

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.
1. Type of Well ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator		7. If Unit of CA/Agreement, Name and/or No.
3a. Address	3b. Phone No. (include area code)	8. Well Name and No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)		9. API Well No.
		10. Field and Pool or Exploratory Area
		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 recompleat 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 performed 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 recompleat 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 OFFICE 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 MANAGEMENTFORM 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**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

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

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

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

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

Multiple - See Attached

5. Lease Serial No. NMNM101609

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Multiple - See Attached

9. API Well No.

10. Field and Pool or Exploratory Area
WC-02 H-08 S2535340/BONE SPRING

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
☐ 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	

SUCCESSOR OPERATOR

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 recomplate 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 performed 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 recomplate 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

Director, Permitting & Compliance

Title

Signature

Date

02/26/2025

THE SPACE FOR FEDERAL OR STATE OFFICE USEApproved by JENNIFER
SANCHEZDigitally 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

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		5. Lease Serial No. NMNM101609 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. JUNIOR MINT FED 214H
2. Name of Operator TAP ROCK OPERATING LLC		9. API Well No. 30-025-55581
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 / 549 FSL / 1635 FEL / LAT 32.139134 / LONG -103.3521492 At proposed prod. zone SESE / 5 FSL / 990 FEL / LAT 32.1086091 / LONG -103.3500617		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
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 549 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 12459 feet / 22870 feet 20. BLM/BIA Bond No. in file FED:
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3224 feet	22. Approximate date work will start* 10/01/2022	23. Estimated duration 90 days
24. Attachments		

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

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

25. Signature (Electronic Submission) Title Permitting Agent	Name (Printed/Typed) BRIAN WOOD / Ph: (720) 460-3316	Date 07/06/2022
Approved by (Signature) (Electronic Submission) Title Assistant Field Manager Lands & Minerals	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959 Office Carlsbad Field Office	Date 02/08/2023

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

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

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 02/08/2023

Well Name: JUNIOR MINT FED	Well Location: T25S / R35E / SEC 10 / SWSE / 32.139134 / -103.3521492	County or Parish/State: LEA / NM
Well Number: 214H	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: 2874507

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 09/19/2025	Time Sundry Submitted: 12:58
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 549' FSL & 1635' FEL, SWSE, Sec. 10, T.25S, R.35E to 353' FSL & 1463' 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. 10400086513.

NOI Attachments

Procedure Description

JM_214H_Sundry_Attachment_091825_20250919125641.pdf

Well Name: JUNIOR MINT FED	Well Location: T25S / R35E / SEC 10 / SWSE / 32.139134 / -103.3521492	County or Parish/State: LEA / NM
Well Number: 214H	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_2874507_Junior_Mint_Fed_214H_COAs_20251029131755.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 03:17 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
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No. NMNM101609	
6. If Indian, Allottee or Tribe Name	
7. If Unit of CA/Agreement, Name and/or No.	
8. Well Name and No. JUNIOR MINT FED/214H	
9. API Well No.	
10. Field and Pool or Exploratory Area Dogie Draw; Wolfcamp	
11. Country or Parish, State LEA/NM	

1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other	
2. Name of Operator CIVITAS PERMIAN OPERATING LLC	
3a. Address 555 17TH STREET SUITE 3700, DENVER, CO 8	3b. Phone No. (include area code) (303) 293-1000
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 10/T25S/R35E/NMP	

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
☐ 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 recompleate 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.)

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 549 FSL & 1635 FEL, SWSE, Sec. 10, T.25S, R.35E to 353 FSL & 1463 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. 10400086513.

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 OFFICE 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 of this form to U.S. Department of the Interior, Bureau of Land 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 / 549 FSL / 1635 FEL / TWSP: 25S / RANGE: 35E / SECTION: 10 / LAT: 32.139134 / LONG: -103.3521492 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 38 FNL / 983 FEL / TWSP: 25S / RANGE: 35E / SECTION: 15 / LAT: 32.1375267 / LONG: -103.3500405 (TVD: 12210 feet, MD: 12300 feet)

BHL: SESE / 5 FSL / 990 FEL / TWSP: 25S / RANGE: 35E / SECTION: 22 / LAT: 32.1086091 / LONG: -103.3500617 (TVD: 12459 feet, MD: 22870 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Civitas Permian Operating LLC
WELL NAME & NO.:	Junior Mint Fed 214H
LOCATION:	Sec 10-25S-35E-NMP
COUNTY:	Lea County, New Mexico

*Changes approved through engineering via **Sundry 2874507** on 10/29/2025. Any previous COAs not addressed within the updated COAs still apply.*

Create COAs

H₂S Not Reported	Cave / Karst Low	Waste Prevention Rule APD Submitted Prior to 06/10/24
Potash None	R-111-Q Design 	
Wellhead Multibowl	Casing 3-String Well ☐ Liner ☒ Fluid Filled ☒ Casing Clearance	
☒ Flex Hose ☒ Break Testing	Cementing ☐ DV Tool ☒ Offline Cement ☐ Bradenhead ☐ Open Annulus ☐ Echometer ☐ 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 (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 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 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☐ Initial Submittal
			☒ Amended Report
		☐ As Drilled	

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-55581	Pool Code 17980	Pool Name DOGIE DRAW; WOLFCAMP
Property Code 337333	Property Name JUNIOR MINT FED	Well Number 214H
OGRID No. 332195	Operator Name CIVITAS PERMIAN OPERATING, LLC	Ground Level Elevation 3220'
Surface Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
O	10	25-S	35-E	-	353' S	1463' E	N 32.1385937	W 103.3515897	LEA

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
P	22	25-S	35-E	-	5' S	990' E	N 32.1086091	W 103.3500617	LEA

Dedicated Acres 1280.00	Infill or Defining Well Infill	Defining Well API 30-025-54751 (217H)	Overlapping Spacing Unit (Y/N) N	Consolidated Code N/A
Order Numbers pending (NSP)			Well Setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
A	15	25-S	35-E	-	100' N	990' E	N 32.1373455	W 103.3500578	LEA

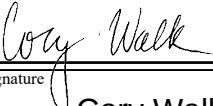
First Take Point (FTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
A	15	25-S	35-E	-	100' N	990' E	N 32.1373455	W 103.3500578	LEA

Last Take Point (LTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
P	22	25-S	35-E	-	100' S	990' E	N 32.1088703	W 103.3500616	LEA

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

OPERATOR CERTIFICATION <i>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.</i> <i>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.</i>  3-16-25		SURVEYORS CERTIFICATION <i>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.</i>  8/11/2025 9:54:36 AM	
Signature Cory Walk		Signature and Seal of Professional Surveyor	
Date 3-16-25		Date	
Print Name cory@permitswest.com		Certificate Number	Date of Survey 8/8/2025
E-mail Address			

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 214H				

SURFACE LOCATION (SHL)

NEW MEXICO EAST
 NAD 1983
 X=845214 Y=415541
 LAT.: N 32.1385937
 LONG.: W 103.3515897

NAD 1927
 X=804027 Y=415483
 LAT.: N 32.1384673
 LONG.: W 103.3511248
 353' FSL 1463' FEL

KICK OFF POINT (KOP)
FIRST TAKE POINT (FTP)

NEW MEXICO EAST
 NAD 1983
 X=845692 Y=415091
 LAT.: N 32.1373455
 LONG.: W 103.3500578

NAD 1927
 X=804506 Y=415033
 LAT.: N 32.1372190
 LONG.: W 103.3495931
 100' FNL 990' FEL

LAST TAKE POINT (LTP)

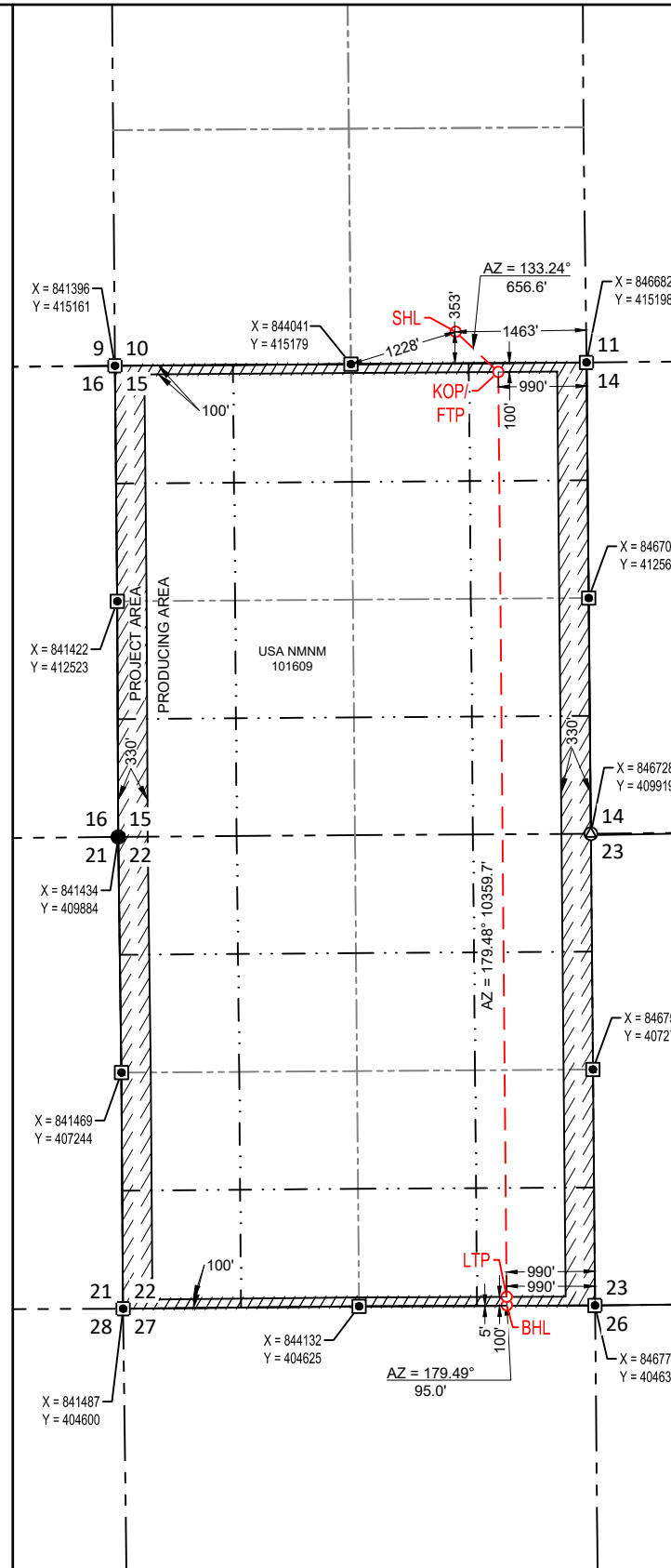
NEW MEXICO EAST
 NAD 1983
 X=845786 Y=404732
 LAT.: N 32.1088703
 LONG.: W 103.3500616

NAD 1927
 X=804599 Y=404674
 LAT.: N 32.1087437
 LONG.: W 103.3495984
 100' FSL 990' FEL

BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST
 NAD 1983
 X=845787 Y=404637
 LAT.: N 32.1086091
 LONG.: W 103.3500617

NAD 1927
 X=804600 Y=404579
 LAT.: N 32.1084825
 LONG.: W 103.3495985
 5' FSL 990' FEL

**SURVEYORS CERTIFICATION**

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

8/8/2025

Date of Survey

Signature and Seal of Professional Surveyor:



8/11/2025 9:54:43 AM

DRILLING AND OPERATIONS PLAN

Civitas Permian Operating LLC

Section 1:**Well Information**

Well Name and Number: Junior Mint Fed 214

Proposed TD (ft MD): 22705

Proposed TD (ft TVD): 12459

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	11,724	surface	11,684	29.7	P110	BTC		1.13	1.15	BUOY	1.80	BUOY	1.80
Production	6.75	5.5	surface	22,705	surface	12,459	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 (ft³/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	811	3.98	25	Class C	Additives + LCM
Intermediate	Tail	10724	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	11374	13.2	789	1.44	20	Class H	Fluid Loss + Dispersant + Retarder + LCM

Cementing Procedure

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

Section 4:**Mud Program**

Mud System Type: Closed Loop

Will an air or gas system be used? No

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

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

Describe the mud monitoring system utilized:

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

Circulating Medium Table:

Top Depth	Bottom Depth	Mud Type	Min. Weight	Max Weight
0	1076	Water Based Mud	8.4	8.8
1076	11724	Brine or Oil Based Mud	9.2	10.0
11724	22705	Brine or Oil Based Mud	11.5	13.0

Section 5:**BOPE & Wellhead**

Hole Section	Hole Size	Casing Size	Stack Size	MAASP (psi)	Min. Required WP	BOPE Type & Components	Test Pressures (psi)	Notes / Variance Reference
Int 1	9 7/8	7 5/8	13-5/8", 10M	480	5M	Annular, Blind Ram, Double Pipe Ram	250 / 5,000	Variance – 10M stack tested to 5M for this section; Variance – 5M Annular tested to 70% WP (3,500 psi)
Production	6 3/4	5 1/2	13-5/8", 10M	7058	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 colexchoke 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:

8422 PSI

Anticipated Static Bottom Hole Temperature:

199 °F

Anticipated Abnormal Pressure?

No

Potential Hazards:

None

Section 9:**H2S****Anticipated concentration :****0**

ppm

Depth of first occurrence**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**

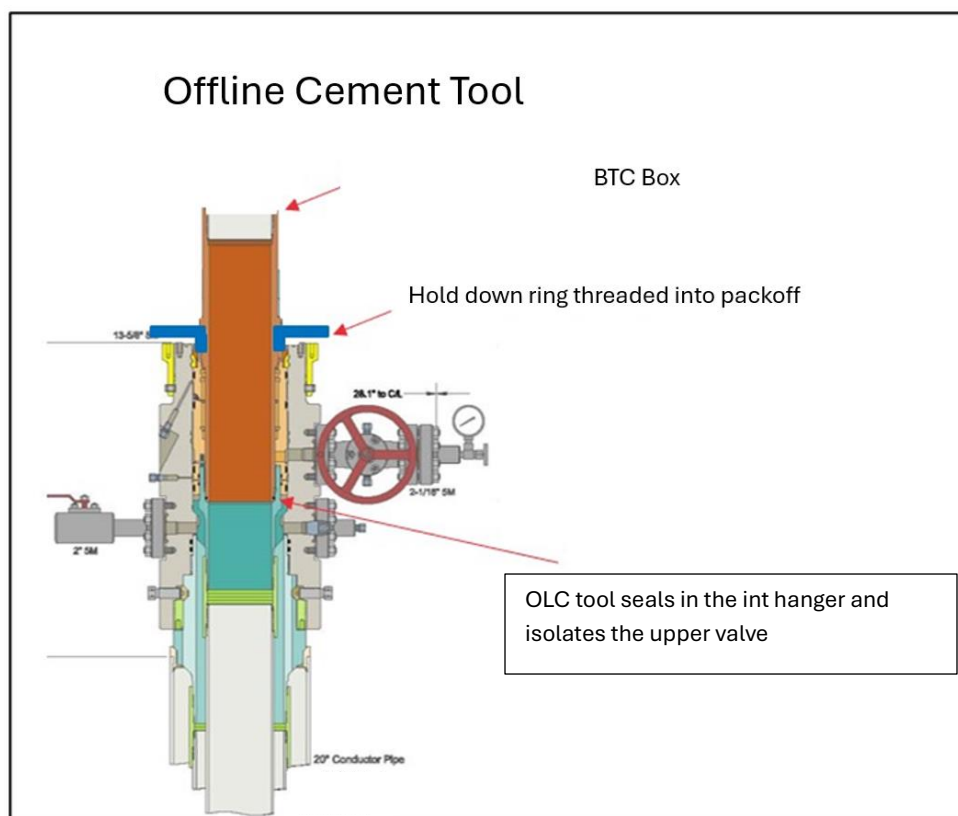
Var #	Type	Description of Request
1	Offline Cementing	Request to perform offline cementing of surface and intermediate casing when strings are set above the Wolfcamp formation. This allows rig operations to continue while cement sets. (see attached plan).
2	Intermediate Second-Stage Bullheading	Request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

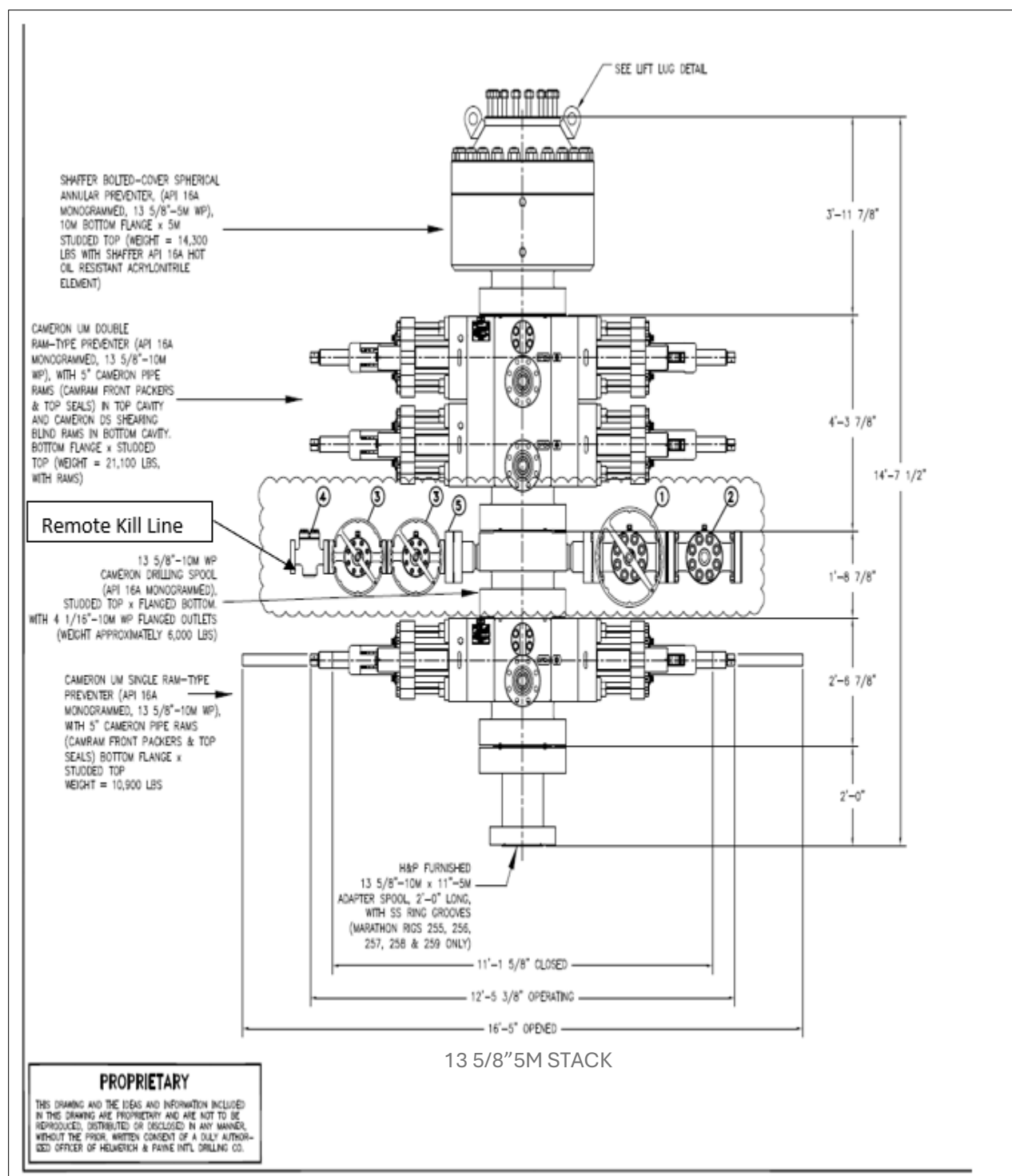
- 1 Directional Plan
- 2 Offline Cementing and Well control attachment
- 3 H2S Contingency Plan

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/screw. 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:

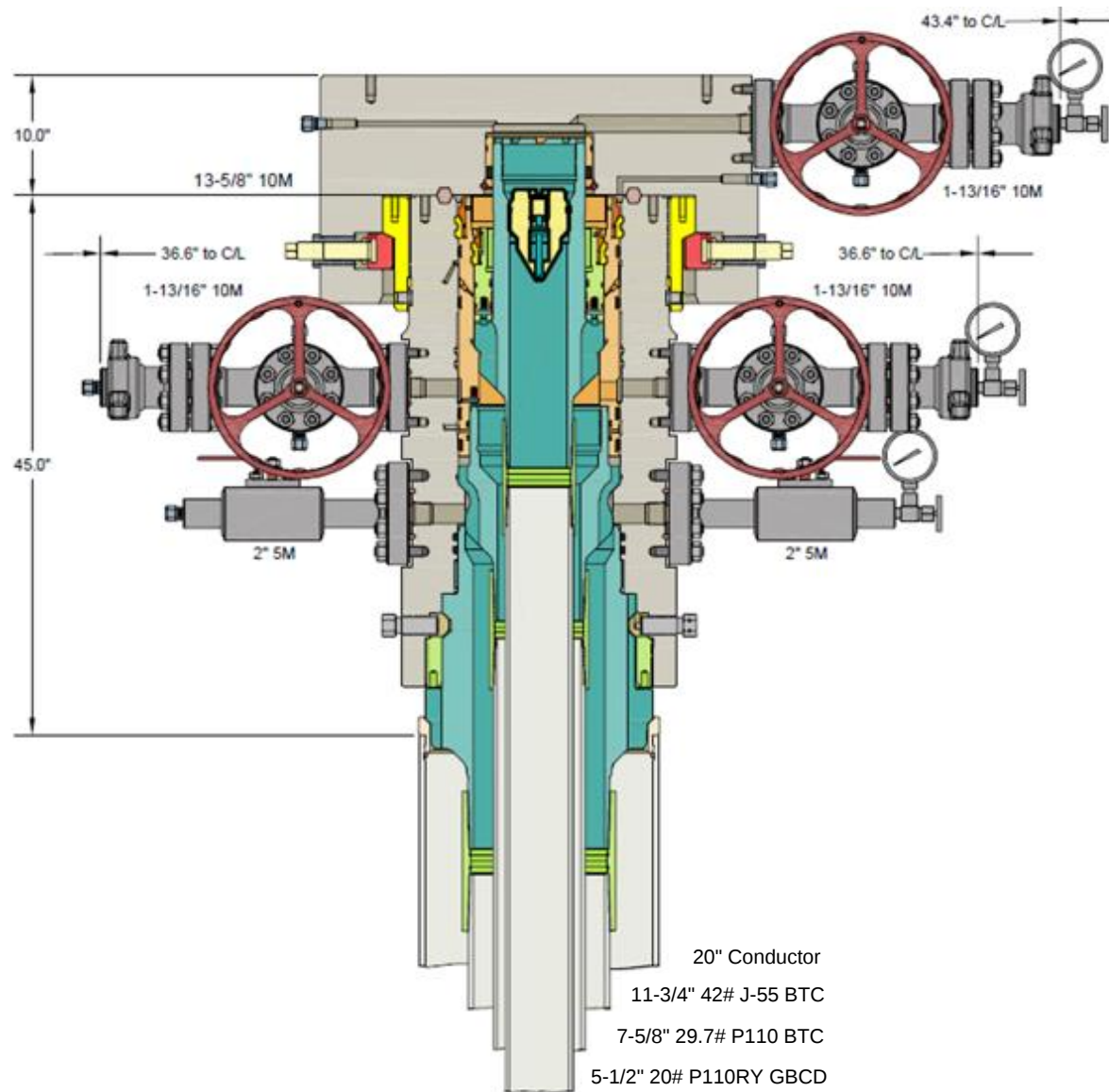


10M BOP Stack





Multi-bowl Wellhead Design





GB Connection Performance Properties Sheet

Rev. 0 (04/29/2025)

ENGINEERING THE RIGHT CONNECTIONS™

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

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

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

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

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

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

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

Units: US Customary (lbm, in., °F, lbf)

1 kip = 1,000 lbs

* See Running Procedure for description and limitations.

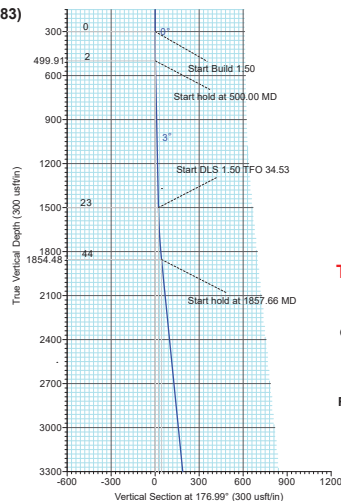
See attached: Notes for GB Connection Performance Properties.

GBC Running Procedure (GBC RP): www.gbconnections.com/resources/running-procedures/Blanking Dimensions: www.gbconnections.com/resources/documentation/#blanking-dimensions

Connection yield torque rating based on physical testing or extrapolation therefrom

** Casing properties applicable to Benteler P110 RY (95% RBW) grade with min. yield 110 ksi.

Project: Lea County, NM (NAD 83)
 Site: Junior Mint Fed Pad
 Well: Junior Mint Fed 214H
 Wellbore: OH
 Design: Plan #2
 Rig: 26' KB



Azimuths to Grid North
 True North: -0.52°
 Magnetic North: 5.53°
 Magnetic Field Strength: 47061.9nT
 Dip Angle: 59.57°
 Date: 8/18/2025
 Model: HDGM2025

Total Magnetic Correction: 5.53°

PROJECT DETAILS: Lea County, NM (NAD 83)

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

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

SHL

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

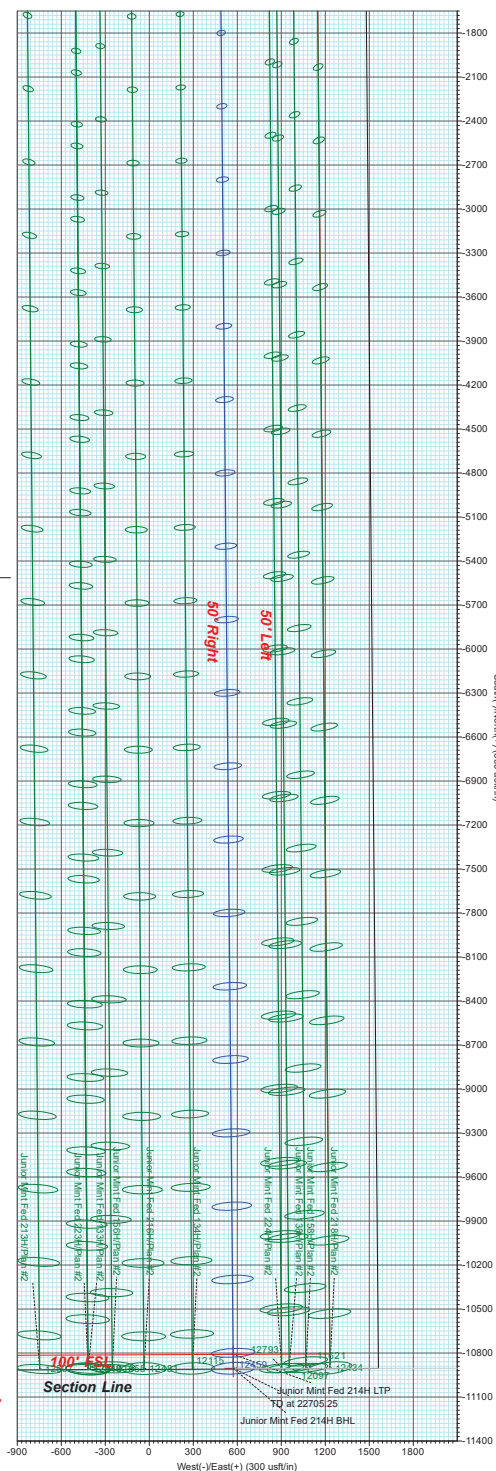
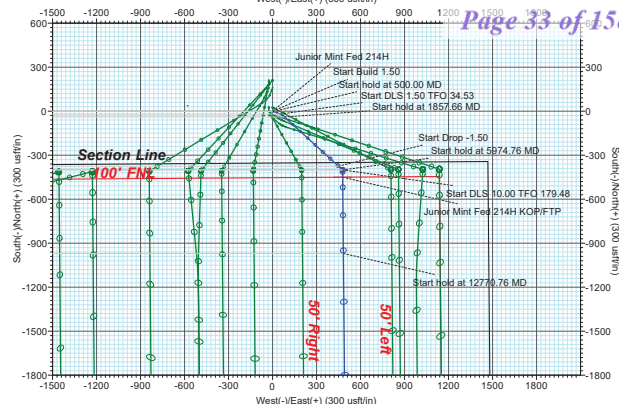
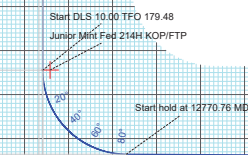
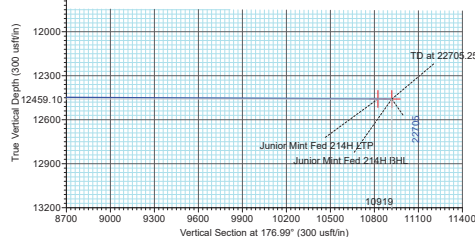
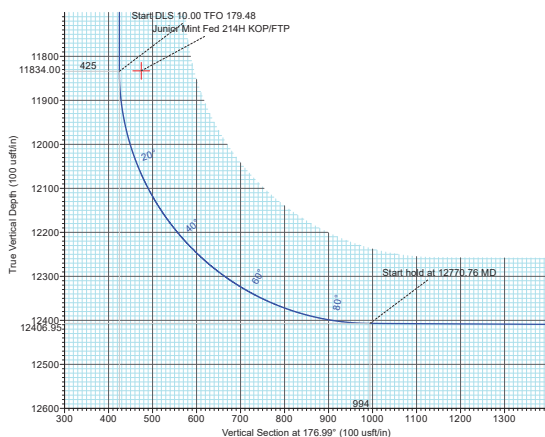
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	415541.00	845214.00	32.1385935	-103.3515902	

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	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
500.00	3.00	110.00	499.91	-1.79	4.92	1.50	110.00	2.05	
1501.46	3.00	110.00	1500.00	-19.72	54.17	0.00	0.00	22.53	
1857.66	8.00	132.30	1854.48	-39.59	81.28	1.50	34.53	43.81	
5441.64	8.00	132.30	5403.61	-375.13	450.08	0.00	0.00	398.25	
5974.76	0.00	0.00	5935.00	-400.13	477.55	1.50	180.00	424.65	
11873.76	0.00	0.00	11834.00	-400.13	477.55	0.00	0.00	424.65	
12770.76	89.70	179.48	12406.95	-970.06	482.73	10.00	179.48	994.07	
22705.25	89.70	179.48	22459.10	-10904.00	573.00	0.00	0.00	10919.05	

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Junior Mint Fed 214H KOP/FTP	11833.00	-450.00	478.00	415091.00	845692.00	32.1373447	-103.3500594
Junior Mint Fed 214H LTP	12458.50	-10809.00	572.00	404732.00	845786.00	32.1088702	-103.3500611
Junior Mint Fed 214H BHL	12459.10	-10904.00	573.00	404637.00	845787.00	32.1086090	-103.3500607



Do Not Cross SL

Civitas Resources

Lea County, NM (NAD 83)
Junior Mint Fed Pad
Junior Mint Fed 214H

OH

Plan: Plan #2



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 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 214H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	.Total Directional Production DB

Project	Lea County, NM (NAD 83)	System Datum:	Mean Sea Level
Map System:	US State Plane 1983		
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 214H					
Well Position	+N/-S	0.00 usft	Northing:	415,541.00 usft	Latitude:	32.1385936
	+E/-W	0.00 usft	Easting:	845,214.00 usft	Longitude:	-103.3515902
Position Uncertainty		0.50 usft	Wellhead Elevation:	usft	Ground Level:	3,220.00 usft
Grid Convergence:		0.52 °				

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

Design	Plan #2				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	176.99	

Survey Tool Program	Date	8/12/2025			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	22,704.37	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 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 214H	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	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	3.00	110.00	499.91	-1.79	4.92	1.50	1.50	0.00	110.00	
1,501.46	3.00	110.00	1,500.00	-19.72	54.17	0.00	0.00	0.00	0.00	
1,857.66	8.00	132.30	1,854.48	-39.59	81.28	1.50	1.40	6.26	34.53	
5,441.64	8.00	132.30	5,403.61	-375.13	450.08	0.00	0.00	0.00	0.00	
5,974.76	0.00	0.00	5,935.00	-400.13	477.55	1.50	-1.50	0.00	180.00	
11,873.76	0.00	0.00	11,834.00	-400.13	477.55	0.00	0.00	0.00	0.00	
12,770.76	89.70	179.48	12,406.95	-970.06	482.73	10.00	10.00	20.01	179.48	
22,705.25	89.70	179.48	12,459.10	-10,904.00	573.00	0.00	0.00	0.00	0.00	

