7,301.1	-501.3	7,315.7	0.00	0.00	0.00
19,200.0	89.70	179.48	12,489.0	-7,401.1	-500.4	7,415.6	0.00	0.00	0.00
19,300.0	89.70	179.48	12,489.5	-7,501.1	-499.5	7,515.4	0.00	0.00	0.00
19,400.0	89.70	179.48	12,490.0	-7,601.1	-498.6	7,615.3	0.00	0.00	0.00
19,500.0	89.70	179.48	12,490.6	-7,701.1	-497.7	7,715.2	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Junior Mint Fed #213H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3251.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3251.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	**North Reference:**	Grid
Well:	Junior Mint Fed #213H	**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)
19,600.0	89.70	179.48	12,491.1	-7,801.1	-496.8	7,815.1	0.00	0.00	0.00
19,700.0	89.70	179.48	12,491.6	-7,901.1	-495.9	7,914.9	0.00	0.00	0.00
19,800.0	89.70	179.48	12,492.1	-8,001.1	-495.0	8,014.8	0.00	0.00	0.00
19,900.0	89.70	179.48	12,492.6	-8,101.1	-494.1	8,114.7	0.00	0.00	0.00
20,000.0	89.70	179.48	12,493.1	-8,201.0	-493.2	8,214.5	0.00	0.00	0.00
20,100.0	89.70	179.48	12,493.7	-8,301.0	-492.3	8,314.4	0.00	0.00	0.00
20,200.0	89.70	179.48	12,494.2	-8,401.0	-491.4	8,414.3	0.00	0.00	0.00
20,300.0	89.70	179.48	12,494.7	-8,501.0	-490.5	8,514.1	0.00	0.00	0.00
20,400.0	89.70	179.48	12,495.2	-8,601.0	-489.6	8,614.0	0.00	0.00	0.00
20,500.0	89.70	179.48	12,495.7	-8,701.0	-488.7	8,713.9	0.00	0.00	0.00
20,600.0	89.70	179.48	12,496.3	-8,801.0	-487.8	8,813.7	0.00	0.00	0.00
20,700.0	89.70	179.48	12,496.8	-8,901.0	-486.9	8,913.6	0.00	0.00	0.00
20,800.0	89.70	179.48	12,497.3	-9,001.0	-486.0	9,013.5	0.00	0.00	0.00
20,900.0	89.70	179.48	12,497.8	-9,101.0	-485.1	9,113.3	0.00	0.00	0.00
21,000.0	89.70	179.48	12,498.3	-9,201.0	-484.2	9,213.2	0.00	0.00	0.00
21,100.0	89.70	179.48	12,498.8	-9,301.0	-483.3	9,313.1	0.00	0.00	0.00
21,200.0	89.70	179.48	12,499.4	-9,401.0	-482.4	9,412.9	0.00	0.00	0.00
21,300.0	89.70	179.48	12,499.9	-9,501.0	-481.4	9,512.8	0.00	0.00	0.00
21,400.0	89.70	179.48	12,500.4	-9,601.0	-480.5	9,612.7	0.00	0.00	0.00
21,500.0	89.70	179.48	12,500.9	-9,701.0	-479.6	9,712.6	0.00	0.00	0.00
21,600.0	89.70	179.48	12,501.4	-9,801.0	-478.7	9,812.4	0.00	0.00	0.00
21,700.0	89.70	179.48	12,502.0	-9,901.0	-477.8	9,912.3	0.00	0.00	0.00
21,800.0	89.70	179.48	12,502.5	-10,000.9	-476.9	10,012.2	0.00	0.00	0.00
21,900.0	89.70	179.48	12,503.0	-10,100.9	-476.0	10,112.0	0.00	0.00	0.00
22,000.0	89.70	179.48	12,503.5	-10,200.9	-475.1	10,211.9	0.00	0.00	0.00
22,100.0	89.70	179.48	12,504.0	-10,300.9	-474.2	10,311.8	0.00	0.00	0.00
22,200.0	89.70	179.48	12,504.5	-10,400.9	-473.3	10,411.6	0.00	0.00	0.00
22,300.0	89.70	179.48	12,505.1	-10,500.9	-472.4	10,511.5	0.00	0.00	0.00
22,400.0	89.70	179.48	12,505.6	-10,600.9	-471.5	10,611.4	0.00	0.00	0.00
22,500.0	89.70	179.48	12,506.1	-10,700.9	-470.6	10,711.2	0.00	0.00	0.00
22,600.0	89.70	179.48	12,506.6	-10,800.9	-469.7	10,811.1	0.00	0.00	0.00
22,700.0	89.70	179.48	12,507.1	-10,900.9	-468.8	10,911.0	0.00	0.00	0.00
22,800.0	89.70	179.48	12,507.7	-11,000.9	-467.9	11,010.8	0.00	0.00	0.00
22,903.1	89.70	179.48	12,508.2	-11,104.0	-467.0	11,113.8	0.00	0.00	0.00
TD at 22903.1									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Junior Mint Fed #	0.00	0.00	12,450.0	-654.0	-561.0	415,082.00	844,373.00	32° 8' 14.471 N	103° 21' 15.553 W
- plan misses target center by 105.8usft at 12495.3usft MD (12363.4 TVD, -714.7 N, -560.6 E)									
- Point									
LTP (Junior Mint Fed #	0.00	0.00	12,508.2	-11,009.0	-468.0	404,727.00	844,466.00	32° 6' 32.002 N	103° 21' 15.566 W
- plan misses target center by 8.1usft at 22800.0usft MD (12507.7 TVD, -11000.9 N, -467.9 E)									
- Point									
PBHL (Junior Mint Fec	0.30	179.48	12,508.2	-11,104.0	-467.0	404,632.00	844,467.00	32° 6' 31.062 N	103° 21' 15.564 W
- plan hits target center									
- Rectangle (sides W100.0 H10,450.0 D30.0)									