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	415,541.00	845,214.00	32.1385936	-103.3515902	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	415,541.00	845,214.00	32.1385936	-103.3515902	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	415,541.00	845,214.00	32.1385936	-103.3515902	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	415,541.00	845,214.00	32.1385936	-103.3515902	0.00	0.00	0.00	0.00
400.00	1.50	110.00	399.99	-0.45	1.23	415,540.55	845,215.23	32.1385923	-103.3515862	0.51	1.50	1.50	0.00
500.00	3.00	110.00	499.91	-1.79	4.92	415,539.21	845,218.92	32.1385885	-103.3515743	2.05	1.50	1.50	0.00
600.00	3.00	110.00	599.77	-3.58	9.84	415,537.42	845,223.84	32.1385835	-103.3515585	4.09	0.00	0.00	0.00
700.00	3.00	110.00	699.63	-5.37	14.76	415,535.63	845,228.76	32.1385784	-103.3515427	6.14	0.00	0.00	0.00
800.00	3.00	110.00	799.50	-7.16	19.67	415,533.84	845,233.67	32.1385734	-103.3515268	8.18	0.00	0.00	0.00
900.00	3.00	110.00	899.36	-8.95	24.59	415,532.05	845,238.59	32.1385683	-103.3515110	10.23	0.00	0.00	0.00
1,000.00	3.00	110.00	999.22	-10.74	29.51	415,530.26	845,243.51	32.1385633	-103.3514952	12.28	0.00	0.00	0.00
1,100.00	3.00	110.00	1,099.09	-12.53	34.43	415,528.47	845,248.43	32.1385583	-103.3514793	14.32	0.00	0.00	0.00
1,200.00	3.00	110.00	1,198.95	-14.32	39.34	415,526.68	845,253.34	32.1385532	-103.3514635	16.37	0.00	0.00	0.00
1,300.00	3.00	110.00	1,298.81	-16.11	44.26	415,524.89	845,258.26	32.1385482	-103.3514477	18.41	0.00	0.00	0.00
1,400.00	3.00	110.00	1,398.68	-17.90	49.18	415,523.10	845,263.18	32.1385431	-103.3514318	20.46	0.00	0.00	0.00
1,501.46	3.00	110.00	1,500.00	-19.72	54.17	415,521.28	845,268.17	32.1385380	-103.3514158	22.53	0.00	0.00	0.00
1,600.00	4.30	121.24	1,598.34	-22.51	59.75	415,518.49	845,273.75	32.1385302	-103.3513978	25.62	1.50	1.32	11.41
1,700.00	5.71	127.22	1,697.95	-27.47	66.92	415,513.53	845,280.92	32.1385164	-103.3513748	30.94	1.50	1.41	5.98
1,800.00	7.15	130.82	1,797.32	-34.55	75.59	415,506.45	845,289.59	32.1384967	-103.3513470	38.47	1.50	1.45	3.59
1,857.66	8.00	132.30	1,854.48	-39.59	81.28	415,501.41	845,295.28	32.1384827	-103.3513288	43.81	1.50	1.46	2.57
1,900.00	8.00	132.30	1,896.41	-43.56	85.63	415,497.44	845,299.63	32.1384717	-103.3513148	47.99	0.00	0.00	0.00
2,000.00	8.00	132.30	1,995.43	-52.92	95.92	415,488.08	845,309.92	32.1384457	-103.3512819	57.88	0.00	0.00	0.00
2,100.00	8.00	132.30	2,094.46	-62.28	106.21	415,478.72	845,320.21	32.1384197	-103.3512489	67.77	0.00	0.00	0.00
2,200.00	8.00	132.30	2,193.49	-71.64	116.50	415,469.36	845,330.50	32.1383937	-103.3512159	77.66	0.00	0.00	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 214H	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)
2,300.00	8.00	132.30	2,292.52	-81.01	126.79	415,459.99	845,340.79	32.1383677	-103.3511830	87.55	0.00	0.00	0.00
2,400.00	8.00	132.30	2,391.54	-90.37	137.08	415,450.63	845,351.08	32.1383417	-103.3511500	97.44	0.00	0.00	0.00
2,500.00	8.00	132.30	2,490.57	-99.73	147.37	415,441.27	845,361.37	32.1383157	-103.3511170	107.33	0.00	0.00	0.00
2,600.00	8.00	132.30	2,589.60	-109.09	157.66	415,431.91	845,371.66	32.1382898	-103.3510841	117.22	0.00	0.00	0.00
2,700.00	8.00	132.30	2,688.63	-118.45	167.95	415,422.55	845,381.95	32.1382638	-103.3510511	127.11	0.00	0.00	0.00
2,800.00	8.00	132.30	2,787.65	-127.82	178.24	415,413.18	845,392.24	32.1382378	-103.3510182	137.00	0.00	0.00	0.00
2,900.00	8.00	132.30	2,886.68	-137.18	188.54	415,403.82	845,402.54	32.1382118	-103.3509852	146.89	0.00	0.00	0.00
3,000.00	8.00	132.30	2,985.71	-146.54	198.83	415,394.46	845,412.83	32.1381858	-103.3509522	156.78	0.00	0.00	0.00
3,100.00	8.00	132.30	3,084.74	-155.90	209.12	415,385.10	845,423.12	32.1381598	-103.3509193	166.67	0.00	0.00	0.00
3,200.00	8.00	132.30	3,183.76	-165.27	219.41	415,375.73	845,433.41	32.1381338	-103.3508863	176.56	0.00	0.00	0.00
3,300.00	8.00	132.30	3,282.79	-174.63	229.70	415,366.37	845,443.70	32.1381078	-103.3508533	186.45	0.00	0.00	0.00
3,400.00	8.00	132.30	3,381.82	-183.99	239.99	415,357.01	845,453.99	32.1380818	-103.3508204	196.34	0.00	0.00	0.00
3,500.00	8.00	132.30	3,480.85	-193.35	250.28	415,347.65	845,464.28	32.1380558	-103.3507874	206.23	0.00	0.00	0.00
3,600.00	8.00	132.30	3,579.87	-202.71	260.57	415,338.29	845,474.57	32.1380299	-103.3507544	216.12	0.00	0.00	0.00
3,700.00	8.00	132.30	3,678.90	-212.08	270.86	415,328.92	845,484.86	32.1380039	-103.3507215	226.01	0.00	0.00	0.00
3,800.00	8.00	132.30	3,777.93	-221.44	281.15	415,319.56	845,495.15	32.1379779	-103.3506885	235.90	0.00	0.00	0.00
3,900.00	8.00	132.30	3,876.96	-230.80	291.44	415,310.20	845,505.44	32.1379519	-103.3506555	245.79	0.00	0.00	0.00
4,000.00	8.00	132.30	3,975.98	-240.16	301.73	415,300.84	845,515.73	32.1379259	-103.3506226	255.68	0.00	0.00	0.00
4,100.00	8.00	132.30	4,075.01	-249.53	312.02	415,291.47	845,526.02	32.1378999	-103.3505896	265.57	0.00	0.00	0.00
4,200.00	8.00	132.30	4,174.04	-258.89	322.31	415,282.11	845,536.31	32.1378739	-103.3505566	275.46	0.00	0.00	0.00
4,300.00	8.00	132.30	4,273.07	-268.25	332.60	415,272.75	845,546.60	32.1378479	-103.3505237	285.35	0.00	0.00	0.00
4,400.00	8.00	132.30	4,372.09	-277.61	342.89	415,263.39	845,556.89	32.1378219	-103.3504907	295.23	0.00	0.00	0.00
4,500.00	8.00	132.30	4,471.12	-286.97	353.18	415,254.03	845,567.18	32.1377959	-103.3504578	305.12	0.00	0.00	0.00
4,600.00	8.00	132.30	4,570.15	-296.34	363.47	415,244.66	845,577.47	32.1377699	-103.3504248	315.01	0.00	0.00	0.00
4,700.00	8.00	132.30	4,669.18	-305.70	373.76	415,235.30	845,587.76	32.1377440	-103.3503918	324.90	0.00	0.00	0.00
4,800.00	8.00	132.30	4,768.21	-315.06	384.05	415,225.94	845,598.05	32.1377180	-103.3503589	334.79	0.00	0.00	0.00
4,900.00	8.00	132.30	4,867.23	-324.42	394.34	415,216.58	845,608.34	32.1376920	-103.3503259	344.68	0.00	0.00	0.00
5,000.00	8.00	132.30	4,966.26	-333.79	404.63	415,207.21	845,618.63	32.1376660	-103.3502929	354.57	0.00	0.00	0.00
5,100.00	8.00	132.30	5,065.29	-343.15	414.92	415,197.85	845,628.92	32.1376400	-103.3502600	364.46	0.00	0.00	0.00
5,200.00	8.00	132.30	5,164.32	-352.51	425.21	415,188.49	845,639.21	32.1376140	-103.3502270	374.35	0.00	0.00	0.00
5,300.00	8.00	132.30	5,263.34	-361.87	435.50	415,179.13	845,649.50	32.1375880	-103.3501940	384.24	0.00	0.00	0.00
5,400.00	8.00	132.30	5,362.37	-371.23	445.79	415,169.77	845,659.79	32.1375620	-103.3501611	394.13	0.00	0.00	0.00
5,441.64	8.00	132.30	5,403.61	-375.13	450.08	415,165.87	845,664.08	32.1375512	-103.3501473	398.25	0.00	0.00	0.00
5,500.00	7.12	132.30	5,461.46	-380.30	455.75	415,160.70	845,669.75	32.1375369	-103.3501292	403.71	1.50	-1.50	0.00
5,600.00	5.62	132.30	5,560.84	-387.77	463.96	415,153.23	845,677.96	32.1375161	-103.3501029	411.60	1.50	-1.50	0.00
5,700.00	4.12	132.30	5,660.47	-393.48	470.24	415,147.52	845,684.24	32.1375003	-103.3500827	417.63	1.50	-1.50	0.00
5,800.00	2.62	132.30	5,760.30	-397.44	474.59	415,143.56	845,688.59	32.1374893	-103.3500688	421.81	1.50	-1.50	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 214H	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)
5,900.00	1.12	132.30	5,860.24	-399.64	477.01	415,141.36	845,691.01	32.1374832	-103.3500611	424.13	1.50	-1.50	0.00
5,974.76	0.00	0.00	5,935.00	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	1.50	-1.50	0.00
6,000.00	0.00	0.00	5,960.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
6,100.00	0.00	0.00	6,060.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
6,200.00	0.00	0.00	6,160.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
6,300.00	0.00	0.00	6,260.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
6,400.00	0.00	0.00	6,360.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
6,500.00	0.00	0.00	6,460.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
6,600.00	0.00	0.00	6,560.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
6,700.00	0.00	0.00	6,660.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
6,800.00	0.00	0.00	6,760.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
6,900.00	0.00	0.00	6,860.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
7,000.00	0.00	0.00	6,960.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
7,100.00	0.00	0.00	7,060.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
7,200.00	0.00	0.00	7,160.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
7,300.00	0.00	0.00	7,260.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
7,400.00	0.00	0.00	7,360.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
7,500.00	0.00	0.00	7,460.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
7,600.00	0.00	0.00	7,560.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
7,700.00	0.00	0.00	7,660.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
7,800.00	0.00	0.00	7,760.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
7,900.00	0.00	0.00	7,860.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
8,000.00	0.00	0.00	7,960.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
8,100.00	0.00	0.00	8,060.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
8,200.00	0.00	0.00	8,160.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
8,300.00	0.00	0.00	8,260.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
8,400.00	0.00	0.00	8,360.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
8,500.00	0.00	0.00	8,460.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
8,600.00	0.00	0.00	8,560.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
8,700.00	0.00	0.00	8,660.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
8,800.00	0.00	0.00	8,760.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
8,900.00	0.00	0.00	8,860.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
9,000.00	0.00	0.00	8,960.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
9,100.00	0.00	0.00	9,060.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
9,200.00	0.00	0.00	9,160.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
9,300.00	0.00	0.00	9,260.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
9,400.00	0.00	0.00	9,360.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
9,500.00	0.00	0.00	9,460.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 214H	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)
9,600.00	0.00	0.00	9,560.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
9,700.00	0.00	0.00	9,660.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
9,800.00	0.00	0.00	9,760.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
9,900.00	0.00	0.00	9,860.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
10,000.00	0.00	0.00	9,960.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
10,100.00	0.00	0.00	10,060.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
10,200.00	0.00	0.00	10,160.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
10,300.00	0.00	0.00	10,260.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
10,400.00	0.00	0.00	10,360.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
10,500.00	0.00	0.00	10,460.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
10,600.00	0.00	0.00	10,560.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
10,700.00	0.00	0.00	10,660.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
10,800.00	0.00	0.00	10,760.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
10,900.00	0.00	0.00	10,860.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
11,000.00	0.00	0.00	10,960.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
11,100.00	0.00	0.00	11,060.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
11,200.00	0.00	0.00	11,160.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
11,300.00	0.00	0.00	11,260.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
11,400.00	0.00	0.00	11,360.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
11,500.00	0.00	0.00	11,460.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
11,600.00	0.00	0.00	11,560.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
11,700.00	0.00	0.00	11,660.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
11,800.00	0.00	0.00	11,760.24	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
11,872.76	0.00	0.00	11,833.00	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
Junior Mint Fed 214H KOP/FTP													
11,873.76	0.00	0.00	11,834.00	-400.13	477.55	415,140.87	845,691.55	32.1374818	-103.3500593	424.65	0.00	0.00	0.00
11,900.00	2.62	179.48	11,860.23	-400.73	477.56	415,140.27	845,691.56	32.1374802	-103.3500593	425.25	10.00	10.00	0.00
11,950.00	7.62	179.48	11,910.01	-405.19	477.60	415,135.81	845,691.60	32.1374679	-103.3500593	429.71	10.00	10.00	0.00
12,000.00	12.62	179.48	11,959.22	-413.98	477.68	415,127.02	845,691.68	32.1374437	-103.3500593	438.49	10.00	10.00	0.00
12,050.00	17.62	179.48	12,007.47	-427.02	477.79	415,113.98	845,691.79	32.1374079	-103.3500593	451.52	10.00	10.00	0.00
12,100.00	22.62	179.48	12,054.40	-444.22	477.95	415,096.78	845,691.95	32.1373606	-103.3500593	468.70	10.00	10.00	0.00
12,150.00	27.62	179.48	12,099.66	-465.44	478.14	415,075.56	845,692.14	32.1373023	-103.3500593	489.90	10.00	10.00	0.00
12,200.00	32.62	179.48	12,142.89	-490.52	478.37	415,050.48	845,692.37	32.1372333	-103.3500593	514.96	10.00	10.00	0.00
12,250.00	37.62	179.48	12,183.77	-519.28	478.63	415,021.72	845,692.63	32.1371543	-103.3500593	543.70	10.00	10.00	0.00
12,300.00	42.62	179.48	12,222.00	-551.49	478.93	414,989.51	845,692.93	32.1370658	-103.3500594	575.88	10.00	10.00	0.00
12,350.00	47.62	179.48	12,257.26	-586.91	479.25	414,954.09	845,693.25	32.1369684	-103.3500594	611.26	10.00	10.00	0.00
12,400.00	52.62	179.48	12,289.31	-625.27	479.60	414,915.73	845,693.60	32.1368630	-103.3500594	649.59	10.00	10.00	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 214H	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)
12,450.00	57.62	179.48	12,317.89	-666.27	479.97	414,874.73	845,693.97	32.1367502	-103.3500594	690.55	10.00	10.00	0.00
12,500.00	62.62	179.48	12,342.79	-709.61	480.36	414,831.39	845,694.36	32.1366311	-103.3500594	733.85	10.00	10.00	0.00
12,550.00	67.62	179.48	12,363.82	-754.95	480.77	414,786.05	845,694.77	32.1365065	-103.3500594	779.16	10.00	10.00	0.00
12,600.00	72.62	179.48	12,380.81	-801.96	481.20	414,739.04	845,695.20	32.1363773	-103.3500594	826.12	10.00	10.00	0.00
12,650.00	77.62	179.48	12,393.64	-850.27	481.64	414,690.73	845,695.64	32.1362445	-103.3500594	874.38	10.00	10.00	0.00
12,700.00	82.62	179.48	12,402.22	-899.51	482.09	414,641.49	845,696.09	32.1361091	-103.3500594	923.58	10.00	10.00	0.00
12,750.00	87.62	179.48	12,406.47	-949.31	482.54	414,591.69	845,696.54	32.1359722	-103.3500594	973.34	10.00	10.00	0.00
12,770.76	89.70	179.48	12,406.95	-970.06	482.73	414,570.94	845,696.73	32.1359152	-103.3500594	994.07	10.00	10.00	0.00
12,800.00	89.70	179.48	12,407.10	-999.30	482.99	414,541.70	845,696.99	32.1358348	-103.3500594	1,023.28	0.00	0.00	0.00
12,900.00	89.70	179.48	12,407.63	-1,099.29	483.90	414,441.71	845,697.90	32.1355600	-103.3500594	1,123.19	0.00	0.00	0.00
13,000.00	89.70	179.48	12,408.15	-1,199.29	484.81	414,341.71	845,698.81	32.1352851	-103.3500594	1,223.09	0.00	0.00	0.00
13,100.00	89.70	179.48	12,408.68	-1,299.28	485.72	414,241.72	845,699.72	32.1350102	-103.3500595	1,323.00	0.00	0.00	0.00
13,200.00	89.70	179.48	12,409.20	-1,399.28	486.63	414,141.72	845,700.63	32.1347354	-103.3500595	1,422.90	0.00	0.00	0.00
13,300.00	89.70	179.48	12,409.73	-1,499.27	487.54	414,041.73	845,701.54	32.1344605	-103.3500595	1,522.80	0.00	0.00	0.00
13,400.00	89.70	179.48	12,410.25	-1,599.27	488.45	413,941.73	845,702.45	32.1341857	-103.3500595	1,622.71	0.00	0.00	0.00
13,500.00	89.70	179.48	12,410.78	-1,699.26	489.36	413,841.74	845,703.36	32.1339108	-103.3500595	1,722.61	0.00	0.00	0.00
13,600.00	89.70	179.48	12,411.30	-1,799.25	490.26	413,741.75	845,704.26	32.1336359	-103.3500595	1,822.52	0.00	0.00	0.00
13,700.00	89.70	179.48	12,411.83	-1,899.25	491.17	413,641.75	845,705.17	32.1333611	-103.3500595	1,922.42	0.00	0.00	0.00
13,800.00	89.70	179.48	12,412.35	-1,999.24	492.08	413,541.76	845,706.08	32.1330862	-103.3500596	2,022.32	0.00	0.00	0.00
13,900.00	89.70	179.48	12,412.88	-2,099.24	492.99	413,441.76	845,706.99	32.1328114	-103.3500596	2,122.23	0.00	0.00	0.00
14,000.00	89.70	179.48	12,413.40	-2,199.23	493.90	413,341.77	845,707.90	32.1325365	-103.3500596	2,222.13	0.00	0.00	0.00
14,100.00	89.70	179.48	12,413.93	-2,299.23	494.81	413,241.77	845,708.81	32.1322616	-103.3500596	2,322.04	0.00	0.00	0.00
14,200.00	89.70	179.48	12,414.45	-2,399.22	495.72	413,141.78	845,709.72	32.1319868	-103.3500596	2,421.94	0.00	0.00	0.00
14,300.00	89.70	179.48	12,414.98	-2,499.22	496.62	413,041.78	845,710.62	32.1317119	-103.3500596	2,521.85	0.00	0.00	0.00
14,400.00	89.70	179.48	12,415.50	-2,599.21	497.53	412,941.79	845,711.53	32.1314370	-103.3500596	2,621.75	0.00	0.00	0.00
14,500.00	89.70	179.48	12,416.03	-2,699.21	498.44	412,841.79	845,712.44	32.1311622	-103.3500596	2,721.65	0.00	0.00	0.00
14,600.00	89.70	179.48	12,416.55	-2,799.20	499.35	412,741.80	845,713.35	32.1308873	-103.3500597	2,821.56	0.00	0.00	0.00
14,700.00	89.70	179.48	12,417.08	-2,899.19	500.26	412,641.81	845,714.26	32.1306125	-103.3500597	2,921.46	0.00	0.00	0.00
14,800.00	89.70	179.48	12,417.60	-2,999.19	501.17	412,541.81	845,715.17	32.1303376	-103.3500597	3,021.37	0.00	0.00	0.00
14,900.00	89.70	179.48	12,418.13	-3,099.18	502.08	412,441.82	845,716.08	32.1300627	-103.3500597	3,121.27	0.00	0.00	0.00
15,000.00	89.70	179.48	12,418.65	-3,199.18	502.99	412,341.82	845,716.99	32.1297879	-103.3500597	3,221.18	0.00	0.00	0.00
15,100.00	89.70	179.48	12,419.18	-3,299.17	503.89	412,241.83	845,717.89	32.1295130	-103.3500597	3,321.08	0.00	0.00	0.00
15,200.00	89.70	179.48	12,419.70	-3,399.17	504.80	412,141.83	845,718.80	32.1292382	-103.3500597	3,420.98	0.00	0.00	0.00
15,300.00	89.70	179.48	12,420.23	-3,499.16	505.71	412,041.84	845,719.71	32.1289633	-103.3500598	3,520.89	0.00	0.00	0.00
15,400.00	89.70	179.48	12,420.75	-3,599.16	506.62	411,941.84	845,720.62	32.1286884	-103.3500598	3,620.79	0.00	0.00	0.00
15,500.00	89.70	179.48	12,421.28	-3,699.15	507.53	411,841.85	845,721.53	32.1284136	-103.3500598	3,720.70	0.00	0.00	0.00
15,600.00	89.70	179.48	12,421.80	-3,799.14	508.44	411,741.86	845,722.44	32.1281387	-103.3500598	3,820.60	0.00	0.00	0.00
15,700.00	89.70	179.48	12,422.33	-3,899.14	509.35	411,641.86	845,723.35	32.1278638	-103.3500598	3,920.51	0.00	0.00	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 214H	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)
15,800.00	89.70	179.48	12,422.85	-3,999.13	510.25	411,541.87	845,724.25	32.1275890	-103.3500598	4,020.41	0.00	0.00	0.00
15,900.00	89.70	179.48	12,423.38	-4,099.13	511.16	411,441.87	845,725.16	32.1273141	-103.3500598	4,120.31	0.00	0.00	0.00
16,000.00	89.70	179.48	12,423.90	-4,199.12	512.07	411,341.88	845,726.07	32.1270393	-103.3500598	4,220.22	0.00	0.00	0.00
16,100.00	89.70	179.48	12,424.43	-4,299.12	512.98	411,241.88	845,726.98	32.1267644	-103.3500599	4,320.12	0.00	0.00	0.00
16,200.00	89.70	179.48	12,424.95	-4,399.11	513.89	411,141.89	845,727.89	32.1264895	-103.3500599	4,420.03	0.00	0.00	0.00
16,300.00	89.70	179.48	12,425.48	-4,499.11	514.80	411,041.89	845,728.80	32.1262147	-103.3500599	4,519.93	0.00	0.00	0.00
16,400.00	89.70	179.48	12,426.00	-4,599.10	515.71	410,941.90	845,729.71	32.1259398	-103.3500599	4,619.84	0.00	0.00	0.00
16,500.00	89.70	179.48	12,426.53	-4,699.10	516.62	410,841.90	845,730.62	32.1256649	-103.3500599	4,719.74	0.00	0.00	0.00
16,600.00	89.70	179.48	12,427.05	-4,799.09	517.52	410,741.91	845,731.52	32.1253901	-103.3500599	4,819.64	0.00	0.00	0.00
16,700.00	89.70	179.48	12,427.58	-4,899.08	518.43	410,641.92	845,732.43	32.1251152	-103.3500599	4,919.55	0.00	0.00	0.00
16,800.00	89.70	179.48	12,428.10	-4,999.08	519.34	410,541.92	845,733.34	32.1248404	-103.3500599	5,019.45	0.00	0.00	0.00
16,900.00	89.70	179.48	12,428.63	-5,099.07	520.25	410,441.93	845,734.25	32.1245655	-103.3500600	5,119.36	0.00	0.00	0.00
17,000.00	89.70	179.48	12,429.15	-5,199.07	521.16	410,341.93	845,735.16	32.1242906	-103.3500600	5,219.26	0.00	0.00	0.00
17,100.00	89.70	179.48	12,429.68	-5,299.06	522.07	410,241.94	845,736.07	32.1240158	-103.3500600	5,319.17	0.00	0.00	0.00
17,200.00	89.70	179.48	12,430.20	-5,399.06	522.98	410,141.94	845,736.98	32.1237409	-103.3500600	5,419.07	0.00	0.00	0.00
17,300.00	89.70	179.48	12,430.73	-5,499.05	523.88	410,041.95	845,737.88	32.1234660	-103.3500600	5,518.97	0.00	0.00	0.00
17,400.00	89.70	179.48	12,431.25	-5,599.05	524.79	409,941.95	845,738.79	32.1231912	-103.3500600	5,618.88	0.00	0.00	0.00
17,500.00	89.70	179.48	12,431.78	-5,699.04	525.70	409,841.96	845,739.70	32.1229163	-103.3500600	5,718.78	0.00	0.00	0.00
17,600.00	89.70	179.48	12,432.30	-5,799.03	526.61	409,741.97	845,740.61	32.1226415	-103.3500600	5,818.69	0.00	0.00	0.00
17,700.00	89.70	179.48	12,432.83	-5,899.03	527.52	409,641.97	845,741.52	32.1223666	-103.3500601	5,918.59	0.00	0.00	0.00
17,800.00	89.70	179.48	12,433.35	-5,999.02	528.43	409,541.98	845,742.43	32.1220917	-103.3500601	6,018.50	0.00	0.00	0.00
17,900.00	89.70	179.48	12,433.88	-6,099.02	529.34	409,441.98	845,743.34	32.1218169	-103.3500601	6,118.40	0.00	0.00	0.00
18,000.00	89.70	179.48	12,434.40	-6,199.01	530.25	409,341.99	845,744.25	32.1215420	-103.3500601	6,218.30	0.00	0.00	0.00
18,100.00	89.70	179.48	12,434.93	-6,299.01	531.15	409,241.99	845,745.15	32.1212672	-103.3500601	6,318.21	0.00	0.00	0.00
18,200.00	89.70	179.48	12,435.45	-6,399.00	532.06	409,142.00	845,746.06	32.1209923	-103.3500601	6,418.11	0.00	0.00	0.00
18,300.00	89.70	179.48	12,435.98	-6,499.00	532.97	409,042.00	845,746.97	32.1207174	-103.3500601	6,518.02	0.00	0.00	0.00
18,400.00	89.70	179.48	12,436.50	-6,598.99	533.88	408,942.01	845,747.88	32.1204426	-103.3500601	6,617.92	0.00	0.00	0.00
18,500.00	89.70	179.48	12,437.03	-6,698.99	534.79	408,842.01	845,748.79	32.1201677	-103.3500602	6,717.83	0.00	0.00	0.00
18,600.00	89.70	179.48	12,437.55	-6,798.98	535.70	408,742.02	845,749.70	32.1198928	-103.3500602	6,817.73	0.00	0.00	0.00
18,700.00	89.70	179.48	12,438.08	-6,898.97	536.61	408,642.03	845,750.61	32.1196180	-103.3500602	6,917.63	0.00	0.00	0.00
18,800.00	89.70	179.48	12,438.60	-6,998.97	537.51	408,542.03	845,751.51	32.1193431	-103.3500602	7,017.54	0.00	0.00	0.00
18,900.00	89.70	179.48	12,439.13	-7,098.96	538.42	408,442.04	845,752.42	32.1190683	-103.3500602	7,117.44	0.00	0.00	0.00
19,000.00	89.70	179.48	12,439.65	-7,198.96	539.33	408,342.04	845,753.33	32.1187934	-103.3500602	7,217.35	0.00	0.00	0.00
19,100.00	89.70	179.48	12,440.17	-7,298.95	540.24	408,242.05	845,754.24	32.1185185	-103.3500602	7,317.25	0.00	0.00	0.00
19,200.00	89.70	179.48	12,440.70	-7,398.95	541.15	408,142.05	845,755.15	32.1182437	-103.3500602	7,417.15	0.00	0.00	0.00
19,300.00	89.70	179.48	12,441.22	-7,498.94	542.06	408,042.06	845,756.06	32.1179688	-103.3500603	7,517.06	0.00	0.00	0.00
19,400.00	89.70	179.48	12,441.75	-7,598.94	542.97	407,942.06	845,756.97	32.1176939	-103.3500603	7,616.96	0.00	0.00	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 214H	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	12,442.27	-7,698.93	543.88	407,842.07	845,757.88	32.1174191	-103.3500603	7,716.87	0.00	0.00	0.00
19,600.00	89.70	179.48	12,442.80	-7,798.92	544.78	407,742.08	845,758.78	32.1171442	-103.3500603	7,816.77	0.00	0.00	0.00
19,700.00	89.70	179.48	12,443.32	-7,898.92	545.69	407,642.08	845,759.69	32.1168694	-103.3500603	7,916.68	0.00	0.00	0.00
19,800.00	89.70	179.48	12,443.85	-7,998.91	546.60	407,542.09	845,760.60	32.1165945	-103.3500603	8,016.58	0.00	0.00	0.00
19,900.00	89.70	179.48	12,444.37	-8,098.91	547.51	407,442.09	845,761.51	32.1163196	-103.3500603	8,116.48	0.00	0.00	0.00
20,000.00	89.70	179.48	12,444.90	-8,198.90	548.42	407,342.10	845,762.42	32.1160448	-103.3500603	8,216.39	0.00	0.00	0.00
20,100.00	89.70	179.48	12,445.42	-8,298.90	549.33	407,242.10	845,763.33	32.1157699	-103.3500604	8,316.29	0.00	0.00	0.00
20,200.00	89.70	179.48	12,445.95	-8,398.89	550.24	407,142.11	845,764.24	32.1154950	-103.3500604	8,416.20	0.00	0.00	0.00
20,300.00	89.70	179.48	12,446.47	-8,498.89	551.14	407,042.11	845,765.14	32.1152202	-103.3500604	8,516.10	0.00	0.00	0.00
20,400.00	89.70	179.48	12,447.00	-8,598.88	552.05	406,942.12	845,766.05	32.1149453	-103.3500604	8,616.01	0.00	0.00	0.00
20,500.00	89.70	179.48	12,447.52	-8,698.88	552.96	406,842.13	845,766.96	32.1146705	-103.3500604	8,715.91	0.00	0.00	0.00
20,600.00	89.70	179.48	12,448.05	-8,798.87	553.87	406,742.13	845,767.87	32.1143956	-103.3500604	8,815.81	0.00	0.00	0.00
20,700.00	89.70	179.48	12,448.57	-8,898.86	554.78	406,642.14	845,768.78	32.1141207	-103.3500604	8,915.72	0.00	0.00	0.00
20,800.00	89.70	179.48	12,449.10	-8,998.86	555.69	406,542.14	845,769.69	32.1138459	-103.3500604	9,015.62	0.00	0.00	0.00
20,900.00	89.70	179.48	12,449.62	-9,098.85	556.60	406,442.15	845,770.60	32.1135710	-103.3500605	9,115.53	0.00	0.00	0.00
21,000.00	89.70	179.48	12,450.15	-9,198.85	557.51	406,342.15	845,771.51	32.1132961	-103.3500605	9,215.43	0.00	0.00	0.00
21,100.00	89.70	179.48	12,450.67	-9,298.84	558.41	406,242.16	845,772.41	32.1130213	-103.3500605	9,315.34	0.00	0.00	0.00
21,200.00	89.70	179.48	12,451.20	-9,398.84	559.32	406,142.16	845,773.32	32.1127464	-103.3500605	9,415.24	0.00	0.00	0.00
21,300.00	89.70	179.48	12,451.72	-9,498.83	560.23	406,042.17	845,774.23	32.1124716	-103.3500605	9,515.14	0.00	0.00	0.00
21,400.00	89.70	179.48	12,452.25	-9,598.83	561.14	405,942.17	845,775.14	32.1121967	-103.3500605	9,615.05	0.00	0.00	0.00
21,500.00	89.70	179.48	12,452.77	-9,698.82	562.05	405,842.18	845,776.05	32.1119218	-103.3500605	9,714.95	0.00	0.00	0.00
21,600.00	89.70	179.48	12,453.30	-9,798.81	562.96	405,742.19	845,776.96	32.1116470	-103.3500605	9,814.86	0.00	0.00	0.00
21,700.00	89.70	179.48	12,453.82	-9,898.81	563.87	405,642.19	845,777.87	32.1113721	-103.3500605	9,914.76	0.00	0.00	0.00
21,800.00	89.70	179.48	12,454.35	-9,998.80	564.77	405,542.20	845,778.77	32.1110972	-103.3500606	10,014.67	0.00	0.00	0.00
21,900.00	89.70	179.48	12,454.87	-10,098.80	565.68	405,442.20	845,779.68	32.1108224	-103.3500606	10,114.57	0.00	0.00	0.00
22,000.00	89.70	179.48	12,455.40	-10,198.79	566.59	405,342.21	845,780.59	32.1105475	-103.3500606	10,214.47	0.00	0.00	0.00
22,100.00	89.70	179.48	12,455.92	-10,298.79	567.50	405,242.21	845,781.50	32.1102727	-103.3500606	10,314.38	0.00	0.00	0.00
22,200.00	89.70	179.48	12,456.45	-10,398.78	568.41	405,142.22	845,782.41	32.1099978	-103.3500606	10,414.28	0.00	0.00	0.00
22,300.00	89.70	179.48	12,456.97	-10,498.78	569.32	405,042.22	845,783.32	32.1097229	-103.3500606	10,514.19	0.00	0.00	0.00
22,400.00	89.70	179.48	12,457.50	-10,598.77	570.23	404,942.23	845,784.23	32.1094481	-103.3500606	10,614.09	0.00	0.00	0.00
22,500.00	89.70	179.48	12,458.02	-10,698.76	571.14	404,842.24	845,785.14	32.1091732	-103.3500606	10,714.00	0.00	0.00	0.00
22,600.00	89.70	179.48	12,458.55	-10,798.76	572.04	404,742.24	845,786.04	32.1088983	-103.3500606	10,813.90	0.00	0.00	0.00
Junior Mint Fed 214H LTP													
22,705.25	89.70	179.48	12,459.10	-10,904.00	573.00	404,637.00	845,787.00	32.1086091	-103.3500607	10,919.05	0.00	0.00	0.00
Junior Mint Fed 214H BHL													

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 214H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	.Total Directional Production DB

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
Junior Mint Fed 214H	0.00	0.00	11,833.00	-450.00	478.00	415,091.00	845,692.00	32.1373447	-103.3500594
- plan misses target center by 49.87usft at 11872.76usft MD (11833.00 TVD, -400.13 N, 477.55 E)									
- Point									
Junior Mint Fed 214H	0.00	0.00	12,458.50	-10,809.00	572.00	404,732.00	845,786.00	32.1088702	-103.3500611
- plan misses target center by 10.24usft at 22600.00usft MD (12458.55 TVD, -10798.76 N, 572.04 E)									
- Point									
Junior Mint Fed 214H	0.00	0.00	12,459.10	-10,904.00	573.00	404,637.00	845,787.00	32.1086091	-103.3500607
- plan hits target center									
- Point									

Checked By: _____ Approved By: _____ Date: _____

Civitas Resources

Lea County, NM (NAD 83)

Junior Mint Fed Pad

Junior Mint Fed 214H

OH

Plan #2



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 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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 214H					
Well Position	+N/-S	0.00 usft	Northing:	415,541.00 usft	Latitude:	32.1385936
	+E/-W	0.00 usft	Easting:	845,214.00 usft	Longitude:	-103.3515902
Position Uncertainty		0.50 usft	Wellhead Elevation:	usft	Ground Level:	3,220.00 usft
Grid Convergence:		0.52 °				

Survey Tool Program	Date	8/12/2025					
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description			
0.00	22,704.37	Plan #2 (OH)	MWD+HRGM+SAG+FDIR (n	OWSG MWD + HRGM + SAG + FDIR Correction			

Experimental: Summary Highlights: Junior Mint Fed 214H

Offset Listing								
Offset Customer - Project - Site Name			Map Coordinates		Geographical Coordinates		Surface Uncertainty	
Offset Well	Ground Level	KB Height	Northing	Easting	Latitude	Longitude	Site	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 213H -	3,221.00	3,247.00	415,701.00	845,214.00	32.1390333	-103.3515855	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

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

8/18/2025 4:11:19PM

Page 2 of 74

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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		Geographical Coordinates		Surface Uncertainty	
			Northing	Easting	Latitude	Longitude	Site	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		Separation Factor	Warning
			Between Centres (usft)	Between Ellipses (usft)		
Junior Mint Fed Pad						
Junior Mint Fed 131H - OH - Plan 1						Out of range
Junior Mint Fed 132H - OH - Plan 2	4,551.21	4,786.51	2,292.68	2,270.60	103.87	CC
Junior Mint Fed 132H - OH - Plan 2	22,705.25	22,425.19	2,383.83	2,094.87	8.25	ES, SF
Junior Mint Fed 133H - OH - Plan #2	300.00	301.00	186.68	182.72	47.07	CC
Junior Mint Fed 133H - OH - Plan #2	1,500.00	1,510.24	191.60	182.08	20.12	ES
Junior Mint Fed 133H - OH - Plan #2	22,705.25	22,387.52	1,040.07	750.63	3.59	SF
Junior Mint Fed 134H - OH - Plan #2	300.00	301.00	35.36	31.40	8.93	CC, ES
Junior Mint Fed 134H - OH - Plan #2	22,702.31	22,335.19	442.67	236.98	2.15	SF
Junior Mint Fed 135H - OH - Plan 1						Out of range
Junior Mint Fed 137H - OH - Plan 2	11,646.63	11,739.36	1,706.02	1,670.28	47.73	CC
Junior Mint Fed 137H - OH - Plan 2	22,695.41	22,512.84	1,728.52	1,440.43	6.00	ES
Junior Mint Fed 137H - OH - Plan 2	22,700.00	22,512.84	1,728.53	1,440.43	6.00	SF
Junior Mint Fed 138H - OH - Plan #2	1,973.98	1,977.00	24.09	12.81	2.14	CC, ES
Junior Mint Fed 138H - OH - Plan #2	2,000.00	2,002.88	24.25	12.82	2.12	SF
Junior Mint Fed 151H - OH - Plan 1						Out of range
Junior Mint Fed 152H - OH - Plan #3	3,662.21	3,888.02	2,311.82	2,292.45	119.37	CC
Junior Mint Fed 152H - OH - Plan #3	3,700.00	3,912.14	2,311.93	2,292.44	118.61	ES
Junior Mint Fed 152H - OH - Plan #3	5,300.00	5,234.24	2,426.01	2,402.07	101.32	SF
Junior Mint Fed 156H - OH - Plan #2	1,130.79	1,139.54	147.44	139.16	17.81	CC
Junior Mint Fed 156H - OH - Plan #2	1,200.00	1,208.37	147.62	139.06	17.24	ES
Junior Mint Fed 156H - OH - Plan #2	22,705.25	21,918.86	1,151.98	923.26	5.04	SF
Junior Mint Fed 158H - OH - Plan #2	300.00	300.00	35.36	31.39	8.92	CC
Junior Mint Fed 158H - OH - Plan #2	400.00	400.08	35.79	31.13	7.68	ES
Junior Mint Fed 158H - OH - Plan #2	22,705.25	21,945.36	973.28	790.01	5.31	SF
Junior Mint Fed 211H - OH - Plan 1						Out of range
Junior Mint Fed 212H - OH - Plan #1						Out of range
Junior Mint Fed 213H - OH - Plan #2	1,398.01	1,406.23	138.17	128.96	15.00	CC
Junior Mint Fed 213H - OH - Plan #2	1,400.00	1,408.18	138.17	128.95	14.99	ES
Junior Mint Fed 213H - OH - Plan #2	22,705.25	22,830.04	1,320.89	1,019.39	4.38	SF
Junior Mint Fed 215H - OH - Plan 1						Out of range
Junior Mint Fed 216H - OH - Plan #2	1,669.36	1,688.64	198.05	187.81	19.33	CC, ES
Junior Mint Fed 216H - OH - Plan #2	22,705.25	22,719.79	609.40	306.91	2.01	SF
Junior Mint Fed 217H - OH - Plan #1	11,861.17	11,933.97	1,934.02	1,899.47	55.98	CC
Junior Mint Fed 217H - OH - Plan #1	22,700.00	22,698.24	1,940.46	1,649.44	6.67	ES
Junior Mint Fed 217H - OH - Plan #1	22,705.25	22,698.24	1,940.48	1,649.44	6.67	SF
Junior Mint Fed 218H - OH - Plan #2	530.82	530.37	24.72	19.28	4.54	CC
Junior Mint Fed 218H - OH - Plan #2	600.00	599.40	24.93	19.11	4.28	ES
Junior Mint Fed 218H - OH - Plan #2	22,705.25	22,766.63	659.47	359.88	2.20	SF
Junior Mint Fed 221H - OH - Plan 1						Out of range
Junior Mint Fed 222H - OH - Plan #1	5,277.27	5,530.92	2,228.98	2,204.04	89.38	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 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Junior Mint Fed Pad						
Junior Mint Fed 222H - OH - Plan #1	22,705.25	23,184.44	2,370.21	2,084.01	8.28	ES, SF
Junior Mint Fed 223H - OH - Plan #2	300.00	302.00	210.00	206.03	52.91	CC
Junior Mint Fed 223H - OH - Plan #2	400.00	401.99	210.45	205.78	45.07	ES
Junior Mint Fed 223H - OH - Plan #2	22,705.25	23,139.21	1,063.73	779.19	3.74	SF
Junior Mint Fed 224H - OH - Plan #2	300.00	302.00	25.00	21.03	6.30	CC
Junior Mint Fed 224H - OH - Plan #2	400.00	401.99	25.48	20.81	5.45	ES
Junior Mint Fed 224H - OH - Plan #2	22,705.25	23,103.01	469.58	246.69	2.11	SF

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 132H - OH - Plan 2

Survey Program: 204-MWD+HRGM+SAG+FDIR (rev.5), 1043-MWD+HRGM+SAG+FDIR (rev.5)													Offset Site Error:	0.00 usft
Reference Offset							Semi Major Axis		Distance		Rule Assigned:		Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,400.00	2,391.54	2,797.61	2,784.41	6.82	7.08	125.52	-628.38	-2,194.54	2,424.93	2,411.20	13.72	176.722		
2,500.00	2,490.57	2,895.67	2,880.98	7.01	7.27	125.93	-618.68	-2,180.51	2,416.76	2,402.65	14.11	171.222		
2,600.00	2,589.60	2,993.73	2,977.55	7.21	7.46	126.35	-608.98	-2,166.47	2,408.74	2,394.23	14.51	166.015		
2,700.00	2,688.63	3,091.80	3,074.12	7.41	7.64	126.77	-599.29	-2,152.44	2,400.84	2,385.93	14.90	161.079		
2,800.00	2,787.65	3,189.86	3,170.69	7.61	7.83	127.20	-589.59	-2,138.40	2,393.08	2,377.77	15.30	156.395		
2,900.00	2,886.68	3,287.93	3,267.26	7.81	8.02	127.62	-579.89	-2,124.37	2,385.45	2,369.75	15.70	151.947		
3,000.00	2,985.71	3,385.99	3,363.83	8.01	8.21	128.05	-570.20	-2,110.34	2,377.96	2,361.86	16.10	147.717		
3,100.00	3,084.74	3,484.06	3,460.40	8.21	8.40	128.48	-560.50	-2,096.30	2,370.60	2,354.11	16.50	143.693		
3,200.00	3,183.76	3,582.12	3,556.97	8.40	8.59	128.92	-550.80	-2,082.27	2,363.39	2,346.49	16.90	139.860		
3,300.00	3,282.79	3,680.19	3,653.54	8.60	8.80	129.36	-541.11	-2,068.23	2,356.32	2,339.02	17.30	136.201		
3,400.00	3,381.82	3,778.25	3,750.11	8.80	9.01	129.79	-531.41	-2,054.20	2,349.39	2,331.69	17.70	132.718		
3,500.00	3,480.85	3,876.32	3,846.68	9.00	9.23	130.24	-521.71	-2,040.17	2,342.60	2,324.50	18.11	129.389		
3,600.00	3,579.87	3,974.38	3,943.25	9.20	9.44	130.68	-512.02	-2,026.13	2,335.96	2,317.45	18.51	126.208		
3,700.00	3,678.90	4,072.45	4,039.82	9.40	9.66	131.13	-502.32	-2,012.10	2,329.46	2,310.55	18.91	123.166		
3,800.00	3,777.93	4,170.51	4,136.39	9.60	9.87	131.58	-492.63	-1,998.06	2,323.11	2,303.79	19.32	120.255		
3,900.00	3,876.96	4,268.58	4,232.96	9.80	10.09	132.03	-482.93	-1,984.03	2,316.91	2,297.18	19.72	117.467		
4,000.00	3,975.98	4,366.64	4,329.53	10.00	10.31	132.48	-473.23	-1,970.00	2,310.85	2,290.72	20.13	114.795		
4,100.00	4,075.01	4,466.64	4,418.36	10.20	10.49	132.90	-464.34	-1,957.12	2,305.00	2,284.50	20.50	112.445		
4,200.00	4,174.04	4,569.52	4,490.06	10.40	10.63	133.23	-457.57	-1,947.32	2,300.12	2,279.28	20.85	110.341		
4,300.00	4,273.07	4,600.00	4,559.72	10.60	10.78	133.54	-451.50	-1,938.54	2,296.48	2,275.28	21.20	108.337		
4,400.00	4,372.09	4,675.57	4,634.56	10.80	10.93	133.86	-445.53	-1,929.90	2,294.05	2,272.50	21.55	106.440		
4,500.00	4,471.12	4,748.90	4,707.30	11.00	11.06	134.16	-440.28	-1,922.30	2,292.83	2,270.93	21.90	104.705		
4,551.21	4,521.84	4,786.51	4,744.66	11.10	11.13	134.31	-437.79	-1,918.70	2,292.68	2,270.60	22.07	103.865	CC	
4,600.00	4,570.15	4,822.38	4,780.31	11.20	11.19	134.45	-435.55	-1,915.45	2,292.82	2,270.58	22.24	103.100		
4,700.00	4,669.18	4,900.00	4,857.54	11.40	11.32	134.75	-431.12	-1,909.05	2,294.00	2,271.42	22.58	101.588		
4,800.00	4,768.21	4,969.76	4,927.03	11.60	11.43	135.00	-427.66	-1,904.03	2,296.35	2,273.45	22.90	100.270		
4,900.00	4,867.23	5,043.61	5,000.67	11.80	11.54	135.25	-424.51	-1,899.48	2,299.88	2,276.66	23.22	99.033		
5,000.00	4,966.26	5,117.52	5,074.44	12.00	11.64	135.49	-421.91	-1,895.71	2,304.57	2,281.03	23.54	97.905		
5,100.00	5,065.29	5,200.00	5,156.82	12.20	11.75	135.75	-419.64	-1,892.43	2,310.43	2,286.56	23.86	96.819		
5,200.00	5,164.32	5,265.46	5,222.24	12.40	11.82	135.94	-418.32	-1,890.51	2,317.38	2,293.24	24.15	95.975		
5,300.00	5,263.34	5,339.44	5,296.19	12.60	11.91	136.14	-417.33	-1,889.09	2,325.49	2,301.05	24.43	95.172		
5,400.00	5,362.37	5,413.38	5,370.14	12.81	11.99	136.32	-416.90	-1,888.46	2,334.71	2,310.00	24.71	94.496		
5,500.00	5,461.46	5,504.70	5,461.46	12.97	12.03	136.59	-416.87	-1,888.42	2,344.46	2,319.54	24.91	94.100		
5,600.00	5,560.84	5,604.08	5,560.84	13.17	12.11	136.86	-416.87	-1,888.42	2,352.56	2,327.38	25.18	93.423		
5,700.00	5,660.47	5,703.72	5,660.47	13.36	12.18	137.06	-416.87	-1,888.42	2,358.78	2,333.35	25.43	92.740		
5,800.00	5,760.30	5,803.54	5,760.30	13.54	12.26	137.20	-416.87	-1,888.42	2,363.09	2,337.42	25.67	92.053		

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

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		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)			Between Ellipses (usft)	Minimum Separation (usft)
21,400.00	12,452.25	21,128.51	12,201.20	132.32	123.43	83.95	-9,621.42	-1,809.16	2,383.67	2,129.78	253.89	9.389	
21,500.00	12,452.77	21,228.51	12,202.07	133.68	124.79	83.96	-9,721.41	-1,808.30	2,383.68	2,127.08	256.60	9.290	
21,600.00	12,453.30	21,328.51	12,202.94	135.04	126.14	83.97	-9,821.41	-1,807.44	2,383.69	2,124.38	259.31	9.193	
21,700.00	12,453.82	21,428.51	12,203.82	136.40	127.50	83.98	-9,921.40	-1,806.58	2,383.70	2,121.69	262.02	9.098	
21,800.00	12,454.35	21,528.51	12,204.69	137.76	128.86	83.99	-10,021.39	-1,805.72	2,383.71	2,118.99	264.73	9.004	
21,900.00	12,454.87	21,628.51	12,205.56	139.12	130.22	84.00	-10,121.38	-1,804.86	2,383.72	2,116.29	267.44	8.913	
22,000.00	12,455.40	21,728.51	12,206.43	140.48	131.57	84.00	-10,221.37	-1,804.00	2,383.73	2,113.59	270.15	8.824	
22,100.00	12,455.92	21,828.51	12,207.30	141.84	132.93	84.01	-10,321.37	-1,803.14	2,383.75	2,110.89	272.86	8.736	
22,200.00	12,456.45	21,928.51	12,208.17	143.20	134.29	84.02	-10,421.36	-1,802.28	2,383.76	2,108.19	275.57	8.650	
22,300.00	12,456.97	22,028.51	12,209.04	144.56	135.65	84.03	-10,521.35	-1,801.42	2,383.77	2,105.49	278.28	8.566	
22,400.00	12,457.50	22,128.51	12,209.92	145.92	137.01	84.04	-10,621.34	-1,800.55	2,383.78	2,102.79	280.99	8.483	
22,500.00	12,458.02	22,228.50	12,210.79	147.28	138.37	84.05	-10,721.33	-1,799.69	2,383.79	2,100.09	283.71	8.402	
22,600.00	12,458.55	22,328.50	12,211.66	148.64	139.73	84.06	-10,821.33	-1,798.83	2,383.80	2,097.38	286.42	8.323	
22,605.27	12,458.58	22,333.77	12,211.70	148.70	139.80	84.06	-10,826.59	-1,798.79	2,383.80	2,097.25	286.56	8.319	
22,700.00	12,459.07	22,425.19	12,212.50	149.86	141.04	84.06	-10,918.00	-1,798.00	2,383.82	2,094.89	288.92	8.251	
22,705.25	12,459.10	22,425.19	12,212.50	149.93	141.04	84.06	-10,918.00	-1,798.00	2,383.83	2,094.87	288.96	8.250 ES, SF	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	
												Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,065.29	5,033.54	4,981.09	12.20	12.57	138.18	-324.21	-422.15	841.51	817.06	24.44	34.428	
5,200.00	5,164.32	5,131.37	5,077.59	12.40	12.81	137.93	-336.89	-432.14	861.87	837.01	24.86	34.665	
5,300.00	5,263.34	5,229.20	5,174.08	12.60	13.04	137.68	-349.57	-442.13	882.25	856.96	25.28	34.895	
5,400.00	5,362.37	5,327.04	5,270.57	12.81	13.26	137.44	-362.25	-452.12	902.64	876.95	25.70	35.129	
5,500.00	5,461.46	5,437.11	5,379.27	12.97	13.49	137.33	-375.84	-462.84	922.27	896.17	26.10	35.334	
5,600.00	5,560.84	5,553.33	5,494.51	13.17	13.73	137.31	-387.60	-472.10	938.41	911.85	26.56	35.333	
5,700.00	5,660.47	5,670.58	5,611.19	13.36	13.93	137.29	-396.67	-479.25	950.78	923.80	26.97	35.247	
5,800.00	5,760.30	5,788.61	5,728.94	13.54	14.10	137.29	-402.95	-484.20	959.33	931.98	27.34	35.085	
5,900.00	5,860.24	5,907.12	5,847.37	13.69	14.24	137.29	-406.38	-486.91	964.03	936.37	27.65	34.859	
6,000.00	5,960.24	6,019.99	5,960.24	13.75	14.29	-90.41	-407.07	-487.45	965.02	937.26	27.76	34.759	
6,100.00	6,060.24	6,119.99	6,060.24	13.78	14.32	-90.41	-407.07	-487.45	965.02	937.19	27.83	34.672	
6,200.00	6,160.24	6,219.99	6,160.24	13.82	14.36	-90.41	-407.07	-487.45	965.02	937.12	27.90	34.584	
6,300.00	6,260.24	6,319.99	6,260.24	13.86	14.39	-90.41	-407.07	-487.45	965.02	937.05	27.98	34.496	
6,400.00	6,360.24	6,419.99	6,360.24	13.90	14.43	-90.41	-407.07	-487.45	965.02	936.98	28.05	34.407	
6,500.00	6,460.24	6,519.99	6,460.24	13.94	14.46	-90.41	-407.07	-487.45	965.02	936.90	28.12	34.318	
6,600.00	6,560.24	6,619.99	6,560.24	13.98	14.50	-90.41	-407.07	-487.45	965.02	936.83	28.19	34.228	
6,700.00	6,660.24	6,719.99	6,660.24	14.02	14.53	-90.41	-407.07	-487.45	965.02	936.76	28.27	34.138	
6,800.00	6,760.24	6,819.99	6,760.24	14.06	14.57	-90.41	-407.07	-487.45	965.02	936.68	28.34	34.047	
6,900.00	6,860.24	6,919.99	6,860.24	14.10	14.61	-90.41	-407.07	-487.45	965.02	936.61	28.42	33.956	
7,000.00	6,960.24	7,019.99	6,960.24	14.14	14.65	-90.41	-407.07	-487.45	965.02	936.53	28.50	33.865	
7,100.00	7,060.24	7,119.99	7,060.24	14.18	14.68	-90.41	-407.07	-487.45	965.02	936.45	28.57	33.773	
7,200.00	7,160.24	7,219.99	7,160.24	14.22	14.72	-90.41	-407.07	-487.45	965.02	936.37	28.65	33.681	
7,300.00	7,260.24	7,319.99	7,260.24	14.26	14.76	-90.41	-407.07	-487.45	965.02	936.29	28.73	33.589	
7,400.00	7,360.24	7,419.99	7,360.24	14.30	14.80	-90.41	-407.07	-487.45	965.02	936.21	28.81	33.496	
7,500.00	7,460.24	7,519.99	7,460.24	14.35	14.84	-90.41	-407.07	-487.45	965.02	936.13	28.89	33.403	
7,600.00	7,560.24	7,619.99	7,560.24	14.39	14.88	-90.41	-407.07	-487.45	965.02	936.05	28.97	33.310	
7,700.00	7,660.24	7,719.99	7,660.24	14.43	14.92	-90.41	-407.07	-487.45	965.02	935.97	29.05	33.216	
7,800.00	7,760.24	7,819.99	7,760.24	14.48	14.96	-90.41	-407.07	-487.45	965.02	935.89	29.14	33.122	
7,900.00	7,860.24	7,919.99	7,860.24	14.52	15.00	-90.41	-407.07	-487.45	965.02	935.81	29.22	33.028	
8,000.00	7,960.24	8,019.99	7,960.24	14.57	15.04	-90.41	-407.07	-487.45	965.02	935.72	29.30	32.934	
8,100.00	8,060.24	8,119.99	8,060.24	14.61	15.08	-90.41	-407.07	-487.45	965.02	935.64	29.39	32.839	
8,200.00	8,160.24	8,219.99	8,160.24	14.65	15.12	-90.41	-407.07	-487.45	965.02	935.55	29.47	32.745	
8,300.00	8,260.24	8,319.99	8,260.24	14.70	15.16	-90.41	-407.07	-487.45	965.02	935.47	29.56	32.650	
8,400.00	8,360.24	8,419.99	8,360.24	14.75	15.20	-90.41	-407.07	-487.45	965.02	935.38	29.64	32.555	
8,500.00	8,460.24	8,519.99	8,460.24	14.79	15.25	-90.41	-407.07	-487.45	965.02	935.29	29.73	32.459	
8,600.00	8,560.24	8,619.99	8,560.24	14.84	15.29	-90.41	-407.07	-487.45	965.02	935.21	29.82	32.364	
8,700.00	8,660.24	8,719.99	8,660.24	14.88	15.33	-90.41	-407.07	-487.45	965.02	935.12	29.91	32.269	
8,800.00	8,760.24	8,819.99	8,760.24	14.93	15.38	-90.41	-407.07	-487.45	965.02	935.03	29.99	32.173	
8,900.00	8,860.24	8,919.99	8,860.24	14.98	15.42	-90.41	-407.07	-487.45	965.02	934.94	30.08	32.077	
9,000.00	8,960.24	9,019.99	8,960.24	15.03	15.47	-90.41	-407.07	-487.45	965.02	934.85	30.17	31.982	
9,100.00	9,060.24	9,119.99	9,060.24	15.07	15.51	-90.41	-407.07	-487.45	965.02	934.76	30.26	31.886	
9,200.00	9,160.24	9,219.99	9,160.24	15.12	15.55	-90.41	-407.07	-487.45	965.02	934.67	30.36	31.790	
9,300.00	9,260.24	9,319.99	9,260.24	15.17	15.60	-90.41	-407.07	-487.45	965.02	934.58	30.45	31.694	
9,400.00	9,360.24	9,419.99	9,360.24	15.22	15.65	-90.41	-407.07	-487.45	965.02	934.48	30.54	31.598	
9,500.00	9,460.24	9,519.99	9,460.24	15.27	15.69	-90.41	-407.07	-487.45	965.02	934.39	30.63	31.502	
9,600.00	9,560.24	9,619.99	9,560.24	15.32	15.74	-90.41	-407.07	-487.45	965.02	934.30	30.73	31.406	
9,700.00	9,660.24	9,719.99	9,660.24	15.37	15.78	-90.41	-407.07	-487.45	965.02	934.20	30.82	31.310	
9,800.00	9,760.24	9,819.99	9,760.24	15.42	15.83	-90.41	-407.07	-487.45	965.02	934.11	30.92	31.214	
9,900.00	9,860.24	9,919.99	9,860.24	15.47	15.88	-90.41	-407.07	-487.45	965.02	934.01	31.01	31.118	
10,000.00	9,960.24	10,019.99	9,960.24	15.52	15.93	-90.41	-407.07	-487.45	965.02	933.92	31.11	31.022	
10,100.00	10,060.24	10,119.99	10,060.24	15.57	15.97	-90.41	-407.07	-487.45	965.02	933.82	31.20	30.926	
10,200.00	10,160.24	10,219.99	10,160.24	15.62	16.02	-90.41	-407.07	-487.45	965.02	933.72	31.30	30.830	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:					Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)
20,600.00	12,448.05	20,288.61	12,125.65	121.46	123.89	71.96	-8,810.10	-436.03	1,041.13	806.42	234.71	4.436	
20,700.00	12,448.57	20,388.61	12,126.35	122.81	125.25	71.97	-8,910.09	-435.12	1,041.08	803.77	237.32	4.387	
20,800.00	12,449.10	20,488.61	12,127.05	124.17	126.61	71.98	-9,010.08	-434.21	1,041.03	801.11	239.92	4.339	
20,900.00	12,449.62	20,588.61	12,127.75	125.53	127.97	71.99	-9,110.08	-433.30	1,040.98	798.45	242.53	4.292	
21,000.00	12,450.15	20,688.61	12,128.44	126.89	129.33	72.00	-9,210.07	-432.40	1,040.93	795.79	245.13	4.246	
21,100.00	12,450.67	20,788.61	12,129.14	128.24	130.69	72.01	-9,310.06	-431.49	1,040.87	793.14	247.74	4.201	
21,200.00	12,451.20	20,888.61	12,129.84	129.60	132.05	72.02	-9,410.06	-430.58	1,040.82	790.48	250.35	4.158	
21,300.00	12,451.72	20,988.61	12,130.54	130.96	133.41	72.02	-9,510.05	-429.68	1,040.77	787.82	252.96	4.114	
21,400.00	12,452.25	21,088.61	12,131.24	132.32	134.77	72.03	-9,610.04	-428.77	1,040.72	785.15	255.56	4.072	
21,500.00	12,452.77	21,188.61	12,131.93	133.68	136.13	72.04	-9,710.04	-427.86	1,040.67	782.49	258.17	4.031	
21,600.00	12,453.30	21,288.61	12,132.63	135.04	137.49	72.05	-9,810.03	-426.96	1,040.62	779.83	260.79	3.990	
21,700.00	12,453.82	21,388.61	12,133.33	136.40	138.85	72.06	-9,910.02	-426.05	1,040.56	777.17	263.40	3.951	
21,800.00	12,454.35	21,488.61	12,134.03	137.76	140.21	72.07	-10,010.02	-425.14	1,040.51	774.50	266.01	3.912	
21,900.00	12,454.87	21,588.61	12,134.73	139.12	141.57	72.08	-10,110.01	-424.24	1,040.46	771.84	268.62	3.873	
22,000.00	12,455.40	21,688.61	12,135.43	140.48	142.93	72.09	-10,210.00	-423.33	1,040.41	769.18	271.23	3.836	
22,100.00	12,455.92	21,788.61	12,136.12	141.84	144.29	72.10	-10,310.00	-422.42	1,040.36	766.51	273.85	3.799	
22,200.00	12,456.45	21,888.61	12,136.82	143.20	145.66	72.11	-10,409.99	-421.52	1,040.31	763.84	276.46	3.763	
22,300.00	12,456.97	21,988.61	12,137.52	144.56	147.02	72.12	-10,509.98	-420.61	1,040.26	761.18	279.08	3.727	
22,400.00	12,457.50	22,088.61	12,138.22	145.92	148.38	72.12	-10,609.98	-419.70	1,040.20	758.51	281.69	3.693	
22,500.00	12,458.02	22,188.61	12,138.92	147.28	149.74	72.13	-10,709.97	-418.80	1,040.15	755.84	284.31	3.659	
22,600.00	12,458.55	22,288.61	12,139.62	148.64	151.10	72.14	-10,809.96	-417.89	1,040.10	753.18	286.93	3.625	
22,685.56	12,459.00	22,374.17	12,140.21	149.68	152.27	72.15	-10,895.52	-417.11	1,040.06	751.01	289.04	3.598	
22,700.00	12,459.07	22,387.52	12,140.31	149.86	152.46	72.15	-10,908.87	-416.99	1,040.05	750.67	289.38	3.594	
22,705.25	12,459.10	22,387.52	12,140.31	149.93	152.46	72.15	-10,908.87	-416.99	1,040.07	750.63	289.44	3.593	SF

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	
												Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	0.00	0.50	0.50	-45.00	25.00	-25.00	35.36				
100.00	100.00	101.00	100.00	0.98	0.98	-45.00	25.00	-25.00	35.36	33.40	1.96	18.071	
200.00	200.00	201.00	200.00	1.56	1.56	-45.00	25.00	-25.00	35.36	32.24	3.12	11.334	
300.00	300.00	301.00	300.00	1.98	1.98	-45.00	25.00	-25.00	35.36	31.40	3.96	8.928	CC, ES
400.00	399.99	400.99	399.99	2.41	2.33	-155.86	25.00	-25.00	36.55	31.82	4.72	7.738	
500.00	499.91	500.91	499.91	2.77	2.63	-158.13	25.00	-25.00	40.16	34.77	5.39	7.456	
600.00	599.77	600.77	599.77	3.04	2.91	-160.61	25.00	-25.00	45.06	39.13	5.93	7.598	
700.00	699.63	700.63	699.63	3.29	3.16	-162.60	25.00	-25.00	50.03	43.59	6.44	7.772	
800.00	799.50	800.50	799.50	3.53	3.40	-164.23	25.00	-25.00	55.05	48.13	6.91	7.961	
900.00	899.36	900.36	899.36	3.76	3.62	-165.59	25.00	-25.00	60.10	52.73	7.37	8.156	
1,000.00	999.22	1,000.22	999.22	3.98	3.83	-166.73	25.00	-25.00	65.18	57.38	7.80	8.351	
1,100.00	1,099.09	1,100.09	1,099.09	4.20	4.04	-167.71	25.00	-25.00	70.29	62.06	8.22	8.545	
1,200.00	1,198.95	1,199.95	1,198.95	4.41	4.23	-168.56	25.00	-25.00	75.41	66.78	8.63	8.736	
1,300.00	1,298.81	1,299.81	1,298.81	4.62	4.42	-169.29	25.00	-25.00	80.54	71.52	9.03	8.923	
1,400.00	1,398.68	1,400.24	1,399.24	4.82	4.50	-170.14	24.67	-25.00	85.53	76.22	9.31	9.187	
1,500.00	1,498.54	1,501.23	1,500.19	5.03	4.69	-172.20	22.01	-25.00	89.43	79.76	9.67	9.250	
1,600.00	1,598.34	1,602.11	1,600.93	5.24	4.87	173.57	16.68	-25.00	93.41	83.38	10.03	9.311	
1,700.00	1,697.95	1,703.13	1,701.63	5.47	4.99	164.26	8.72	-24.95	98.81	88.46	10.35	9.548	
1,800.00	1,797.32	1,805.58	1,803.61	5.69	5.14	157.97	-0.95	-23.20	104.54	93.81	10.73	9.746	
1,900.00	1,896.41	1,908.27	1,905.64	5.83	5.29	154.71	-11.72	-18.91	109.67	98.68	10.99	9.979	
2,000.00	1,995.43	2,009.30	2,005.82	6.02	5.37	153.13	-23.17	-12.68	113.08	101.82	11.26	10.044	
2,100.00	2,094.46	2,109.20	2,104.86	6.22	5.52	151.65	-34.56	-6.33	116.37	104.76	11.61	10.023	
2,200.00	2,193.49	2,209.10	2,203.91	6.42	5.68	150.25	-45.95	0.02	119.74	107.77	11.96	10.008	
2,300.00	2,292.52	2,309.00	2,302.96	6.62	5.84	148.92	-57.34	6.37	123.17	110.85	12.32	9.998	
2,400.00	2,391.54	2,408.90	2,402.00	6.82	6.00	147.67	-68.73	12.72	126.66	113.99	12.68	9.992	
2,500.00	2,490.57	2,508.81	2,501.05	7.01	6.16	146.49	-80.13	19.07	130.21	117.18	13.04	9.988	
2,600.00	2,589.60	2,608.71	2,600.10	7.21	6.33	145.37	-91.52	25.42	133.82	120.42	13.40	9.988	
2,700.00	2,688.63	2,708.61	2,699.14	7.41	6.49	144.31	-102.91	31.77	137.47	123.71	13.76	9.989	
2,800.00	2,787.65	2,808.51	2,798.19	7.61	6.66	143.30	-114.30	38.12	141.17	127.04	14.13	9.992	
2,900.00	2,886.68	2,908.41	2,897.24	7.81	6.83	142.35	-125.70	44.47	144.91	130.41	14.50	9.997	
3,000.00	2,985.71	3,008.31	2,996.28	8.01	7.00	141.44	-137.09	50.82	148.68	133.82	14.86	10.003	
3,100.00	3,084.74	3,108.22	3,095.33	8.21	7.17	140.58	-148.48	57.17	152.49	137.26	15.24	10.009	
3,200.00	3,183.76	3,208.12	3,194.38	8.40	7.34	139.76	-159.87	63.52	156.34	140.73	15.61	10.017	
3,300.00	3,282.79	3,308.02	3,293.42	8.60	7.51	138.98	-171.27	69.87	160.21	144.23	15.98	10.025	
3,400.00	3,381.82	3,407.92	3,392.47	8.80	7.69	138.24	-182.66	76.22	164.12	147.76	16.36	10.034	
3,500.00	3,480.85	3,507.82	3,491.52	9.00	7.86	137.53	-194.05	82.57	168.05	151.31	16.73	10.043	
3,600.00	3,579.87	3,607.72	3,590.56	9.20	8.04	136.85	-205.44	88.92	172.00	154.89	17.11	10.052	
3,700.00	3,678.90	3,707.63	3,689.61	9.40	8.21	136.21	-216.84	95.27	175.98	158.49	17.49	10.062	
3,800.00	3,777.93	3,807.53	3,788.66	9.60	8.39	135.59	-228.23	101.62	179.98	162.11	17.87	10.072	
3,900.00	3,876.96	3,907.43	3,887.70	9.80	8.57	135.00	-239.62	107.97	183.99	165.74	18.25	10.082	
4,000.00	3,975.98	4,007.33	3,986.75	10.00	8.74	134.44	-251.01	114.32	188.03	169.40	18.63	10.092	
4,100.00	4,075.01	4,107.23	4,085.80	10.20	8.92	133.90	-262.40	120.67	192.08	173.07	19.02	10.101	
4,200.00	4,174.04	4,207.14	4,184.84	10.40	9.10	133.38	-273.80	127.02	196.15	176.75	19.40	10.111	
4,300.00	4,273.07	4,307.04	4,283.89	10.60	9.28	132.88	-285.19	133.37	200.24	180.46	19.78	10.121	
4,400.00	4,372.09	4,406.94	4,382.94	10.80	9.46	132.40	-296.58	139.72	204.34	184.17	20.17	10.131	
4,500.00	4,471.12	4,506.84	4,481.98	11.00	9.64	131.95	-307.97	146.07	208.45	187.90	20.56	10.141	
4,600.00	4,570.15	4,606.74	4,581.03	11.20	9.83	131.51	-319.37	152.42	212.58	191.64	20.94	10.150	
4,700.00	4,669.18	4,706.64	4,680.08	11.40	10.01	131.08	-330.76	158.77	216.72	195.39	21.33	10.160	
4,800.00	4,768.21	4,806.55	4,779.12	11.60	10.19	130.67	-342.15	165.12	220.87	199.15	21.72	10.169	
4,900.00	4,867.23	4,906.45	4,878.17	11.80	10.37	130.28	-353.54	171.47	225.03	202.92	22.11	10.178	
5,000.00	4,966.26	5,006.35	4,977.22	12.00	10.55	129.90	-364.94	177.82	229.20	206.71	22.50	10.188	
5,100.00	5,065.29	5,105.73	5,075.76	12.20	10.71	129.56	-376.21	184.10	233.41	210.55	22.86	10.209	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	
												Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,164.32	5,203.44	5,172.85	12.40	10.90	129.63	-385.74	189.41	238.28	215.04	23.24	10.254	
5,300.00	5,263.34	5,300.00	5,269.05	12.60	11.07	130.24	-393.03	193.48	244.09	220.49	23.59	10.345	
5,400.00	5,362.37	5,398.22	5,367.09	12.81	11.25	131.35	-398.26	196.39	250.90	226.96	23.94	10.481	
5,500.00	5,461.46	5,495.10	5,463.90	12.97	11.41	132.88	-401.26	198.07	258.55	234.32	24.23	10.672	
5,600.00	5,560.84	5,592.04	5,560.84	13.17	11.49	134.47	-402.13	198.55	265.80	241.32	24.48	10.858	
5,700.00	5,660.47	5,691.68	5,660.47	13.36	11.54	135.81	-402.13	198.55	271.83	247.12	24.71	11.002	
5,800.00	5,760.30	5,791.50	5,760.30	13.54	11.59	136.70	-402.13	198.55	276.08	251.16	24.93	11.076	
5,900.00	5,860.24	5,891.45	5,860.24	13.69	11.64	137.19	-402.13	198.55	278.47	253.35	25.12	11.084	
6,000.00	5,960.24	5,991.44	5,960.24	13.75	11.69	-90.41	-402.13	198.55	279.01	253.79	25.22	11.063	
6,100.00	6,060.24	6,091.44	6,060.24	13.78	11.74	-90.41	-402.13	198.55	279.01	253.70	25.31	11.025	
6,200.00	6,160.24	6,191.44	6,160.24	13.82	11.80	-90.41	-402.13	198.55	279.01	253.61	25.39	10.987	
6,300.00	6,260.24	6,291.44	6,260.24	13.86	11.85	-90.41	-402.13	198.55	279.01	253.53	25.48	10.950	
6,400.00	6,360.24	6,391.44	6,360.24	13.90	11.90	-90.41	-402.13	198.55	279.01	253.44	25.57	10.912	
6,500.00	6,460.24	6,491.44	6,460.24	13.94	11.96	-90.41	-402.13	198.55	279.01	253.35	25.66	10.874	
6,600.00	6,560.24	6,591.44	6,560.24	13.98	12.01	-90.41	-402.13	198.55	279.01	253.26	25.75	10.835	
6,700.00	6,660.24	6,691.44	6,660.24	14.02	12.07	-90.41	-402.13	198.55	279.01	253.17	25.84	10.797	
6,800.00	6,760.24	6,791.44	6,760.24	14.06	12.12	-90.41	-402.13	198.55	279.01	253.08	25.93	10.759	
6,900.00	6,860.24	6,891.44	6,860.24	14.10	12.18	-90.41	-402.13	198.55	279.01	252.98	26.02	10.721	
7,000.00	6,960.24	6,991.44	6,960.24	14.14	12.23	-90.41	-402.13	198.55	279.01	252.89	26.12	10.683	
7,100.00	7,060.24	7,091.44	7,060.24	14.18	12.29	-90.41	-402.13	198.55	279.01	252.80	26.21	10.645	
7,200.00	7,160.24	7,191.44	7,160.24	14.22	12.34	-90.41	-402.13	198.55	279.01	252.70	26.30	10.607	
7,300.00	7,260.24	7,291.44	7,260.24	14.26	12.40	-90.41	-402.13	198.55	279.01	252.61	26.40	10.569	
7,400.00	7,360.24	7,391.44	7,360.24	14.30	12.46	-90.41	-402.13	198.55	279.01	252.51	26.50	10.531	
7,500.00	7,460.24	7,491.44	7,460.24	14.35	12.52	-90.41	-402.13	198.55	279.01	252.42	26.59	10.492	
7,600.00	7,560.24	7,591.44	7,560.24	14.39	12.57	-90.41	-402.13	198.55	279.01	252.32	26.69	10.454	
7,700.00	7,660.24	7,691.44	7,660.24	14.43	12.63	-90.41	-402.13	198.55	279.01	252.22	26.79	10.416	
7,800.00	7,760.24	7,791.44	7,760.24	14.48	12.69	-90.41	-402.13	198.55	279.01	252.12	26.88	10.378	
7,900.00	7,860.24	7,891.44	7,860.24	14.52	12.75	-90.41	-402.13	198.55	279.01	252.02	26.98	10.340	
8,000.00	7,960.24	7,991.44	7,960.24	14.57	12.80	-90.41	-402.13	198.55	279.01	251.93	27.08	10.302	
8,100.00	8,060.24	8,091.44	8,060.24	14.61	12.86	-90.41	-402.13	198.55	279.01	251.83	27.18	10.264	
8,200.00	8,160.24	8,191.44	8,160.24	14.65	12.92	-90.41	-402.13	198.55	279.01	251.72	27.28	10.227	
8,300.00	8,260.24	8,291.44	8,260.24	14.70	12.98	-90.41	-402.13	198.55	279.01	251.62	27.38	10.189	
8,400.00	8,360.24	8,391.44	8,360.24	14.75	13.04	-90.41	-402.13	198.55	279.01	251.52	27.49	10.151	
8,500.00	8,460.24	8,491.44	8,460.24	14.79	13.10	-90.41	-402.13	198.55	279.01	251.42	27.59	10.113	
8,600.00	8,560.24	8,591.44	8,560.24	14.84	13.16	-90.41	-402.13	198.55	279.01	251.32	27.69	10.076	
8,700.00	8,660.24	8,691.44	8,660.24	14.88	13.22	-90.41	-402.13	198.55	279.01	251.21	27.79	10.038	
8,800.00	8,760.24	8,791.44	8,760.24	14.93	13.28	-90.41	-402.13	198.55	279.01	251.11	27.90	10.001	
8,900.00	8,860.24	8,891.44	8,860.24	14.98	13.34	-90.41	-402.13	198.55	279.01	251.00	28.00	9.964	
9,000.00	8,960.24	8,991.44	8,960.24	15.03	13.40	-90.41	-402.13	198.55	279.01	250.90	28.11	9.926	
9,100.00	9,060.24	9,091.44	9,060.24	15.07	13.46	-90.41	-402.13	198.55	279.01	250.79	28.21	9.889	
9,200.00	9,160.24	9,191.44	9,160.24	15.12	13.53	-90.41	-402.13	198.55	279.01	250.69	28.32	9.852	
9,300.00	9,260.24	9,291.44	9,260.24	15.17	13.59	-90.41	-402.13	198.55	279.01	250.58	28.43	9.815	
9,400.00	9,360.24	9,391.44	9,360.24	15.22	13.65	-90.41	-402.13	198.55	279.01	250.47	28.53	9.778	
9,500.00	9,460.24	9,491.44	9,460.24	15.27	13.71	-90.41	-402.13	198.55	279.01	250.37	28.64	9.741	
9,600.00	9,560.24	9,591.44	9,560.24	15.32	13.77	-90.41	-402.13	198.55	279.01	250.26	28.75	9.705	
9,700.00	9,660.24	9,691.44	9,660.24	15.37	13.84	-90.41	-402.13	198.55	279.01	250.15	28.86	9.668	
9,800.00	9,760.24	9,791.44	9,760.24	15.42	13.90	-90.41	-402.13	198.55	279.01	250.04	28.97	9.632	
9,900.00	9,860.24	9,891.44	9,860.24	15.47	13.96	-90.41	-402.13	198.55	279.01	249.93	29.08	9.595	
10,000.00	9,960.24	9,991.44	9,960.24	15.52	14.02	-90.41	-402.13	198.55	279.01	249.82	29.19	9.559	
10,100.00	10,060.24	10,091.44	10,060.24	15.57	14.09	-90.41	-402.13	198.55	279.01	249.71	29.30	9.523	
10,200.00	10,160.24	10,191.44	10,160.24	15.62	14.15	-90.41	-402.13	198.55	279.01	249.60	29.41	9.487	
10,300.00	10,260.24	10,291.44	10,260.24	15.67	14.21	-90.41	-402.13	198.55	279.01	249.49	29.52	9.451	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	0.00 usft
Reference										Offset Well Error:		0.50 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)		Ellipses (usft)			
20,700.00	12,448.57	20,333.49	12,101.41	122.81	122.87	38.79	-8,903.83	275.81	445.39	276.39	169.00	2.635	
20,800.00	12,449.10	20,433.49	12,102.11	124.17	124.23	38.80	-9,003.82	276.72	445.25	274.43	170.82	2.607	
20,900.00	12,449.62	20,533.49	12,102.81	125.53	125.59	38.81	-9,103.81	277.63	445.12	272.47	172.65	2.578	
21,000.00	12,450.15	20,633.49	12,103.51	126.89	126.95	38.83	-9,203.81	278.54	444.98	270.51	174.47	2.550	
21,100.00	12,450.67	20,733.49	12,104.20	128.24	128.32	38.84	-9,303.80	279.45	444.84	268.54	176.30	2.523	
21,200.00	12,451.20	20,833.49	12,104.90	129.60	129.68	38.86	-9,403.79	280.36	444.71	266.57	178.13	2.496	
21,300.00	12,451.72	20,933.49	12,105.60	130.96	131.04	38.87	-9,503.79	281.27	444.57	264.60	179.97	2.470	
21,400.00	12,452.25	21,033.49	12,106.30	132.32	132.40	38.88	-9,603.78	282.17	444.44	262.63	181.81	2.445	
21,500.00	12,452.77	21,133.49	12,107.00	133.68	133.76	38.90	-9,703.77	283.08	444.30	260.66	183.64	2.419	
21,600.00	12,453.30	21,233.49	12,107.70	135.04	135.13	38.91	-9,803.77	283.99	444.17	258.68	185.48	2.395	
21,700.00	12,453.82	21,333.49	12,108.40	136.40	136.49	38.93	-9,903.76	284.90	444.03	256.70	187.33	2.370	
21,800.00	12,454.35	21,433.49	12,109.10	137.76	137.85	38.94	-10,003.75	285.81	443.90	254.72	189.17	2.347	
21,900.00	12,454.87	21,533.49	12,109.80	139.12	139.22	38.96	-10,103.75	286.72	443.76	252.74	191.02	2.323	
22,000.00	12,455.40	21,633.49	12,110.50	140.48	140.58	38.97	-10,203.74	287.63	443.62	250.76	192.87	2.300	
22,100.00	12,455.92	21,733.49	12,111.20	141.84	141.94	38.98	-10,303.73	288.54	443.49	248.77	194.72	2.278	
22,200.00	12,456.45	21,833.49	12,111.90	143.20	143.30	39.00	-10,403.73	289.44	443.35	246.78	196.57	2.255	
22,300.00	12,456.97	21,933.49	12,112.59	144.56	144.67	39.01	-10,503.72	290.35	443.22	244.79	198.42	2.234	
22,400.00	12,457.50	22,033.49	12,113.29	145.92	146.03	39.03	-10,603.71	291.26	443.08	242.80	200.28	2.212	
22,500.00	12,458.02	22,133.49	12,113.99	147.28	147.40	39.04	-10,703.71	292.17	442.95	240.81	202.14	2.191	
22,600.00	12,458.55	22,233.49	12,114.69	148.64	148.76	39.05	-10,803.70	293.08	442.81	238.81	204.00	2.171	
22,700.00	12,459.07	22,333.49	12,115.39	149.86	150.07	39.07	-10,903.69	293.99	442.68	237.00	205.67	2.152	
22,702.31	12,459.08	22,335.19	12,115.40	149.89	150.09	39.07	-10,905.40	294.00	442.67	236.98	205.69	2.152	SF
22,705.25	12,459.10	22,335.19	12,115.40	149.93	150.09	39.07	-10,905.40	294.00	442.68	237.03	205.65	2.153	

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

8/18/2025 4:11:19PM

Page 18 of 74

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

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		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
22,000.00	12,455.40	21,817.48	12,207.44	140.48	133.00	81.75	-10,215.69	-1,143.99	1,728.54	1,459.08	269.46	6.415	
22,100.00	12,455.92	21,917.48	12,208.31	141.84	134.35	81.76	-10,315.68	-1,143.13	1,728.54	1,456.38	272.16	6.351	
22,200.00	12,456.45	22,017.48	12,209.18	143.20	135.70	81.78	-10,415.67	-1,142.27	1,728.54	1,453.68	274.86	6.289	
22,300.00	12,456.97	22,117.48	12,210.05	144.56	137.05	81.79	-10,515.66	-1,141.41	1,728.53	1,450.97	277.56	6.228	
22,400.00	12,457.50	22,217.48	12,210.93	145.92	138.39	81.80	-10,615.66	-1,140.54	1,728.53	1,448.27	280.26	6.168	
22,500.00	12,458.02	22,317.48	12,211.80	147.28	139.74	81.81	-10,715.65	-1,139.68	1,728.53	1,445.57	282.96	6.109	
22,600.00	12,458.55	22,417.48	12,212.67	148.64	141.09	81.82	-10,815.64	-1,138.82	1,728.53	1,442.86	285.66	6.051	
22,695.41	12,459.05	22,512.84	12,213.50	149.81	142.38	81.83	-10,911.00	-1,138.00	1,728.52	1,440.43	288.10	6.000	ES
22,700.00	12,459.07	22,512.84	12,213.50	149.86	142.38	81.83	-10,911.00	-1,138.00	1,728.53	1,440.43	288.10	6.000	SF
22,705.25	12,459.10	22,512.84	12,213.50	149.93	142.38	81.83	-10,911.00	-1,138.00	1,728.55	1,440.45	288.10	6.000	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	0.00 usft
												Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.50	0.50	-90.00	0.00	-25.00	25.00				
100.00	100.00	100.00	100.00	0.98	0.98	-90.00	0.00	-25.00	25.00	23.04	1.96	12.741	
200.00	200.00	200.00	200.00	1.56	1.56	-90.00	0.00	-25.00	25.00	21.88	3.12	8.007	
300.00	300.00	300.00	300.00	1.98	1.98	-90.00	0.00	-25.00	25.00	21.04	3.96	6.309	
400.00	399.99	399.99	399.99	2.41	2.33	160.97	0.00	-25.00	26.23	21.50	4.73	5.547	
500.00	499.91	499.91	499.91	2.77	2.63	163.40	0.00	-25.00	29.97	24.58	5.40	5.554	
600.00	599.77	599.77	599.77	3.04	2.91	165.85	0.00	-25.00	35.02	29.08	5.94	5.896	
700.00	699.63	700.08	700.07	3.29	3.02	167.43	-0.21	-24.75	39.84	33.54	6.30	6.321	
800.00	799.50	800.95	800.91	3.53	3.31	167.06	-1.92	-22.72	42.73	35.92	6.81	6.273	
900.00	899.36	901.88	901.70	3.76	3.59	164.80	-5.34	-18.64	43.45	36.16	7.29	5.960	
1,000.00	999.22	1,002.56	1,002.06	3.98	3.76	160.48	-10.42	-12.58	42.19	34.53	7.65	5.512	
1,100.00	1,099.09	1,102.47	1,101.59	4.20	3.97	155.11	-16.02	-5.91	40.57	32.51	8.05	5.038	
1,200.00	1,198.95	1,202.38	1,201.13	4.41	4.17	149.35	-21.61	0.76	39.33	30.90	8.43	4.663	
1,300.00	1,298.81	1,302.29	1,300.66	4.62	4.37	143.28	-27.21	7.43	38.51	29.71	8.80	4.376	
1,400.00	1,398.68	1,402.21	1,400.19	4.82	4.57	137.02	-32.81	14.10	38.15	28.99	9.16	4.165	
1,500.00	1,498.54	1,502.84	1,500.33	5.03	4.80	129.30	-38.74	22.11	37.27	27.78	9.50	3.925	
1,600.00	1,598.34	1,603.29	1,600.01	5.24	5.03	108.89	-45.24	32.67	35.39	25.57	9.82	3.603	
1,700.00	1,697.95	1,703.58	1,699.18	5.47	5.26	93.39	-52.31	45.77	32.65	22.49	10.16	3.213	
1,800.00	1,797.32	1,803.64	1,797.72	5.69	5.49	78.65	-59.92	61.36	29.10	18.57	10.53	2.763	
1,900.00	1,896.41	1,903.42	1,895.52	5.83	5.71	61.92	-68.08	79.41	25.31	14.41	10.90	2.322	
1,973.98	1,969.67	1,977.00	1,967.29	5.97	5.82	44.95	-74.44	94.28	24.09	12.81	11.28	2.136	CC, ES
2,000.00	1,995.43	2,002.88	1,992.51	6.02	5.85	38.49	-76.70	99.64	24.25	12.82	11.43	2.122	SF
2,100.00	2,094.46	2,102.32	2,089.40	6.22	6.05	16.19	-85.41	120.24	27.52	15.47	12.04	2.285	
2,200.00	2,193.49	2,201.76	2,186.29	6.42	6.25	0.41	-94.11	140.84	33.90	21.35	12.54	2.702	
2,300.00	2,292.52	2,301.20	2,283.19	6.62	6.45	-9.89	-102.82	161.44	41.99	29.01	12.98	3.236	
2,400.00	2,391.54	2,400.64	2,380.08	6.82	6.66	-16.72	-111.52	182.05	50.99	37.60	13.39	3.808	
2,500.00	2,490.57	2,500.08	2,476.98	7.01	6.90	-21.47	-120.23	202.65	60.50	46.70	13.80	4.384	
2,600.00	2,589.60	2,599.53	2,573.87	7.21	7.17	-24.91	-128.93	223.25	70.30	56.09	14.21	4.948	
2,700.00	2,688.63	2,698.97	2,670.77	7.41	7.44	-27.50	-137.64	243.85	80.29	65.67	14.62	5.492	
2,800.00	2,787.65	2,798.41	2,767.66	7.61	7.72	-29.51	-146.34	264.45	90.41	75.38	15.04	6.013	
2,900.00	2,886.68	2,897.85	2,864.55	7.81	8.00	-31.12	-155.05	285.05	100.62	85.16	15.46	6.510	
3,000.00	2,985.71	2,997.29	2,961.45	8.01	8.29	-32.43	-163.76	305.65	110.89	95.01	15.88	6.984	
3,100.00	3,084.74	3,096.74	3,058.34	8.21	8.57	-33.52	-172.46	326.26	121.21	104.91	16.30	7.435	
3,200.00	3,183.76	3,196.18	3,155.24	8.40	8.86	-34.44	-181.17	346.86	131.57	114.84	16.73	7.864	
3,300.00	3,282.79	3,295.62	3,252.13	8.60	9.15	-35.23	-189.87	367.46	141.95	124.79	17.16	8.273	
3,400.00	3,381.82	3,395.06	3,349.03	8.80	9.44	-35.90	-198.58	388.06	152.36	134.77	17.59	8.662	
3,500.00	3,480.85	3,494.50	3,445.92	9.00	9.73	-36.49	-207.28	408.66	162.79	144.77	18.02	9.034	
3,600.00	3,579.87	3,593.95	3,542.81	9.20	10.03	-37.01	-215.99	429.26	173.23	154.77	18.45	9.387	
3,700.00	3,678.90	3,693.39	3,639.71	9.40	10.32	-37.47	-224.69	449.86	183.68	164.79	18.89	9.725	
3,800.00	3,777.93	3,792.83	3,736.60	9.60	10.62	-37.88	-233.40	470.46	194.14	174.82	19.32	10.048	
3,900.00	3,876.96	3,892.27	3,833.50	9.80	10.92	-38.25	-242.10	491.07	204.62	184.86	19.76	10.356	
4,000.00	3,975.98	3,991.71	3,930.39	10.00	11.21	-38.58	-250.81	511.67	215.10	194.90	20.20	10.651	
4,100.00	4,075.01	4,091.16	4,027.29	10.20	11.51	-38.89	-259.51	532.27	225.58	204.95	20.63	10.933	
4,200.00	4,174.04	4,190.60	4,124.18	10.40	11.81	-39.16	-268.22	552.87	236.08	215.00	21.07	11.203	
4,300.00	4,273.07	4,290.04	4,221.07	10.60	12.11	-39.41	-276.93	573.47	246.57	225.06	21.51	11.462	
4,400.00	4,372.09	4,389.48	4,317.97	10.80	12.41	-39.64	-285.63	594.07	257.07	235.12	21.95	11.711	
4,500.00	4,471.12	4,488.92	4,414.86	11.00	12.71	-39.86	-294.34	614.67	267.58	245.19	22.39	11.950	
4,600.00	4,570.15	4,588.37	4,511.76	11.20	13.02	-40.05	-303.04	635.28	278.09	255.26	22.83	12.179	
4,700.00	4,669.18	4,687.81	4,608.65	11.40	13.32	-40.24	-311.75	655.88	288.60	265.33	23.27	12.400	
4,800.00	4,768.21	4,787.25	4,705.55	11.60	13.62	-40.40	-320.45	676.48	299.11	275.40	23.72	12.612	
4,900.00	4,867.23	4,886.69	4,802.44	11.80	13.93	-40.56	-329.16	697.08	309.63	285.47	24.16	12.816	
5,000.00	4,966.26	4,986.13	4,899.33	12.00	14.23	-40.71	-337.86	717.68	320.15	295.55	24.60	13.013	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:							Offset Well Error: 0.50 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	5,065.29	5,085.58	4,996.23	12.20	14.54	-40.85	-346.57	738.28	330.67	305.63	25.05	13.203		
5,200.00	5,164.32	5,185.02	5,093.12	12.40	14.84	-40.98	-355.27	758.88	341.19	315.70	25.49	13.386		
5,300.00	5,263.34	5,289.44	5,194.97	12.60	15.13	-41.13	-364.25	780.12	351.34	325.40	25.94	13.545		
5,400.00	5,362.37	5,398.52	5,301.93	12.81	15.43	-41.45	-372.57	799.81	359.14	332.71	26.43	13.587		
5,500.00	5,461.46	5,507.91	5,409.76	12.97	15.70	-41.93	-379.71	816.72	364.65	337.77	26.88	13.568		
5,600.00	5,560.84	5,617.47	5,518.25	13.17	15.94	-42.32	-385.67	830.80	369.31	341.99	27.32	13.519		
5,700.00	5,660.47	5,727.19	5,627.29	13.36	16.14	-42.59	-390.41	842.03	373.28	345.56	27.71	13.468		
5,800.00	5,760.30	5,837.03	5,736.75	13.54	16.31	-42.75	-393.94	850.37	376.53	348.47	28.06	13.417		
5,900.00	5,860.24	5,946.98	5,846.54	13.69	16.44	-42.79	-396.24	855.82	379.07	350.71	28.36	13.366		
6,000.00	5,960.24	6,057.02	5,956.53	13.75	16.54	89.58	-397.31	858.35	380.83	352.34	28.49	13.365		
6,100.00	6,060.24	6,160.72	6,060.24	13.78	16.60	89.59	-397.39	858.55	381.01	352.44	28.57	13.336		
6,200.00	6,160.24	6,260.72	6,160.24	13.82	16.64	89.59	-397.39	858.55	381.01	352.36	28.65	13.299		
6,300.00	6,260.24	6,360.72	6,260.24	13.86	16.68	89.59	-397.39	858.55	381.01	352.28	28.73	13.262		
6,400.00	6,360.24	6,460.72	6,360.24	13.90	16.73	89.59	-397.39	858.55	381.01	352.20	28.81	13.225		
6,500.00	6,460.24	6,560.72	6,460.24	13.94	16.77	89.59	-397.39	858.55	381.01	352.12	28.89	13.188		
6,600.00	6,560.24	6,660.72	6,560.24	13.98	16.81	89.59	-397.39	858.55	381.01	352.04	28.97	13.150		
6,700.00	6,660.24	6,760.72	6,660.24	14.02	16.86	89.59	-397.39	858.55	381.01	351.95	29.06	13.113		
6,800.00	6,760.24	6,860.72	6,760.24	14.06	16.90	89.59	-397.39	858.55	381.01	351.87	29.14	13.075		
6,900.00	6,860.24	6,960.72	6,860.24	14.10	16.95	89.59	-397.39	858.55	381.01	351.79	29.22	13.038		
7,000.00	6,960.24	7,060.72	6,960.24	14.14	16.99	89.59	-397.39	858.55	381.01	351.70	29.31	13.000		
7,100.00	7,060.24	7,160.72	7,060.24	14.18	17.04	89.59	-397.39	858.55	381.01	351.62	29.39	12.962		
7,200.00	7,160.24	7,260.72	7,160.24	14.22	17.08	89.59	-397.39	858.55	381.01	351.53	29.48	12.925		
7,300.00	7,260.24	7,360.72	7,260.24	14.26	17.13	89.59	-397.39	858.55	381.01	351.44	29.57	12.887		
7,400.00	7,360.24	7,460.72	7,360.24	14.30	17.17	89.59	-397.39	858.55	381.01	351.36	29.65	12.849		
7,500.00	7,460.24	7,560.72	7,460.24	14.35	17.22	89.59	-397.39	858.55	381.01	351.27	29.74	12.811		
7,600.00	7,560.24	7,660.72	7,560.24	14.39	17.27	89.59	-397.39	858.55	381.01	351.18	29.83	12.773		
7,700.00	7,660.24	7,760.72	7,660.24	14.43	17.31	89.59	-397.39	858.55	381.01	351.09	29.92	12.735		
7,800.00	7,760.24	7,860.72	7,760.24	14.48	17.36	89.59	-397.39	858.55	381.01	351.00	30.01	12.697		
7,900.00	7,860.24	7,960.72	7,860.24	14.52	17.41	89.59	-397.39	858.55	381.01	350.91	30.10	12.659		
8,000.00	7,960.24	8,060.72	7,960.24	14.57	17.45	89.59	-397.39	858.55	381.01	350.82	30.19	12.620		
8,100.00	8,060.24	8,160.72	8,060.24	14.61	17.50	89.59	-397.39	858.55	381.01	350.73	30.28	12.582		
8,200.00	8,160.24	8,260.72	8,160.24	14.65	17.55	89.59	-397.39	858.55	381.01	350.64	30.37	12.544		
8,300.00	8,260.24	8,360.72	8,260.24	14.70	17.60	89.59	-397.39	858.55	381.01	350.54	30.47	12.506		
8,400.00	8,360.24	8,460.72	8,360.24	14.75	17.65	89.59	-397.39	858.55	381.01	350.45	30.56	12.468		
8,500.00	8,460.24	8,560.72	8,460.24	14.79	17.69	89.59	-397.39	858.55	381.01	350.36	30.65	12.429		
8,600.00	8,560.24	8,660.72	8,560.24	14.84	17.74	89.59	-397.39	858.55	381.01	350.26	30.75	12.391		
8,700.00	8,660.24	8,760.72	8,660.24	14.88	17.79	89.59	-397.39	858.55	381.01	350.17	30.84	12.353		
8,800.00	8,760.24	8,860.72	8,760.24	14.93	17.84	89.59	-397.39	858.55	381.01	350.07	30.94	12.315		
8,900.00	8,860.24	8,960.72	8,860.24	14.98	17.89	89.59	-397.39	858.55	381.01	349.97	31.04	12.276		
9,000.00	8,960.24	9,060.72	8,960.24	15.03	17.94	89.59	-397.39	858.55	381.01	349.88	31.13	12.238		
9,100.00	9,060.24	9,160.72	9,060.24	15.07	17.99	89.59	-397.39	858.55	381.01	349.78	31.23	12.200		
9,200.00	9,160.24	9,260.72	9,160.24	15.12	18.04	89.59	-397.39	858.55	381.01	349.68	31.33	12.162		
9,300.00	9,260.24	9,360.72	9,260.24	15.17	18.09	89.59	-397.39	858.55	381.01	349.58	31.43	12.124		
9,400.00	9,360.24	9,460.72	9,360.24	15.22	18.14	89.59	-397.39	858.55	381.01	349.48	31.53	12.086		
9,500.00	9,460.24	9,560.72	9,460.24	15.27	18.19	89.59	-397.39	858.55	381.01	349.38	31.63	12.048		
9,600.00	9,560.24	9,660.72	9,560.24	15.32	18.25	89.59	-397.39	858.55	381.01	349.28	31.73	12.010		
9,700.00	9,660.24	9,760.72	9,660.24	15.37	18.30	89.59	-397.39	858.55	381.01	349.18	31.83	11.972		
9,800.00	9,760.24	9,860.72	9,760.24	15.42	18.35	89.59	-397.39	858.55	381.01	349.08	31.93	11.934		
9,900.00	9,860.24	9,960.72	9,860.24	15.47	18.40	89.59	-397.39	858.55	381.01	348.98	32.03	11.896		
10,000.00	9,960.24	10,060.72	9,960.24	15.52	18.45	89.59	-397.39	858.55	381.01	348.88	32.13	11.858		
10,100.00	10,060.24	10,160.72	10,060.24	15.57	18.51	89.59	-397.39	858.55	381.01	348.78	32.23	11.820		
10,200.00	10,160.24	10,260.72	10,160.24	15.62	18.56	89.59	-397.39	858.55	381.01	348.67	32.34	11.783		