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Junior Mint Fed #213H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3251.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3251.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	**North Reference:**	Grid
Well:	Junior Mint Fed #213H	**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			
4,942.2	4,920.0	Base Salt			
5,184.0	5,160.0	Delaware Mountain Gp			
5,189.0	5,165.0	Lamar			
5,209.2	5,185.0	Bell Canyon			
5,229.3	5,205.0	Ramsey Sand			
6,181.4	6,150.0	Cherry Canyon			
7,662.0	7,620.0	Brushy Canyon			
8,972.5	8,930.0	Bone Spring Lime			
8,997.5	8,955.0	Upper Avalon			
9,227.5	9,185.0	Middle/Lower Avalon			
10,207.5	10,165.0	1st Bone Spring Sand			
10,372.5	10,330.0	2nd Bone Spring Carb			
10,757.5	10,715.0	2nd Bone Spring Sand			
11,307.5	11,265.0	3rd Bone Spring Carb			
11,937.5	11,895.0	3rd Bone Spring Sand			
12,180.9	12,130.0	3rd BS W Sand			
12,273.5	12,210.0	Wolfcamp A X Sand			
12,330.4	12,255.0	Wolfcamp A Y Sand			
12,422.5	12,320.0	Wolfcamp A Lower			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,500.0	1,500.0	0.0	0.0	NUDGE - Build 1.00
2,200.2	2,198.4	-26.8	-33.3	HOLD - 5232.2 at 2200.2 MD
7,432.3	7,391.6	-427.2	-529.7	DROP - -1.00
8,132.5	8,090.0	-454.0	-563.0	HOLD - 3793.0 at 8132.5 MD
11,925.5	11,883.0	-454.0	-563.0	KOP - DLS 10.00 TFO 179.48
12,822.5	12,455.9	-1,024.0	-557.9	EOC - 10080.6 hold at 12822.5 MD
22,903.1	12,508.2	-11,104.0	-467.0	TD at 22903.1

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Tap Rock Operating LLC
WELL NAME & NO.:	Junior Mint Fed 213H
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