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

8/18/2025 4:11:19PM

Page 25 of 74

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	0.00 usft
												Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,260.24	10,360.72	10,260.24	15.67	18.61	89.59	-397.39	858.55	381.01	348.57	32.44	11.745	
10,400.00	10,360.24	10,460.72	10,360.24	15.72	18.66	89.59	-397.39	858.55	381.01	348.47	32.54	11.707	
10,500.00	10,460.24	10,560.72	10,460.24	15.77	18.72	89.59	-397.39	858.55	381.01	348.36	32.65	11.670	
10,600.00	10,560.24	10,660.72	10,560.24	15.82	18.77	89.59	-397.39	858.55	381.01	348.26	32.75	11.632	
10,700.00	10,660.24	10,760.72	10,660.24	15.88	18.82	89.59	-397.39	858.55	381.01	348.15	32.86	11.595	
10,800.00	10,760.24	10,860.72	10,760.24	15.93	18.88	89.59	-397.39	858.55	381.01	348.04	32.97	11.558	
10,900.00	10,860.24	10,960.72	10,860.24	15.98	18.93	89.59	-397.39	858.55	381.01	347.94	33.07	11.520	
11,000.00	10,960.24	11,060.72	10,960.24	16.04	18.99	89.59	-397.39	858.55	381.01	347.83	33.18	11.483	
11,100.00	11,060.24	11,160.72	11,060.24	16.09	19.04	89.59	-397.39	858.55	381.01	347.72	33.29	11.446	
11,200.00	11,160.24	11,260.72	11,160.24	16.14	19.10	89.59	-397.39	858.55	381.01	347.62	33.39	11.409	
11,300.00	11,260.24	11,360.72	11,260.24	16.20	19.15	89.59	-397.39	858.55	381.01	347.51	33.50	11.372	
11,400.00	11,360.24	11,460.72	11,360.24	16.25	19.21	89.59	-397.39	858.55	381.01	347.40	33.61	11.336	
11,414.50	11,374.74	11,475.22	11,374.74	16.26	19.21	89.59	-397.39	858.55	381.01	347.38	33.63	11.330	
11,500.00	11,460.24	11,560.71	11,460.23	16.30	19.25	89.59	-397.42	858.55	381.01	347.30	33.71	11.304	
11,500.06	11,460.30	11,560.78	11,460.29	16.30	19.25	89.59	-397.42	858.55	381.01	347.30	33.71	11.304	
11,600.00	11,560.24	11,659.40	11,558.33	16.36	19.38	91.03	-406.97	858.64	381.15	347.38	33.77	11.286	
11,700.00	11,660.24	11,752.22	11,647.83	16.41	19.55	94.65	-431.17	858.86	382.77	348.91	33.86	11.306	
11,800.00	11,760.24	11,835.42	11,723.82	16.47	19.75	99.63	-464.89	859.16	388.78	354.69	34.09	11.406	
11,900.00	11,860.23	11,907.79	11,785.34	16.51	19.96	-74.04	-502.91	859.51	402.41	367.73	34.68	11.603	
12,000.00	11,959.22	11,975.13	11,837.86	16.62	20.18	-67.51	-544.98	859.89	421.87	386.04	35.83	11.775	
12,100.00	12,054.40	12,040.34	11,883.69	16.77	20.44	-61.76	-591.33	860.31	443.83	406.41	37.42	11.862	
12,200.00	12,142.89	12,100.00	11,920.75	16.94	20.70	-57.05	-638.04	860.74	466.17	426.82	39.35	11.847	
12,300.00	12,222.00	12,166.42	11,956.06	17.27	21.04	-52.94	-694.26	861.25	487.11	445.92	41.19	11.825	
12,400.00	12,289.31	12,228.00	11,982.77	17.78	21.39	-49.87	-749.70	861.75	505.46	462.37	43.09	11.729	
12,500.00	12,342.79	12,288.94	12,003.21	18.40	21.78	-47.60	-807.08	862.27	520.26	475.38	44.88	11.592	
12,600.00	12,380.81	12,350.00	12,017.46	19.13	22.21	-46.07	-866.42	862.81	530.86	484.36	46.50	11.417	
12,700.00	12,402.22	12,400.00	12,024.37	19.96	22.58	-45.28	-915.92	863.26	536.96	488.95	48.01	11.184	
12,800.00	12,407.10	12,482.69	12,027.17	20.85	23.23	-45.08	-998.53	864.01	538.07	488.99	49.08	10.962	
12,900.00	12,407.63	12,582.69	12,027.88	21.80	24.08	-45.09	-1,098.52	864.92	537.94	487.89	50.06	10.746	
13,000.00	12,408.15	12,682.69	12,028.59	22.78	24.97	-45.11	-1,198.52	865.83	537.81	486.72	51.10	10.526	
13,100.00	12,408.68	12,782.69	12,029.30	23.81	25.91	-45.12	-1,298.51	866.74	537.68	485.49	52.19	10.302	
13,200.00	12,409.20	12,882.69	12,030.01	24.86	26.88	-45.14	-1,398.50	867.65	537.55	484.20	53.35	10.076	
13,300.00	12,409.73	12,982.69	12,030.72	25.94	27.89	-45.15	-1,498.50	868.56	537.42	482.87	54.56	9.851	
13,400.00	12,410.25	13,082.69	12,031.43	27.05	28.92	-45.16	-1,598.49	869.46	537.29	481.48	55.81	9.626	
13,500.00	12,410.78	13,182.69	12,032.14	28.17	29.98	-45.18	-1,698.48	870.37	537.16	480.04	57.12	9.404	
13,600.00	12,411.30	13,282.69	12,032.85	29.32	31.06	-45.19	-1,798.48	871.28	537.03	478.57	58.47	9.185	
13,700.00	12,411.83	13,382.69	12,033.55	30.48	32.17	-45.21	-1,898.47	872.19	536.90	477.05	59.86	8.970	
13,800.00	12,412.35	13,482.69	12,034.26	31.66	33.29	-45.22	-1,998.46	873.10	536.77	475.49	61.28	8.759	
13,900.00	12,412.88	13,582.69	12,034.97	32.86	34.43	-45.23	-2,098.46	874.01	536.64	473.90	62.74	8.553	
14,000.00	12,413.40	13,682.69	12,035.68	34.06	35.58	-45.25	-2,198.45	874.92	536.51	472.28	64.24	8.352	
14,100.00	12,413.93	13,782.69	12,036.39	35.28	36.75	-45.26	-2,298.44	875.82	536.38	470.62	65.77	8.156	
14,200.00	12,414.45	13,882.69	12,037.10	36.51	37.93	-45.28	-2,398.44	876.73	536.26	468.93	67.32	7.966	
14,300.00	12,414.98	13,982.69	12,037.81	37.74	39.12	-45.29	-2,498.43	877.64	536.13	467.22	68.90	7.781	
14,400.00	12,415.50	14,082.69	12,038.52	38.99	40.32	-45.30	-2,598.42	878.55	536.00	465.49	70.51	7.602	
14,500.00	12,416.03	14,182.69	12,039.23	40.24	41.54	-45.32	-2,698.42	879.46	535.87	463.73	72.14	7.428	
14,600.00	12,416.55	14,282.69	12,039.94	41.50	42.76	-45.33	-2,798.41	880.37	535.74	461.94	73.79	7.260	
14,700.00	12,417.08	14,382.69	12,040.64	42.77	43.99	-45.35	-2,898.40	881.28	535.61	460.14	75.47	7.097	
14,800.00	12,417.60	14,482.69	12,041.35	44.04	45.23	-45.36	-2,998.39	882.18	535.48	458.32	77.16	6.940	
14,900.00	12,418.13	14,582.69	12,042.06	45.32	46.47	-45.37	-3,098.39	883.09	535.35	456.48	78.87	6.788	
15,000.00	12,418.65	14,682.69	12,042.77	46.60	47.72	-45.39	-3,198.38	884.00	535.22	454.62	80.60	6.640	
15,100.00	12,419.18	14,782.69	12,043.48	47.89	48.98	-45.40	-3,298.37	884.91	535.09	452.74	82.35	6.498	
15,200.00	12,419.70	14,882.69	12,044.19	49.18	50.24	-45.42	-3,398.37	885.82	534.96	450.85	84.11	6.361	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	0.00 usft
												Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,300.00	12,420.23	14,982.69	12,044.90	50.48	51.51	-45.43	-3,498.36	886.73	534.83	448.95	85.88	6.228	
15,400.00	12,420.75	15,082.69	12,045.61	51.78	52.78	-45.44	-3,598.35	887.64	534.70	447.03	87.67	6.099	
15,500.00	12,421.28	15,182.69	12,046.32	53.08	54.06	-45.46	-3,698.35	888.54	534.57	445.10	89.47	5.975	
15,600.00	12,421.80	15,282.69	12,047.03	54.38	55.34	-45.47	-3,798.34	889.45	534.44	443.16	91.28	5.855	
15,700.00	12,422.33	15,382.69	12,047.74	55.69	56.63	-45.49	-3,898.33	890.36	534.31	441.21	93.11	5.739	
15,800.00	12,422.85	15,482.69	12,048.44	57.00	57.92	-45.50	-3,998.33	891.27	534.19	439.24	94.94	5.626	
15,900.00	12,423.38	15,582.69	12,049.15	58.32	59.21	-45.51	-4,098.32	892.18	534.06	437.27	96.79	5.518	
16,000.00	12,423.90	15,682.69	12,049.86	59.64	60.50	-45.53	-4,198.31	893.09	533.93	435.28	98.64	5.413	
16,100.00	12,424.43	15,782.69	12,050.57	60.95	61.80	-45.54	-4,298.31	894.00	533.80	433.29	100.51	5.311	
16,200.00	12,424.95	15,882.69	12,051.28	62.28	63.11	-45.56	-4,398.30	894.90	533.67	431.29	102.38	5.213	
16,300.00	12,425.48	15,982.69	12,051.99	63.60	64.41	-45.57	-4,498.29	895.81	533.54	429.28	104.26	5.117	
16,400.00	12,426.00	16,082.69	12,052.70	64.92	65.72	-45.58	-4,598.29	896.72	533.41	427.26	106.15	5.025	
16,500.00	12,426.53	16,182.69	12,053.41	66.25	67.03	-45.60	-4,698.28	897.63	533.28	425.23	108.05	4.936	
16,600.00	12,427.05	16,282.69	12,054.12	67.58	68.34	-45.61	-4,798.27	898.54	533.15	423.20	109.95	4.849	
16,700.00	12,427.58	16,382.69	12,054.83	68.91	69.65	-45.63	-4,898.27	899.45	533.02	421.16	111.86	4.765	
16,800.00	12,428.10	16,482.69	12,055.54	70.24	70.97	-45.64	-4,998.26	900.36	532.90	419.11	113.78	4.684	
16,900.00	12,428.63	16,582.69	12,056.24	71.57	72.29	-45.66	-5,098.25	901.26	532.77	417.06	115.71	4.605	
17,000.00	12,429.15	16,682.69	12,056.95	72.91	73.61	-45.67	-5,198.24	902.17	532.64	415.00	117.64	4.528	
17,100.00	12,429.68	16,782.69	12,057.66	74.24	74.93	-45.68	-5,298.24	903.08	532.51	412.94	119.57	4.453	
17,200.00	12,430.20	16,882.69	12,058.37	75.58	76.25	-45.70	-5,398.23	903.99	532.38	410.87	121.51	4.381	
17,300.00	12,430.73	16,982.69	12,059.08	76.92	77.58	-45.71	-5,498.22	904.90	532.25	408.79	123.46	4.311	
17,400.00	12,431.25	17,082.69	12,059.79	78.26	78.90	-45.73	-5,598.22	905.81	532.12	406.71	125.41	4.243	
17,500.00	12,431.78	17,182.69	12,060.50	79.60	80.23	-45.74	-5,698.21	906.72	532.00	404.63	127.37	4.177	
17,600.00	12,432.30	17,282.69	12,061.21	80.94	81.56	-45.75	-5,798.20	907.62	531.87	402.54	129.33	4.112	
17,700.00	12,432.83	17,382.69	12,061.92	82.28	82.89	-45.77	-5,898.20	908.53	531.74	400.44	131.30	4.050	
17,800.00	12,433.35	17,482.69	12,062.63	83.62	84.22	-45.78	-5,998.19	909.44	531.61	398.34	133.27	3.989	
17,900.00	12,433.88	17,582.69	12,063.34	84.96	85.55	-45.80	-6,098.18	910.35	531.48	396.24	135.24	3.930	
18,000.00	12,434.40	17,682.69	12,064.04	86.31	86.89	-45.81	-6,198.18	911.26	531.35	394.13	137.22	3.872	
18,100.00	12,434.93	17,782.69	12,064.75	87.65	88.22	-45.83	-6,298.17	912.17	531.22	392.02	139.20	3.816	
18,200.00	12,435.45	17,882.69	12,065.46	89.00	89.56	-45.84	-6,398.16	913.08	531.10	389.90	141.19	3.762	
18,300.00	12,435.98	17,982.68	12,066.17	90.35	90.89	-45.85	-6,498.16	913.99	530.97	387.79	143.18	3.708	
18,400.00	12,436.50	18,082.68	12,066.88	91.69	92.23	-45.87	-6,598.15	914.89	530.84	385.66	145.18	3.657	
18,500.00	12,437.03	18,182.68	12,067.59	93.04	93.57	-45.88	-6,698.14	915.80	530.71	383.54	147.17	3.606	
18,600.00	12,437.55	18,282.68	12,068.30	94.39	94.91	-45.90	-6,798.14	916.71	530.58	381.41	149.18	3.557	
18,700.00	12,438.08	18,382.68	12,069.01	95.74	96.25	-45.91	-6,898.13	917.62	530.45	379.28	151.18	3.509	
18,800.00	12,438.60	18,482.68	12,069.72	97.09	97.59	-45.93	-6,998.12	918.53	530.33	377.14	153.19	3.462	
18,900.00	12,439.13	18,582.68	12,070.43	98.44	98.93	-45.94	-7,098.12	919.44	530.20	375.00	155.20	3.416	
19,000.00	12,439.65	18,682.68	12,071.14	99.79	100.28	-45.95	-7,198.11	920.34	530.07	372.86	157.21	3.372	
19,100.00	12,440.17	18,782.68	12,071.84	101.14	101.62	-45.97	-7,298.10	921.25	529.94	370.71	159.23	3.328	
19,200.00	12,440.70	18,882.68	12,072.55	102.49	102.96	-45.98	-7,398.10	922.16	529.81	368.57	161.25	3.286	
19,300.00	12,441.22	18,982.68	12,073.26	103.84	104.31	-46.00	-7,498.09	923.07	529.69	366.42	163.27	3.244	
19,400.00	12,441.75	19,082.68	12,073.97	105.20	105.65	-46.01	-7,598.08	923.98	529.56	364.26	165.30	3.204	
19,500.00	12,442.27	19,182.68	12,074.68	106.55	107.00	-46.03	-7,698.07	924.89	529.43	362.11	167.32	3.164	
19,600.00	12,442.80	19,282.68	12,075.39	107.90	108.35	-46.04	-7,798.07	925.80	529.30	359.95	169.35	3.125	
19,700.00	12,443.32	19,382.68	12,076.10	109.26	109.69	-46.05	-7,898.06	926.70	529.17	357.79	171.39	3.088	
19,800.00	12,443.85	19,482.68	12,076.81	110.61	111.04	-46.07	-7,998.05	927.61	529.05	355.63	173.42	3.051	
19,900.00	12,444.37	19,582.68	12,077.52	111.97	112.39	-46.08	-8,098.05	928.52	528.92	353.46	175.46	3.014	
20,000.00	12,444.90	19,682.68	12,078.23	113.32	113.74	-46.10	-8,198.04	929.43	528.79	351.29	177.50	2.979	
20,100.00	12,445.42	19,782.68	12,078.93	114.68	115.09	-46.11	-8,298.03	930.34	528.66	349.12	179.54	2.945	
20,200.00	12,445.95	19,882.68	12,079.64	116.03	116.44	-46.13	-8,398.03	931.25	528.54	346.95	181.59	2.911	
20,300.00	12,446.47	19,982.68	12,080.35	117.39	117.79	-46.14	-8,498.02	932.16	528.41	344.78	183.63	2.878	
20,400.00	12,447.00	20,082.68	12,081.06	118.74	119.14	-46.15	-8,598.01	933.06	528.28	342.60	185.68	2.845	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:				Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
20,500.00	12,447.52	20,182.68	12,081.77	120.10	120.49	-46.17	-8,698.01	933.97	528.15	340.42	187.73	2.813
20,600.00	12,448.05	20,282.68	12,082.48	121.46	121.84	-46.18	-8,798.00	934.88	528.03	338.24	189.78	2.782
20,700.00	12,448.57	20,382.68	12,083.19	122.81	123.19	-46.20	-8,897.99	935.79	527.90	336.06	191.84	2.752
20,800.00	12,449.10	20,482.68	12,083.90	124.17	124.54	-46.21	-8,997.99	936.70	527.77	333.87	193.90	2.722
20,900.00	12,449.62	20,582.68	12,084.61	125.53	125.90	-46.23	-9,097.98	937.61	527.64	331.69	195.96	2.693
21,000.00	12,450.15	20,682.68	12,085.32	126.89	127.25	-46.24	-9,197.97	938.52	527.52	329.50	198.02	2.664
21,100.00	12,450.67	20,782.68	12,086.03	128.24	128.60	-46.26	-9,297.97	939.42	527.39	327.31	200.08	2.636
21,200.00	12,451.20	20,882.68	12,086.73	129.60	129.96	-46.27	-9,397.96	940.33	527.26	325.12	202.14	2.608
21,300.00	12,451.72	20,982.68	12,087.44	130.96	131.31	-46.28	-9,497.95	941.24	527.13	322.92	204.21	2.581
21,400.00	12,452.25	21,082.68	12,088.15	132.32	132.66	-46.30	-9,597.95	942.15	527.01	320.73	206.28	2.555
21,500.00	12,452.77	21,182.68	12,088.86	133.68	134.02	-46.31	-9,697.94	943.06	526.88	318.53	208.35	2.529
21,600.00	12,453.30	21,282.68	12,089.57	135.04	135.37	-46.33	-9,797.93	943.97	526.75	316.33	210.42	2.503
21,700.00	12,453.82	21,382.68	12,090.28	136.40	136.73	-46.34	-9,897.92	944.88	526.62	314.13	212.50	2.478
21,800.00	12,454.35	21,482.68	12,090.99	137.76	138.08	-46.36	-9,997.92	945.79	526.50	311.93	214.57	2.454
21,900.00	12,454.87	21,582.68	12,091.70	139.12	139.44	-46.37	-10,097.91	946.69	526.37	309.72	216.65	2.430
22,000.00	12,455.40	21,682.68	12,092.41	140.48	140.79	-46.39	-10,197.90	947.60	526.24	307.52	218.73	2.406
22,100.00	12,455.92	21,782.68	12,093.12	141.84	142.15	-46.40	-10,297.90	948.51	526.12	305.31	220.81	2.383
22,200.00	12,456.45	21,882.68	12,093.83	143.20	143.51	-46.42	-10,397.89	949.42	525.99	303.10	222.89	2.360
22,300.00	12,456.97	21,982.68	12,094.53	144.56	144.86	-46.43	-10,497.88	950.33	525.86	300.89	224.97	2.337
22,400.00	12,457.50	22,082.68	12,095.24	145.92	146.22	-46.44	-10,597.88	951.24	525.74	298.68	227.06	2.315
22,500.00	12,458.02	22,182.68	12,095.95	147.28	147.58	-46.46	-10,697.87	952.15	525.61	296.47	229.14	2.294
22,600.00	12,458.55	22,282.68	12,096.66	148.64	148.94	-46.47	-10,797.86	953.05	525.48	294.25	231.23	2.273
22,700.00	12,459.07	22,382.68	12,097.37	149.86	150.29	-46.49	-10,897.86	953.96	525.35	292.18	233.17	2.253
22,704.81	12,459.10	22,386.82	12,097.40	149.92	150.35	-46.49	-10,902.00	954.00	525.35	292.07	233.28	2.252
22,705.25	12,459.10	22,386.82	12,097.40	149.93	150.35	-46.49	-10,902.00	954.00	525.35	292.05	233.30	2.252

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 204-MWD+HRGM+SAG+FDIR (rev.5), 10536-MWD+HRGM+SAG+FDIR (rev.5) Rule Assigned: Offset Site Error: 0.00 usft
Offset Well Error: 0.50 usft

Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
1,300.00	1,298.81	1,543.76	1,540.11	4.62	5.32	145.68	-619.80	-2,298.78	2,431.56	2,421.72	9.84	247.078	
1,400.00	1,398.68	1,645.57	1,641.36	4.82	5.53	145.82	-614.62	-2,289.50	2,425.78	2,415.54	10.25	236.755	
1,500.00	1,498.54	1,738.79	1,734.09	5.03	5.72	145.94	-609.96	-2,281.20	2,420.23	2,409.60	10.63	227.624	
1,600.00	1,598.34	1,827.30	1,822.17	5.24	5.89	134.92	-605.74	-2,273.58	2,415.51	2,404.50	11.01	219.400	
1,700.00	1,697.95	1,919.04	1,913.51	5.47	6.08	129.21	-601.68	-2,266.00	2,412.20	2,400.81	11.39	211.702	
1,800.00	1,797.32	2,006.04	2,000.16	5.69	6.25	125.90	-597.83	-2,259.14	2,410.27	2,398.51	11.77	204.829	
1,900.00	1,896.41	2,103.15	2,096.88	5.83	6.43	124.77	-592.90	-2,252.07	2,409.73	2,397.66	12.08	199.552	
2,000.00	1,995.43	2,199.86	2,193.18	6.02	6.62	125.12	-587.36	-2,245.11	2,409.39	2,396.93	12.46	193.410	
2,100.00	2,094.46	2,354.23	2,346.81	6.22	6.94	125.68	-578.47	-2,232.97	2,408.72	2,395.76	12.96	185.925	
2,200.00	2,193.49	2,659.29	2,647.92	6.42	7.66	126.80	-566.44	-2,190.03	2,400.34	2,386.54	13.80	173.958	
2,300.00	2,292.52	2,751.84	2,738.49	6.62	7.85	127.22	-545.93	-2,174.17	2,389.45	2,375.25	14.20	168.215	
2,400.00	2,391.54	2,823.15	2,808.27	6.82	8.00	127.59	-536.38	-2,163.00	2,379.70	2,365.13	14.57	163.306	
2,500.00	2,490.57	2,896.00	2,879.70	7.01	8.14	127.96	-526.97	-2,152.22	2,371.09	2,356.16	14.93	158.764	
2,600.00	2,589.60	2,970.72	2,953.16	7.21	8.30	128.32	-518.26	-2,141.72	2,363.64	2,348.34	15.30	154.483	
2,700.00	2,688.63	3,055.65	3,036.84	7.41	8.47	128.72	-509.13	-2,130.43	2,357.21	2,341.53	15.68	150.339	
2,800.00	2,787.65	3,155.68	3,135.44	7.61	8.67	129.19	-498.47	-2,117.34	2,351.18	2,335.10	16.08	146.198	
2,900.00	2,886.68	3,268.24	3,246.37	7.81	8.89	129.70	-487.15	-2,102.04	2,344.91	2,328.40	16.51	142.060	
3,000.00	2,985.71	3,345.58	3,322.61	8.01	9.05	130.05	-479.49	-2,091.53	2,338.82	2,321.95	16.87	138.616	
3,100.00	3,084.74	3,424.54	3,400.58	8.21	9.20	130.40	-472.17	-2,081.49	2,333.81	2,316.57	17.24	135.382	
3,200.00	3,183.76	3,530.21	3,505.01	8.40	9.41	130.87	-462.48	-2,068.53	2,329.42	2,311.77	17.65	131.984	
3,300.00	3,282.79	3,655.92	3,629.02	8.60	9.67	131.44	-450.29	-2,051.91	2,324.13	2,306.03	18.10	128.424	
3,400.00	3,381.82	3,746.86	3,718.70	8.80	9.85	131.85	-441.79	-2,039.46	2,318.58	2,300.09	18.49	125.420	
3,500.00	3,480.85	3,799.24	3,770.46	9.00	9.99	132.08	-437.28	-2,032.78	2,314.24	2,295.42	18.83	122.913	
3,600.00	3,579.87	3,849.00	3,819.78	9.20	10.12	132.29	-433.38	-2,027.48	2,312.13	2,292.97	19.16	120.669	
3,662.21	3,641.48	3,888.02	3,858.53	9.32	10.20	132.45	-430.62	-2,023.90	2,311.82	2,292.45	19.37	119.368	CC
3,700.00	3,678.90	3,912.14	3,882.52	9.40	10.25	132.54	-429.08	-2,021.84	2,311.93	2,292.44	19.49	118.606	ES
3,800.00	3,777.93	4,005.07	3,975.04	9.60	10.43	132.88	-424.26	-2,014.53	2,313.03	2,293.16	19.87	116.421	
3,900.00	3,876.96	4,114.90	4,084.39	9.80	10.63	133.23	-420.33	-2,005.14	2,313.71	2,293.44	20.26	114.173	
4,000.00	3,975.98	4,204.32	4,173.42	10.00	10.80	133.52	-417.04	-1,997.50	2,314.46	2,293.83	20.63	112.214	
4,100.00	4,075.01	4,271.53	4,240.38	10.20	10.93	133.74	-414.54	-1,992.28	2,316.11	2,295.17	20.95	110.571	
4,200.00	4,174.04	4,326.00	4,294.72	10.40	11.03	133.92	-412.64	-1,988.96	2,319.52	2,298.28	21.24	109.204	
4,300.00	4,273.07	4,374.68	4,343.34	10.60	11.14	134.07	-411.26	-1,986.97	2,325.03	2,303.53	21.50	108.139	
4,400.00	4,372.09	4,422.00	4,390.64	10.80	11.26	134.21	-410.40	-1,986.16	2,332.91	2,311.16	21.75	107.261	
4,500.00	4,471.12	4,473.90	4,442.53	11.00	11.29	134.34	-410.08	-1,986.34	2,342.93	2,320.97	21.96	106.692	
4,600.00	4,570.15	4,538.77	4,507.39	11.20	11.32	134.49	-410.63	-1,987.75	2,354.83	2,332.67	22.16	106.246	
4,700.00	4,669.18	4,718.94	4,687.52	11.40	11.36	134.91	-411.31	-1,990.51	2,366.70	2,344.24	22.45	105.401	
4,800.00	4,768.21	4,854.84	4,823.39	11.60	11.55	135.24	-410.91	-1,988.00	2,374.63	2,351.78	22.85	103.914	
4,900.00	4,867.23	4,936.99	4,905.51	11.80	11.62	135.41	-412.06	-1,986.21	2,382.47	2,359.34	23.14	102.972	
5,000.00	4,966.26	4,994.00	4,962.51	12.00	11.65	135.52	-412.95	-1,985.54	2,391.48	2,368.12	23.37	102.342	
5,100.00	5,065.29	5,072.87	5,041.37	12.20	11.66	135.68	-413.88	-1,985.65	2,401.73	2,378.15	23.58	101.842	
5,200.00	5,164.32	5,142.49	5,110.98	12.40	11.65	135.83	-414.44	-1,986.77	2,413.36	2,389.60	23.76	101.565	
5,300.00	5,263.34	5,234.24	5,202.70	12.60	11.63	136.02	-415.19	-1,989.16	2,426.01	2,402.07	23.94	101.325	SF

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	1.00	0.00	0.50	0.50	-8.88	160.00	-25.00	161.94				
100.00	100.00	101.00	100.00	0.98	0.99	-8.88	160.00	-25.00	161.94	159.97	1.97	82.302	
200.00	200.00	201.00	200.00	1.56	1.57	-8.88	160.00	-25.00	161.94	158.81	3.13	51.798	
300.00	300.00	301.04	300.04	1.98	1.99	-8.88	160.00	-25.00	161.94	157.97	3.97	40.827	
400.00	399.99	404.65	403.64	2.41	2.42	-119.59	158.70	-25.60	161.43	156.70	4.74	34.063	
500.00	499.91	508.02	506.92	2.77	2.79	-121.73	154.86	-27.38	160.10	154.70	5.40	29.659	
600.00	599.77	611.00	609.65	3.04	3.11	-124.91	148.52	-30.32	157.62	151.67	5.95	26.493	
700.00	699.63	711.15	709.43	3.29	3.25	-128.56	140.66	-33.97	154.25	147.91	6.34	24.327	
800.00	799.50	810.60	808.50	3.53	3.49	-132.35	132.80	-37.61	151.49	144.68	6.82	22.221	
900.00	899.36	910.04	907.56	3.76	3.73	-136.26	124.93	-41.26	149.42	142.15	7.28	20.538	
1,000.00	999.22	1,009.48	1,006.63	3.98	3.95	-140.26	117.07	-44.90	148.08	140.36	7.72	19.186	
1,100.00	1,099.09	1,108.93	1,105.70	4.20	4.18	-144.32	109.21	-48.55	147.47	139.32	8.15	18.099	
1,130.79	1,129.83	1,139.54	1,136.19	4.26	4.24	-145.57	106.79	-49.67	147.44	139.16	8.28	17.812	CC
1,200.00	1,198.95	1,208.37	1,204.76	4.41	4.39	-148.38	101.34	-52.19	147.62	139.06	8.56	17.245	ES
1,300.00	1,298.81	1,308.31	1,304.28	4.62	4.52	-152.59	93.11	-56.08	148.42	139.53	8.88	16.706	
1,400.00	1,398.68	1,408.17	1,403.48	4.82	4.78	-157.62	82.95	-61.29	149.66	140.35	9.30	16.084	
1,500.00	1,498.54	1,507.30	1,501.63	5.03	5.04	-163.45	70.75	-67.91	151.90	142.17	9.73	15.613	
1,600.00	1,598.34	1,605.60	1,598.58	5.24	5.29	-179.00	56.58	-75.89	157.02	146.84	10.18	15.429	
1,700.00	1,697.95	1,703.00	1,694.19	5.47	5.53	-166.77	40.51	-85.18	166.65	156.01	10.64	15.662	
1,800.00	1,797.32	1,800.40	1,789.48	5.69	5.69	-157.53	23.09	-95.41	180.63	169.57	11.06	16.332	
1,900.00	1,896.41	1,897.88	1,884.82	5.83	5.90	-151.66	5.61	-105.68	197.87	186.43	11.44	17.297	
2,000.00	1,995.43	1,995.34	1,980.15	6.02	6.10	148.12	-11.87	-115.94	216.35	204.46	11.88	18.206	
2,100.00	2,094.46	2,092.80	2,075.48	6.22	6.31	145.14	-29.34	-126.21	235.51	223.18	12.33	19.105	
2,200.00	2,193.49	2,190.25	2,170.80	6.42	6.52	142.61	-46.82	-136.47	255.20	242.43	12.77	19.985	
2,300.00	2,292.52	2,287.71	2,266.13	6.62	6.73	140.43	-64.29	-146.73	275.30	262.09	13.21	20.838	
2,400.00	2,391.54	2,385.17	2,361.46	6.82	6.95	138.56	-81.77	-157.00	295.74	282.09	13.65	21.661	
2,500.00	2,490.57	2,482.63	2,456.79	7.01	7.22	136.93	-99.24	-167.26	316.44	302.35	14.10	22.450	
2,600.00	2,589.60	2,580.09	2,552.11	7.21	7.49	135.49	-116.72	-177.52	337.36	322.82	14.54	23.207	
2,700.00	2,688.63	2,677.54	2,647.44	7.41	7.76	134.23	-134.19	-187.78	358.46	343.48	14.98	23.930	
2,800.00	2,787.65	2,775.00	2,742.77	7.61	8.04	133.10	-151.67	-198.05	379.71	364.29	15.42	24.622	
2,900.00	2,886.68	2,872.46	2,838.10	7.81	8.31	132.09	-169.14	-208.31	401.09	385.22	15.86	25.282	
3,000.00	2,985.71	2,969.92	2,933.42	8.01	8.59	131.19	-186.62	-218.57	422.57	406.26	16.31	25.913	
3,100.00	3,084.74	3,067.38	3,028.75	8.21	8.86	130.37	-204.10	-228.84	444.14	427.39	16.75	26.515	
3,200.00	3,183.76	3,164.83	3,124.08	8.40	9.14	129.63	-221.57	-239.10	465.79	448.60	17.19	27.091	
3,300.00	3,282.79	3,262.29	3,219.41	8.60	9.42	128.95	-239.05	-249.36	487.51	469.87	17.64	27.640	
3,400.00	3,381.82	3,359.75	3,314.73	8.80	9.70	128.33	-256.52	-259.63	509.29	491.21	18.08	28.166	
3,500.00	3,480.85	3,457.21	3,410.06	9.00	9.98	127.77	-274.00	-269.89	531.12	512.59	18.53	28.668	
3,600.00	3,579.87	3,554.67	3,505.39	9.20	10.26	127.24	-291.47	-280.15	553.00	534.02	18.97	29.149	
3,700.00	3,678.90	3,652.12	3,600.72	9.40	10.54	126.76	-308.95	-290.42	574.91	555.50	19.42	29.610	
3,800.00	3,777.93	3,749.58	3,696.04	9.60	10.82	126.31	-326.42	-300.68	596.87	577.01	19.86	30.057	
3,900.00	3,876.96	3,853.66	3,797.95	9.80	11.10	125.90	-344.67	-311.39	618.56	598.23	20.33	30.428	
4,000.00	3,975.98	3,963.67	3,906.20	10.00	11.39	125.70	-361.56	-321.31	638.58	617.75	20.83	30.663	
4,100.00	4,075.01	4,074.56	4,015.83	10.20	11.65	125.71	-375.85	-329.71	656.71	635.41	21.30	30.826	
4,200.00	4,174.04	4,186.14	4,126.59	10.40	11.87	125.94	-387.46	-336.52	672.93	651.17	21.76	30.923	
4,300.00	4,273.07	4,298.22	4,238.21	10.60	12.07	126.36	-396.30	-341.72	687.25	665.06	22.20	30.963	
4,400.00	4,372.09	4,410.63	4,350.39	10.80	12.24	126.96	-402.33	-345.26	699.70	677.10	22.60	30.957	
4,500.00	4,471.12	4,523.15	4,462.85	11.00	12.36	127.75	-405.52	-347.13	710.32	687.35	22.97	30.926	
4,600.00	4,570.15	4,630.46	4,570.15	11.20	12.42	128.66	-406.06	-347.45	719.34	696.09	23.25	30.940	
4,700.00	4,669.18	4,729.49	4,669.18	11.40	12.46	129.51	-406.06	-347.45	728.16	704.65	23.51	30.976	
4,800.00	4,768.21	4,828.51	4,768.21	11.60	12.49	130.34	-406.06	-347.45	737.14	713.37	23.76	31.019	
4,900.00	4,867.23	4,927.54	4,867.23	11.80	12.53	131.15	-406.06	-347.45	746.27	722.25	24.02	31.068	
5,000.00	4,966.26	5,026.57	4,966.26	12.00	12.57	131.94	-406.06	-347.45	755.54	731.27	24.28	31.122	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program:		0-MWD+HRGM+SAG+FDIR (rev.5)				Rule Assigned:		Offset Well Error:		0.50 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance				
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside		Between	Between	Minimum	Separation	
Depth	Depth	Depth	Depth			Toolface	+N/-S	Centres	Ellipses	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)		
5,100.00	5,065.29	5,125.60	5,065.29	12.20	12.61	132.71	-406.06	-347.45	764.96	740.43	24.53	31.181
5,200.00	5,164.32	5,224.62	5,164.32	12.40	12.65	133.46	-406.06	-347.45	774.51	749.73	24.79	31.245
5,300.00	5,263.34	5,323.65	5,263.34	12.60	12.69	134.19	-406.06	-347.45	784.20	759.15	25.04	31.314
5,400.00	5,362.37	5,422.68	5,362.37	12.81	12.73	134.91	-406.06	-347.45	794.00	768.71	25.30	31.387
5,500.00	5,461.46	5,521.77	5,461.46	12.97	12.77	135.64	-406.06	-347.45	803.62	778.10	25.52	31.492
5,600.00	5,560.84	5,621.15	5,560.84	13.17	12.81	136.27	-406.06	-347.45	811.62	785.86	25.76	31.503
5,700.00	5,660.47	5,720.78	5,660.47	13.36	12.86	136.75	-406.06	-347.45	817.79	791.80	25.99	31.464
5,800.00	5,760.30	5,820.61	5,760.30	13.54	12.90	137.07	-406.06	-347.45	822.09	795.89	26.20	31.374
5,900.00	5,860.24	5,920.55	5,860.24	13.69	12.94	137.25	-406.06	-347.45	824.48	798.09	26.39	31.237
6,000.00	5,960.24	6,020.54	5,960.24	13.75	12.98	-90.41	-406.06	-347.45	825.02	798.54	26.48	31.151
6,100.00	6,060.24	6,120.54	6,060.24	13.78	13.03	-90.41	-406.06	-347.45	825.02	798.46	26.56	31.057
6,200.00	6,160.24	6,220.54	6,160.24	13.82	13.07	-90.41	-406.06	-347.45	825.02	798.38	26.65	30.962
6,300.00	6,260.24	6,320.54	6,260.24	13.86	13.12	-90.41	-406.06	-347.45	825.02	798.29	26.73	30.867
6,400.00	6,360.24	6,420.54	6,360.24	13.90	13.16	-90.41	-406.06	-347.45	825.02	798.21	26.81	30.772
6,500.00	6,460.24	6,520.54	6,460.24	13.94	13.21	-90.41	-406.06	-347.45	825.02	798.13	26.89	30.676
6,600.00	6,560.24	6,620.54	6,560.24	13.98	13.25	-90.41	-406.06	-347.45	825.02	798.04	26.98	30.581
6,700.00	6,660.24	6,720.54	6,660.24	14.02	13.30	-90.41	-406.06	-347.45	825.02	797.96	27.06	30.485
6,800.00	6,760.24	6,820.54	6,760.24	14.06	13.34	-90.41	-406.06	-347.45	825.02	797.87	27.15	30.389
6,900.00	6,860.24	6,920.54	6,860.24	14.10	13.39	-90.41	-406.06	-347.45	825.02	797.79	27.24	30.292
7,000.00	6,960.24	7,020.54	6,960.24	14.14	13.44	-90.41	-406.06	-347.45	825.02	797.70	27.32	30.196
7,100.00	7,060.24	7,120.54	7,060.24	14.18	13.49	-90.41	-406.06	-347.45	825.02	797.61	27.41	30.099
7,200.00	7,160.24	7,220.54	7,160.24	14.22	13.53	-90.41	-406.06	-347.45	825.02	797.52	27.50	30.003
7,300.00	7,260.24	7,320.54	7,260.24	14.26	13.58	-90.41	-406.06	-347.45	825.02	797.43	27.59	29.906
7,400.00	7,360.24	7,420.54	7,360.24	14.30	13.63	-90.41	-406.06	-347.45	825.02	797.34	27.68	29.809
7,500.00	7,460.24	7,520.54	7,460.24	14.35	13.68	-90.41	-406.06	-347.45	825.02	797.25	27.77	29.712
7,600.00	7,560.24	7,620.54	7,560.24	14.39	13.73	-90.41	-406.06	-347.45	825.02	797.16	27.86	29.614
7,700.00	7,660.24	7,720.54	7,660.24	14.43	13.78	-90.41	-406.06	-347.45	825.02	797.07	27.95	29.517
7,800.00	7,760.24	7,820.54	7,760.24	14.48	13.83	-90.41	-406.06	-347.45	825.02	796.98	28.04	29.420
7,900.00	7,860.24	7,920.54	7,860.24	14.52	13.88	-90.41	-406.06	-347.45	825.02	796.89	28.14	29.323
8,000.00	7,960.24	8,020.54	7,960.24	14.57	13.93	-90.41	-406.06	-347.45	825.02	796.79	28.23	29.226
8,100.00	8,060.24	8,120.54	8,060.24	14.61	13.98	-90.41	-406.06	-347.45	825.02	796.70	28.32	29.128
8,200.00	8,160.24	8,220.54	8,160.24	14.65	14.03	-90.41	-406.06	-347.45	825.02	796.60	28.42	29.031
8,300.00	8,260.24	8,320.54	8,260.24	14.70	14.08	-90.41	-406.06	-347.45	825.02	796.51	28.51	28.934
8,400.00	8,360.24	8,420.54	8,360.24	14.75	14.13	-90.41	-406.06	-347.45	825.02	796.41	28.61	28.837
8,500.00	8,460.24	8,520.54	8,460.24	14.79	14.18	-90.41	-406.06	-347.45	825.02	796.31	28.71	28.739
8,600.00	8,560.24	8,620.54	8,560.24	14.84	14.24	-90.41	-406.06	-347.45	825.02	796.22	28.80	28.642
8,700.00	8,660.24	8,720.54	8,660.24	14.88	14.29	-90.41	-406.06	-347.45	825.02	796.12	28.90	28.545
8,800.00	8,760.24	8,820.54	8,760.24	14.93	14.34	-90.41	-406.06	-347.45	825.02	796.02	29.00	28.448
8,900.00	8,860.24	8,920.54	8,860.24	14.98	14.39	-90.41	-406.06	-347.45	825.02	795.92	29.10	28.351
9,000.00	8,960.24	9,020.54	8,960.24	15.03	14.45	-90.41	-406.06	-347.45	825.02	795.82	29.20	28.255
9,100.00	9,060.24	9,120.54	9,060.24	15.07	14.50	-90.41	-406.06	-347.45	825.02	795.72	29.30	28.158
9,200.00	9,160.24	9,220.55	9,160.24	15.12	14.55	-90.41	-406.06	-347.45	825.02	795.62	29.40	28.061
9,300.00	9,260.24	9,320.55	9,260.24	15.17	14.61	-90.41	-406.06	-347.45	825.02	795.52	29.50	27.965
9,400.00	9,360.24	9,420.55	9,360.24	15.22	14.66	-90.41	-406.06	-347.45	825.02	795.42	29.60	27.869
9,500.00	9,460.24	9,520.55	9,460.24	15.27	14.72	-90.41	-406.06	-347.45	825.02	795.32	29.71	27.773
9,600.00	9,560.24	9,620.55	9,560.24	15.32	14.77	-90.41	-406.06	-347.45	825.02	795.21	29.81	27.677
9,700.00	9,660.24	9,720.55	9,660.24	15.37	14.83	-90.41	-406.06	-347.45	825.02	795.11	29.91	27.581
9,800.00	9,760.24	9,820.55	9,760.24	15.42	14.88	-90.41	-406.06	-347.45	825.02	795.00	30.02	27.485
9,900.00	9,860.24	9,920.55	9,860.24	15.47	14.94	-90.41	-406.06	-347.45	825.02	794.90	30.12	27.390
10,000.00	9,960.24	10,020.55	9,960.24	15.52	15.00	-90.41	-406.06	-347.45	825.02	794.79	30.23	27.295
10,100.00	10,060.24	10,120.55	10,060.24	15.57	15.05	-90.41	-406.06	-347.45	825.02	794.69	30.33	27.200
10,200.00	10,160.24	10,220.55	10,160.24	15.62	15.11	-90.41	-406.06	-347.45	825.02	794.58	30.44	27.105

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program:		0-MWD+HRGM+SAG+FDIR (rev.5)					Rule Assigned:				Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Major Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,300.00	10,260.24	10,320.55	10,260.24	15.67	15.17	-90.41	-406.06	-347.45	825.02	794.48	30.54	27.010	
10,400.00	10,360.24	10,420.55	10,360.24	15.72	15.22	-90.41	-406.06	-347.45	825.02	794.37	30.65	26.916	
10,500.00	10,460.24	10,520.55	10,460.24	15.77	15.28	-90.41	-406.06	-347.45	825.02	794.26	30.76	26.822	
10,600.00	10,560.24	10,620.55	10,560.24	15.82	15.34	-90.41	-406.06	-347.45	825.02	794.15	30.87	26.728	
10,700.00	10,660.24	10,720.55	10,660.24	15.88	15.39	-90.41	-406.06	-347.45	825.02	794.05	30.98	26.634	
10,800.00	10,760.24	10,820.55	10,760.24	15.93	15.45	-90.41	-406.06	-347.45	825.02	793.94	31.09	26.541	
10,900.00	10,860.24	10,920.55	10,860.24	15.98	15.51	-90.41	-406.06	-347.45	825.02	793.83	31.19	26.448	
11,000.00	10,960.24	11,020.55	10,960.24	16.04	15.57	-90.41	-406.06	-347.45	825.02	793.72	31.30	26.356	
11,100.00	11,060.24	11,120.60	11,060.28	16.09	15.63	-90.47	-406.86	-347.44	825.02	793.62	31.40	26.273	
11,112.13	11,072.37	11,132.72	11,072.37	16.09	15.64	-90.52	-407.63	-347.44	825.02	793.61	31.41	26.264	
11,200.00	11,160.24	11,218.71	11,157.33	16.14	15.79	-91.41	-420.39	-347.32	825.12	793.59	31.54	26.165	
11,300.00	11,260.24	11,309.77	11,244.14	16.20	16.02	-93.29	-447.58	-347.07	826.14	794.39	31.75	26.017	
11,400.00	11,360.24	11,390.57	11,316.70	16.25	16.27	-95.74	-482.95	-346.75	829.59	797.53	32.06	25.876	
11,500.00	11,460.24	11,460.09	11,374.64	16.30	16.54	-98.37	-521.30	-346.40	837.20	804.71	32.49	25.768	
11,600.00	11,560.24	11,518.92	11,419.74	16.36	16.81	-100.92	-559.03	-346.06	850.48	817.38	33.10	25.696	
11,700.00	11,660.24	11,568.35	11,454.47	16.41	17.07	-103.26	-594.17	-345.74	870.51	836.59	33.92	25.663	
11,800.00	11,760.24	11,609.89	11,481.24	16.47	17.32	-105.34	-625.93	-345.45	897.86	862.90	34.96	25.684	
11,900.00	11,860.23	11,650.00	11,504.83	16.51	17.58	72.12	-658.36	-345.16	932.49	896.35	36.13	25.806	
12,000.00	11,959.22	11,680.67	11,521.31	16.62	17.79	66.89	-684.22	-344.92	970.29	932.78	37.51	25.870	
12,100.00	12,054.40	11,717.94	11,539.43	16.77	18.07	61.78	-716.78	-344.63	1,008.03	969.08	38.95	25.882	
12,200.00	12,142.89	11,750.00	11,553.30	16.94	18.33	57.46	-745.68	-344.36	1,043.85	1,003.42	40.43	25.822	
12,300.00	12,222.00	11,800.00	11,571.64	17.27	18.75	53.43	-792.17	-343.94	1,076.10	1,034.31	41.80	25.746	
12,400.00	12,289.31	11,850.00	11,585.86	17.78	19.20	50.30	-840.09	-343.50	1,103.85	1,060.75	43.10	25.610	
12,500.00	12,342.79	11,877.49	11,591.89	18.40	19.46	48.28	-866.90	-343.26	1,125.59	1,081.29	44.30	25.406	
12,600.00	12,380.81	11,918.77	11,598.50	19.13	19.86	46.76	-907.64	-342.89	1,141.19	1,095.84	45.34	25.167	
12,700.00	12,402.22	11,950.00	11,601.54	19.96	20.16	45.95	-938.72	-342.61	1,150.11	1,103.91	46.19	24.898	
12,800.00	12,407.10	12,022.34	11,603.13	20.85	20.90	45.74	-1,011.02	-341.95	1,151.97	1,104.95	47.02	24.499	
12,900.00	12,407.63	12,122.34	11,603.66	21.80	21.96	45.74	-1,111.01	-341.04	1,151.97	1,103.99	47.98	24.010	
13,000.00	12,408.15	12,222.34	11,604.18	22.78	23.05	45.74	-1,211.01	-340.13	1,151.97	1,102.97	49.01	23.507	
13,100.00	12,408.68	12,322.34	11,604.71	23.81	24.17	45.74	-1,311.00	-339.22	1,151.97	1,101.88	50.09	22.996	
13,200.00	12,409.20	12,422.34	11,605.23	24.86	25.31	45.74	-1,411.00	-338.32	1,151.97	1,100.73	51.24	22.481	
13,300.00	12,409.73	12,522.34	11,605.76	25.94	26.48	45.74	-1,510.99	-337.41	1,151.97	1,099.53	52.44	21.965	
13,400.00	12,410.25	12,622.34	11,606.28	27.05	27.66	45.74	-1,610.99	-336.50	1,151.97	1,098.27	53.70	21.452	
13,500.00	12,410.78	12,722.34	11,606.81	28.17	28.86	45.74	-1,710.98	-335.59	1,151.97	1,096.97	55.00	20.944	
13,600.00	12,411.30	12,822.34	11,607.33	29.32	30.07	45.74	-1,810.98	-334.68	1,151.97	1,095.62	56.35	20.443	
13,700.00	12,411.83	12,922.34	11,607.86	30.48	31.30	45.74	-1,910.97	-333.77	1,151.97	1,094.23	57.74	19.951	
13,800.00	12,412.35	13,022.34	11,608.39	31.66	32.54	45.74	-2,010.96	-332.86	1,151.97	1,092.80	59.17	19.469	
13,900.00	12,412.88	13,122.34	11,608.91	32.86	33.79	45.74	-2,110.96	-331.95	1,151.97	1,091.33	60.64	18.998	
14,000.00	12,413.40	13,222.34	11,609.44	34.06	35.04	45.74	-2,210.95	-331.04	1,151.97	1,089.83	62.13	18.540	
14,100.00	12,413.93	13,322.34	11,609.96	35.28	36.31	45.74	-2,310.95	-330.14	1,151.97	1,088.30	63.66	18.094	
14,200.00	12,414.45	13,422.34	11,610.49	36.51	37.58	45.74	-2,410.94	-329.23	1,151.97	1,086.74	65.22	17.662	
14,300.00	12,414.98	13,522.34	11,611.01	37.74	38.86	45.74	-2,510.94	-328.32	1,151.97	1,085.16	66.81	17.243	
14,400.00	12,415.50	13,622.34	11,611.54	38.99	40.14	45.74	-2,610.93	-327.41	1,151.97	1,083.55	68.42	16.836	
14,500.00	12,416.03	13,722.34	11,612.06	40.24	41.43	45.74	-2,710.93	-326.50	1,151.97	1,081.91	70.06	16.443	
14,600.00	12,416.55	13,822.34	11,612.59	41.50	42.73	45.74	-2,810.92	-325.59	1,151.97	1,080.25	71.71	16.064	
14,700.00	12,417.08	13,922.34	11,613.11	42.77	44.03	45.74	-2,910.91	-324.68	1,151.97	1,078.58	73.39	15.696	
14,800.00	12,417.60	14,022.34	11,613.64	44.04	45.33	45.74	-3,010.91	-323.77	1,151.97	1,076.88	75.09	15.342	
14,900.00	12,418.13	14,122.34	11,614.16	45.32	46.64	45.74	-3,110.90	-322.86	1,151.97	1,075.17	76.80	14.999	
15,000.00	12,418.65	14,222.34	11,614.69	46.60	47.95	45.74	-3,210.90	-321.95	1,151.97	1,073.43	78.53	14.669	
15,100.00	12,419.18	14,322.34	11,615.21	47.89	49.26	45.74	-3,310.89	-321.05	1,151.97	1,071.69	80.28	14.350	
15,200.00	12,419.70	14,422.34	11,615.74	49.18	50.57	45.74	-3,410.89	-320.14	1,151.97	1,069.93	82.04	14.042	
15,300.00	12,420.23	14,522.34	11,616.26	50.48	51.89	45.74	-3,510.88	-319.23	1,151.97	1,068.15	83.81	13.744	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program:		0-MWD+HRGM+SAG+FDIR (rev.5)		Rule Assigned:		Offset Site Error:		0.00 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)
15,400.00	12,420.75	14,622.34	11,616.79	51.78	53.22	45.74	-3,610.88	-318.32	1,151.96
15,500.00	12,421.28	14,722.34	11,617.31	53.08	54.54	45.74	-3,710.87	-317.41	1,151.96
15,600.00	12,421.80	14,822.34	11,617.84	54.38	55.87	45.74	-3,810.87	-316.50	1,151.96
15,700.00	12,422.33	14,922.34	11,618.36	55.69	57.19	45.74	-3,910.86	-315.59	1,151.96
15,800.00	12,422.85	15,022.34	11,618.89	57.00	58.52	45.74	-4,010.85	-314.68	1,151.96
15,900.00	12,423.38	15,122.34	11,619.41	58.32	59.86	45.74	-4,110.85	-313.77	1,151.96
16,000.00	12,423.90	15,222.34	11,619.94	59.64	61.19	45.74	-4,210.84	-312.87	1,151.96
16,100.00	12,424.43	15,322.34	11,620.46	60.95	62.52	45.74	-4,310.84	-311.96	1,151.96
16,200.00	12,424.95	15,422.34	11,620.99	62.28	63.86	45.74	-4,410.83	-311.05	1,151.96
16,300.00	12,425.48	15,522.34	11,621.51	63.60	65.20	45.74	-4,510.83	-310.14	1,151.96
16,400.00	12,426.00	15,622.34	11,622.04	64.92	66.54	45.74	-4,610.82	-309.23	1,151.96
16,500.00	12,426.53	15,722.34	11,622.56	66.25	67.88	45.74	-4,710.82	-308.32	1,151.96
16,600.00	12,427.05	15,822.34	11,623.09	67.58	69.22	45.74	-4,810.81	-307.41	1,151.96
16,700.00	12,427.58	15,922.34	11,623.61	68.91	70.56	45.74	-4,910.80	-306.50	1,151.96
16,800.00	12,428.10	16,022.34	11,624.14	70.24	71.90	45.74	-5,010.80	-305.59	1,151.96
16,900.00	12,428.63	16,122.34	11,624.66	71.57	73.25	45.74	-5,110.79	-304.69	1,151.96
17,000.00	12,429.15	16,222.34	11,625.19	72.91	74.59	45.74	-5,210.79	-303.78	1,151.96
17,100.00	12,429.68	16,322.34	11,625.71	74.24	75.94	45.74	-5,310.78	-302.87	1,151.96
17,200.00	12,430.20	16,422.34	11,626.24	75.58	77.29	45.74	-5,410.78	-301.96	1,151.96
17,300.00	12,430.73	16,522.34	11,626.76	76.92	78.63	45.74	-5,510.77	-301.05	1,151.96
17,400.00	12,431.25	16,622.34	11,627.29	78.26	79.98	45.74	-5,610.77	-300.14	1,151.96
17,500.00	12,431.78	16,722.34	11,627.81	79.60	81.33	45.74	-5,710.76	-299.23	1,151.96
17,600.00	12,432.30	16,822.34	11,628.34	80.94	82.68	45.74	-5,810.75	-298.32	1,151.96
17,700.00	12,432.83	16,922.34	11,628.86	82.28	84.03	45.74	-5,910.75	-297.41	1,151.96
17,800.00	12,433.35	17,022.34	11,629.39	83.62	85.38	45.74	-6,010.74	-296.51	1,151.96
17,900.00	12,433.88	17,122.34	11,629.91	84.96	86.73	45.74	-6,110.74	-295.60	1,151.96
18,000.00	12,434.40	17,222.34	11,630.44	86.31	88.09	45.74	-6,210.73	-294.69	1,151.96
18,100.00	12,434.93	17,322.34	11,630.96	87.65	89.44	45.74	-6,310.73	-293.78	1,151.96
18,200.00	12,435.45	17,422.34	11,631.49	89.00	90.79	45.74	-6,410.72	-292.87	1,151.96
18,300.00	12,435.98	17,522.34	11,632.01	90.35	92.15	45.74	-6,510.72	-291.96	1,151.96
18,400.00	12,436.50	17,622.34	11,632.54	91.69	93.50	45.74	-6,610.71	-291.05	1,151.96
18,500.00	12,437.03	17,722.34	11,633.06	93.04	94.85	45.74	-6,710.71	-290.14	1,151.96
18,600.00	12,437.55	17,822.34	11,633.59	94.39	96.21	45.74	-6,810.70	-289.23	1,151.96
18,700.00	12,438.08	17,922.34	11,634.11	95.74	97.56	45.74	-6,910.69	-288.33	1,151.96
18,800.00	12,438.60	18,022.34	11,634.64	97.09	98.92	45.74	-7,010.69	-287.42	1,151.95
18,900.00	12,439.13	18,122.34	11,635.16	98.44	100.28	45.74	-7,110.68	-286.51	1,151.95
19,000.00	12,439.65	18,222.34	11,635.69	99.79	101.63	45.74	-7,210.68	-285.60	1,151.95
19,100.00	12,440.17	18,322.34	11,636.22	101.14	102.99	45.74	-7,310.67	-284.69	1,151.95
19,200.00	12,440.70	18,422.34	11,636.74	102.49	104.35	45.74	-7,410.67	-283.78	1,151.95
19,300.00	12,441.22	18,522.34	11,637.27	103.84	105.70	45.74	-7,510.66	-282.87	1,151.95
19,400.00	12,441.75	18,622.34	11,637.79	105.20	107.06	45.74	-7,610.66	-281.96	1,151.95
19,500.00	12,442.27	18,722.34	11,638.32	106.55	108.42	45.74	-7,710.65	-281.05	1,151.95
19,600.00	12,442.80	18,822.34	11,638.84	107.90	109.78	45.74	-7,810.64	-280.14	1,151.95
19,700.00	12,443.32	18,922.34	11,639.37	109.26	111.14	45.74	-7,910.64	-279.24	1,151.95
19,800.00	12,443.85	19,022.34	11,639.89	110.61	112.50	45.74	-8,010.63	-278.33	1,151.95
19,900.00	12,444.37	19,122.34	11,640.42	111.97	113.86	45.74	-8,110.63	-277.42	1,151.95
20,000.00	12,444.90	19,222.34	11,640.94	113.32	115.21	45.74	-8,210.62	-276.51	1,151.95
20,100.00	12,445.42	19,322.34	11,641.47	114.68	116.57	45.74	-8,310.62	-275.60	1,151.95
20,200.00	12,445.95	19,422.34	11,641.99	116.03	117.93	45.74	-8,410.61	-274.69	1,151.95
20,300.00	12,446.47	19,522.34	11,642.52	117.39	119.29	45.74	-8,510.61	-273.78	1,151.95
20,400.00	12,447.00	19,622.34	11,643.04	118.74	120.65	45.74	-8,610.60	-272.87	1,151.95
20,500.00	12,447.52	19,722.34	11,643.57	120.10	122.02	45.74	-8,710.60	-271.96	1,151.95

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

8/18/2025 4:11:19PM

Page 33 of 74

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

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

Offset Site Error: 0.00 usft

Offset Well Error: 0.50 usft

Reference		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
20,600.00	12,448.05	19,822.34	11,644.09	121.46	123.38	45.74	-8,810.59	-271.06	1,151.95	965.45	186.50	6.177	
20,700.00	12,448.57	19,922.34	11,644.62	122.81	124.74	45.74	-8,910.58	-270.15	1,151.95	963.45	188.50	6.111	
20,800.00	12,449.10	20,022.34	11,645.14	124.17	126.10	45.74	-9,010.58	-269.24	1,151.95	961.44	190.51	6.047	
20,900.00	12,449.62	20,122.34	11,645.67	125.53	127.46	45.74	-9,110.57	-268.33	1,151.95	959.43	192.52	5.983	
21,000.00	12,450.15	20,222.34	11,646.19	126.89	128.82	45.74	-9,210.57	-267.42	1,151.95	957.41	194.53	5.922	
21,100.00	12,450.67	20,322.34	11,646.72	128.24	130.18	45.74	-9,310.56	-266.51	1,151.95	955.40	196.55	5.861	
21,200.00	12,451.20	20,422.34	11,647.24	129.60	131.54	45.74	-9,410.56	-265.60	1,151.95	953.39	198.56	5.802	
21,300.00	12,451.72	20,522.34	11,647.77	130.96	132.91	45.74	-9,510.55	-264.69	1,151.95	951.37	200.57	5.743	
21,400.00	12,452.25	20,622.34	11,648.29	132.32	134.27	45.74	-9,610.55	-263.78	1,151.95	949.36	202.59	5.686	
21,500.00	12,452.77	20,722.34	11,648.82	133.68	135.63	45.74	-9,710.54	-262.88	1,151.95	947.34	204.61	5.630	
21,600.00	12,453.30	20,822.34	11,649.34	135.04	136.99	45.74	-9,810.53	-261.97	1,151.95	945.32	206.62	5.575	
21,700.00	12,453.82	20,922.34	11,649.87	136.40	138.35	45.74	-9,910.53	-261.06	1,151.95	943.31	208.64	5.521	
21,800.00	12,454.35	21,022.34	11,650.39	137.76	139.72	45.74	-10,010.52	-260.15	1,151.95	941.29	210.66	5.468	
21,900.00	12,454.87	21,122.34	11,650.92	139.12	141.08	45.74	-10,110.52	-259.24	1,151.95	939.27	212.68	5.416	
22,000.00	12,455.40	21,222.34	11,651.44	140.48	142.44	45.74	-10,210.51	-258.33	1,151.95	937.25	214.70	5.365	
22,100.00	12,455.92	21,322.34	11,651.97	141.84	143.81	45.74	-10,310.51	-257.42	1,151.95	935.23	216.72	5.315	
22,200.00	12,456.45	21,422.34	11,652.49	143.20	145.17	45.74	-10,410.50	-256.51	1,151.95	933.20	218.74	5.266	
22,300.00	12,456.97	21,522.34	11,653.02	144.56	146.53	45.74	-10,510.50	-255.60	1,151.94	931.18	220.76	5.218	
22,400.00	12,457.50	21,622.34	11,653.54	145.92	147.90	45.74	-10,610.49	-254.70	1,151.94	929.16	222.79	5.171	
22,500.00	12,458.02	21,722.34	11,654.07	147.28	149.26	45.74	-10,710.49	-253.79	1,151.94	927.13	224.81	5.124	
22,600.00	12,458.55	21,822.34	11,654.59	148.64	150.62	45.74	-10,810.48	-252.88	1,151.94	925.11	226.84	5.078	
22,696.02	12,459.05	21,918.35	11,655.10	149.81	151.93	45.74	-10,906.49	-252.00	1,151.94	923.30	228.65	5.038	
22,700.00	12,459.07	21,918.86	11,655.10	149.86	151.94	45.74	-10,907.00	-252.00	1,151.95	923.27	228.68	5.037	
22,705.25	12,459.10	21,918.86	11,655.10	149.93	151.94	45.74	-10,907.00	-252.00	1,151.98	923.26	228.72	5.037	SF

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	
												Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.50	0.50	-135.00	-25.00	-25.00	35.36				
100.00	100.00	100.00	100.00	0.98	0.98	-135.00	-25.00	-25.00	35.36	33.39	1.96	18.018	
200.00	200.00	200.00	200.00	1.56	1.56	-135.00	-25.00	-25.00	35.36	32.23	3.12	11.324	
300.00	300.00	300.00	300.00	1.98	1.98	-135.00	-25.00	-25.00	35.36	31.39	3.96	8.923	CC
400.00	399.99	400.08	400.07	2.41	2.41	114.80	-25.84	-24.00	35.79	31.13	4.66	7.679	ES
500.00	499.91	500.14	500.05	2.77	2.77	114.24	-28.37	-20.98	37.11	31.85	5.26	7.053	
600.00	599.77	600.17	599.86	3.04	3.10	111.65	-32.58	-15.97	38.82	33.02	5.79	6.699	
700.00	699.63	700.00	699.27	3.29	3.41	105.60	-38.45	-8.97	40.71	34.42	6.29	6.473	
800.00	799.50	799.62	798.20	3.53	3.70	96.79	-45.97	0.00	43.54	36.76	6.77	6.427	
900.00	899.36	899.11	896.74	3.76	3.83	86.94	-54.78	10.49	48.02	40.86	7.16	6.711	
1,000.00	999.22	998.69	995.35	3.98	4.05	78.82	-63.69	21.11	53.75	46.10	7.64	7.031	
1,100.00	1,099.09	1,098.26	1,093.95	4.20	4.28	72.36	-72.59	31.72	60.34	52.22	8.12	7.432	
1,200.00	1,198.95	1,197.84	1,192.56	4.41	4.51	67.21	-81.50	42.34	67.55	58.96	8.59	7.861	
1,300.00	1,298.81	1,297.59	1,291.23	4.62	4.72	62.23	-90.17	54.05	75.09	66.04	9.04	8.302	
1,400.00	1,398.68	1,397.02	1,389.32	4.82	4.94	56.41	-98.21	68.23	83.07	73.57	9.50	8.741	
1,500.00	1,498.54	1,495.99	1,486.61	5.03	5.16	50.07	-105.62	84.81	92.03	82.07	9.97	9.235	
1,600.00	1,598.34	1,594.52	1,583.06	5.24	5.39	32.39	-112.40	103.77	101.24	90.81	10.44	9.702	
1,700.00	1,697.95	1,693.43	1,679.57	5.47	5.57	20.33	-118.80	124.43	109.49	98.61	10.88	10.064	
1,800.00	1,797.32	1,792.65	1,776.38	5.69	5.78	11.49	-125.21	145.21	116.21	104.85	11.35	10.234	
1,900.00	1,896.41	1,892.01	1,873.33	5.83	6.02	5.23	-131.62	166.01	121.44	109.72	11.73	10.357	
2,000.00	1,995.43	1,991.39	1,970.29	6.02	6.28	0.81	-138.04	186.82	127.04	114.88	12.17	10.443	
2,100.00	2,094.46	2,090.77	2,067.26	6.22	6.56	-3.22	-144.46	207.62	133.33	120.74	12.59	10.588	
2,200.00	2,193.49	2,190.15	2,164.23	6.42	6.84	-6.87	-150.88	228.43	140.22	127.20	13.02	10.772	
2,300.00	2,292.52	2,289.54	2,261.19	6.62	7.12	-10.16	-157.29	249.24	147.63	134.19	13.44	10.985	
2,400.00	2,391.54	2,388.92	2,358.16	6.82	7.41	-13.14	-163.71	270.05	155.48	141.62	13.86	11.218	
2,500.00	2,490.57	2,488.30	2,455.12	7.01	7.69	-15.83	-170.13	290.85	163.70	149.43	14.28	11.465	
2,600.00	2,589.60	2,587.68	2,552.09	7.21	7.98	-18.25	-176.55	311.66	172.26	157.56	14.70	11.720	
2,700.00	2,688.63	2,687.06	2,649.05	7.41	8.27	-20.44	-182.96	332.47	181.09	165.97	15.12	11.978	
2,800.00	2,787.65	2,786.44	2,746.02	7.61	8.56	-22.43	-189.38	353.27	190.16	174.62	15.54	12.237	
2,900.00	2,886.68	2,885.82	2,842.99	7.81	8.85	-24.24	-195.80	374.08	199.43	183.47	15.96	12.495	
3,000.00	2,985.71	2,985.20	2,939.95	8.01	9.14	-25.88	-202.22	394.89	208.89	192.50	16.39	12.748	
3,100.00	3,084.74	3,084.58	3,036.92	8.21	9.43	-27.38	-208.64	415.70	218.50	201.69	16.81	12.997	
3,200.00	3,183.76	3,183.96	3,133.88	8.40	9.73	-28.75	-215.05	436.50	228.25	211.01	17.24	13.241	
3,300.00	3,282.79	3,283.34	3,230.85	8.60	10.02	-30.02	-221.47	457.31	238.12	220.45	17.67	13.478	
3,400.00	3,381.82	3,382.72	3,327.81	8.80	10.32	-31.18	-227.89	478.12	248.09	230.00	18.10	13.708	
3,500.00	3,480.85	3,482.10	3,424.78	9.00	10.61	-32.25	-234.31	498.93	258.16	239.63	18.53	13.932	
3,600.00	3,579.87	3,581.48	3,521.75	9.20	10.91	-33.24	-240.72	519.73	268.31	249.35	18.96	14.149	
3,700.00	3,678.90	3,680.86	3,618.71	9.40	11.20	-34.15	-247.14	540.54	278.53	259.14	19.40	14.359	
3,800.00	3,777.93	3,780.24	3,715.68	9.60	11.50	-35.01	-253.56	561.35	288.82	268.99	19.83	14.562	
3,900.00	3,876.96	3,879.62	3,812.64	9.80	11.80	-35.80	-259.98	582.15	299.17	278.90	20.27	14.759	
4,000.00	3,975.98	3,979.00	3,909.61	10.00	12.10	-36.54	-266.40	602.96	309.57	288.86	20.71	14.949	
4,100.00	4,075.01	4,078.38	4,006.57	10.20	12.39	-37.23	-272.81	623.77	320.02	298.87	21.15	15.133	
4,200.00	4,174.04	4,177.76	4,103.54	10.40	12.69	-37.88	-279.23	644.58	330.51	308.93	21.59	15.310	
4,300.00	4,273.07	4,277.14	4,200.51	10.60	12.99	-38.49	-285.65	665.38	341.05	319.02	22.03	15.482	
4,400.00	4,372.09	4,376.52	4,297.47	10.80	13.29	-39.06	-292.07	686.19	351.61	329.14	22.47	15.647	
4,500.00	4,471.12	4,475.91	4,394.44	11.00	13.59	-39.60	-298.48	707.00	362.22	339.30	22.91	15.808	
4,600.00	4,570.15	4,575.29	4,491.40	11.20	13.89	-40.11	-304.90	727.80	372.85	349.49	23.36	15.963	
4,700.00	4,669.18	4,674.67	4,588.37	11.40	14.19	-40.59	-311.32	748.61	383.50	359.70	23.80	16.113	
4,800.00	4,768.21	4,774.05	4,685.33	11.60	14.49	-41.05	-317.74	769.42	394.19	369.94	24.25	16.257	
4,900.00	4,867.23	4,873.43	4,782.30	11.80	14.79	-41.48	-324.16	790.23	404.89	380.20	24.69	16.398	
5,000.00	4,966.26	4,972.81	4,879.27	12.00	15.09	-41.88	-330.57	811.03	415.62	390.48	25.14	16.534	
5,100.00	5,065.29	5,072.19	4,976.23	12.20	15.39	-42.27	-336.99	831.84	426.37	400.78	25.58	16.665	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	
												Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,164.32	5,171.57	5,073.20	12.40	15.69	-42.64	-343.41	852.65	437.14	411.10	26.03	16.792	
5,300.00	5,263.34	5,270.95	5,170.16	12.60	15.99	-42.99	-349.83	873.45	447.92	421.44	26.48	16.916	
5,400.00	5,362.37	5,370.33	5,267.13	12.81	16.29	-43.32	-356.24	894.26	458.72	431.79	26.93	17.035	
5,500.00	5,461.46	5,469.68	5,364.07	12.97	16.59	-43.67	-362.66	915.06	469.85	442.51	27.34	17.184	
5,600.00	5,560.84	5,568.85	5,460.82	13.17	16.88	-43.88	-369.06	935.82	482.71	454.94	27.76	17.386	
5,700.00	5,660.47	5,681.29	5,570.87	13.36	17.20	-43.91	-375.87	957.88	496.12	467.89	28.23	17.576	
5,800.00	5,760.30	5,794.60	5,682.40	13.54	17.49	-43.83	-381.76	976.97	508.62	479.96	28.66	17.745	
5,900.00	5,860.24	5,908.43	5,794.99	13.69	17.74	-43.64	-386.69	992.96	520.22	491.17	29.05	17.908	
6,000.00	5,960.24	6,022.75	5,908.52	13.75	17.96	88.97	-390.64	1,005.78	530.84	501.53	29.31	18.113	
6,100.00	6,060.24	6,137.69	6,023.01	13.78	18.14	89.31	-393.61	1,015.39	539.17	509.64	29.53	18.261	
6,200.00	6,160.24	6,253.13	6,138.25	13.82	18.28	89.52	-395.56	1,021.73	544.64	514.92	29.71	18.329	
6,300.00	6,260.24	6,368.87	6,253.94	13.86	18.39	89.62	-396.49	1,024.73	547.23	517.37	29.87	18.323	
6,400.00	6,360.24	6,475.16	6,360.24	13.90	18.44	89.63	-396.57	1,025.00	547.46	517.52	29.94	18.283	
6,500.00	6,460.24	6,575.16	6,460.24	13.94	18.47	89.63	-396.57	1,025.00	547.46	517.44	30.02	18.238	
6,600.00	6,560.24	6,675.16	6,560.24	13.98	18.51	89.63	-396.57	1,025.00	547.46	517.37	30.09	18.191	
6,700.00	6,660.24	6,775.16	6,660.24	14.02	18.55	89.63	-396.57	1,025.00	547.46	517.29	30.17	18.144	
6,800.00	6,760.24	6,875.16	6,760.24	14.06	18.59	89.63	-396.57	1,025.00	547.46	517.21	30.25	18.097	
6,900.00	6,860.24	6,975.16	6,860.24	14.10	18.63	89.63	-396.57	1,025.00	547.46	517.13	30.33	18.050	
7,000.00	6,960.24	7,075.16	6,960.24	14.14	18.67	89.63	-396.57	1,025.00	547.46	517.05	30.41	18.003	
7,100.00	7,060.24	7,175.16	7,060.24	14.18	18.71	89.63	-396.57	1,025.00	547.46	516.97	30.49	17.955	
7,200.00	7,160.24	7,275.16	7,160.24	14.22	18.75	89.63	-396.57	1,025.00	547.46	516.89	30.57	17.907	
7,300.00	7,260.24	7,375.16	7,260.24	14.26	18.79	89.63	-396.57	1,025.00	547.46	516.81	30.65	17.860	
7,400.00	7,360.24	7,475.16	7,360.24	14.30	18.83	89.63	-396.57	1,025.00	547.46	516.73	30.74	17.812	
7,500.00	7,460.24	7,575.16	7,460.24	14.35	18.88	89.63	-396.57	1,025.00	547.46	516.64	30.82	17.764	
7,600.00	7,560.24	7,675.16	7,560.24	14.39	18.92	89.63	-396.57	1,025.00	547.46	516.56	30.90	17.715	
7,700.00	7,660.24	7,775.16	7,660.24	14.43	18.96	89.63	-396.57	1,025.00	547.46	516.47	30.99	17.667	
7,800.00	7,760.24	7,875.16	7,760.24	14.48	19.00	89.63	-396.57	1,025.00	547.46	516.39	31.07	17.619	
7,900.00	7,860.24	7,975.16	7,860.24	14.52	19.04	89.63	-396.57	1,025.00	547.46	516.30	31.16	17.570	
8,000.00	7,960.24	8,075.16	7,960.24	14.57	19.09	89.63	-396.57	1,025.00	547.46	516.22	31.24	17.522	
8,100.00	8,060.24	8,175.16	8,060.24	14.61	19.13	89.63	-396.57	1,025.00	547.46	516.13	31.33	17.473	
8,200.00	8,160.24	8,275.16	8,160.24	14.65	19.17	89.63	-396.57	1,025.00	547.46	516.04	31.42	17.425	
8,300.00	8,260.24	8,375.16	8,260.24	14.70	19.22	89.63	-396.57	1,025.00	547.46	515.95	31.51	17.376	
8,400.00	8,360.24	8,475.16	8,360.24	14.75	19.26	89.63	-396.57	1,025.00	547.46	515.87	31.60	17.327	
8,500.00	8,460.24	8,575.16	8,460.24	14.79	19.31	89.63	-396.57	1,025.00	547.46	515.78	31.69	17.278	
8,600.00	8,560.24	8,675.16	8,560.24	14.84	19.35	89.63	-396.57	1,025.00	547.46	515.69	31.77	17.229	
8,700.00	8,660.24	8,775.16	8,660.24	14.88	19.39	89.63	-396.57	1,025.00	547.46	515.60	31.87	17.180	
8,800.00	8,760.24	8,875.16	8,760.24	14.93	19.44	89.63	-396.57	1,025.00	547.46	515.51	31.96	17.131	
8,900.00	8,860.24	8,975.16	8,860.24	14.98	19.48	89.63	-396.57	1,025.00	547.46	515.41	32.05	17.082	
9,000.00	8,960.24	9,075.16	8,960.24	15.03	19.53	89.63	-396.57	1,025.00	547.46	515.32	32.14	17.033	
9,100.00	9,060.24	9,175.16	9,060.24	15.07	19.57	89.63	-396.57	1,025.00	547.46	515.23	32.23	16.984	
9,200.00	9,160.24	9,275.16	9,160.24	15.12	19.62	89.63	-396.57	1,025.00	547.46	515.14	32.33	16.935	
9,300.00	9,260.24	9,375.16	9,260.24	15.17	19.67	89.63	-396.57	1,025.00	547.46	515.04	32.42	16.886	
9,400.00	9,360.24	9,475.16	9,360.24	15.22	19.71	89.63	-396.57	1,025.00	547.46	514.95	32.51	16.837	
9,500.00	9,460.24	9,575.16	9,460.24	15.27	19.76	89.63	-396.57	1,025.00	547.46	514.85	32.61	16.788	
9,600.00	9,560.24	9,675.16	9,560.24	15.32	19.81	89.63	-396.57	1,025.00	547.46	514.76	32.71	16.739	
9,700.00	9,660.24	9,775.16	9,660.24	15.37	19.85	89.63	-396.57	1,025.00	547.46	514.66	32.80	16.690	
9,800.00	9,760.24	9,875.16	9,760.24	15.42	19.90	89.63	-396.57	1,025.00	547.46	514.56	32.90	16.641	
9,900.00	9,860.24	9,975.16	9,860.24	15.47	19.95	89.63	-396.57	1,025.00	547.46	514.47	33.00	16.592	
10,000.00	9,960.24	10,075.16	9,960.24	15.52	20.00	89.63	-396.57	1,025.00	547.46	514.37	33.09	16.543	
10,100.00	10,060.24	10,175.16	10,060.24	15.57	20.04	89.63	-396.57	1,025.00	547.46	514.27	33.19	16.494	
10,200.00	10,160.24	10,275.16	10,160.24	15.62	20.09	89.63	-396.57	1,025.00	547.46	514.17	33.29	16.445	
10,300.00	10,260.24	10,375.16	10,260.24	15.67	20.14	89.63	-396.57	1,025.00	547.46	514.07	33.39	16.397	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)												Offset Site Error:	0.00 usft
Rule Assigned:												Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,400.00	10,360.24	10,475.16	10,360.24	15.72	20.19	89.63	-396.57	1,025.00	547.46	513.97	33.49	16.348	
10,500.00	10,460.24	10,575.16	10,460.24	15.77	20.24	89.63	-396.57	1,025.00	547.46	513.87	33.59	16.299	
10,600.00	10,560.24	10,675.16	10,560.24	15.82	20.29	89.63	-396.57	1,025.00	547.46	513.77	33.69	16.250	
10,700.00	10,660.24	10,775.16	10,660.24	15.88	20.34	89.63	-396.57	1,025.00	547.46	513.67	33.79	16.202	
10,800.00	10,760.24	10,875.16	10,760.24	15.93	20.38	89.63	-396.57	1,025.00	547.46	513.57	33.89	16.153	
10,900.00	10,860.24	10,975.16	10,860.24	15.98	20.43	89.63	-396.57	1,025.00	547.46	513.47	33.99	16.105	
11,000.00	10,960.24	11,075.16	10,960.24	16.04	20.48	89.63	-396.57	1,025.00	547.46	513.37	34.10	16.056	
11,100.00	11,060.24	11,179.69	11,060.60	16.09	20.56	90.06	-400.68	1,024.72	547.19	513.02	34.17	16.016	
11,200.00	11,160.24	11,282.29	11,164.82	16.14	20.71	92.29	-421.95	1,023.29	546.20	511.97	34.23	15.959	
11,246.87	11,207.11	11,327.13	11,207.11	16.17	20.80	93.85	-436.79	1,022.29	545.98	511.72	34.26	15.937	
11,300.00	11,260.24	11,374.78	11,250.62	16.20	20.89	95.88	-456.12	1,020.99	546.40	512.10	34.31	15.926	
11,400.00	11,360.24	11,454.58	11,319.42	16.25	21.08	100.09	-496.35	1,018.29	550.74	516.26	34.48	15.971	
11,500.00	11,460.24	11,521.67	11,372.45	16.30	21.27	104.30	-537.28	1,015.53	562.08	527.18	34.90	16.104	
11,600.00	11,560.24	11,577.42	11,412.64	16.36	21.44	108.17	-575.81	1,012.94	582.49	546.81	35.68	16.325	
11,700.00	11,660.24	11,623.67	11,442.99	16.41	21.61	111.55	-610.60	1,010.60	612.89	576.06	36.83	16.640	
11,800.00	11,760.24	11,662.17	11,466.05	16.47	21.76	114.43	-641.36	1,008.53	653.20	614.95	38.26	17.074	
11,900.00	11,860.23	11,700.00	11,486.64	16.51	21.92	-60.82	-673.01	1,006.40	702.41	662.68	39.73	17.679	
12,000.00	11,959.22	11,727.83	11,500.43	16.62	22.05	-53.99	-697.13	1,004.77	753.98	712.61	41.37	18.223	
12,100.00	12,054.40	11,763.09	11,516.19	16.77	22.22	-47.77	-728.60	1,002.66	803.66	760.74	42.92	18.725	
12,200.00	12,142.89	11,800.00	11,530.57	16.94	22.41	-42.69	-762.51	1,000.37	849.35	804.97	44.39	19.136	
12,300.00	12,222.00	11,850.00	11,546.51	17.27	22.70	-38.40	-809.78	997.19	889.72	844.04	45.67	19.480	
12,400.00	12,289.31	11,876.91	11,553.36	17.78	22.86	-35.69	-835.73	995.45	923.05	876.02	47.03	19.627	
12,500.00	12,342.79	11,916.47	11,561.19	18.40	23.11	-33.50	-874.42	992.84	949.05	900.86	48.19	19.695	
12,600.00	12,380.81	11,950.00	11,565.72	19.13	23.33	-32.09	-907.56	990.61	966.96	917.72	49.25	19.634	
12,700.00	12,402.22	12,000.00	11,568.85	19.96	23.68	-31.16	-957.33	987.26	976.24	926.08	50.15	19.465	
12,800.00	12,407.10	12,069.38	11,569.27	20.85	24.21	-30.82	-1,026.60	983.26	976.20	925.33	50.88	19.187	
12,900.00	12,407.63	12,154.49	11,569.72	21.80	24.90	-30.65	-1,111.66	980.63	974.16	922.61	51.55	18.898	
13,000.00	12,408.15	12,242.05	11,570.18	22.78	25.66	-30.61	-1,199.22	980.52	973.62	921.38	52.23	18.639	
13,100.00	12,408.68	12,342.05	11,570.70	23.81	26.58	-30.61	-1,299.21	981.43	973.62	920.69	52.93	18.395	
13,200.00	12,409.20	12,442.05	11,571.23	24.86	27.53	-30.60	-1,399.21	982.33	973.61	919.95	53.66	18.143	
13,300.00	12,409.73	12,542.05	11,571.75	25.94	28.51	-30.60	-1,499.20	983.23	973.61	919.18	54.43	17.886	
13,400.00	12,410.25	12,642.05	11,572.28	27.05	29.52	-30.60	-1,599.19	984.13	973.60	918.37	55.24	17.625	
13,500.00	12,410.78	12,742.05	11,572.80	28.17	30.56	-30.60	-1,699.19	985.03	973.60	917.52	56.08	17.361	
13,600.00	12,411.30	12,842.05	11,573.33	29.32	31.62	-30.60	-1,799.18	985.93	973.60	916.65	56.95	17.095	
13,700.00	12,411.83	12,942.05	11,573.85	30.48	32.70	-30.60	-1,899.18	986.83	973.59	915.74	57.86	16.828	
13,800.00	12,412.35	13,042.05	11,574.38	31.66	33.80	-30.60	-1,999.17	987.74	973.59	914.80	58.79	16.561	
13,900.00	12,412.88	13,142.05	11,574.90	32.86	34.92	-30.60	-2,099.17	988.64	973.59	913.84	59.75	16.294	
14,000.00	12,413.40	13,242.05	11,575.43	34.06	36.05	-30.60	-2,199.16	989.54	973.58	912.84	60.74	16.029	
14,100.00	12,413.93	13,342.05	11,575.95	35.28	37.20	-30.60	-2,299.16	990.44	973.58	911.83	61.75	15.765	
14,200.00	12,414.45	13,442.05	11,576.48	36.51	38.36	-30.60	-2,399.15	991.34	973.58	910.78	62.79	15.505	
14,300.00	12,414.98	13,542.05	11,577.00	37.74	39.53	-30.60	-2,499.15	992.24	973.57	909.72	63.85	15.247	
14,400.00	12,415.50	13,642.05	11,577.53	38.99	40.72	-30.60	-2,599.14	993.15	973.57	908.63	64.94	14.992	
14,500.00	12,416.03	13,742.05	11,578.05	40.24	41.91	-30.60	-2,699.14	994.05	973.57	907.52	66.04	14.741	
14,600.00	12,416.55	13,842.05	11,578.57	41.50	43.12	-30.60	-2,799.13	994.95	973.56	906.40	67.17	14.495	
14,700.00	12,417.08	13,942.05	11,579.10	42.77	44.33	-30.60	-2,899.12	995.85	973.56	905.25	68.31	14.252	
14,800.00	12,417.60	14,042.05	11,579.62	44.04	45.56	-30.60	-2,999.12	996.75	973.56	904.08	69.47	14.014	
14,900.00	12,418.13	14,142.05	11,580.15	45.32	46.79	-30.60	-3,099.11	997.65	973.55	902.90	70.65	13.780	
15,000.00	12,418.65	14,242.05	11,580.67	46.60	48.02	-30.60	-3,199.11	998.55	973.55	901.70	71.84	13.551	
15,100.00	12,419.18	14,342.05	11,581.20	47.89	49.27	-30.60	-3,299.10	999.46	973.54	900.49	73.05	13.326	
15,200.00	12,419.70	14,442.05	11,581.72	49.18	50.52	-30.60	-3,399.10	1,000.36	973.54	899.26	74.28	13.106	
15,300.00	12,420.23	14,542.05	11,582.25	50.48	51.77	-30.60	-3,499.09	1,001.26	973.54	898.02	75.52	12.891	
15,400.00	12,420.75	14,642.05	11,582.77	51.78	53.04	-30.60	-3,599.09	1,002.16	973.53	896.76	76.77	12.681	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)							Rule Assigned:				Offset Well Error: 0.50 usft		
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		
15,500.00	12,421.28	14,742.05	11,583.30	53.08	54.30	-30.60	-3,699.08	1,003.06	973.53	895.50	78.04	12.475	
15,600.00	12,421.80	14,842.05	11,583.82	54.38	55.57	-30.60	-3,799.08	1,003.96	973.53	894.22	79.31	12.275	
15,700.00	12,422.33	14,942.05	11,584.35	55.69	56.85	-30.60	-3,899.07	1,004.86	973.52	892.92	80.60	12.078	
15,800.00	12,422.85	15,042.05	11,584.87	57.00	58.13	-30.60	-3,999.06	1,005.77	973.52	891.62	81.90	11.887	
15,900.00	12,423.38	15,142.05	11,585.40	58.32	59.41	-30.59	-4,099.06	1,006.67	973.52	890.31	83.21	11.700	
16,000.00	12,423.90	15,242.05	11,585.92	59.64	60.70	-30.59	-4,199.05	1,007.57	973.51	888.98	84.53	11.517	
16,100.00	12,424.43	15,342.05	11,586.45	60.95	61.99	-30.59	-4,299.05	1,008.47	973.51	887.65	85.86	11.339	
16,200.00	12,424.95	15,442.05	11,586.97	62.28	63.28	-30.59	-4,399.04	1,009.37	973.51	886.31	87.20	11.165	
16,300.00	12,425.48	15,542.05	11,587.50	63.60	64.57	-30.59	-4,499.04	1,010.27	973.50	884.96	88.54	10.995	
16,400.00	12,426.00	15,642.05	11,588.02	64.92	65.87	-30.59	-4,599.03	1,011.18	973.50	883.60	89.90	10.829	
16,500.00	12,426.53	15,742.05	11,588.55	66.25	67.18	-30.59	-4,699.03	1,012.08	973.50	882.23	91.26	10.667	
16,600.00	12,427.05	15,842.05	11,589.07	67.58	68.48	-30.59	-4,799.02	1,012.98	973.49	880.86	92.63	10.509	
16,700.00	12,427.58	15,942.05	11,589.60	68.91	69.79	-30.59	-4,899.02	1,013.88	973.49	879.48	94.01	10.355	
16,800.00	12,428.10	16,042.05	11,590.12	70.24	71.10	-30.59	-4,999.01	1,014.78	973.49	878.09	95.39	10.205	
16,900.00	12,428.63	16,142.05	11,590.64	71.57	72.41	-30.59	-5,099.00	1,015.68	973.48	876.70	96.79	10.058	
17,000.00	12,429.15	16,242.05	11,591.17	72.91	73.72	-30.59	-5,199.00	1,016.58	973.48	875.30	98.18	9.915	
17,100.00	12,429.68	16,342.05	11,591.69	74.24	75.03	-30.59	-5,298.99	1,017.49	973.47	873.89	99.59	9.775	
17,200.00	12,430.20	16,442.05	11,592.22	75.58	76.35	-30.59	-5,398.99	1,018.39	973.47	872.48	101.00	9.639	
17,300.00	12,430.73	16,542.05	11,592.74	76.92	77.67	-30.59	-5,498.98	1,019.29	973.47	871.06	102.41	9.506	
17,400.00	12,431.25	16,642.05	11,593.27	78.26	78.99	-30.59	-5,598.98	1,020.19	973.46	869.63	103.83	9.375	
17,500.00	12,431.78	16,742.05	11,593.79	79.60	80.31	-30.59	-5,698.97	1,021.09	973.46	868.20	105.26	9.249	
17,600.00	12,432.30	16,842.05	11,594.32	80.94	81.64	-30.59	-5,798.97	1,021.99	973.46	866.77	106.69	9.124	
17,700.00	12,432.83	16,942.05	11,594.84	82.28	82.96	-30.59	-5,898.96	1,022.90	973.45	865.33	108.12	9.003	
17,800.00	12,433.35	17,042.05	11,595.37	83.62	84.29	-30.59	-5,998.96	1,023.80	973.45	863.89	109.56	8.885	
17,900.00	12,433.88	17,142.05	11,595.89	84.96	85.61	-30.59	-6,098.95	1,024.70	973.45	862.44	111.00	8.769	
18,000.00	12,434.40	17,242.05	11,596.42	86.31	86.94	-30.59	-6,198.94	1,025.60	973.44	860.99	112.45	8.656	
18,100.00	12,434.93	17,342.05	11,596.94	87.65	88.27	-30.59	-6,298.94	1,026.50	973.44	859.54	113.90	8.546	
18,200.00	12,435.45	17,442.05	11,597.47	89.00	89.60	-30.59	-6,398.93	1,027.40	973.44	858.08	115.36	8.438	
18,300.00	12,435.98	17,542.05	11,597.99	90.35	90.94	-30.59	-6,498.93	1,028.30	973.43	856.61	116.82	8.333	
18,400.00	12,436.50	17,642.05	11,598.52	91.69	92.27	-30.59	-6,598.92	1,029.21	973.43	855.15	118.28	8.230	
18,500.00	12,437.03	17,742.05	11,599.04	93.04	93.60	-30.59	-6,698.92	1,030.11	973.43	853.68	119.75	8.129	
18,600.00	12,437.55	17,842.05	11,599.57	94.39	94.94	-30.58	-6,798.91	1,031.01	973.42	852.20	121.22	8.030	
18,700.00	12,438.08	17,942.05	11,600.09	95.74	96.28	-30.58	-6,898.91	1,031.91	973.42	850.73	122.69	7.934	
18,800.00	12,438.60	18,042.05	11,600.62	97.09	97.61	-30.58	-6,998.90	1,032.81	973.41	849.25	124.17	7.839	
18,900.00	12,439.13	18,142.05	11,601.14	98.44	98.95	-30.58	-7,098.90	1,033.71	973.41	847.76	125.65	7.747	
19,000.00	12,439.65	18,242.05	11,601.67	99.79	100.29	-30.58	-7,198.89	1,034.61	973.41	846.28	127.13	7.657	
19,100.00	12,440.17	18,342.05	11,602.19	101.14	101.63	-30.58	-7,298.88	1,035.52	973.40	844.79	128.61	7.568	
19,200.00	12,440.70	18,442.05	11,602.72	102.49	102.97	-30.58	-7,398.88	1,036.42	973.40	843.30	130.10	7.482	
19,300.00	12,441.22	18,542.05	11,603.24	103.84	104.31	-30.58	-7,498.87	1,037.32	973.40	841.80	131.59	7.397	
19,400.00	12,441.75	18,642.05	11,603.76	105.20	105.65	-30.58	-7,598.87	1,038.22	973.39	840.31	133.09	7.314	
19,500.00	12,442.27	18,742.05	11,604.29	106.55	107.00	-30.58	-7,698.86	1,039.12	973.39	838.81	134.58	7.233	
19,600.00	12,442.80	18,842.05	11,604.81	107.90	108.34	-30.58	-7,798.86	1,040.02	973.39	837.31	136.08	7.153	
19,700.00	12,443.32	18,942.05	11,605.34	109.26	109.68	-30.58	-7,898.85	1,040.93	973.38	835.81	137.58	7.075	
19,800.00	12,443.85	19,042.05	11,605.86	110.61	111.03	-30.58	-7,998.85	1,041.83	973.38	834.30	139.08	6.999	
19,900.00	12,444.37	19,142.05	11,606.39	111.97	112.37	-30.58	-8,098.84	1,042.73	973.38	832.79	140.58	6.924	
20,000.00	12,444.90	19,242.05	11,606.91	113.32	113.72	-30.58	-8,198.84	1,043.63	973.37	831.28	142.09	6.850	
20,100.00	12,445.42	19,342.05	11,607.44	114.68	115.06	-30.58	-8,298.83	1,044.53	973.37	829.77	143.60	6.778	
20,200.00	12,445.95	19,442.05	11,607.96	116.03	116.41	-30.58	-8,398.83	1,045.43	973.37	828.26	145.11	6.708	
20,300.00	12,446.47	19,542.05	11,608.49	117.39	117.76	-30.58	-8,498.82	1,046.33	973.36	826.74	146.62	6.639	
20,400.00	12,447.00	19,642.05	11,609.01	118.74	119.10	-30.58	-8,598.81	1,047.24	973.36	825.23	148.13	6.571	
20,500.00	12,447.52	19,742.05	11,609.54	120.10	120.45	-30.58	-8,698.81	1,048.14	973.36	823.71	149.65	6.504	
20,600.00	12,448.05	19,842.05	11,610.06	121.46	121.80	-30.58	-8,798.80	1,049.04	973.35	822.19	151.16	6.439	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)								Rule Assigned:				Offset Well Error:		0.50 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)		
20,700.00	12,448.57	19,942.05	11,610.59	122.81	123.15	-30.58	-8,898.80	1,049.94	973.35	820.67	152.68	6.375			
20,800.00	12,449.10	20,042.05	11,611.11	124.17	124.50	-30.58	-8,998.79	1,050.84	973.34	819.14	154.20	6.312			
20,900.00	12,449.62	20,142.05	11,611.64	125.53	125.85	-30.58	-9,098.79	1,051.74	973.34	817.62	155.72	6.250			
21,000.00	12,450.15	20,242.05	11,612.16	126.89	127.20	-30.58	-9,198.78	1,052.64	973.34	816.09	157.25	6.190			
21,100.00	12,450.67	20,342.05	11,612.69	128.24	128.55	-30.58	-9,298.78	1,053.55	973.33	814.56	158.77	6.130			
21,200.00	12,451.20	20,442.05	11,613.21	129.60	129.90	-30.58	-9,398.77	1,054.45	973.33	813.03	160.30	6.072			
21,300.00	12,451.72	20,542.05	11,613.74	130.96	131.25	-30.58	-9,498.77	1,055.35	973.33	811.50	161.83	6.015			
21,400.00	12,452.25	20,642.05	11,614.26	132.32	132.61	-30.57	-9,598.76	1,056.25	973.32	809.97	163.35	5.958			
21,500.00	12,452.77	20,742.05	11,614.79	133.68	133.96	-30.57	-9,698.75	1,057.15	973.32	808.44	164.88	5.903			
21,600.00	12,453.30	20,842.05	11,615.31	135.04	135.31	-30.57	-9,798.75	1,058.05	973.32	806.90	166.42	5.849			
21,700.00	12,453.82	20,942.05	11,615.83	136.40	136.66	-30.57	-9,898.74	1,058.96	973.31	805.36	167.95	5.795			
21,800.00	12,454.35	21,042.05	11,616.36	137.76	138.02	-30.57	-9,998.74	1,059.86	973.31	803.83	169.48	5.743			
21,900.00	12,454.87	21,142.05	11,616.88	139.12	139.37	-30.57	-10,098.73	1,060.76	973.31	802.29	171.02	5.691			
22,000.00	12,455.40	21,242.05	11,617.41	140.48	140.72	-30.57	-10,198.73	1,061.66	973.30	800.75	172.55	5.641			
22,100.00	12,455.92	21,342.05	11,617.93	141.84	142.08	-30.57	-10,298.72	1,062.56	973.30	799.21	174.09	5.591			
22,200.00	12,456.45	21,442.05	11,618.46	143.20	143.43	-30.57	-10,398.72	1,063.46	973.30	797.67	175.63	5.542			
22,300.00	12,456.97	21,542.05	11,618.98	144.56	144.79	-30.57	-10,498.71	1,064.36	973.29	796.12	177.17	5.494			
22,400.00	12,457.50	21,642.05	11,619.51	145.92	146.14	-30.57	-10,598.71	1,065.27	973.29	794.58	178.71	5.446			
22,500.00	12,458.02	21,742.05	11,620.03	147.28	147.50	-30.57	-10,698.70	1,066.17	973.28	793.04	180.25	5.400			
22,600.00	12,458.55	21,842.05	11,620.56	148.64	148.85	-30.57	-10,798.69	1,067.07	973.28	791.49	181.79	5.354			
22,700.00	12,459.07	21,942.05	11,621.08	149.86	150.21	-30.57	-10,898.69	1,067.97	973.28	790.10	183.18	5.313			
22,703.08	12,459.09	21,945.13	11,621.10	149.90	150.25	-30.57	-10,901.76	1,068.00	973.28	790.06	183.22	5.312			
22,705.25	12,459.10	21,945.36	11,621.10	149.93	150.25	-30.57	-10,902.00	1,068.00	973.28	790.01	183.27	5.311	SF		