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

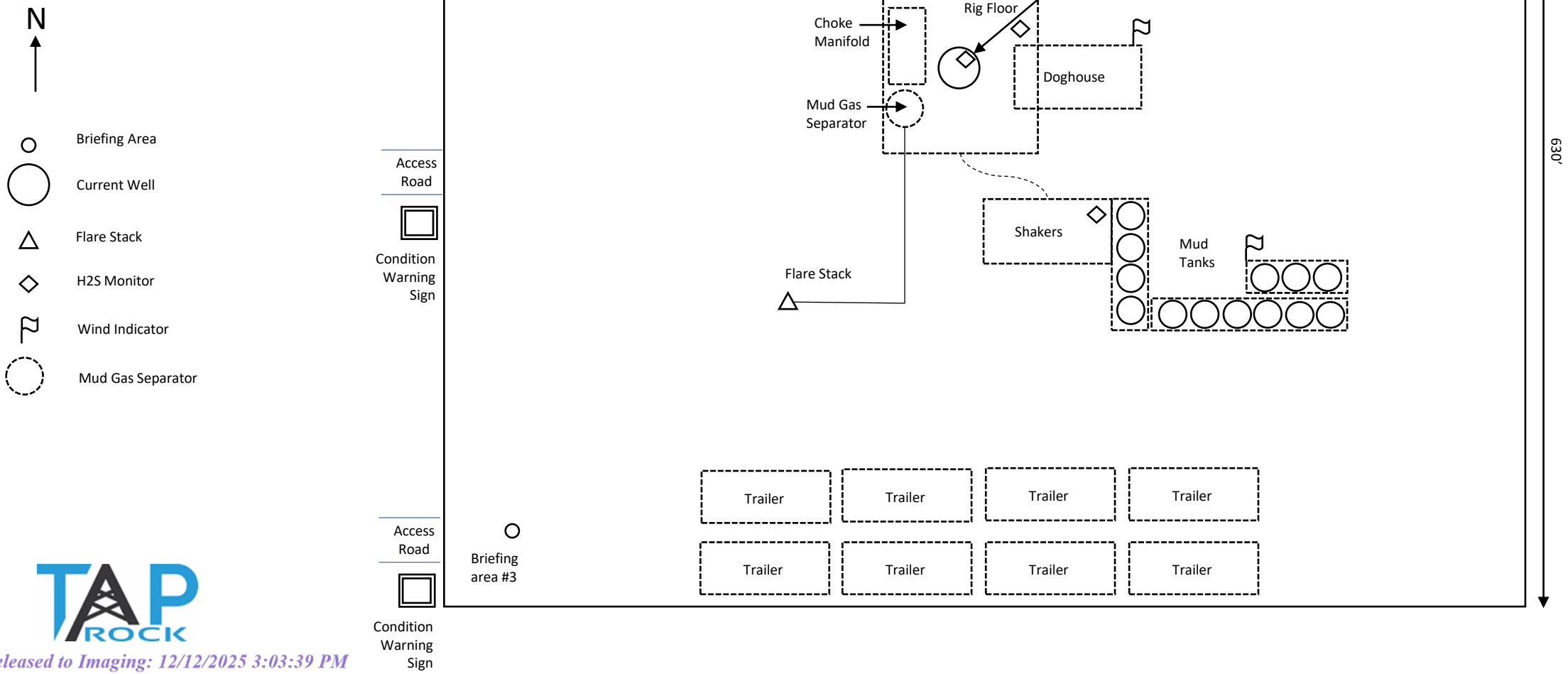
8 Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubulars good and other mechanical equipment