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

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

Survey Program:		0-MWD+HRGM+SAG+FDIR (rev.5)		Rule Assigned:		Offset Site Error:		0.00 usft		Offset Well Error:		0.50 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	0.00	0.50	0.50	0.00	160.00	0.00	160.00				
100.00	100.00	101.00	100.00	0.98	0.99	0.00	160.00	0.00	160.00	158.03	1.97	81.315	
200.00	200.00	201.00	200.00	1.56	1.57	0.00	160.00	0.00	160.00	156.87	3.13	51.177	
300.00	300.00	301.00	300.00	1.98	1.98	0.00	160.00	0.00	160.00	156.03	3.97	40.345	
400.00	399.99	400.99	399.99	2.41	2.33	-110.43	160.00	0.00	160.45	155.79	4.67	34.384	
500.00	499.91	500.95	499.95	2.77	2.64	-111.72	160.00	0.00	161.87	156.59	5.28	30.664	
600.00	599.77	604.87	603.86	3.04	2.98	-113.68	158.65	-0.49	162.61	156.72	5.88	27.640	
700.00	699.63	708.65	707.54	3.29	3.29	-116.06	154.65	-1.95	161.08	154.65	6.43	25.068	
800.00	799.50	812.11	810.77	3.53	3.55	-118.96	148.02	-4.36	157.44	150.53	6.91	22.791	
900.00	899.36	912.36	910.64	3.76	3.68	-122.26	139.87	-7.33	152.62	145.36	7.26	21.031	
1,000.00	999.22	1,011.85	1,009.74	3.98	3.89	-125.75	131.72	-10.29	148.29	140.61	7.69	19.296	
1,100.00	1,099.09	1,111.33	1,108.85	4.20	4.10	-129.43	123.57	-13.26	144.55	136.44	8.10	17.841	
1,200.00	1,198.95	1,210.81	1,207.95	4.41	4.29	-133.28	115.43	-16.22	141.43	132.93	8.50	16.640	
1,300.00	1,298.81	1,309.87	1,306.61	4.62	4.41	-137.45	107.20	-19.60	139.08	130.27	8.81	15.782	
1,398.01	1,396.69	1,406.23	1,402.42	4.82	4.61	-142.51	98.59	-25.04	138.17	128.96	9.21	15.002	CC
1,400.00	1,398.68	1,408.18	1,404.36	4.82	4.62	-142.63	98.41	-25.18	138.17	128.95	9.22	14.989	ES
1,500.00	1,498.54	1,505.81	1,501.21	5.03	4.83	-148.73	89.03	-33.12	139.41	129.79	9.62	14.496	
1,600.00	1,598.34	1,602.59	1,596.94	5.24	5.05	-166.62	79.08	-43.36	144.76	134.73	10.03	14.433	
1,700.00	1,697.95	1,698.30	1,691.25	5.47	5.26	-179.15	68.62	-55.78	156.00	145.54	10.46	14.914	
1,800.00	1,797.32	1,792.70	1,783.89	5.69	5.47	171.35	57.71	-70.28	173.12	162.23	10.89	15.897	
1,900.00	1,896.41	1,885.61	1,874.63	5.83	5.68	164.89	46.39	-86.70	195.61	184.39	11.22	17.427	
2,000.00	1,995.43	1,977.13	1,963.54	6.02	5.89	160.71	34.68	-104.97	221.47	209.85	11.62	19.061	
2,100.00	2,094.46	2,069.74	2,053.06	6.22	6.05	157.07	22.36	-125.26	249.92	237.93	11.98	20.855	
2,200.00	2,193.49	2,164.37	2,144.46	6.42	6.26	154.07	9.71	-146.23	279.38	266.98	12.40	22.538	
2,300.00	2,292.52	2,258.99	2,235.86	6.62	6.50	151.63	-2.59	-167.21	309.42	296.61	12.81	24.155	
2,400.00	2,391.54	2,353.61	2,327.25	6.82	6.76	149.63	-15.94	-188.18	339.88	326.64	13.24	25.673	
2,500.00	2,490.57	2,448.24	2,418.65	7.01	7.04	147.95	-28.24	-209.15	370.67	357.00	13.66	27.126	
2,600.00	2,589.60	2,542.86	2,510.05	7.21	7.33	146.53	-40.89	-230.13	401.70	387.61	14.09	28.506	
2,700.00	2,688.63	2,637.48	2,601.45	7.41	7.62	145.31	-53.54	-251.10	432.92	418.40	14.52	29.816	
2,800.00	2,787.65	2,732.11	2,692.85	7.61	7.92	144.26	-66.19	-272.07	464.30	449.35	14.95	31.059	
2,900.00	2,886.68	2,826.73	2,784.25	7.81	8.22	143.33	-78.84	-293.05	495.80	480.42	15.38	32.238	
3,000.00	2,985.71	2,921.35	2,875.65	8.01	8.52	142.52	-91.49	-314.02	527.40	511.59	15.81	33.357	
3,100.00	3,084.74	3,015.98	2,967.04	8.21	8.83	141.80	-104.14	-334.99	559.09	542.85	16.24	34.419	
3,200.00	3,183.76	3,110.60	3,058.44	8.40	9.14	141.16	-116.79	-355.97	590.85	574.18	16.68	35.429	
3,300.00	3,282.79	3,205.22	3,149.84	8.60	9.45	140.58	-129.44	-376.94	622.67	605.56	17.11	36.389	
3,400.00	3,381.82	3,299.85	3,241.24	8.80	9.77	140.06	-142.10	-397.91	654.55	637.00	17.55	37.302	
3,500.00	3,480.85	3,394.47	3,332.64	9.00	10.08	139.58	-154.75	-418.89	686.46	668.48	17.98	38.172	
3,600.00	3,579.87	3,489.09	3,424.04	9.20	10.40	139.15	-167.40	-439.86	718.42	700.00	18.42	39.001	
3,700.00	3,678.90	3,583.72	3,515.43	9.40	10.72	138.75	-180.05	-460.83	750.41	731.55	18.86	39.792	
3,800.00	3,777.93	3,678.34	3,606.83	9.60	11.04	138.39	-192.70	-481.81	782.43	763.13	19.30	40.547	
3,900.00	3,876.96	3,772.96	3,698.23	9.80	11.36	138.06	-205.35	-502.78	814.48	794.74	19.74	41.268	
4,000.00	3,975.98	3,867.59	3,789.63	10.00	11.69	137.75	-218.00	-523.75	846.54	826.37	20.18	41.957	
4,100.00	4,075.01	3,962.21	3,881.03	10.20	12.01	137.46	-230.65	-544.73	878.63	858.02	20.62	42.617	
4,200.00	4,174.04	4,056.83	3,972.43	10.40	12.34	137.20	-243.30	-565.70	910.74	889.68	21.06	43.248	
4,300.00	4,273.07	4,151.46	4,063.82	10.60	12.67	136.95	-255.95	-586.67	942.86	921.36	21.50	43.854	
4,400.00	4,372.09	4,246.08	4,155.22	10.80	12.99	136.71	-268.60	-607.65	975.00	953.06	21.94	44.434	
4,500.00	4,471.12	4,340.70	4,246.62	11.00	13.32	136.50	-281.25	-628.62	1,007.15	984.77	22.39	44.991	
4,600.00	4,570.15	4,435.33	4,338.02	11.20	13.65	136.29	-293.90	-649.59	1,039.32	1,016.49	22.83	45.526	
4,700.00	4,669.18	4,529.95	4,429.42	11.40	13.98	136.10	-306.55	-670.56	1,071.49	1,048.22	23.27	46.040	
4,800.00	4,768.21	4,624.57	4,520.82	11.60	14.31	135.92	-319.20	-691.54	1,103.68	1,079.96	23.72	46.535	
4,900.00	4,867.23	4,719.20	4,612.21	11.80	14.64	135.75	-331.85	-712.51	1,135.87	1,111.71	24.16	47.011	
5,000.00	4,966.26	4,819.57	4,709.18	12.00	14.99	135.58	-345.24	-734.71	1,168.04	1,143.40	24.63	47.414	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

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

Survey Program:		0-MWD+HRGM+SAG+FDIR (rev.5)		Rule Assigned:		Offset Site Error:		0.00 usft					
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance					
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	+N/-S	+E/-W	Between	Between	Minimum	Separation	Warning
Depth	Depth	Depth	Depth	Reference	Offset	Toolface	(usft)	(usft)	Centres	Ellipses	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)			(usft)	(usft)	(usft)		
5,100.00	5,065.29	4,949.94	4,835.83	12.20	15.42	135.45	-361.19	-761.14	1,198.38	1,173.12	25.25	47.454	
5,200.00	5,164.32	5,082.74	4,965.86	12.40	15.80	135.43	-375.13	-784.25	1,225.85	1,200.00	25.85	47.423	
5,300.00	5,263.34	5,217.71	5,098.88	12.60	16.14	135.52	-386.89	-803.76	1,250.38	1,223.96	26.42	47.333	
5,400.00	5,362.37	5,354.56	5,234.50	12.81	16.43	135.72	-396.34	-819.42	1,271.90	1,244.95	26.95	47.193	
5,500.00	5,461.46	5,493.07	5,372.34	12.97	16.67	136.11	-403.33	-831.02	1,290.06	1,262.64	27.42	47.053	
5,600.00	5,560.84	5,633.25	5,512.24	13.17	16.85	136.54	-407.78	-838.40	1,303.42	1,275.56	27.86	46.782	
5,700.00	5,660.47	5,774.57	5,653.52	13.36	16.98	136.91	-409.58	-841.38	1,311.74	1,283.54	28.20	46.511	
5,800.00	5,760.30	5,881.35	5,760.30	13.54	17.02	137.14	-409.62	-841.44	1,316.09	1,287.67	28.42	46.306	
5,900.00	5,860.24	5,981.30	5,860.24	13.69	17.06	137.26	-409.62	-841.44	1,318.49	1,289.88	28.61	46.086	
6,000.00	5,960.24	6,081.29	5,960.24	13.75	17.09	-90.41	-409.62	-841.44	1,319.02	1,290.33	28.69	45.970	
6,100.00	6,060.24	6,181.29	6,060.24	13.78	17.13	-90.41	-409.62	-841.44	1,319.02	1,290.26	28.77	45.852	
6,200.00	6,160.24	6,281.29	6,160.24	13.82	17.17	-90.41	-409.62	-841.44	1,319.02	1,290.18	28.84	45.734	
6,300.00	6,260.24	6,381.29	6,260.24	13.86	17.20	-90.41	-409.62	-841.44	1,319.02	1,290.11	28.92	45.616	
6,400.00	6,360.24	6,481.29	6,360.24	13.90	17.24	-90.41	-409.62	-841.44	1,319.02	1,290.03	28.99	45.496	
6,500.00	6,460.24	6,581.29	6,460.24	13.94	17.28	-90.41	-409.62	-841.44	1,319.02	1,289.96	29.07	45.377	
6,600.00	6,560.24	6,681.29	6,560.24	13.98	17.32	-90.41	-409.62	-841.44	1,319.02	1,289.88	29.15	45.256	
6,700.00	6,660.24	6,781.29	6,660.24	14.02	17.35	-90.41	-409.62	-841.44	1,319.02	1,289.80	29.22	45.136	
6,800.00	6,760.24	6,881.29	6,760.24	14.06	17.39	-90.41	-409.62	-841.44	1,319.02	1,289.72	29.30	45.014	
6,900.00	6,860.24	6,981.29	6,860.24	14.10	17.43	-90.41	-409.62	-841.44	1,319.02	1,289.64	29.38	44.893	
7,000.00	6,960.24	7,081.29	6,960.24	14.14	17.47	-90.41	-409.62	-841.44	1,319.02	1,289.56	29.46	44.771	
7,100.00	7,060.24	7,181.29	7,060.24	14.18	17.51	-90.41	-409.62	-841.44	1,319.02	1,289.48	29.54	44.649	
7,200.00	7,160.24	7,281.29	7,160.24	14.22	17.55	-90.41	-409.62	-841.44	1,319.02	1,289.40	29.62	44.526	
7,300.00	7,260.24	7,381.29	7,260.24	14.26	17.59	-90.41	-409.62	-841.44	1,319.02	1,289.32	29.71	44.403	
7,400.00	7,360.24	7,481.29	7,360.24	14.30	17.63	-90.41	-409.62	-841.44	1,319.02	1,289.24	29.79	44.280	
7,500.00	7,460.24	7,581.29	7,460.24	14.35	17.67	-90.41	-409.62	-841.44	1,319.02	1,289.15	29.87	44.156	
7,600.00	7,560.24	7,681.29	7,560.24	14.39	17.71	-90.41	-409.62	-841.44	1,319.02	1,289.07	29.96	44.032	
7,700.00	7,660.24	7,781.29	7,660.24	14.43	17.75	-90.41	-409.62	-841.44	1,319.02	1,288.98	30.04	43.908	
7,800.00	7,760.24	7,881.29	7,760.24	14.48	17.79	-90.41	-409.62	-841.44	1,319.02	1,288.90	30.13	43.784	
7,900.00	7,860.24	7,981.29	7,860.24	14.52	17.83	-90.41	-409.62	-841.44	1,319.02	1,288.81	30.21	43.659	
8,000.00	7,960.24	8,081.29	7,960.24	14.57	17.87	-90.41	-409.62	-841.44	1,319.02	1,288.73	30.30	43.534	
8,100.00	8,060.24	8,181.29	8,060.24	14.61	17.92	-90.41	-409.62	-841.44	1,319.02	1,288.64	30.39	43.409	
8,200.00	8,160.24	8,281.29	8,160.24	14.65	17.96	-90.41	-409.62	-841.44	1,319.02	1,288.55	30.47	43.284	
8,300.00	8,260.24	8,381.29	8,260.24	14.70	18.00	-90.41	-409.62	-841.44	1,319.02	1,288.46	30.56	43.159	
8,400.00	8,360.24	8,481.29	8,360.24	14.75	18.04	-90.41	-409.62	-841.44	1,319.02	1,288.37	30.65	43.033	
8,500.00	8,460.24	8,581.29	8,460.24	14.79	18.09	-90.41	-409.62	-841.44	1,319.02	1,288.28	30.74	42.908	
8,600.00	8,560.24	8,681.29	8,560.24	14.84	18.13	-90.41	-409.62	-841.44	1,319.02	1,288.19	30.83	42.782	
8,700.00	8,660.24	8,781.29	8,660.24	14.88	18.18	-90.41	-409.62	-841.44	1,319.02	1,288.10	30.92	42.656	
8,800.00	8,760.24	8,881.29	8,760.24	14.93	18.22	-90.41	-409.62	-841.44	1,319.02	1,288.01	31.01	42.530	
8,900.00	8,860.24	8,981.29	8,860.24	14.98	18.26	-90.41	-409.62	-841.44	1,319.02	1,287.92	31.11	42.404	
9,000.00	8,960.24	9,081.29	8,960.24	15.03	18.31	-90.41	-409.62	-841.44	1,319.02	1,287.83	31.20	42.278	
9,100.00	9,060.24	9,181.29	9,060.24	15.07	18.35	-90.41	-409.62	-841.44	1,319.02	1,287.73	31.29	42.152	
9,200.00	9,160.24	9,281.29	9,160.24	15.12	18.40	-90.41	-409.62	-841.44	1,319.02	1,287.64	31.39	42.026	
9,300.00	9,260.24	9,381.29	9,260.24	15.17	18.44	-90.41	-409.62	-841.44	1,319.02	1,287.54	31.48	41.900	
9,400.00	9,360.24	9,481.29	9,360.24	15.22	18.49	-90.41	-409.62	-841.44	1,319.02	1,287.45	31.58	41.774	
9,500.00	9,460.24	9,581.29	9,460.24	15.27	18.53	-90.41	-409.62	-841.44	1,319.02	1,287.35	31.67	41.648	
9,600.00	9,560.24	9,681.29	9,560.24	15.32	18.58	-90.41	-409.62	-841.44	1,319.02	1,287.26	31.77	41.522	
9,700.00	9,660.24	9,781.29	9,660.24	15.37	18.63	-90.41	-409.62	-841.44	1,319.02	1,287.16	31.86	41.396	
9,800.00	9,760.24	9,881.29	9,760.24	15.42	18.67	-90.41	-409.62	-841.44	1,319.02	1,287.06	31.96	41.271	
9,900.00	9,860.24	9,981.29	9,860.24	15.47	18.72	-90.41	-409.62	-841.44	1,319.02	1,286.97	32.06	41.145	
10,000.00	9,960.24	10,081.29	9,960.24	15.52	18.77	-90.41	-409.62	-841.44	1,319.02	1,286.87	32.16	41.019	
10,100.00	10,060.24	10,181.29	10,060.24	15.57	18.82	-90.41	-409.62	-841.44	1,319.02	1,286.77	32.26	40.894	
10,200.00	10,160.24	10,281.29	10,160.24	15.62	18.86	-90.41	-409.62	-841.44	1,319.02	1,286.67	32.35	40.768	

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

8/18/2025 4:11:19PM

Page 41 of 74

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:				Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance			Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
15,400.00	12,420.75	15,531.41	12,468.80	51.78	54.48	92.09	-3,610.77	-812.65	1,320.19	1,215.24	104.95	12.579
15,500.00	12,421.28	15,631.41	12,469.32	53.08	55.77	92.09	-3,710.76	-811.75	1,320.20	1,212.64	107.56	12.274
15,600.00	12,421.80	15,731.41	12,469.85	54.38	57.06	92.09	-3,810.76	-810.85	1,320.21	1,210.03	110.18	11.982
15,700.00	12,422.33	15,831.41	12,470.37	55.69	58.36	92.09	-3,910.75	-809.95	1,320.22	1,207.41	112.81	11.703
15,800.00	12,422.85	15,931.41	12,470.90	57.00	59.66	92.09	-4,010.75	-809.05	1,320.23	1,204.79	115.44	11.437
15,900.00	12,423.38	16,031.41	12,471.43	58.32	60.96	92.09	-4,110.74	-808.15	1,320.24	1,202.16	118.07	11.181
16,000.00	12,423.90	16,131.41	12,471.95	59.64	62.26	92.09	-4,210.74	-807.25	1,320.25	1,199.53	120.71	10.937
16,100.00	12,424.43	16,231.41	12,472.48	60.95	63.57	92.09	-4,310.73	-806.35	1,320.26	1,196.90	123.36	10.703
16,200.00	12,424.95	16,331.41	12,473.01	62.28	64.88	92.09	-4,410.73	-805.45	1,320.27	1,194.26	126.01	10.478
16,300.00	12,425.48	16,431.41	12,473.53	63.60	66.19	92.09	-4,510.72	-804.55	1,320.28	1,191.62	128.66	10.262
16,400.00	12,426.00	16,531.41	12,474.06	64.92	67.51	92.09	-4,610.72	-803.65	1,320.28	1,188.97	131.31	10.055
16,500.00	12,426.53	16,631.41	12,474.58	66.25	68.83	92.09	-4,710.71	-802.75	1,320.29	1,186.32	133.97	9.855
16,600.00	12,427.05	16,731.41	12,475.11	67.58	70.14	92.09	-4,810.70	-801.85	1,320.30	1,183.67	136.63	9.663
16,700.00	12,427.58	16,831.41	12,475.64	68.91	71.46	92.09	-4,910.70	-800.95	1,320.31	1,181.02	139.30	9.478
16,800.00	12,428.10	16,931.41	12,476.16	70.24	72.79	92.09	-5,010.69	-800.05	1,320.32	1,178.36	141.96	9.300
16,900.00	12,428.63	17,031.41	12,476.69	71.57	74.11	92.09	-5,110.69	-799.15	1,320.33	1,175.70	144.63	9.129
17,000.00	12,429.15	17,131.41	12,477.21	72.91	75.44	92.09	-5,210.68	-798.26	1,320.34	1,173.03	147.31	8.963
17,100.00	12,429.68	17,231.41	12,477.74	74.24	76.76	92.09	-5,310.68	-797.36	1,320.35	1,170.37	149.98	8.803
17,200.00	12,430.20	17,331.41	12,478.27	75.58	78.09	92.09	-5,410.67	-796.46	1,320.36	1,167.70	152.66	8.649
17,300.00	12,430.73	17,431.41	12,478.79	76.92	79.42	92.09	-5,510.67	-795.56	1,320.37	1,165.03	155.34	8.500
17,400.00	12,431.25	17,531.41	12,479.32	78.26	80.75	92.09	-5,610.66	-794.66	1,320.38	1,162.36	158.02	8.356
17,500.00	12,431.78	17,631.41	12,479.85	79.60	82.08	92.09	-5,710.66	-793.76	1,320.39	1,159.68	160.70	8.216
17,600.00	12,432.30	17,731.41	12,480.37	80.94	83.42	92.09	-5,810.65	-792.86	1,320.40	1,157.01	163.39	8.081
17,700.00	12,432.83	17,831.41	12,480.90	82.28	84.75	92.09	-5,910.64	-791.96	1,320.41	1,154.33	166.07	7.951
17,800.00	12,433.35	17,931.41	12,481.42	83.62	86.09	92.09	-6,010.64	-791.06	1,320.41	1,151.65	168.76	7.824
17,900.00	12,433.88	18,031.41	12,481.95	84.96	87.42	92.09	-6,110.63	-790.16	1,320.42	1,148.97	171.45	7.701
18,000.00	12,434.40	18,131.41	12,482.48	86.31	88.76	92.09	-6,210.63	-789.26	1,320.43	1,146.29	174.14	7.582
18,100.00	12,434.93	18,231.41	12,483.00	87.65	90.10	92.09	-6,310.62	-788.36	1,320.44	1,143.61	176.84	7.467
18,200.00	12,435.45	18,331.41	12,483.53	89.00	91.44	92.09	-6,410.62	-787.46	1,320.45	1,140.92	179.53	7.355
18,300.00	12,435.98	18,431.41	12,484.06	90.35	92.78	92.09	-6,510.61	-786.56	1,320.46	1,138.23	182.23	7.246
18,400.00	12,436.50	18,531.41	12,484.58	91.69	94.12	92.09	-6,610.61	-785.66	1,320.47	1,135.55	184.92	7.141
18,500.00	12,437.03	18,631.41	12,485.11	93.04	95.46	92.09	-6,710.60	-784.76	1,320.48	1,132.86	187.62	7.038
18,600.00	12,437.55	18,731.41	12,485.63	94.39	96.80	92.09	-6,810.60	-783.86	1,320.49	1,130.17	190.32	6.938
18,700.00	12,438.08	18,831.41	12,486.16	95.74	98.15	92.09	-6,910.59	-782.96	1,320.50	1,127.48	193.02	6.841
18,800.00	12,438.60	18,931.41	12,486.69	97.09	99.49	92.09	-7,010.58	-782.07	1,320.51	1,124.79	195.72	6.747
18,900.00	12,439.13	19,031.41	12,487.21	98.44	100.84	92.09	-7,110.58	-781.17	1,320.52	1,122.09	198.42	6.655
19,000.00	12,439.65	19,131.41	12,487.74	99.79	102.18	92.09	-7,210.57	-780.27	1,320.53	1,119.40	201.13	6.566
19,100.00	12,440.17	19,231.41	12,488.26	101.14	103.53	92.09	-7,310.57	-779.37	1,320.53	1,116.70	203.83	6.479
19,200.00	12,440.70	19,331.41	12,488.79	102.49	104.87	92.09	-7,410.56	-778.47	1,320.54	1,114.01	206.53	6.394
19,300.00	12,441.22	19,431.41	12,489.32	103.84	106.22	92.09	-7,510.56	-777.57	1,320.55	1,111.31	209.24	6.311
19,400.00	12,441.75	19,531.41	12,489.84	105.20	107.57	92.09	-7,610.55	-776.67	1,320.56	1,108.62	211.95	6.231
19,500.00	12,442.27	19,631.41	12,490.37	106.55	108.92	92.09	-7,710.55	-775.77	1,320.57	1,105.92	214.65	6.152
19,600.00	12,442.80	19,731.41	12,490.90	107.90	110.27	92.09	-7,810.54	-774.87	1,320.58	1,103.22	217.36	6.075
19,700.00	12,443.32	19,831.41	12,491.42	109.26	111.62	92.09	-7,910.54	-773.97	1,320.59	1,100.52	220.07	6.001
19,800.00	12,443.85	19,931.41	12,491.95	110.61	112.97	92.09	-8,010.53	-773.07	1,320.60	1,097.82	222.78	5.928
19,900.00	12,444.37	20,031.41	12,492.47	111.97	114.32	92.09	-8,110.53	-772.17	1,320.61	1,095.12	225.49	5.857
20,000.00	12,444.90	20,131.41	12,493.00	113.32	115.67	92.09	-8,210.52	-771.27	1,320.62	1,092.42	228.20	5.787
20,100.00	12,445.42	20,231.41	12,493.53	114.68	117.02	92.09	-8,310.51	-770.37	1,320.63	1,089.71	230.91	5.719
20,200.00	12,445.95	20,331.41	12,494.05	116.03	118.37	92.09	-8,410.51	-769.47	1,320.64	1,087.01	233.63	5.653
20,300.00	12,446.47	20,431.41	12,494.58	117.39	119.72	92.09	-8,510.50	-768.57	1,320.65	1,084.31	236.34	5.588
20,400.00	12,447.00	20,531.41	12,495.11	118.74	121.07	92.09	-8,610.50	-767.67	1,320.66	1,081.60	239.05	5.525
20,500.00	12,447.52	20,631.41	12,495.63	120.10	122.43	92.09	-8,710.49	-766.78	1,320.66	1,078.90	241.77	5.463

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	0.00 usft
												Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)		Ellipses (usft)			
20,600.00	12,448.05	20,731.41	12,496.16	121.46	123.78	92.09	-8,810.49	-765.88	1,320.67	1,076.19	244.48	5.402	
20,700.00	12,448.57	20,831.41	12,496.68	122.81	125.13	92.09	-8,910.48	-764.98	1,320.68	1,073.49	247.19	5.343	
20,800.00	12,449.10	20,931.41	12,497.21	124.17	126.49	92.09	-9,010.48	-764.08	1,320.69	1,070.78	249.91	5.285	
20,900.00	12,449.62	21,031.41	12,497.74	125.53	127.84	92.09	-9,110.47	-763.18	1,320.70	1,068.08	252.63	5.228	
21,000.00	12,450.15	21,131.41	12,498.26	126.89	129.19	92.09	-9,210.47	-762.28	1,320.71	1,065.37	255.34	5.172	
21,100.00	12,450.67	21,231.41	12,498.79	128.24	130.55	92.09	-9,310.46	-761.38	1,320.72	1,062.66	258.06	5.118	
21,200.00	12,451.20	21,331.41	12,499.31	129.60	131.90	92.09	-9,410.45	-760.48	1,320.73	1,059.95	260.78	5.065	
21,300.00	12,451.72	21,431.41	12,499.84	130.96	133.26	92.09	-9,510.45	-759.58	1,320.74	1,057.25	263.49	5.012	
21,400.00	12,452.25	21,531.41	12,500.37	132.32	134.61	92.09	-9,610.44	-758.68	1,320.75	1,054.54	266.21	4.961	
21,500.00	12,452.77	21,631.41	12,500.89	133.68	135.97	92.09	-9,710.44	-757.78	1,320.76	1,051.83	268.93	4.911	
21,600.00	12,453.30	21,731.41	12,501.42	135.04	137.33	92.09	-9,810.43	-756.88	1,320.77	1,049.12	271.65	4.862	
21,700.00	12,453.82	21,831.41	12,501.95	136.40	138.68	92.09	-9,910.43	-755.98	1,320.78	1,046.41	274.37	4.814	
21,800.00	12,454.35	21,931.41	12,502.47	137.76	140.04	92.09	-10,010.42	-755.08	1,320.79	1,043.70	277.09	4.767	
21,900.00	12,454.87	22,031.41	12,503.00	139.12	141.40	92.09	-10,110.42	-754.18	1,320.79	1,040.99	279.81	4.720	
22,000.00	12,455.40	22,131.41	12,503.52	140.48	142.75	92.09	-10,210.41	-753.28	1,320.80	1,038.28	282.53	4.675	
22,100.00	12,455.92	22,231.41	12,504.05	141.84	144.11	92.09	-10,310.41	-752.38	1,320.81	1,035.56	285.25	4.630	
22,200.00	12,456.45	22,331.41	12,504.58	143.20	145.47	92.09	-10,410.40	-751.48	1,320.82	1,032.85	287.97	4.587	
22,300.00	12,456.97	22,431.41	12,505.10	144.56	146.83	92.09	-10,510.40	-750.59	1,320.83	1,030.14	290.69	4.544	
22,400.00	12,457.50	22,531.41	12,505.63	145.92	148.18	92.09	-10,610.39	-749.69	1,320.84	1,027.43	293.41	4.502	
22,500.00	12,458.02	22,631.41	12,506.16	147.28	149.54	92.09	-10,710.38	-748.79	1,320.85	1,024.72	296.13	4.460	
22,600.00	12,458.55	22,731.41	12,506.68	148.64	150.90	92.09	-10,810.38	-747.89	1,320.86	1,022.00	298.86	4.420	
22,605.74	12,458.58	22,737.15	12,506.71	148.71	150.98	92.09	-10,816.11	-747.84	1,320.86	1,021.86	299.00	4.418	
22,700.00	12,459.07	22,830.04	12,507.20	149.86	152.24	92.09	-10,909.00	-747.00	1,320.87	1,019.45	301.42	4.382	
22,705.25	12,459.10	22,830.04	12,507.20	149.93	152.24	92.09	-10,909.00	-747.00	1,320.89	1,019.39	301.49	4.381	SF

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	
												Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,065.29	5,093.62	5,068.80	12.20	11.38	151.08	-219.11	-98.43	528.13	505.08	23.05	22.910	
5,200.00	5,164.32	5,192.87	5,167.46	12.40	11.57	150.64	-229.74	-100.32	539.69	516.27	23.43	23.038	
5,300.00	5,263.34	5,292.11	5,266.12	12.60	11.75	150.22	-240.37	-102.22	551.28	527.48	23.80	23.164	
5,400.00	5,362.37	5,391.36	5,364.77	12.81	11.93	149.81	-251.00	-104.11	562.90	538.72	24.17	23.286	
5,500.00	5,461.46	5,490.64	5,463.46	12.97	12.12	149.45	-261.63	-106.00	574.16	549.64	24.51	23.421	
5,600.00	5,560.84	5,590.07	5,562.31	13.17	12.30	149.01	-272.28	-107.90	583.41	558.52	24.89	23.442	
5,700.00	5,660.47	5,689.61	5,661.25	13.36	12.48	148.43	-282.94	-109.80	590.48	565.23	25.25	23.387	
5,800.00	5,760.30	5,789.18	5,760.23	13.54	12.67	147.72	-293.61	-111.70	595.41	569.82	25.59	23.264	
5,900.00	5,860.24	5,888.72	5,859.18	13.69	12.85	146.87	-304.27	-113.60	598.26	572.34	25.92	23.080	
6,000.00	5,960.24	5,988.17	5,958.04	13.75	13.04	-81.82	-314.92	-115.49	599.14	573.00	26.14	22.920	
6,100.00	6,060.24	6,087.57	6,056.85	13.78	13.22	-82.86	-325.56	-117.39	599.60	573.26	26.35	22.758	
6,200.00	6,160.24	6,186.98	6,155.67	13.82	13.40	-83.89	-336.21	-119.29	600.27	573.71	26.56	22.605	
6,300.00	6,260.24	6,286.39	6,254.49	13.86	13.59	-84.92	-346.86	-121.18	601.12	574.36	26.76	22.461	
6,400.00	6,360.24	6,385.79	6,353.30	13.90	13.77	-85.94	-357.50	-123.08	602.18	575.21	26.97	22.326	
6,500.00	6,460.24	6,485.20	6,452.12	13.94	13.96	-86.96	-368.15	-124.97	603.43	576.25	27.18	22.200	
6,600.00	6,560.24	6,584.61	6,550.94	13.98	14.14	-87.98	-378.79	-126.87	604.87	577.48	27.39	22.082	
6,700.00	6,660.24	6,685.76	6,651.55	14.02	14.32	-88.95	-389.01	-128.69	606.40	578.82	27.59	21.982	
6,800.00	6,760.24	6,788.13	6,753.62	14.06	14.51	-89.69	-396.81	-130.08	607.67	579.89	27.78	21.875	
6,900.00	6,860.24	6,890.86	6,856.21	14.10	14.69	-90.17	-401.92	-130.99	608.55	580.60	27.95	21.771	
7,000.00	6,960.24	6,993.79	6,959.11	14.14	14.85	-90.39	-404.32	-131.42	608.98	580.88	28.10	21.668	
7,100.00	7,060.24	7,094.92	7,060.24	14.18	14.88	-90.41	-404.51	-131.45	609.02	580.86	28.16	21.628	
7,200.00	7,160.24	7,194.92	7,160.24	14.22	14.90	-90.41	-404.51	-131.45	609.02	580.80	28.22	21.580	
7,300.00	7,260.24	7,294.92	7,260.24	14.26	14.93	-90.41	-404.51	-131.45	609.02	580.73	28.28	21.532	
7,400.00	7,360.24	7,394.92	7,360.24	14.30	14.95	-90.41	-404.51	-131.45	609.02	580.67	28.35	21.482	
7,500.00	7,460.24	7,494.92	7,460.24	14.35	14.98	-90.41	-404.51	-131.45	609.02	580.60	28.42	21.433	
7,600.00	7,560.24	7,594.92	7,560.24	14.39	15.01	-90.41	-404.51	-131.45	609.02	580.53	28.48	21.383	
7,700.00	7,660.24	7,694.92	7,660.24	14.43	15.03	-90.41	-404.51	-131.45	609.02	580.47	28.55	21.333	
7,800.00	7,760.24	7,794.92	7,760.24	14.48	15.06	-90.41	-404.51	-131.45	609.02	580.40	28.62	21.282	
7,900.00	7,860.24	7,894.92	7,860.24	14.52	15.09	-90.41	-404.51	-131.45	609.02	580.33	28.68	21.231	
8,000.00	7,960.24	7,994.92	7,960.24	14.57	15.12	-90.41	-404.51	-131.45	609.02	580.26	28.75	21.180	
8,100.00	8,060.24	8,094.92	8,060.24	14.61	15.15	-90.41	-404.51	-131.45	609.02	580.19	28.82	21.128	
8,200.00	8,160.24	8,194.92	8,160.24	14.65	15.18	-90.41	-404.51	-131.45	609.02	580.12	28.90	21.077	
8,300.00	8,260.24	8,294.92	8,260.24	14.70	15.21	-90.41	-404.51	-131.45	609.02	580.05	28.97	21.025	
8,400.00	8,360.24	8,394.92	8,360.24	14.75	15.24	-90.41	-404.51	-131.45	609.02	579.98	29.04	20.972	
8,500.00	8,460.24	8,494.92	8,460.24	14.79	15.27	-90.41	-404.51	-131.45	609.02	579.90	29.11	20.920	
8,600.00	8,560.24	8,594.92	8,560.24	14.84	15.30	-90.41	-404.51	-131.45	609.02	579.83	29.19	20.867	
8,700.00	8,660.24	8,694.92	8,660.24	14.88	15.33	-90.41	-404.51	-131.45	609.02	579.76	29.26	20.814	
8,800.00	8,760.24	8,794.92	8,760.24	14.93	15.36	-90.41	-404.51	-131.45	609.02	579.68	29.34	20.760	
8,900.00	8,860.24	8,894.92	8,860.24	14.98	15.39	-90.41	-404.51	-131.45	609.02	579.60	29.41	20.707	
9,000.00	8,960.24	8,994.92	8,960.24	15.03	15.42	-90.41	-404.51	-131.45	609.02	579.53	29.49	20.653	
9,100.00	9,060.24	9,094.92	9,060.24	15.07	15.46	-90.41	-404.51	-131.45	609.02	579.45	29.57	20.599	
9,200.00	9,160.24	9,194.92	9,160.24	15.12	15.49	-90.41	-404.51	-131.45	609.02	579.37	29.64	20.545	
9,300.00	9,260.24	9,294.92	9,260.24	15.17	15.52	-90.41	-404.51	-131.45	609.02	579.29	29.72	20.490	
9,400.00	9,360.24	9,394.92	9,360.24	15.22	15.56	-90.41	-404.51	-131.45	609.02	579.21	29.80	20.436	
9,500.00	9,460.24	9,494.92	9,460.24	15.27	15.59	-90.41	-404.51	-131.45	609.02	579.13	29.88	20.381	
9,600.00	9,560.24	9,594.92	9,560.24	15.32	15.63	-90.41	-404.51	-131.45	609.02	579.05	29.96	20.326	
9,700.00	9,660.24	9,694.92	9,660.24	15.37	15.66	-90.41	-404.51	-131.45	609.02	578.97	30.04	20.271	
9,800.00	9,760.24	9,794.92	9,760.24	15.42	15.70	-90.41	-404.51	-131.45	609.02	578.89	30.13	20.216	
9,900.00	9,860.24	9,894.92	9,860.24	15.47	15.73	-90.41	-404.51	-131.45	609.02	578.81	30.21	20.161	
10,000.00	9,960.24	9,994.92	9,960.24	15.52	15.77	-90.41	-404.51	-131.45	609.02	578.72	30.29	20.105	
10,100.00	10,060.24	10,094.92	10,060.24	15.57	15.80	-90.41	-404.51	-131.45	609.02	578.64	30.38	20.050	
10,200.00	10,160.24	10,194.92	10,160.24	15.62	15.84	-90.41	-404.51	-131.45	609.02	578.56	30.46	19.994	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	0.00 usft
												Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,260.24	10,294.92	10,260.24	15.67	15.88	-90.41	-404.51	-131.45	609.02	578.47	30.54	19.938	
10,400.00	10,360.24	10,394.92	10,360.24	15.72	15.92	-90.41	-404.51	-131.45	609.02	578.38	30.63	19.882	
10,500.00	10,460.24	10,494.92	10,460.24	15.77	15.95	-90.41	-404.51	-131.45	609.02	578.30	30.72	19.827	
10,600.00	10,560.24	10,594.92	10,560.24	15.82	15.99	-90.41	-404.51	-131.45	609.02	578.21	30.80	19.770	
10,700.00	10,660.24	10,694.92	10,660.24	15.88	16.03	-90.41	-404.51	-131.45	609.02	578.12	30.89	19.714	
10,800.00	10,760.24	10,794.92	10,760.24	15.93	16.07	-90.41	-404.51	-131.45	609.02	578.04	30.98	19.658	
10,900.00	10,860.24	10,894.92	10,860.24	15.98	16.11	-90.41	-404.51	-131.45	609.02	577.95	31.07	19.602	
11,000.00	10,960.24	10,994.92	10,960.24	16.04	16.15	-90.41	-404.51	-131.45	609.02	577.86	31.16	19.546	
11,100.00	11,060.24	11,094.92	11,060.24	16.09	16.19	-90.41	-404.51	-131.45	609.02	577.77	31.25	19.489	
11,200.00	11,160.24	11,194.92	11,160.24	16.14	16.23	-90.41	-404.51	-131.45	609.02	577.68	31.34	19.433	
11,300.00	11,260.24	11,294.92	11,260.24	16.20	16.27	-90.41	-404.51	-131.45	609.02	577.59	31.43	19.377	
11,400.00	11,360.24	11,394.92	11,360.24	16.25	16.31	-90.41	-404.51	-131.45	609.02	577.49	31.52	19.320	
11,500.00	11,460.24	11,494.92	11,460.24	16.30	16.35	-90.41	-404.51	-131.45	609.02	577.40	31.61	19.264	
11,600.00	11,560.24	11,594.92	11,560.24	16.36	16.39	-90.41	-404.51	-131.45	609.02	577.31	31.71	19.207	
11,700.00	11,660.24	11,694.92	11,660.24	16.41	16.43	-90.41	-404.51	-131.45	609.02	577.21	31.80	19.151	
11,800.00	11,760.24	11,794.92	11,760.24	16.47	16.47	-90.41	-404.51	-131.45	609.02	577.12	31.90	19.094	
11,800.00	11,760.24	11,794.92	11,760.24	16.47	16.47	-90.41	-404.51	-131.45	609.02	577.12	31.90	19.094	
11,900.00	11,860.23	11,894.92	11,860.24	16.51	16.51	90.16	-404.53	-131.45	609.02	577.06	31.96	19.055	
12,000.00	11,959.22	11,995.49	11,960.23	16.62	16.74	90.52	-414.07	-131.36	609.04	576.92	32.12	18.962	
12,100.00	12,054.40	12,096.73	12,057.63	16.77	17.01	90.86	-441.16	-131.12	609.08	576.60	32.48	18.751	
12,200.00	12,142.89	12,198.61	12,149.32	16.94	17.29	91.18	-485.28	-130.72	609.14	576.07	33.07	18.418	
12,300.00	12,222.00	12,301.08	12,232.20	17.27	17.57	91.46	-545.31	-130.17	609.21	575.30	33.92	17.962	
12,400.00	12,289.31	12,404.08	12,303.40	17.78	17.81	91.70	-619.53	-129.50	609.28	574.25	35.03	17.394	
12,500.00	12,342.79	12,507.50	12,360.39	18.40	18.16	91.88	-705.66	-128.71	609.34	572.93	36.41	16.736	
12,600.00	12,380.81	12,611.24	12,401.09	19.13	19.10	92.00	-800.93	-127.85	609.39	571.35	38.04	16.022	
12,700.00	12,402.22	12,715.17	12,423.99	19.96	20.13	92.07	-902.16	-126.93	609.41	569.55	39.86	15.288	
12,800.00	12,407.10	12,817.96	12,429.11	20.85	21.21	92.07	-1,004.72	-125.99	609.41	567.61	41.80	14.578	
12,900.00	12,407.63	12,917.96	12,429.63	21.80	22.31	92.07	-1,104.71	-125.09	609.41	565.59	43.82	13.907	
13,000.00	12,408.15	13,017.96	12,430.16	22.78	23.43	92.07	-1,204.71	-124.18	609.41	563.50	45.91	13.274	
13,100.00	12,408.68	13,117.96	12,430.68	23.81	24.58	92.07	-1,304.70	-123.27	609.41	561.34	48.07	12.678	
13,200.00	12,409.20	13,217.96	12,431.21	24.86	25.75	92.07	-1,404.70	-122.36	609.41	559.13	50.28	12.120	
13,300.00	12,409.73	13,317.96	12,431.73	25.94	26.94	92.07	-1,504.69	-121.45	609.41	556.87	52.54	11.599	
13,400.00	12,410.25	13,417.96	12,432.26	27.05	28.15	92.07	-1,604.69	-120.54	609.41	554.56	54.85	11.111	
13,500.00	12,410.78	13,517.96	12,432.78	28.17	29.37	92.07	-1,704.68	-119.63	609.41	552.22	57.19	10.656	
13,600.00	12,411.30	13,617.96	12,433.31	29.32	30.60	92.07	-1,804.67	-118.72	609.41	549.84	59.57	10.231	
13,700.00	12,411.83	13,717.96	12,433.83	30.48	31.84	92.07	-1,904.67	-117.81	609.41	547.43	61.97	9.833	
13,800.00	12,412.35	13,817.96	12,434.36	31.66	33.10	92.07	-2,004.66	-116.91	609.41	545.00	64.41	9.462	
13,900.00	12,412.88	13,917.96	12,434.88	32.86	34.36	92.07	-2,104.66	-116.00	609.41	542.54	66.87	9.114	
14,000.00	12,413.40	14,017.96	12,435.41	34.06	35.63	92.07	-2,204.65	-115.09	609.41	540.06	69.34	8.788	
14,100.00	12,413.93	14,117.96	12,435.94	35.28	36.91	92.07	-2,304.65	-114.18	609.41	537.57	71.84	8.483	
14,200.00	12,414.45	14,217.96	12,436.46	36.51	38.19	92.07	-2,404.64	-113.27	609.41	535.05	74.35	8.196	
14,300.00	12,414.98	14,317.96	12,436.99	37.74	39.48	92.07	-2,504.64	-112.36	609.41	532.52	76.88	7.926	
14,400.00	12,415.50	14,417.96	12,437.51	38.99	40.78	92.07	-2,604.63	-111.45	609.41	529.98	79.43	7.672	
14,500.00	12,416.03	14,517.96	12,438.04	40.24	42.08	92.07	-2,704.62	-110.54	609.41	527.42	81.98	7.433	
14,600.00	12,416.55	14,617.96	12,438.56	41.50	43.38	92.07	-2,804.62	-109.63	609.41	524.86	84.55	7.208	
14,700.00	12,417.08	14,717.96	12,439.09	42.77	44.69	92.07	-2,904.61	-108.73	609.41	522.28	87.13	6.994	
14,800.00	12,417.60	14,817.96	12,439.61	44.04	46.00	92.07	-3,004.61	-107.82	609.41	519.69	89.72	6.793	
14,900.00	12,418.13	14,917.96	12,440.14	45.32	47.31	92.07	-3,104.60	-106.91	609.41	517.09	92.31	6.602	
15,000.00	12,418.65	15,017.96	12,440.66	46.60	48.63	92.07	-3,204.60	-106.00	609.41	514.49	94.92	6.420	
15,100.00	12,419.18	15,117.96	12,441.19	47.89	49.95	92.07	-3,304.59	-105.09	609.41	511.88	97.53	6.249	
15,200.00	12,419.70	15,217.96	12,441.71	49.18	51.28	92.07	-3,404.59	-104.18	609.41	509.26	100.15	6.085	
15,300.00	12,420.23	15,317.96	12,442.24	50.48	52.60	92.07	-3,504.58	-103.27	609.41	506.64	102.77	5.930	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	0.00 usft
												Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
20,600.00	12,448.05	20,617.96	12,470.06	121.46	124.22	92.07	-8,804.29	-55.10	609.40	363.96	245.44	2.483	
20,700.00	12,448.57	20,717.96	12,470.59	122.81	125.58	92.07	-8,904.28	-54.19	609.39	361.24	248.16	2.456	
20,800.00	12,449.10	20,817.96	12,471.11	124.17	126.95	92.07	-9,004.28	-53.29	609.39	358.52	250.88	2.429	
20,900.00	12,449.62	20,917.96	12,471.64	125.53	128.31	92.07	-9,104.27	-52.38	609.39	355.80	253.60	2.403	
21,000.00	12,450.15	21,017.96	12,472.16	126.89	129.67	92.07	-9,204.27	-51.47	609.39	353.08	256.32	2.378	
21,100.00	12,450.67	21,117.96	12,472.69	128.24	131.03	92.07	-9,304.26	-50.56	609.39	350.36	259.04	2.353	
21,200.00	12,451.20	21,217.96	12,473.21	129.60	132.40	92.07	-9,404.26	-49.65	609.39	347.64	261.76	2.328	
21,300.00	12,451.72	21,317.96	12,473.74	130.96	133.76	92.07	-9,504.25	-48.74	609.39	344.92	264.48	2.304	
21,400.00	12,452.25	21,417.96	12,474.26	132.32	135.12	92.07	-9,604.24	-47.83	609.39	342.19	267.20	2.281	
21,500.00	12,452.77	21,517.96	12,474.79	133.68	136.49	92.07	-9,704.24	-46.92	609.39	339.47	269.92	2.258	
21,600.00	12,453.30	21,617.96	12,475.31	135.04	137.85	92.07	-9,804.23	-46.01	609.39	336.75	272.64	2.235	
21,700.00	12,453.82	21,717.96	12,475.84	136.40	139.21	92.07	-9,904.23	-45.11	609.39	334.03	275.37	2.213	
21,800.00	12,454.35	21,817.96	12,476.37	137.76	140.58	92.07	-10,004.22	-44.20	609.39	331.30	278.09	2.191	
21,900.00	12,454.87	21,917.96	12,476.89	139.12	141.94	92.07	-10,104.22	-43.29	609.39	328.58	280.81	2.170	
22,000.00	12,455.40	22,017.96	12,477.42	140.48	143.30	92.07	-10,204.21	-42.38	609.39	325.86	283.54	2.149	
22,100.00	12,455.92	22,117.96	12,477.94	141.84	144.67	92.07	-10,304.21	-41.47	609.39	323.13	286.26	2.129	
22,200.00	12,456.45	22,217.96	12,478.47	143.20	146.03	92.07	-10,404.20	-40.56	609.39	320.41	288.98	2.109	
22,300.00	12,456.97	22,317.96	12,478.99	144.56	147.39	92.07	-10,504.20	-39.65	609.39	317.68	291.71	2.089	
22,400.00	12,457.50	22,417.96	12,479.52	145.92	148.76	92.07	-10,604.19	-38.74	609.39	314.96	294.43	2.070	
22,500.00	12,458.02	22,517.96	12,480.04	147.28	150.12	92.07	-10,704.18	-37.83	609.39	312.23	297.16	2.051	
22,600.00	12,458.55	22,617.96	12,480.57	148.64	151.49	92.07	-10,804.18	-36.93	609.39	309.51	299.88	2.032	
22,700.00	12,459.07	22,717.96	12,481.09	149.86	152.83	92.07	-10,904.17	-36.02	609.39	306.96	302.43	2.015	
22,701.76	12,459.08	22,719.72	12,481.10	149.88	152.85	92.07	-10,905.93	-36.00	609.39	306.92	302.47	2.015	
22,705.25	12,459.10	22,719.79	12,481.10	149.93	152.85	92.07	-10,906.00	-36.00	609.40	306.91	302.49	2.015	SF

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	0.00 usft
Reference										Distance		Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,448.05	20,661.38	12,423.11	121.46	122.06	-87.83	-8,793.01	1,212.85	659.47	416.89	242.58	2.719	
20,700.00	12,448.57	20,761.38	12,423.64	122.81	123.40	-87.83	-8,893.01	1,213.76	659.47	414.18	245.29	2.689	
20,800.00	12,449.10	20,861.38	12,424.17	124.17	124.75	-87.83	-8,993.00	1,214.66	659.47	411.47	248.00	2.659	
20,900.00	12,449.62	20,961.38	12,424.69	125.53	126.09	-87.83	-9,093.00	1,215.57	659.47	408.76	250.71	2.630	
21,000.00	12,450.15	21,061.38	12,425.22	126.89	127.44	-87.83	-9,192.99	1,216.48	659.47	406.05	253.43	2.602	
21,100.00	12,450.67	21,161.38	12,425.74	128.24	128.79	-87.83	-9,292.99	1,217.39	659.47	403.33	256.14	2.575	
21,200.00	12,451.20	21,261.38	12,426.27	129.60	130.13	-87.83	-9,392.98	1,218.30	659.47	400.62	258.85	2.548	
21,300.00	12,451.72	21,361.38	12,426.80	130.96	131.48	-87.83	-9,492.97	1,219.21	659.47	397.91	261.57	2.521	
21,400.00	12,452.25	21,461.38	12,427.32	132.32	132.83	-87.83	-9,592.97	1,220.12	659.47	395.19	264.28	2.495	
21,500.00	12,452.77	21,561.38	12,427.85	133.68	134.18	-87.83	-9,692.96	1,221.02	659.47	392.48	267.00	2.470	
21,600.00	12,453.30	21,661.38	12,428.37	135.04	135.53	-87.83	-9,792.96	1,221.93	659.47	389.76	269.71	2.445	
21,700.00	12,453.82	21,761.38	12,428.90	136.40	136.88	-87.83	-9,892.95	1,222.84	659.47	387.05	272.43	2.421	
21,800.00	12,454.35	21,861.38	12,429.42	137.76	138.23	-87.83	-9,992.95	1,223.75	659.47	384.33	275.14	2.397	
21,900.00	12,454.87	21,961.38	12,429.95	139.12	139.58	-87.83	-10,092.94	1,224.66	659.47	381.61	277.86	2.373	
22,000.00	12,455.40	22,061.38	12,430.48	140.48	140.93	-87.83	-10,192.94	1,225.57	659.47	378.90	280.58	2.350	
22,100.00	12,455.92	22,161.38	12,431.00	141.84	142.28	-87.83	-10,292.93	1,226.48	659.47	376.18	283.29	2.328	
22,200.00	12,456.45	22,261.38	12,431.53	143.20	143.63	-87.83	-10,392.93	1,227.38	659.47	373.46	286.01	2.306	
22,300.00	12,456.97	22,361.38	12,432.05	144.56	144.99	-87.83	-10,492.92	1,228.29	659.47	370.74	288.73	2.284	
22,400.00	12,457.50	22,461.38	12,432.58	145.92	146.34	-87.83	-10,592.91	1,229.20	659.47	368.02	291.45	2.263	
22,500.00	12,458.02	22,561.38	12,433.11	147.28	147.69	-87.83	-10,692.91	1,230.11	659.47	365.30	294.17	2.242	
22,600.00	12,458.55	22,661.38	12,433.63	148.64	149.04	-87.83	-10,792.90	1,231.02	659.47	362.58	296.89	2.221	
22,700.00	12,459.07	22,761.38	12,434.16	149.86	150.40	-87.83	-10,892.90	1,231.93	659.47	360.01	299.46	2.202	
22,705.25	12,459.10	22,766.63	12,434.19	149.93	150.47	-87.83	-10,898.14	1,231.97	659.47	359.88	299.59	2.201	SF

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	0.00 usft
												Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
8,200.00	8,160.24	8,227.21	8,160.24	14.65	15.35	-90.41	-416.01	-1,762.43	2,240.04	2,210.81	29.23	76.647	
8,300.00	8,260.24	8,327.21	8,260.24	14.70	15.43	-90.41	-416.01	-1,762.43	2,240.04	2,210.69	29.34	76.337	
8,400.00	8,360.24	8,427.21	8,360.24	14.75	15.50	-90.41	-416.01	-1,762.43	2,240.04	2,210.57	29.46	76.028	
8,500.00	8,460.24	8,527.21	8,460.24	14.79	15.58	-90.41	-416.01	-1,762.43	2,240.04	2,210.45	29.58	75.720	
8,600.00	8,560.24	8,627.21	8,560.24	14.84	15.65	-90.41	-416.01	-1,762.43	2,240.04	2,210.33	29.70	75.415	
8,700.00	8,660.24	8,727.21	8,660.24	14.88	15.73	-90.41	-416.01	-1,762.43	2,240.04	2,210.21	29.82	75.110	
8,800.00	8,760.24	8,827.21	8,760.24	14.93	15.80	-90.41	-416.01	-1,762.43	2,240.04	2,210.09	29.94	74.808	
8,900.00	8,860.24	8,927.21	8,860.24	14.98	15.88	-90.41	-416.01	-1,762.43	2,240.04	2,209.97	30.07	74.506	
9,000.00	8,960.24	9,027.21	8,960.24	15.03	15.95	-90.41	-416.01	-1,762.43	2,240.04	2,209.85	30.19	74.206	
9,100.00	9,060.24	9,127.21	9,060.24	15.07	16.03	-90.41	-416.01	-1,762.43	2,240.04	2,209.73	30.31	73.908	
9,200.00	9,160.24	9,227.21	9,160.24	15.12	16.10	-90.41	-416.01	-1,762.43	2,240.04	2,209.61	30.43	73.611	
9,300.00	9,260.24	9,327.21	9,260.24	15.17	16.18	-90.41	-416.01	-1,762.43	2,240.04	2,209.48	30.55	73.316	
9,400.00	9,360.24	9,427.21	9,360.24	15.22	16.25	-90.41	-416.01	-1,762.43	2,240.04	2,209.36	30.68	73.022	
9,500.00	9,460.24	9,527.21	9,460.24	15.27	16.33	-90.41	-416.01	-1,762.43	2,240.04	2,209.24	30.80	72.730	
9,600.00	9,560.24	9,627.21	9,560.24	15.32	16.41	-90.41	-416.01	-1,762.43	2,240.04	2,209.11	30.92	72.439	
9,700.00	9,660.24	9,727.21	9,660.24	15.37	16.48	-90.41	-416.01	-1,762.43	2,240.04	2,208.99	31.05	72.150	
9,800.00	9,760.24	9,827.21	9,760.24	15.42	16.56	-90.41	-416.01	-1,762.43	2,240.04	2,208.87	31.17	71.862	
9,900.00	9,860.24	9,927.21	9,860.24	15.47	16.63	-90.41	-416.01	-1,762.43	2,240.04	2,208.74	31.30	71.576	
10,000.00	9,960.24	10,027.21	9,960.24	15.52	16.71	-90.41	-416.01	-1,762.43	2,240.04	2,208.62	31.42	71.291	
10,100.00	10,060.24	10,127.21	10,060.24	15.57	16.78	-90.41	-416.01	-1,762.43	2,240.04	2,208.49	31.55	71.008	
10,200.00	10,160.24	10,227.21	10,160.24	15.62	16.86	-90.41	-416.01	-1,762.43	2,240.04	2,208.36	31.67	70.726	
10,300.00	10,260.24	10,327.21	10,260.24	15.67	16.94	-90.41	-416.01	-1,762.43	2,240.04	2,208.24	31.80	70.446	
10,400.00	10,360.24	10,427.21	10,360.24	15.72	17.01	-90.41	-416.01	-1,762.43	2,240.04	2,208.11	31.92	70.167	
10,500.00	10,460.24	10,527.21	10,460.24	15.77	17.09	-90.41	-416.01	-1,762.43	2,240.04	2,207.99	32.05	69.890	
10,600.00	10,560.24	10,627.21	10,560.24	15.82	17.17	-90.41	-416.01	-1,762.43	2,240.04	2,207.86	32.18	69.614	
10,700.00	10,660.24	10,727.21	10,660.24	15.88	17.24	-90.41	-416.01	-1,762.43	2,240.04	2,207.73	32.30	69.340	
10,800.00	10,760.24	10,827.21	10,760.24	15.93	17.32	-90.41	-416.01	-1,762.43	2,240.04	2,207.60	32.43	69.068	
10,900.00	10,860.24	10,927.21	10,860.24	15.98	17.40	-90.41	-416.01	-1,762.43	2,240.04	2,207.48	32.56	68.796	
11,000.00	10,960.24	11,027.21	10,960.24	16.04	17.47	-90.41	-416.01	-1,762.43	2,240.04	2,207.35	32.69	68.527	
11,100.00	11,060.24	11,127.21	11,060.24	16.09	17.55	-90.41	-416.01	-1,762.43	2,240.04	2,207.22	32.82	68.258	
11,200.00	11,160.24	11,227.21	11,160.24	16.14	17.62	-90.41	-416.01	-1,762.43	2,240.04	2,207.09	32.95	67.992	
11,300.00	11,260.24	11,327.21	11,260.24	16.20	17.70	-90.41	-416.01	-1,762.43	2,240.04	2,206.96	33.07	67.726	
11,400.00	11,360.24	11,427.21	11,360.24	16.25	17.78	-90.41	-416.01	-1,762.43	2,240.04	2,206.83	33.20	67.463	
11,500.00	11,460.24	11,527.21	11,460.24	16.30	17.85	-90.41	-416.01	-1,762.43	2,240.04	2,206.70	33.33	67.200	
11,600.00	11,560.24	11,627.21	11,560.24	16.36	17.93	-90.41	-416.01	-1,762.43	2,240.04	2,206.57	33.46	66.939	
11,700.00	11,660.24	11,727.21	11,660.24	16.41	18.01	-90.41	-416.01	-1,762.43	2,240.04	2,206.44	33.59	66.680	
11,800.00	11,760.24	11,827.21	11,760.24	16.47	18.09	-90.41	-416.01	-1,762.43	2,240.04	2,206.31	33.72	66.422	
11,800.19	11,760.43	11,827.40	11,760.43	16.47	18.09	-90.41	-416.01	-1,762.43	2,240.04	2,206.31	33.72	66.422	
11,900.00	11,860.23	11,927.20	11,860.23	16.51	18.16	90.13	-416.01	-1,762.43	2,240.04	2,206.20	33.83	66.206	
12,000.00	11,959.22	12,026.20	11,959.22	16.62	18.24	90.46	-416.01	-1,762.43	2,240.11	2,206.13	33.98	65.931	
12,100.00	12,054.40	12,121.38	12,054.40	16.77	18.31	91.15	-416.01	-1,762.43	2,240.56	2,206.36	34.20	65.519	
12,200.00	12,142.89	12,209.87	12,142.89	16.94	18.38	92.04	-416.01	-1,762.43	2,242.04	2,207.54	34.50	64.984	
12,300.00	12,222.00	12,288.97	12,222.00	17.27	18.44	92.93	-416.01	-1,762.43	2,245.45	2,210.55	34.89	64.351	
12,400.00	12,289.31	12,356.24	12,289.26	17.78	18.48	93.56	-416.03	-1,762.43	2,251.77	2,216.41	35.36	63.685	
12,500.00	12,342.79	12,418.48	12,351.35	18.40	18.53	93.84	-419.85	-1,762.80	2,261.82	2,225.95	35.86	63.068	
12,600.00	12,380.81	12,485.45	12,417.27	19.13	18.56	93.87	-431.41	-1,763.91	2,275.78	2,239.37	36.41	62.511	
12,700.00	12,402.22	12,561.07	12,489.48	19.96	18.57	93.73	-453.57	-1,766.05	2,293.60	2,256.61	36.99	62.007	
12,800.00	12,407.10	12,656.64	12,575.51	20.85	18.59	94.35	-494.76	-1,770.01	2,314.94	2,277.33	37.61	61.546	
12,900.00	12,407.63	12,837.95	12,714.76	21.80	18.63	97.80	-609.15	-1,781.03	2,337.62	2,299.25	38.38	60.915	
13,000.00	12,408.15	13,182.90	12,853.31	22.78	19.05	101.03	-917.80	-1,810.75	2,355.21	2,315.18	40.03	58.839	
13,100.00	12,408.68	13,581.35	12,860.85	23.81	20.55	101.05	-1,315.29	-1,829.65	2,359.16	2,315.73	43.44	54.311	
13,200.00	12,409.20	13,681.35	12,861.72	24.86	21.13	101.06	-1,415.28	-1,828.79	2,359.28	2,314.20	45.08	52.338	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	
												Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
13,300.00	12,409.73	13,781.35	12,862.58	25.94	21.77	101.07	-1,515.27	-1,827.93	2,359.39	2,312.57	46.81	50.399	
13,400.00	12,410.25	13,881.35	12,863.45	27.05	22.48	101.07	-1,615.26	-1,827.07	2,359.50	2,310.86	48.64	48.510	
13,500.00	12,410.78	13,981.35	12,864.32	28.17	23.25	101.08	-1,715.25	-1,826.21	2,359.61	2,309.07	50.54	46.684	
13,600.00	12,411.30	14,081.35	12,865.19	29.32	24.07	101.09	-1,815.25	-1,825.35	2,359.73	2,307.21	52.52	44.931	
13,700.00	12,411.83	14,181.34	12,866.06	30.48	24.94	101.10	-1,915.24	-1,824.49	2,359.84	2,305.28	54.56	43.254	
13,800.00	12,412.35	14,281.34	12,866.92	31.66	25.85	101.11	-2,015.23	-1,823.62	2,359.95	2,303.30	56.65	41.657	
13,900.00	12,412.88	14,381.34	12,867.79	32.86	26.81	101.11	-2,115.22	-1,822.76	2,360.07	2,301.27	58.80	40.139	
14,000.00	12,413.40	14,481.34	12,868.66	34.06	27.80	101.12	-2,215.21	-1,821.90	2,360.18	2,299.19	60.99	38.700	
14,100.00	12,413.93	14,581.34	12,869.53	35.28	28.82	101.13	-2,315.21	-1,821.04	2,360.29	2,297.08	63.22	37.337	
14,200.00	12,414.45	14,681.34	12,870.40	36.51	29.87	101.14	-2,415.20	-1,820.18	2,360.41	2,294.93	65.48	36.047	
14,300.00	12,414.98	14,781.34	12,871.26	37.74	30.95	101.15	-2,515.19	-1,819.32	2,360.52	2,292.74	67.78	34.827	
14,400.00	12,415.50	14,881.34	12,872.13	38.99	32.05	101.15	-2,615.18	-1,818.46	2,360.63	2,290.53	70.11	33.672	
14,500.00	12,416.03	14,981.34	12,873.00	40.24	33.17	101.16	-2,715.17	-1,817.60	2,360.75	2,288.29	72.46	32.581	
14,600.00	12,416.55	15,081.34	12,873.87	41.50	34.31	101.17	-2,815.17	-1,816.74	2,360.86	2,286.03	74.84	31.548	
14,700.00	12,417.08	15,181.34	12,874.74	42.77	35.46	101.18	-2,915.16	-1,815.88	2,360.97	2,283.74	77.23	30.570	
14,800.00	12,417.60	15,281.34	12,875.60	44.04	36.63	101.19	-3,015.15	-1,815.02	2,361.09	2,281.44	79.65	29.643	
14,900.00	12,418.13	15,381.34	12,876.47	45.32	37.82	101.19	-3,115.14	-1,814.16	2,361.20	2,279.12	82.08	28.766	
15,000.00	12,418.65	15,481.34	12,877.34	46.60	39.01	101.20	-3,215.13	-1,813.30	2,361.31	2,276.78	84.53	27.933	
15,100.00	12,419.18	15,581.34	12,878.21	47.89	40.22	101.21	-3,315.13	-1,812.44	2,361.43	2,274.43	87.00	27.143	
15,200.00	12,419.70	15,681.34	12,879.08	49.18	41.44	101.22	-3,415.12	-1,811.57	2,361.54	2,272.06	89.48	26.392	
15,300.00	12,420.23	15,781.34	12,879.94	50.48	42.67	101.23	-3,515.11	-1,810.71	2,361.66	2,269.69	91.97	25.679	
15,400.00	12,420.75	15,881.33	12,880.81	51.78	43.90	101.23	-3,615.10	-1,809.85	2,361.77	2,267.30	94.47	25.000	
15,500.00	12,421.28	15,981.33	12,881.68	53.08	45.15	101.24	-3,715.09	-1,808.99	2,361.88	2,264.90	96.98	24.354	
15,600.00	12,421.80	16,081.33	12,882.55	54.38	46.40	101.25	-3,815.09	-1,808.13	2,362.00	2,262.49	99.50	23.738	
15,700.00	12,422.33	16,181.33	12,883.42	55.69	47.65	101.26	-3,915.08	-1,807.27	2,362.11	2,260.08	102.03	23.150	
15,800.00	12,422.85	16,281.33	12,884.28	57.00	48.92	101.26	-4,015.07	-1,806.41	2,362.23	2,257.65	104.57	22.589	
15,900.00	12,423.38	16,381.33	12,885.15	58.32	50.19	101.27	-4,115.06	-1,805.55	2,362.34	2,255.22	107.12	22.053	
16,000.00	12,423.90	16,481.33	12,886.02	59.64	51.46	101.28	-4,215.05	-1,804.69	2,362.45	2,252.78	109.67	21.541	
16,100.00	12,424.43	16,581.33	12,886.89	60.95	52.74	101.29	-4,315.05	-1,803.83	2,362.57	2,250.34	112.23	21.051	
16,200.00	12,424.95	16,681.33	12,887.76	62.28	54.03	101.30	-4,415.04	-1,802.97	2,362.68	2,247.89	114.80	20.582	
16,300.00	12,425.48	16,781.33	12,888.62	63.60	55.31	101.30	-4,515.03	-1,802.11	2,362.80	2,245.43	117.37	20.132	
16,400.00	12,426.00	16,881.33	12,889.49	64.92	56.61	101.31	-4,615.02	-1,801.25	2,362.91	2,242.97	119.94	19.700	
16,500.00	12,426.53	16,981.33	12,890.36	66.25	57.90	101.32	-4,715.01	-1,800.39	2,363.03	2,240.50	122.52	19.286	
16,600.00	12,427.05	17,081.33	12,891.23	67.58	59.20	101.33	-4,815.00	-1,799.52	2,363.14	2,238.03	125.11	18.888	
16,700.00	12,427.58	17,181.33	12,892.10	68.91	60.50	101.34	-4,915.00	-1,798.66	2,363.25	2,235.55	127.70	18.506	
16,800.00	12,428.10	17,281.33	12,892.97	70.24	61.81	101.34	-5,014.99	-1,797.80	2,363.37	2,233.07	130.29	18.139	
16,900.00	12,428.63	17,381.33	12,893.83	71.57	63.12	101.35	-5,114.98	-1,796.94	2,363.48	2,230.59	132.89	17.785	
17,000.00	12,429.15	17,481.33	12,894.70	72.91	64.43	101.36	-5,214.97	-1,796.08	2,363.60	2,228.11	135.49	17.445	
17,100.00	12,429.68	17,581.32	12,895.57	74.24	65.74	101.37	-5,314.96	-1,795.22	2,363.71	2,225.62	138.10	17.116	
17,200.00	12,430.20	17,681.32	12,896.44	75.58	67.06	101.38	-5,414.96	-1,794.36	2,363.83	2,223.12	140.70	16.800	
17,300.00	12,430.73	17,781.32	12,897.31	76.92	68.37	101.38	-5,514.95	-1,793.50	2,363.94	2,220.63	143.31	16.495	
17,400.00	12,431.25	17,881.32	12,898.17	78.26	69.69	101.39	-5,614.94	-1,792.64	2,364.06	2,218.13	145.93	16.200	
17,500.00	12,431.78	17,981.32	12,899.04	79.60	71.01	101.40	-5,714.93	-1,791.78	2,364.17	2,215.63	148.54	15.916	
17,600.00	12,432.30	18,081.32	12,899.91	80.94	72.34	101.41	-5,814.92	-1,790.92	2,364.29	2,213.12	151.16	15.641	
17,700.00	12,432.83	18,181.32	12,900.78	82.28	73.66	101.42	-5,914.92	-1,790.06	2,364.40	2,210.62	153.78	15.375	
17,800.00	12,433.35	18,281.32	12,901.65	83.62	74.99	101.42	-6,014.91	-1,789.20	2,364.52	2,208.11	156.41	15.118	
17,900.00	12,433.88	18,381.32	12,902.51	84.96	76.32	101.43	-6,114.90	-1,788.34	2,364.63	2,205.60	159.03	14.869	
18,000.00	12,434.40	18,481.32	12,903.38	86.31	77.65	101.44	-6,214.89	-1,787.47	2,364.75	2,203.09	161.66	14.628	
18,100.00	12,434.93	18,581.32	12,904.25	87.65	78.98	101.45	-6,314.88	-1,786.61	2,364.86	2,200.57	164.29	14.395	
18,200.00	12,435.45	18,681.32	12,905.12	89.00	80.31	101.46	-6,414.88	-1,785.75	2,364.98	2,198.06	166.92	14.169	
18,300.00	12,435.98	18,781.32	12,905.99	90.35	81.64	101.46	-6,514.87	-1,784.89	2,365.09	2,195.54	169.55	13.949	
18,400.00	12,436.50	18,881.32	12,906.85	91.69	82.98	101.47	-6,614.86	-1,784.03	2,365.21	2,193.02	172.18	13.737	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program:		0-MWD+HRGM+SAG+FDIR (rev.5)		Rule Assigned:		Offset Site Error:		0.00 usft					
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance					
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Between	Between	Minimum				
Depth	Depth	Depth	Depth			Tooface	+N/-S	+E/-W	Separation				
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(")	(usft)	(usft)	(usft)				
									Warning				
18,500.00	12,437.03	18,981.32	12,907.72	93.04	84.31	101.48	-6,714.85	-1,783.17	2,365.32	2,190.50	174.82	13.530	
18,600.00	12,437.55	19,081.32	12,908.59	94.39	85.65	101.49	-6,814.84	-1,782.31	2,365.44	2,187.98	177.46	13.330	
18,700.00	12,438.08	19,181.31	12,909.46	95.74	86.99	101.49	-6,914.84	-1,781.45	2,365.55	2,185.46	180.09	13.135	
18,800.00	12,438.60	19,281.31	12,910.33	97.09	88.33	101.50	-7,014.83	-1,780.59	2,365.67	2,182.93	182.73	12.946	
18,900.00	12,439.13	19,381.31	12,911.19	98.44	89.67	101.51	-7,114.82	-1,779.73	2,365.78	2,180.41	185.37	12.762	
19,000.00	12,439.65	19,481.31	12,912.06	99.79	91.01	101.52	-7,214.81	-1,778.87	2,365.90	2,177.88	188.02	12.584	
19,100.00	12,440.17	19,581.31	12,912.93	101.14	92.35	101.53	-7,314.80	-1,778.01	2,366.01	2,175.35	190.66	12.410	
19,200.00	12,440.70	19,681.31	12,913.80	102.49	93.69	101.53	-7,414.80	-1,777.15	2,366.13	2,172.83	193.30	12.241	
19,300.00	12,441.22	19,781.31	12,914.67	103.84	95.04	101.54	-7,514.79	-1,776.29	2,366.24	2,170.30	195.95	12.076	
19,400.00	12,441.75	19,881.31	12,915.53	105.20	96.38	101.55	-7,614.78	-1,775.42	2,366.36	2,167.77	198.59	11.916	
19,500.00	12,442.27	19,981.31	12,916.40	106.55	97.72	101.56	-7,714.77	-1,774.56	2,366.48	2,165.23	201.24	11.759	
19,600.00	12,442.80	20,081.31	12,917.27	107.90	99.07	101.57	-7,814.76	-1,773.70	2,366.59	2,162.70	203.89	11.607	
19,700.00	12,443.32	20,181.31	12,918.14	109.26	100.42	101.57	-7,914.75	-1,772.84	2,366.71	2,160.17	206.54	11.459	
19,800.00	12,443.85	20,281.31	12,919.01	110.61	101.76	101.58	-8,014.75	-1,771.98	2,366.82	2,157.64	209.19	11.314	
19,900.00	12,444.37	20,381.31	12,919.87	111.97	103.11	101.59	-8,114.74	-1,771.12	2,366.94	2,155.10	211.84	11.173	
20,000.00	12,444.90	20,481.31	12,920.74	113.32	104.46	101.60	-8,214.73	-1,770.26	2,367.05	2,152.57	214.49	11.036	
20,100.00	12,445.42	20,581.31	12,921.61	114.68	105.81	101.61	-8,314.72	-1,769.40	2,367.17	2,150.03	217.14	10.902	
20,200.00	12,445.95	20,681.31	12,922.48	116.03	107.16	101.61	-8,414.71	-1,768.54	2,367.29	2,147.49	219.79	10.771	
20,300.00	12,446.47	20,781.31	12,923.35	117.39	108.51	101.62	-8,514.71	-1,767.68	2,367.40	2,144.96	222.45	10.643	
20,400.00	12,447.00	20,881.30	12,924.21	118.74	109.86	101.63	-8,614.70	-1,766.82	2,367.52	2,142.42	225.10	10.518	
20,500.00	12,447.52	20,981.30	12,925.08	120.10	111.21	101.64	-8,714.69	-1,765.96	2,367.64	2,139.88	227.76	10.396	
20,600.00	12,448.05	21,081.30	12,925.95	121.46	112.56	101.64	-8,814.68	-1,765.10	2,367.75	2,137.34	230.41	10.276	
20,700.00	12,448.57	21,181.30	12,926.82	122.81	113.91	101.65	-8,914.67	-1,764.24	2,367.87	2,134.80	233.07	10.160	
20,800.00	12,449.10	21,281.30	12,927.69	124.17	115.26	101.66	-9,014.67	-1,763.37	2,367.98	2,132.26	235.72	10.046	
20,900.00	12,449.62	21,381.30	12,928.55	125.53	116.61	101.67	-9,114.66	-1,762.51	2,368.10	2,129.72	238.38	9.934	
21,000.00	12,450.15	21,481.30	12,929.42	126.89	117.97	101.68	-9,214.65	-1,761.65	2,368.22	2,127.18	241.04	9.825	
21,100.00	12,450.67	21,581.30	12,930.29	128.24	119.32	101.68	-9,314.64	-1,760.79	2,368.33	2,124.64	243.69	9.719	
21,200.00	12,451.20	21,681.30	12,931.16	129.60	120.67	101.69	-9,414.63	-1,759.93	2,368.45	2,122.10	246.35	9.614	
21,300.00	12,451.72	21,781.30	12,932.03	130.96	122.03	101.70	-9,514.63	-1,759.07	2,368.57	2,119.56	249.01	9.512	
21,400.00	12,452.25	21,881.30	12,932.89	132.32	123.38	101.71	-9,614.62	-1,758.21	2,368.68	2,117.01	251.67	9.412	
21,500.00	12,452.77	21,981.30	12,933.76	133.68	124.73	101.72	-9,714.61	-1,757.35	2,368.80	2,114.47	254.33	9.314	
21,600.00	12,453.30	22,081.30	12,934.63	135.04	126.09	101.72	-9,814.60	-1,756.49	2,368.92	2,111.93	256.99	9.218	
21,700.00	12,453.82	22,181.30	12,935.50	136.40	127.44	101.73	-9,914.59	-1,755.63	2,369.03	2,109.39	259.65	9.124	
21,800.00	12,454.35	22,281.30	12,936.37	137.76	128.80	101.74	-10,014.59	-1,754.77	2,369.15	2,106.84	262.31	9.032	
21,900.00	12,454.87	22,381.30	12,937.23	139.12	130.16	101.75	-10,114.58	-1,753.91	2,369.27	2,104.30	264.97	8.942	
22,000.00	12,455.40	22,481.30	12,938.10	140.48	131.51	101.76	-10,214.57	-1,753.05	2,369.38	2,101.75	267.63	8.853	
22,100.00	12,455.92	22,581.29	12,938.97	141.84	132.87	101.76	-10,314.56	-1,752.19	2,369.50	2,099.21	270.29	8.767	
22,200.00	12,456.45	22,681.29	12,939.84	143.20	134.23	101.77	-10,414.55	-1,751.32	2,369.62	2,096.67	272.95	8.681	
22,300.00	12,456.97	22,781.29	12,940.71	144.56	135.58	101.78	-10,514.54	-1,750.46	2,369.73	2,094.12	275.61	8.598	
22,400.00	12,457.50	22,881.29	12,941.57	145.92	136.94	101.79	-10,614.54	-1,749.60	2,369.85	2,091.58	278.27	8.516	
22,500.00	12,458.02	22,981.29	12,942.44	147.28	138.30	101.79	-10,714.53	-1,748.74	2,369.97	2,089.03	280.94	8.436	
22,600.00	12,458.55	23,081.29	12,943.31	148.64	139.65	101.80	-10,814.52	-1,747.88	2,370.08	2,086.49	283.60	8.357	
22,700.00	12,459.07	23,181.29	12,944.18	149.96	141.01	101.81	-10,914.51	-1,747.02	2,370.20	2,084.09	286.11	8.284	
22,705.25	12,459.10	23,184.44	12,944.21	149.93	141.07	101.81	-10,917.66	-1,746.99	2,370.21	2,084.01	286.20	8.282	ES, SF

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:				Offset Site Error:
														Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	2.00	0.00	0.50	0.50	0.00	210.00	0.00	210.00					
100.00	100.00	102.00	100.00	0.98	0.99	0.00	210.00	0.00	210.00	208.03	1.97	106.430		
200.00	200.00	202.00	200.00	1.56	1.57	0.00	210.00	0.00	210.00	206.87	3.13	67.081		
300.00	300.00	302.00	300.00	1.98	1.99	0.00	210.00	0.00	210.00	206.03	3.97	52.907	CC	
400.00	399.99	401.99	399.99	2.41	2.34	-110.33	210.00	0.00	210.45	205.78	4.67	45.070	ES	
500.00	499.91	501.91	499.91	2.77	2.64	-111.30	210.00	0.00	211.85	206.57	5.28	40.122		
600.00	599.77	601.77	599.77	3.04	2.91	-112.61	210.00	0.00	213.81	207.98	5.83	36.697		
700.00	699.63	701.63	699.63	3.29	3.17	-113.89	210.00	0.00	215.88	209.54	6.33	34.093		
800.00	799.50	801.50	799.50	3.53	3.40	-115.15	210.00	0.00	218.05	211.24	6.81	32.036		
900.00	899.36	901.36	899.36	3.76	3.63	-116.38	210.00	0.00	220.33	213.07	7.26	30.365		
1,000.00	999.22	1,001.22	999.22	3.98	3.84	-117.58	210.00	0.00	222.70	215.02	7.69	28.979		
1,100.00	1,099.09	1,101.09	1,099.09	4.20	4.04	-118.76	210.00	0.00	225.18	217.08	8.10	27.809		
1,200.00	1,198.95	1,200.95	1,198.95	4.41	4.23	-119.91	210.00	0.00	227.74	219.25	8.50	26.808		
1,300.00	1,298.81	1,300.81	1,298.81	4.62	4.42	-121.04	210.00	0.00	230.40	221.52	8.88	25.944		
1,400.00	1,398.68	1,400.68	1,398.68	4.82	4.60	-122.14	210.00	0.00	233.15	223.89	9.26	25.189		
1,500.00	1,498.54	1,500.54	1,498.54	5.03	4.78	-123.22	210.00	0.00	235.98	226.35	9.62	24.517		
1,600.00	1,598.34	1,600.34	1,598.34	5.24	4.95	-135.58	210.00	0.00	240.07	230.08	9.99	24.021		
1,700.00	1,697.95	1,699.95	1,697.95	5.47	5.11	-142.82	210.00	0.00	246.72	236.34	10.37	23.781		
1,800.00	1,797.32	1,799.32	1,797.32	5.69	5.28	-147.79	210.00	0.00	255.96	245.20	10.76	23.792		
1,900.00	1,896.41	1,898.41	1,896.41	5.83	5.43	-150.72	210.00	0.00	267.63	256.58	11.05	24.220		
2,000.00	1,995.43	1,997.43	1,995.43	6.02	5.59	-152.11	210.00	0.00	279.87	268.46	11.41	24.533		
2,100.00	2,094.46	2,096.46	2,094.46	6.22	5.76	-153.65	209.05	-0.89	291.72	279.96	11.76	24.814		
2,200.00	2,193.49	2,195.49	2,193.49	6.42	5.91	-155.55	206.09	-3.64	302.67	290.59	12.08	25.048		
2,300.00	2,292.52	2,294.52	2,292.52	6.62	6.06	-157.76	201.15	-8.23	312.93	300.52	12.41	25.213		
2,400.00	2,391.54	2,393.54	2,391.54	6.82	6.21	-160.27	194.26	-14.65	322.74	310.00	12.74	25.331		
2,500.00	2,490.57	2,492.57	2,490.57	7.01	6.36	-163.06	185.46	-22.84	332.35	319.28	13.07	25.422		
2,600.00	2,589.60	2,591.60	2,589.60	7.21	6.52	-166.09	174.80	-32.75	342.07	328.66	13.41	25.507		
2,700.00	2,688.63	2,690.63	2,688.63	7.41	6.67	-169.33	162.36	-44.32	352.21	338.45	13.76	25.606		
2,800.00	2,787.65	2,789.65	2,787.65	7.61	6.83	-172.75	148.22	-57.48	363.10	348.99	14.11	25.736		
2,900.00	2,886.68	2,888.68	2,886.68	7.81	6.95	-176.08	133.49	-71.19	375.15	360.68	14.47	25.930		
3,000.00	2,985.71	2,987.71	2,985.71	8.01	7.08	-179.21	118.75	-84.90	388.44	373.60	14.83	26.186		
3,100.00	3,084.74	3,086.74	3,084.74	8.21	7.22	-177.87	104.02	-98.62	402.83	387.63	15.20	26.494		
3,200.00	3,183.76	3,185.76	3,183.76	8.40	7.36	-175.14	89.28	-112.33	418.22	402.64	15.58	26.842		
3,300.00	3,282.79	3,284.79	3,282.79	8.60	7.50	-172.61	74.54	-126.04	434.51	418.54	15.96	27.223		
3,400.00	3,381.82	3,383.82	3,381.82	8.80	7.64	-170.26	59.81	-139.75	451.58	435.24	16.35	27.627		
3,500.00	3,480.85	3,482.85	3,480.85	9.00	7.81	-168.08	45.07	-153.46	469.37	452.63	16.73	28.053		
3,600.00	3,579.87	3,581.87	3,579.87	9.20	8.00	-166.06	30.34	-167.17	487.78	470.66	17.12	28.487		
3,700.00	3,678.90	3,680.90	3,678.90	9.40	8.20	-164.18	15.60	-180.88	506.76	489.24	17.52	28.928		
3,800.00	3,777.93	3,779.93	3,777.93	9.60	8.41	-162.43	0.87	-194.59	526.23	508.32	17.91	29.374		
3,900.00	3,876.96	3,878.96	3,876.96	9.80	8.62	-160.81	-13.87	-208.30	546.16	527.84	18.31	29.822		
4,000.00	3,975.98	3,977.98	3,975.98	10.00	8.84	-159.30	-28.60	-222.01	566.48	547.77	18.72	30.268		
4,100.00	4,075.01	4,077.01	4,075.01	10.20	9.06	-157.89	-43.34	-235.72	587.16	568.04	19.12	30.711		
4,200.00	4,174.04	4,176.04	4,174.04	10.40	9.29	-156.58	-58.07	-249.43	608.17	588.64	19.52	31.149		
4,300.00	4,273.07	4,275.07	4,273.07	10.60	9.52	-155.36	-72.81	-263.14	629.46	609.53	19.93	31.581		
4,400.00	4,372.09	4,374.09	4,372.09	10.80	9.75	-154.21	-87.54	-276.85	651.02	630.68	20.34	32.006		
4,500.00	4,471.12	4,473.12	4,471.12	11.00	9.99	-153.14	-102.28	-290.56	672.81	652.06	20.75	32.423		
4,600.00	4,570.15	4,572.15	4,570.15	11.20	10.22	-152.13	-117.01	-304.28	694.81	673.65	21.16	32.832		
4,700.00	4,669.18	4,671.18	4,669.18	11.40	10.46	-151.19	-131.75	-317.99	717.01	695.44	21.58	33.232		
4,800.00	4,768.21	4,770.21	4,768.21	11.60	10.71	-150.30	-146.48	-331.70	739.39	717.40	21.99	33.623		
4,900.00	4,867.23	4,869.23	4,867.23	11.80	10.95	-149.46	-161.22	-345.41	761.93	739.52	22.41	34.004		
5,000.00	4,966.26	4,968.26	4,966.26	12.00	11.20	-148.67	-175.96	-359.12	784.61	761.79	22.82	34.377		
5,100.00	5,065.29	5,067.29	5,065.29	12.20	11.45	-147.93	-190.69	-372.83	807.43	784.19	23.24	34.740		