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

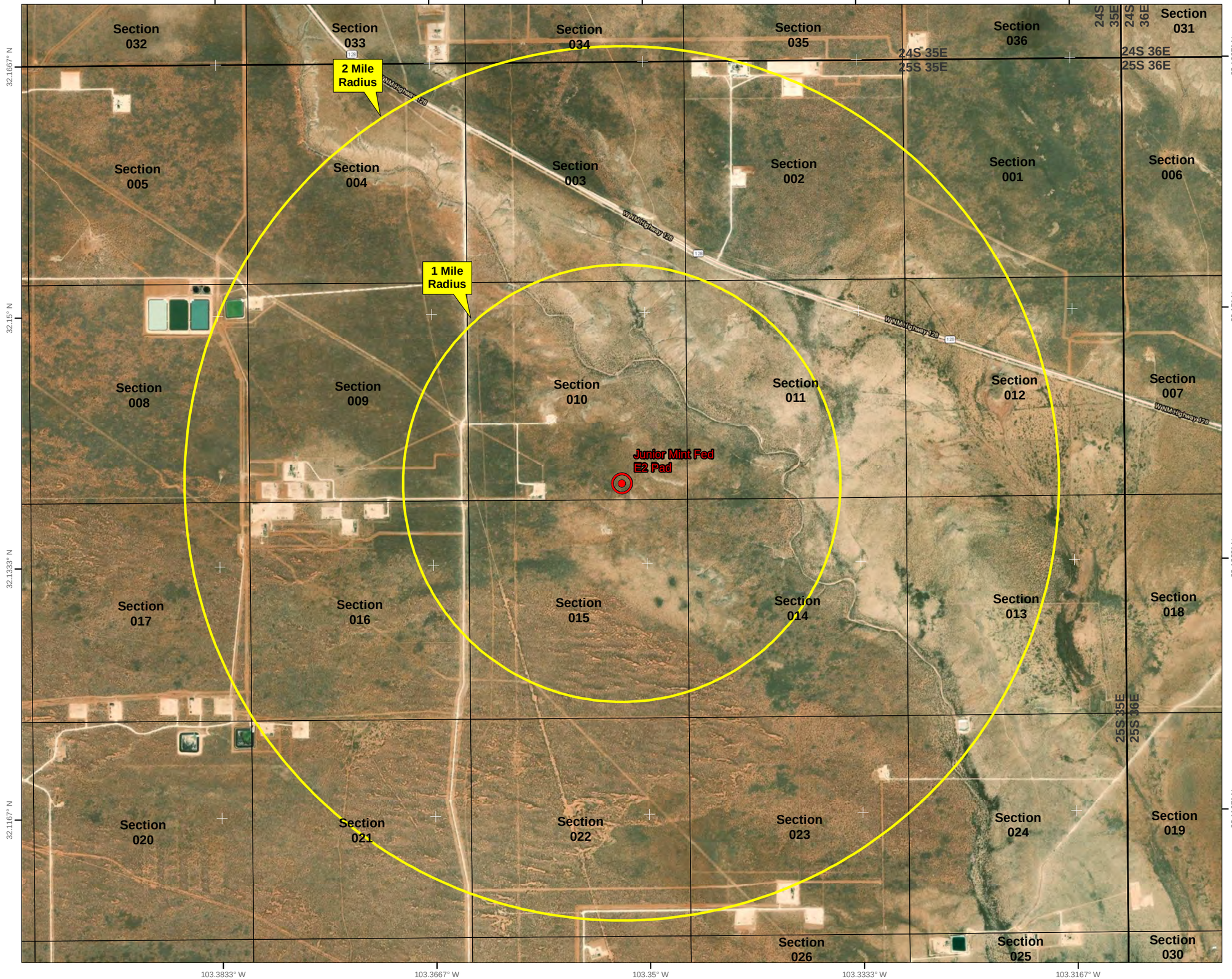
0 0.25 0.5 1
Miles

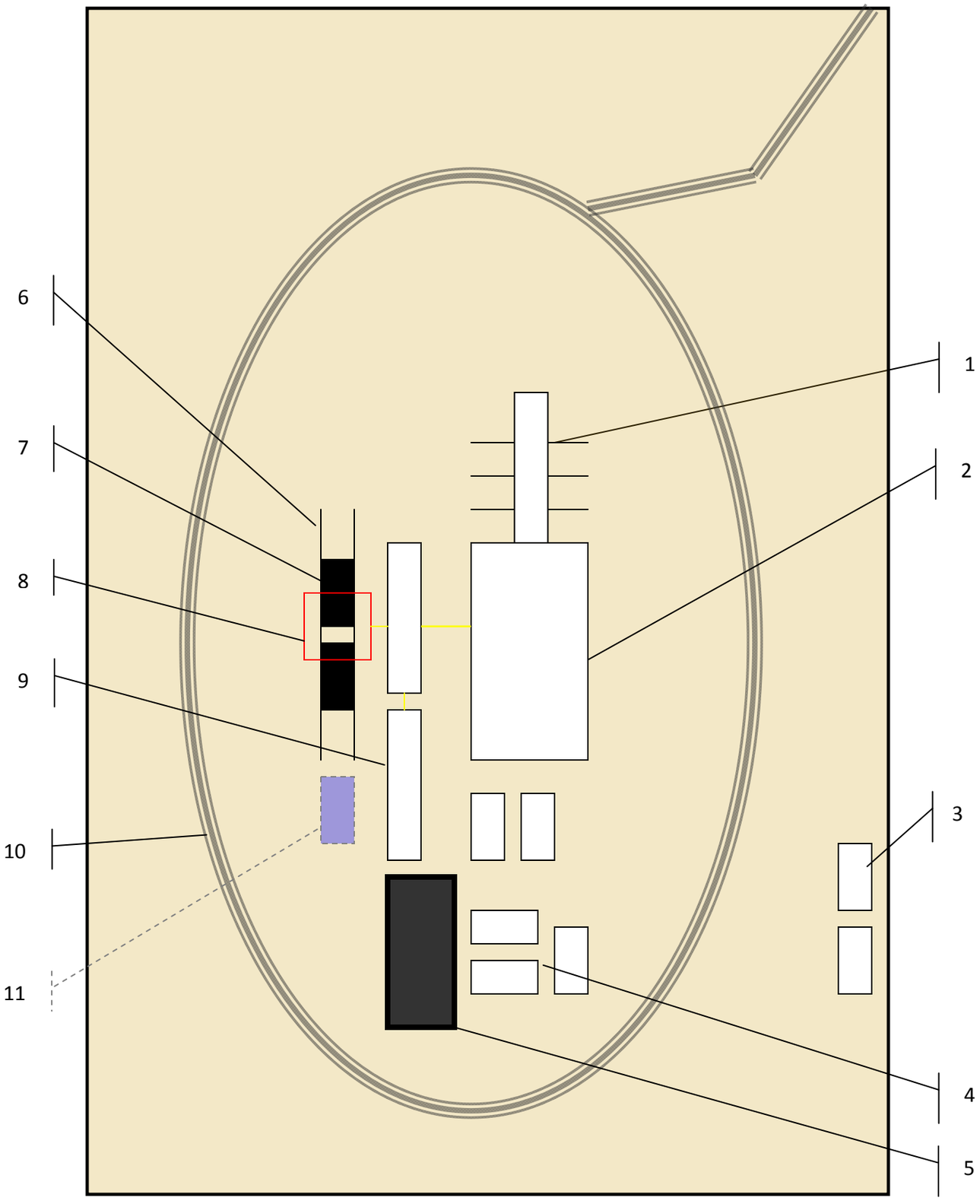
N

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)**

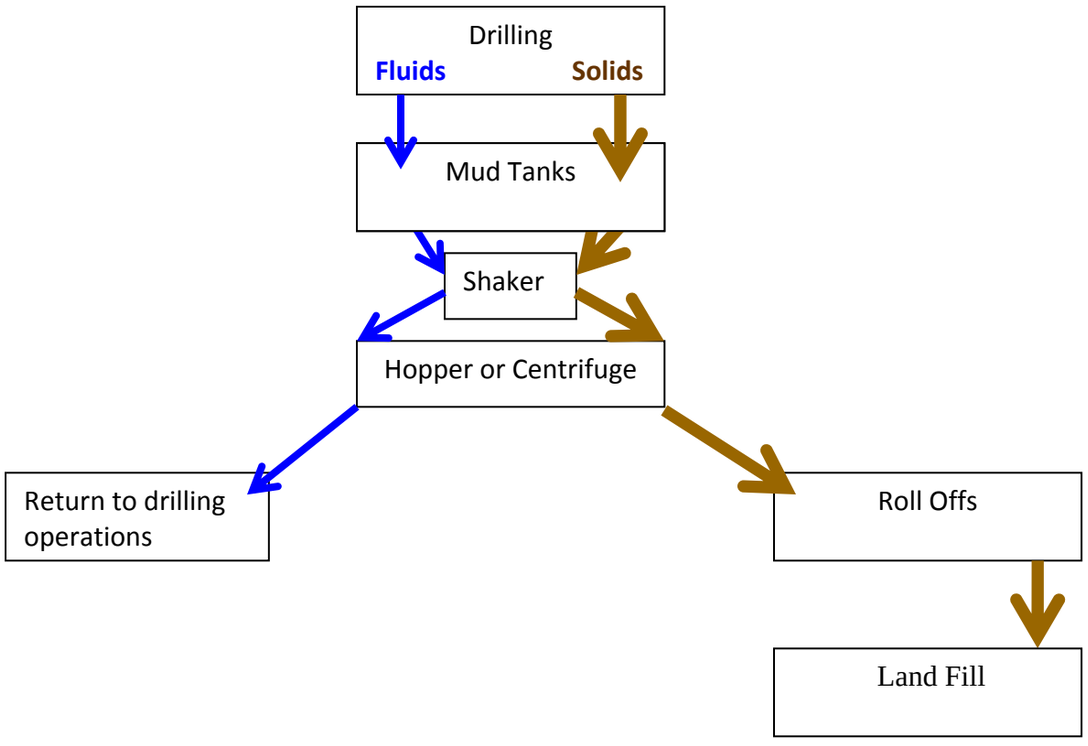
***Not drawn to scale: Closed loop system requires at least 30 feet beyond mud tanks. Ideally 60 feet would be available**

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: 526775
	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

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

CONDITIONS

Operator:	OGRID:
Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	332195
	Action Number: 526775
	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.	12/12/2025
matthew.gomez	All conducted logs must be submitted to the OCD.	12/12/2025
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.	12/12/2025
matthew.gomez	Administrative order required for non-standard spacing unit prior to production.	12/12/2025
matthew.gomez	Directional survey reports the first take point is anticipated to occur within the Bone Spring formation. If production is desired to occur outside of the Wolfcamp formation, a second pool must be added via a [C-103] NOI Change of Plans (C-103A) and a DHC must be approved prior to producing the well.	12/12/2025
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	12/12/2025
matthew.gomez	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	12/12/2025
matthew.gomez	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	12/12/2025
matthew.gomez	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/12/2025