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program:		0-MWD+HRGM+SAG+FDIR (rev.5)		Rule Assigned:		Offset Site Error:		0.00 usft						
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Offset Well Error:		0.50 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,200.00	5,164.32	5,128.38	5,069.69	12.40	11.70	147.22	-205.43	-386.54	830.38	806.71	23.66	35.094		
5,300.00	5,263.34	5,225.22	5,164.41	12.60	11.95	146.56	-220.16	-400.25	853.43	829.35	24.08	35.438		
5,400.00	5,362.37	5,322.05	5,259.13	12.81	12.20	145.92	-234.90	-413.96	876.60	852.09	24.50	35.774		
5,500.00	5,461.46	5,418.94	5,353.90	12.97	12.46	145.42	-249.64	-427.68	899.50	874.60	24.89	36.133		
5,600.00	5,560.84	5,516.12	5,448.97	13.17	12.72	144.94	-264.43	-441.44	920.59	895.27	25.31	36.369		
5,700.00	5,660.47	5,613.56	5,544.28	13.36	12.97	144.37	-279.26	-455.24	939.71	914.00	25.72	36.541		
5,800.00	5,760.30	5,711.19	5,639.77	13.54	13.24	143.73	-294.11	-469.06	956.91	930.81	26.10	36.659		
5,900.00	5,860.24	5,808.95	5,735.39	13.69	13.50	143.01	-308.99	-482.90	972.23	945.76	26.47	36.731		
6,000.00	5,960.24	5,906.76	5,831.07	13.75	13.76	-85.52	-323.87	-496.75	985.78	959.05	26.73	36.882		
6,100.00	6,060.24	6,004.57	5,926.75	13.78	14.03	-86.45	-338.76	-510.60	999.01	972.04	26.98	37.035		
6,200.00	6,160.24	6,111.70	6,031.61	13.82	14.28	-87.41	-354.79	-525.52	1,012.30	985.07	27.23	37.175		
6,300.00	6,260.24	6,231.09	6,149.07	13.86	14.57	-88.33	-370.41	-540.05	1,024.09	996.54	27.55	37.171		
6,400.00	6,360.24	6,351.72	6,268.37	13.90	14.83	-89.07	-383.46	-552.19	1,033.97	1,006.12	27.85	37.128		
6,500.00	6,460.24	6,473.38	6,389.20	13.94	15.05	-89.65	-393.82	-561.83	1,041.83	1,013.70	28.12	37.048		
6,600.00	6,560.24	6,595.82	6,511.20	13.98	15.24	-90.07	-401.39	-568.88	1,047.58	1,019.21	28.37	36.929		
6,700.00	6,660.24	6,718.81	6,634.01	14.02	15.38	-90.33	-406.12	-573.28	1,051.17	1,022.59	28.58	36.779		
6,800.00	6,760.24	6,842.08	6,757.26	14.06	15.48	-90.43	-407.95	-574.98	1,052.56	1,023.82	28.74	36.626		
6,900.00	6,860.24	6,945.06	6,860.24	14.10	15.50	-90.43	-407.97	-575.00	1,052.58	1,023.77	28.81	36.540		
7,000.00	6,960.24	7,045.06	6,960.24	14.14	15.54	-90.43	-407.97	-575.00	1,052.58	1,023.69	28.89	36.438		
7,100.00	7,060.24	7,145.06	7,060.24	14.18	15.58	-90.43	-407.97	-575.00	1,052.58	1,023.61	28.97	36.336		
7,200.00	7,160.24	7,245.06	7,160.24	14.22	15.63	-90.43	-407.97	-575.00	1,052.58	1,023.53	29.05	36.233		
7,300.00	7,260.24	7,345.06	7,260.24	14.26	15.67	-90.43	-407.97	-575.00	1,052.58	1,023.45	29.13	36.131		
7,400.00	7,360.24	7,445.06	7,360.24	14.30	15.71	-90.43	-407.97	-575.00	1,052.58	1,023.36	29.22	36.027		
7,500.00	7,460.24	7,545.06	7,460.24	14.35	15.75	-90.43	-407.97	-575.00	1,052.58	1,023.28	29.30	35.924		
7,600.00	7,560.24	7,645.06	7,560.24	14.39	15.79	-90.43	-407.97	-575.00	1,052.58	1,023.19	29.38	35.821		
7,700.00	7,660.24	7,745.06	7,660.24	14.43	15.84	-90.43	-407.97	-575.00	1,052.58	1,023.11	29.47	35.717		
7,800.00	7,760.24	7,845.06	7,760.24	14.48	15.88	-90.43	-407.97	-575.00	1,052.58	1,023.02	29.56	35.613		
7,900.00	7,860.24	7,945.06	7,860.24	14.52	15.92	-90.43	-407.97	-575.00	1,052.58	1,022.94	29.64	35.509		
8,000.00	7,960.24	8,045.06	7,960.24	14.57	15.97	-90.43	-407.97	-575.00	1,052.58	1,022.85	29.73	35.405		
8,100.00	8,060.24	8,145.06	8,060.24	14.61	16.01	-90.43	-407.97	-575.00	1,052.58	1,022.76	29.82	35.300		
8,200.00	8,160.24	8,245.06	8,160.24	14.65	16.05	-90.43	-407.97	-575.00	1,052.58	1,022.67	29.91	35.196		
8,300.00	8,260.24	8,345.06	8,260.24	14.70	16.10	-90.43	-407.97	-575.00	1,052.58	1,022.58	30.00	35.091		
8,400.00	8,360.24	8,445.06	8,360.24	14.75	16.14	-90.43	-407.97	-575.00	1,052.58	1,022.49	30.09	34.987		
8,500.00	8,460.24	8,545.06	8,460.24	14.79	16.19	-90.43	-407.97	-575.00	1,052.58	1,022.40	30.18	34.882		
8,600.00	8,560.24	8,645.06	8,560.24	14.84	16.23	-90.43	-407.97	-575.00	1,052.58	1,022.31	30.27	34.777		
8,700.00	8,660.24	8,745.06	8,660.24	14.88	16.28	-90.43	-407.97	-575.00	1,052.58	1,022.22	30.36	34.672		
8,800.00	8,760.24	8,845.06	8,760.24	14.93	16.33	-90.43	-407.97	-575.00	1,052.58	1,022.13	30.45	34.567		
8,900.00	8,860.24	8,945.06	8,860.24	14.98	16.37	-90.43	-407.97	-575.00	1,052.58	1,022.04	30.54	34.462		
9,000.00	8,960.24	9,045.06	8,960.24	15.03	16.42	-90.43	-407.97	-575.00	1,052.58	1,021.94	30.64	34.357		
9,100.00	9,060.24	9,145.06	9,060.24	15.07	16.47	-90.43	-407.97	-575.00	1,052.58	1,021.85	30.73	34.252		
9,200.00	9,160.24	9,245.06	9,160.24	15.12	16.51	-90.43	-407.97	-575.00	1,052.58	1,021.75	30.83	34.147		
9,300.00	9,260.24	9,345.06	9,260.24	15.17	16.56	-90.43	-407.97	-575.00	1,052.58	1,021.66	30.92	34.042		
9,400.00	9,360.24	9,445.06	9,360.24	15.22	16.61	-90.43	-407.97	-575.00	1,052.58	1,021.56	31.02	33.937		
9,500.00	9,460.24	9,545.06	9,460.24	15.27	16.66	-90.43	-407.97	-575.00	1,052.58	1,021.47	31.11	33.832		
9,600.00	9,560.24	9,645.06	9,560.24	15.32	16.70	-90.43	-407.97	-575.00	1,052.58	1,021.37	31.21	33.727		
9,700.00	9,660.24	9,745.06	9,660.24	15.37	16.75	-90.43	-407.97	-575.00	1,052.58	1,021.27	31.31	33.622		
9,800.00	9,760.24	9,845.06	9,760.24	15.42	16.80	-90.43	-407.97	-575.00	1,052.58	1,021.18	31.40	33.517		
9,900.00	9,860.24	9,945.06	9,860.24	15.47	16.85	-90.43	-407.97	-575.00	1,052.58	1,021.08	31.50	33.412		
10,000.00	9,960.24	10,045.06	9,960.24	15.52	16.90	-90.43	-407.97	-575.00	1,052.58	1,020.98	31.60	33.308		
10,100.00	10,060.24	10,145.06	10,060.24	15.57	16.95	-90.43	-407.97	-575.00	1,052.58	1,020.88	31.70	33.203		
10,200.00	10,160.24	10,245.06	10,160.24	15.62	17.00	-90.43	-407.97	-575.00	1,052.58	1,020.78	31.80	33.099		
10,300.00	10,260.24	10,345.06	10,260.24	15.67	17.05	-90.43	-407.97	-575.00	1,052.58	1,020.68	31.90	32.994		

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

8/18/2025 4:11:19PM

Page 64 of 74

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	
												Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
15,400.00	12,420.75	15,836.38	12,809.79	51.78	54.32	111.45	-3,606.12	-483.47	1,063.80	962.74	101.06	10.526	
15,500.00	12,421.28	15,936.38	12,810.32	53.08	55.63	111.45	-3,706.12	-482.56	1,063.80	960.33	103.47	10.281	
15,600.00	12,421.80	16,036.38	12,810.84	54.38	56.94	111.45	-3,806.11	-481.65	1,063.80	957.91	105.89	10.046	
15,700.00	12,422.33	16,136.38	12,811.37	55.69	58.25	111.45	-3,906.11	-480.74	1,063.80	955.48	108.32	9.821	
15,800.00	12,422.85	16,236.38	12,811.89	57.00	59.57	111.45	-4,006.10	-479.83	1,063.80	953.04	110.75	9.605	
15,900.00	12,423.38	16,336.38	12,812.42	58.32	60.89	111.45	-4,106.09	-478.92	1,063.80	950.60	113.19	9.398	
16,000.00	12,423.90	16,436.38	12,812.95	59.64	62.21	111.45	-4,206.09	-478.01	1,063.80	948.16	115.64	9.199	
16,100.00	12,424.43	16,536.38	12,813.47	60.95	63.53	111.45	-4,306.08	-477.10	1,063.79	945.71	118.09	9.008	
16,200.00	12,424.95	16,636.38	12,814.00	62.28	64.86	111.45	-4,406.08	-476.19	1,063.79	943.25	120.55	8.825	
16,300.00	12,425.48	16,736.38	12,814.52	63.60	66.19	111.45	-4,506.07	-475.28	1,063.79	940.79	123.01	8.648	
16,400.00	12,426.00	16,836.38	12,815.05	64.92	67.52	111.45	-4,606.07	-474.37	1,063.79	938.32	125.47	8.478	
16,500.00	12,426.53	16,936.38	12,815.58	66.25	68.85	111.45	-4,706.06	-473.46	1,063.79	935.85	127.94	8.315	
16,600.00	12,427.05	17,036.38	12,816.10	67.58	70.18	111.45	-4,806.06	-472.55	1,063.79	933.38	130.41	8.157	
16,700.00	12,427.58	17,136.38	12,816.63	68.91	71.51	111.45	-4,906.05	-471.64	1,063.79	930.90	132.89	8.005	
16,800.00	12,428.10	17,236.38	12,817.15	70.24	72.84	111.45	-5,006.04	-470.73	1,063.79	928.42	135.37	7.858	
16,900.00	12,428.63	17,336.38	12,817.68	71.57	74.18	111.45	-5,106.04	-469.82	1,063.79	925.93	137.85	7.717	
17,000.00	12,429.15	17,436.38	12,818.21	72.91	75.52	111.45	-5,206.03	-468.90	1,063.78	923.44	140.34	7.580	
17,100.00	12,429.68	17,536.38	12,818.73	74.24	76.85	111.45	-5,306.03	-467.99	1,063.78	920.95	142.83	7.448	
17,200.00	12,430.20	17,636.38	12,819.26	75.58	78.19	111.45	-5,406.02	-467.08	1,063.78	918.46	145.32	7.320	
17,300.00	12,430.73	17,736.38	12,819.78	76.92	79.53	111.45	-5,506.02	-466.17	1,063.78	915.96	147.82	7.197	
17,400.00	12,431.25	17,836.38	12,820.31	78.26	80.87	111.45	-5,606.01	-465.26	1,063.78	913.46	150.32	7.077	
17,500.00	12,431.78	17,936.38	12,820.84	79.60	82.22	111.45	-5,706.01	-464.35	1,063.78	910.96	152.82	6.961	
17,600.00	12,432.30	18,036.38	12,821.36	80.94	83.56	111.45	-5,806.00	-463.44	1,063.78	908.46	155.32	6.849	
17,700.00	12,432.83	18,136.38	12,821.89	82.28	84.90	111.45	-5,906.00	-462.53	1,063.78	905.95	157.82	6.740	
17,800.00	12,433.35	18,236.38	12,822.41	83.62	86.25	111.45	-6,005.99	-461.62	1,063.78	903.44	160.33	6.635	
17,900.00	12,433.88	18,336.38	12,822.94	84.96	87.59	111.45	-6,105.98	-460.71	1,063.77	900.93	162.84	6.533	
18,000.00	12,434.40	18,436.38	12,823.47	86.31	88.94	111.45	-6,205.98	-459.80	1,063.77	898.42	165.35	6.433	
18,100.00	12,434.93	18,536.38	12,823.99	87.65	90.28	111.45	-6,305.97	-458.89	1,063.77	895.91	167.86	6.337	
18,200.00	12,435.45	18,636.38	12,824.52	89.00	91.63	111.45	-6,405.97	-457.98	1,063.77	893.39	170.38	6.244	
18,300.00	12,435.98	18,736.38	12,825.04	90.35	92.98	111.45	-6,505.96	-457.07	1,063.77	890.88	172.90	6.153	
18,400.00	12,436.50	18,836.38	12,825.57	91.69	94.33	111.45	-6,605.96	-456.16	1,063.77	888.36	175.41	6.064	
18,500.00	12,437.03	18,936.38	12,826.10	93.04	95.68	111.45	-6,705.95	-455.25	1,063.77	885.84	177.93	5.978	
18,600.00	12,437.55	19,036.38	12,826.62	94.39	97.03	111.45	-6,805.95	-454.34	1,063.77	883.31	180.45	5.895	
18,700.00	12,438.08	19,136.38	12,827.15	95.74	98.38	111.45	-6,905.94	-453.43	1,063.77	880.79	182.98	5.814	
18,800.00	12,438.60	19,236.38	12,827.67	97.09	99.73	111.45	-7,005.93	-452.52	1,063.77	878.27	185.50	5.735	
18,900.00	12,439.13	19,336.38	12,828.20	98.44	101.08	111.45	-7,105.93	-451.61	1,063.76	875.74	188.02	5.658	
19,000.00	12,439.65	19,436.38	12,828.73	99.79	102.43	111.45	-7,205.92	-450.70	1,063.76	873.21	190.55	5.583	
19,100.00	12,440.17	19,536.38	12,829.25	101.14	103.78	111.45	-7,305.92	-449.79	1,063.76	870.68	193.08	5.510	
19,200.00	12,440.70	19,636.38	12,829.78	102.49	105.13	111.45	-7,405.91	-448.88	1,063.76	868.15	195.61	5.438	
19,300.00	12,441.22	19,736.38	12,830.30	103.84	106.49	111.45	-7,505.91	-447.97	1,063.76	865.62	198.14	5.369	
19,400.00	12,441.75	19,836.38	12,830.83	105.20	107.84	111.45	-7,605.90	-447.06	1,063.76	863.09	200.67	5.301	
19,500.00	12,442.27	19,936.38	12,831.36	106.55	109.19	111.45	-7,705.90	-446.15	1,063.76	860.56	203.20	5.235	
19,600.00	12,442.80	20,036.38	12,831.88	107.90	110.55	111.45	-7,805.89	-445.24	1,063.76	858.03	205.73	5.171	
19,700.00	12,443.32	20,136.38	12,832.41	109.26	111.90	111.45	-7,905.88	-444.33	1,063.76	855.49	208.26	5.108	
19,800.00	12,443.85	20,236.38	12,832.93	110.61	113.26	111.46	-8,005.88	-443.42	1,063.75	852.96	210.80	5.046	
19,900.00	12,444.37	20,336.38	12,833.46	111.97	114.61	111.46	-8,105.87	-442.51	1,063.75	850.42	213.33	4.986	
20,000.00	12,444.90	20,436.38	12,833.99	113.32	115.97	111.46	-8,205.87	-441.60	1,063.75	847.88	215.87	4.928	
20,100.00	12,445.42	20,536.38	12,834.51	114.68	117.32	111.46	-8,305.86	-440.69	1,063.75	845.34	218.41	4.870	
20,200.00	12,445.95	20,636.38	12,835.04	116.03	118.68	111.46	-8,405.86	-439.78	1,063.75	842.80	220.95	4.815	
20,300.00	12,446.47	20,736.38	12,835.56	117.39	120.04	111.46	-8,505.85	-438.87	1,063.75	840.26	223.48	4.760	
20,400.00	12,447.00	20,836.38	12,836.09	118.74	121.39	111.46	-8,605.85	-437.96	1,063.75	837.72	226.02	4.706	
20,500.00	12,447.52	20,936.38	12,836.62	120.10	122.75	111.46	-8,705.84	-437.05	1,063.75	835.18	228.56	4.654	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	0.00 usft
Reference										Distance		Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,448.05	21,036.38	12,837.14	121.46	124.11	111.46	-8,805.83	-436.14	1,063.75	832.64	231.10	4.603	
20,700.00	12,448.57	21,136.38	12,837.67	122.81	125.47	111.46	-8,905.83	-435.23	1,063.74	830.10	233.65	4.553	
20,800.00	12,449.10	21,236.38	12,838.19	124.17	126.82	111.46	-9,005.82	-434.32	1,063.74	827.56	236.19	4.504	
20,900.00	12,449.62	21,336.38	12,838.72	125.53	128.18	111.46	-9,105.82	-433.41	1,063.74	825.01	238.73	4.456	
21,000.00	12,450.15	21,436.38	12,839.25	126.89	129.54	111.46	-9,205.81	-432.49	1,063.74	822.47	241.27	4.409	
21,100.00	12,450.67	21,536.38	12,839.77	128.24	130.90	111.46	-9,305.81	-431.58	1,063.74	819.92	243.82	4.363	
21,200.00	12,451.20	21,636.38	12,840.30	129.60	132.26	111.46	-9,405.80	-430.67	1,063.74	817.38	246.36	4.318	
21,300.00	12,451.72	21,736.38	12,840.82	130.96	133.62	111.46	-9,505.80	-429.76	1,063.74	814.83	248.91	4.274	
21,400.00	12,452.25	21,836.38	12,841.35	132.32	134.97	111.46	-9,605.79	-428.85	1,063.74	812.28	251.45	4.230	
21,500.00	12,452.77	21,936.38	12,841.88	133.68	136.33	111.46	-9,705.79	-427.94	1,063.74	809.74	254.00	4.188	
21,600.00	12,453.30	22,036.38	12,842.40	135.04	137.69	111.46	-9,805.78	-427.03	1,063.73	807.19	256.55	4.146	
21,700.00	12,453.82	22,136.38	12,842.93	136.40	139.05	111.46	-9,905.77	-426.12	1,063.73	804.64	259.09	4.106	
21,800.00	12,454.35	22,236.38	12,843.45	137.76	140.41	111.46	-10,005.77	-425.21	1,063.73	802.09	261.64	4.066	
21,900.00	12,454.87	22,336.38	12,843.98	139.12	141.77	111.46	-10,105.76	-424.30	1,063.73	799.54	264.19	4.026	
22,000.00	12,455.40	22,436.38	12,844.51	140.48	143.13	111.46	-10,205.76	-423.39	1,063.73	796.99	266.74	3.988	
22,100.00	12,455.92	22,536.38	12,845.03	141.84	144.49	111.46	-10,305.75	-422.48	1,063.73	794.44	269.29	3.950	
22,200.00	12,456.45	22,636.38	12,845.56	143.20	145.86	111.46	-10,405.75	-421.57	1,063.73	791.89	271.83	3.913	
22,300.00	12,456.97	22,736.38	12,846.08	144.56	147.22	111.46	-10,505.74	-420.66	1,063.73	789.34	274.38	3.877	
22,400.00	12,457.50	22,836.38	12,846.61	145.92	148.58	111.46	-10,605.74	-419.75	1,063.73	786.79	276.93	3.841	
22,500.00	12,458.02	22,936.38	12,847.14	147.28	149.94	111.46	-10,705.73	-418.84	1,063.72	784.24	279.49	3.806	
22,600.00	12,458.55	23,036.38	12,847.66	148.64	151.30	111.46	-10,805.72	-417.93	1,063.72	781.69	282.04	3.772	
22,700.00	12,459.07	23,136.38	12,848.19	149.86	152.66	111.46	-10,905.72	-417.02	1,063.72	779.29	284.44	3.740	
22,702.55	12,459.09	23,138.93	12,848.20	149.89	152.70	111.46	-10,908.26	-417.00	1,063.72	779.23	284.50	3.739	
22,705.25	12,459.10	23,139.21	12,848.20	149.93	152.71	111.46	-10,908.55	-417.00	1,063.73	779.19	284.53	3.739	SF

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	0.00 usft	
												Offset Well Error:	0.50 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	0.00	0.50	0.50	0.00	0.00	25.00	0.00	25.00				
100.00	100.00	102.00	100.00	0.98	0.99	0.00	0.00	25.00	0.00	25.00	23.03	1.97	12.670	
200.00	200.00	202.00	200.00	1.56	1.57	0.00	0.00	25.00	0.00	25.00	21.87	3.13	7.986	
300.00	300.00	302.00	300.00	1.98	1.99	0.00	0.00	25.00	0.00	25.00	21.03	3.97	6.298	CC
400.00	399.99	401.99	399.99	2.41	2.34	-112.76	0.00	25.00	0.00	25.48	20.81	4.67	5.453	ES
500.00	499.91	501.91	499.91	2.77	2.64	-120.37	0.00	25.00	0.00	27.24	21.94	5.30	5.140	
600.00	599.77	601.77	599.77	3.04	2.91	-128.95	0.00	25.00	0.00	30.23	24.36	5.86	5.155	
700.00	699.63	701.63	699.63	3.29	3.17	-135.87	0.00	25.00	0.00	33.76	27.38	6.38	5.289	
800.00	799.50	801.50	799.50	3.53	3.40	-141.42	0.00	25.00	0.00	37.70	30.83	6.87	5.486	
900.00	899.36	901.36	899.36	3.76	3.63	-145.88	0.00	25.00	0.00	41.92	34.59	7.33	5.716	
1,000.00	999.22	1,001.22	999.22	3.98	3.84	-149.51	0.00	25.00	0.00	46.35	38.57	7.77	5.961	
1,100.00	1,099.09	1,101.09	1,099.09	4.20	4.04	-152.50	0.00	25.00	0.00	50.93	42.73	8.20	6.212	
1,200.00	1,198.95	1,200.95	1,198.95	4.41	4.23	-154.99	0.00	25.00	0.00	55.62	47.02	8.61	6.462	
1,300.00	1,298.81	1,300.81	1,298.81	4.62	4.42	-157.09	0.00	25.00	0.00	60.41	51.40	9.01	6.708	
1,400.00	1,398.68	1,400.68	1,398.68	4.82	4.60	-158.88	0.00	25.00	0.00	65.26	55.87	9.39	6.948	
1,500.00	1,498.54	1,500.54	1,498.54	5.03	4.78	-160.42	0.00	25.00	0.00	70.17	60.40	9.77	7.180	
1,600.00	1,598.34	1,600.34	1,598.34	5.24	4.95	-172.73	0.00	25.00	0.00	76.34	66.18	10.16	7.512	
1,700.00	1,697.95	1,699.95	1,697.95	5.47	5.11	-179.12	0.00	25.00	0.00	85.03	74.48	10.56	8.055	
1,800.00	1,797.32	1,801.82	1,799.81	5.69	5.30	177.55	24.37	1.20	94.93	83.96	10.97	8.652		
1,900.00	1,896.41	1,903.97	1,901.87	5.83	5.47	176.95	22.47	4.82	104.50	93.23	11.27	9.276		
2,000.00	1,995.43	2,006.51	2,004.18	6.02	5.64	178.05	19.30	10.89	111.91	100.29	11.62	9.631		
2,100.00	2,094.46	2,109.36	2,106.58	6.22	5.82	179.33	14.84	19.42	116.74	104.77	11.97	9.753		
2,200.00	2,193.49	2,212.37	2,208.84	6.42	5.99	-179.15	9.09	30.40	119.02	106.71	12.31	9.666		
2,300.00	2,292.52	2,315.38	2,310.72	6.62	6.17	-177.30	2.06	43.82	118.81	106.16	12.65	9.390		
2,400.00	2,391.54	2,418.25	2,412.02	6.82	6.34	-175.00	-6.23	59.65	116.17	103.18	12.99	8.946		
2,500.00	2,490.57	2,520.82	2,512.52	7.01	6.52	-172.07	-15.75	77.83	111.22	97.91	13.31	8.355		
2,600.00	2,589.60	2,622.96	2,612.00	7.21	6.68	-168.23	-26.46	98.31	104.17	90.56	13.61	7.654		
2,700.00	2,688.63	2,722.87	2,708.87	7.41	6.79	-163.38	-37.81	119.98	95.99	82.11	13.88	6.915		
2,800.00	2,787.65	2,822.17	2,805.13	7.61	6.94	-157.69	-49.12	141.59	88.55	74.34	14.21	6.230		
2,900.00	2,886.68	2,921.47	2,901.39	7.81	7.09	-151.03	-60.44	163.20	82.14	67.59	14.55	5.644		
3,000.00	2,985.71	3,020.77	2,997.65	8.01	7.26	-143.39	-71.75	184.81	77.03	62.11	14.91	5.166		
3,100.00	3,084.74	3,120.07	3,093.90	8.21	7.49	-134.85	-83.06	206.42	73.47	58.17	15.29	4.804		
3,200.00	3,183.76	3,219.37	3,190.16	8.40	7.74	-125.68	-94.37	228.03	71.70	55.99	15.71	4.565		
3,241.81	3,225.17	3,260.89	3,230.41	8.49	7.85	-121.76	-99.10	237.06	71.53	55.64	15.89	4.501		
3,300.00	3,282.79	3,318.67	3,286.42	8.60	7.99	-116.30	-105.69	249.64	71.86	55.70	16.16	4.448		
3,400.00	3,381.82	3,417.97	3,382.67	8.80	8.25	-107.21	-117.00	271.25	73.93	57.30	16.63	4.445		
3,500.00	3,480.85	3,517.27	3,478.93	9.00	8.52	-98.80	-128.31	292.86	77.76	60.65	17.12	4.543		
3,600.00	3,579.87	3,616.57	3,575.19	9.20	8.79	-91.32	-139.62	314.47	83.11	65.51	17.60	4.722		
3,700.00	3,678.90	3,715.86	3,671.45	9.40	9.07	-84.83	-150.94	336.08	89.71	71.63	18.08	4.963		
3,800.00	3,777.93	3,815.16	3,767.70	9.60	9.35	-79.28	-162.25	357.69	97.30	78.76	18.54	5.248		
3,900.00	3,876.96	3,914.46	3,863.96	9.80	9.63	-74.56	-173.56	379.30	105.66	86.67	18.99	5.563		
4,000.00	3,975.98	4,013.76	3,960.22	10.00	9.92	-70.56	-184.87	400.91	114.64	95.20	19.44	5.898		
4,100.00	4,075.01	4,113.06	4,056.47	10.20	10.21	-67.15	-196.19	422.51	124.09	104.21	19.88	6.243		
4,200.00	4,174.04	4,212.36	4,152.73	10.40	10.50	-64.22	-207.50	444.12	133.92	113.61	20.31	6.594		
4,300.00	4,273.07	4,311.66	4,248.99	10.60	10.80	-61.70	-218.81	465.73	144.05	123.31	20.74	6.945		
4,400.00	4,372.09	4,410.96	4,345.25	10.80	11.10	-59.52	-230.12	487.34	154.41	133.24	21.17	7.295		
4,500.00	4,471.12	4,510.26	4,441.50	11.00	11.40	-57.61	-241.44	508.95	164.97	143.38	21.59	7.640		
4,600.00	4,570.15	4,609.56	4,537.76	11.20	11.71	-55.93	-252.75	530.56	175.70	153.68	22.02	7.979		
4,700.00	4,669.18	4,708.86	4,634.02	11.40	12.01	-54.45	-264.06	552.17	186.55	164.10	22.45	8.311		
4,800.00	4,768.21	4,808.16	4,730.28	11.60	12.32	-53.12	-275.37	573.78	197.51	174.64	22.87	8.636		
4,900.00	4,867.23	4,907.46	4,826.53	11.80	12.63	-51.94	-286.69	595.39	208.57	185.27	23.30	8.952		
5,000.00	4,966.26	5,006.76	4,922.79	12.00	12.94	-50.88	-298.00	617.00	219.71	195.98	23.72	9.261		

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	0.00 usft
												Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,065.29	5,106.06	5,019.05	12.20	13.26	-49.92	-309.31	638.61	230.91	206.76	24.15	9.562	
5,200.00	5,164.32	5,205.36	5,115.30	12.40	13.57	-49.05	-320.62	660.22	242.17	217.60	24.58	9.854	
5,300.00	5,263.34	5,304.66	5,211.56	12.60	13.89	-48.26	-331.94	681.83	253.49	228.48	25.00	10.138	
5,400.00	5,362.37	5,403.96	5,307.82	12.81	14.21	-47.53	-343.25	703.44	264.84	239.41	25.44	10.412	
5,500.00	5,461.46	5,509.53	5,410.49	12.97	14.52	-46.98	-354.64	725.20	275.43	249.55	25.87	10.644	
5,600.00	5,560.84	5,615.58	5,514.27	13.17	14.82	-46.45	-364.76	744.53	285.33	259.01	26.32	10.840	
5,700.00	5,660.47	5,721.98	5,618.96	13.36	15.09	-45.86	-373.56	761.35	294.72	267.99	26.73	11.026	
5,800.00	5,760.30	5,828.70	5,724.45	13.54	15.32	-45.23	-381.03	775.61	303.59	276.49	27.10	11.204	
5,900.00	5,860.24	5,935.73	5,830.66	13.69	15.53	-44.53	-387.14	787.29	311.94	284.52	27.42	11.376	
6,000.00	5,960.24	6,043.07	5,937.51	13.75	15.70	-88.52	-391.89	796.35	319.72	292.10	27.62	11.575	
6,100.00	6,060.24	6,150.83	6,045.02	13.78	15.84	89.14	-395.25	802.77	325.61	297.82	27.79	11.715	
6,200.00	6,160.24	6,258.91	6,153.02	13.82	15.96	89.49	-397.20	806.50	329.05	301.10	27.95	11.775	
6,300.00	6,260.24	6,366.14	6,260.24	13.86	16.02	89.59	-397.75	807.55	330.01	301.98	28.03	11.773	
6,400.00	6,360.24	6,466.14	6,360.24	13.90	16.05	89.59	-397.75	807.55	330.01	301.90	28.11	11.741	
6,500.00	6,460.24	6,566.14	6,460.24	13.94	16.10	89.59	-397.75	807.55	330.01	301.81	28.20	11.704	
6,600.00	6,560.24	6,666.14	6,560.24	13.98	16.15	89.59	-397.75	807.55	330.01	301.72	28.28	11.668	
6,700.00	6,660.24	6,766.14	6,660.24	14.02	16.20	89.59	-397.75	807.55	330.01	301.64	28.37	11.631	
6,800.00	6,760.24	6,866.14	6,760.24	14.06	16.25	89.59	-397.75	807.55	330.01	301.55	28.46	11.594	
6,900.00	6,860.24	6,966.14	6,860.24	14.10	16.30	89.59	-397.75	807.55	330.01	301.46	28.55	11.558	
7,000.00	6,960.24	7,066.14	6,960.24	14.14	16.35	89.59	-397.75	807.55	330.01	301.36	28.64	11.521	
7,100.00	7,060.24	7,166.14	7,060.24	14.18	16.40	89.59	-397.75	807.55	330.01	301.27	28.74	11.484	
7,200.00	7,160.24	7,266.14	7,160.24	14.22	16.45	89.59	-397.75	807.55	330.01	301.18	28.83	11.447	
7,300.00	7,260.24	7,366.14	7,260.24	14.26	16.50	89.59	-397.75	807.55	330.01	301.09	28.92	11.411	
7,400.00	7,360.24	7,466.14	7,360.24	14.30	16.55	89.59	-397.75	807.55	330.01	300.99	29.01	11.374	
7,500.00	7,460.24	7,566.14	7,460.24	14.35	16.60	89.59	-397.75	807.55	330.01	300.90	29.11	11.337	
7,600.00	7,560.24	7,666.14	7,560.24	14.39	16.65	89.59	-397.75	807.55	330.01	300.80	29.20	11.300	
7,700.00	7,660.24	7,766.14	7,660.24	14.43	16.71	89.59	-397.75	807.55	330.01	300.71	29.30	11.263	
7,800.00	7,760.24	7,866.14	7,760.24	14.48	16.76	89.59	-397.75	807.55	330.01	300.61	29.40	11.227	
7,900.00	7,860.24	7,966.14	7,860.24	14.52	16.81	89.59	-397.75	807.55	330.01	300.52	29.49	11.190	
8,000.00	7,960.24	8,066.14	7,960.24	14.57	16.86	89.59	-397.75	807.55	330.01	300.42	29.59	11.153	
8,100.00	8,060.24	8,166.14	8,060.24	14.61	16.91	89.59	-397.75	807.55	330.01	300.32	29.69	11.116	
8,200.00	8,160.24	8,266.14	8,160.24	14.65	16.97	89.59	-397.75	807.55	330.01	300.22	29.79	11.080	
8,300.00	8,260.24	8,366.14	8,260.24	14.70	17.02	89.59	-397.75	807.55	330.01	300.12	29.88	11.043	
8,400.00	8,360.24	8,466.14	8,360.24	14.75	17.07	89.59	-397.75	807.55	330.01	300.02	29.98	11.006	
8,500.00	8,460.24	8,566.14	8,460.24	14.79	17.13	89.59	-397.75	807.55	330.01	299.92	30.08	10.970	
8,600.00	8,560.24	8,666.14	8,560.24	14.84	17.18	89.59	-397.75	807.55	330.01	299.82	30.18	10.933	
8,700.00	8,660.24	8,766.14	8,660.24	14.88	17.23	89.59	-397.75	807.55	330.01	299.72	30.29	10.897	
8,800.00	8,760.24	8,866.14	8,760.24	14.93	17.29	89.59	-397.75	807.55	330.01	299.62	30.39	10.860	
8,900.00	8,860.24	8,966.14	8,860.24	14.98	17.34	89.59	-397.75	807.55	330.01	299.52	30.49	10.824	
9,000.00	8,960.24	9,066.14	8,960.24	15.03	17.40	89.59	-397.75	807.55	330.01	299.42	30.59	10.787	
9,100.00	9,060.24	9,166.14	9,060.24	15.07	17.45	89.59	-397.75	807.55	330.01	299.31	30.70	10.751	
9,200.00	9,160.24	9,266.14	9,160.24	15.12	17.51	89.59	-397.75	807.55	330.01	299.21	30.80	10.715	
9,300.00	9,260.24	9,366.14	9,260.24	15.17	17.56	89.59	-397.75	807.55	330.01	299.11	30.90	10.679	
9,400.00	9,360.24	9,466.14	9,360.24	15.22	17.62	89.59	-397.75	807.55	330.01	299.00	31.01	10.643	
9,500.00	9,460.24	9,566.14	9,460.24	15.27	17.67	89.59	-397.75	807.55	330.01	298.90	31.11	10.607	
9,600.00	9,560.24	9,666.14	9,560.24	15.32	17.73	89.59	-397.75	807.55	330.01	298.79	31.22	10.571	
9,700.00	9,660.24	9,766.14	9,660.24	15.37	17.79	89.59	-397.75	807.55	330.01	298.68	31.33	10.535	
9,800.00	9,760.24	9,866.14	9,760.24	15.42	17.84	89.59	-397.75	807.55	330.01	298.58	31.43	10.499	
9,900.00	9,860.24	9,966.14	9,860.24	15.47	17.90	89.59	-397.75	807.55	330.01	298.47	31.54	10.463	
10,000.00	9,960.24	10,066.14	9,960.24	15.52	17.95	89.59	-397.75	807.55	330.01	298.36	31.65	10.428	
10,100.00	10,060.24	10,166.14	10,060.24	15.57	18.01	89.59	-397.75	807.55	330.01	298.25	31.76	10.392	
10,200.00	10,160.24	10,266.14	10,160.24	15.62	18.07	89.59	-397.75	807.55	330.01	298.14	31.86	10.357	

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

8/18/2025 4:11:19PM

Page 69 of 74

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	0.00 usft
												Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,260.24	10,366.14	10,260.24	15.67	18.13	89.59	-397.75	807.55	330.01	298.04	31.97	10.321	
10,400.00	10,360.24	10,466.14	10,360.24	15.72	18.18	89.59	-397.75	807.55	330.01	297.93	32.08	10.286	
10,500.00	10,460.24	10,566.14	10,460.24	15.77	18.24	89.59	-397.75	807.55	330.01	297.82	32.19	10.251	
10,600.00	10,560.24	10,666.14	10,560.24	15.82	18.30	89.59	-397.75	807.55	330.01	297.71	32.30	10.216	
10,700.00	10,660.24	10,766.14	10,660.24	15.88	18.36	89.59	-397.75	807.55	330.01	297.59	32.41	10.181	
10,800.00	10,760.24	10,866.14	10,760.24	15.93	18.41	89.59	-397.75	807.55	330.01	297.48	32.53	10.146	
10,900.00	10,860.24	10,966.14	10,860.24	15.98	18.47	89.59	-397.75	807.55	330.01	297.37	32.64	10.111	
11,000.00	10,960.24	11,066.14	10,960.24	16.04	18.53	89.59	-397.75	807.55	330.01	297.26	32.75	10.077	
11,100.00	11,060.24	11,166.14	11,060.24	16.09	18.59	89.59	-397.75	807.55	330.01	297.15	32.86	10.042	
11,200.00	11,160.24	11,266.14	11,160.24	16.14	18.65	89.59	-397.75	807.55	330.01	297.03	32.98	10.008	
11,300.00	11,260.24	11,366.14	11,260.24	16.20	18.71	89.59	-397.75	807.55	330.01	296.92	33.09	9.974	
11,400.00	11,360.24	11,466.14	11,360.24	16.25	18.77	89.59	-397.75	807.55	330.01	296.81	33.20	9.939	
11,500.00	11,460.24	11,566.14	11,460.24	16.30	18.83	89.59	-397.75	807.55	330.01	296.69	33.32	9.905	
11,600.00	11,560.24	11,666.14	11,560.24	16.36	18.89	89.59	-397.75	807.55	330.01	296.58	33.43	9.871	
11,700.00	11,660.24	11,766.14	11,660.24	16.41	18.95	89.59	-397.75	807.55	330.01	296.46	33.55	9.837	
11,800.00	11,760.24	11,866.14	11,760.24	16.47	19.01	89.59	-397.75	807.55	330.01	296.35	33.66	9.804	
11,900.00	11,860.23	11,966.13	11,860.23	16.51	19.07	-90.00	-397.75	807.55	330.01	296.25	33.76	9.775	
11,900.39	11,860.62	11,966.52	11,860.62	16.51	19.07	-90.00	-397.75	807.55	330.01	296.25	33.76	9.775	
12,000.00	11,959.22	12,065.12	11,959.22	16.62	19.13	-92.24	-397.75	807.55	330.27	296.32	33.95	9.728	
12,100.00	12,054.40	12,160.30	12,054.40	16.77	19.18	-96.93	-397.75	807.55	332.86	298.53	34.33	9.697	
12,200.00	12,142.89	12,248.79	12,142.89	16.94	19.23	-102.91	-397.75	807.55	342.00	307.08	34.92	9.795	
12,300.00	12,222.00	12,346.78	12,240.68	17.27	19.30	-110.01	-402.38	807.59	361.39	325.67	35.73	10.115	
12,400.00	12,289.31	12,465.86	12,356.39	17.78	19.51	-117.29	-429.61	807.84	387.98	350.83	37.14	10.445	
12,500.00	12,342.79	12,608.89	12,484.23	18.40	19.86	-124.15	-492.92	808.41	417.83	378.06	39.77	10.506	
12,600.00	12,380.81	12,784.88	12,613.89	19.13	20.51	-130.17	-610.88	809.49	445.65	401.86	43.79	10.178	
12,700.00	12,402.22	12,998.17	12,714.22	19.96	21.68	-134.31	-797.70	811.18	464.77	416.85	47.92	9.699	
12,800.00	12,407.10	13,197.76	12,741.09	20.85	23.15	-135.34	-994.54	812.97	469.53	419.94	49.59	9.468	
12,900.00	12,407.63	13,297.76	12,741.62	21.80	23.99	-135.34	-1,094.54	813.88	469.53	419.20	50.33	9.329	
13,000.00	12,408.15	13,397.76	12,742.14	22.78	24.88	-135.34	-1,194.53	814.79	469.53	418.39	51.13	9.182	
13,100.00	12,408.68	13,497.76	12,742.67	23.81	25.81	-135.34	-1,294.53	815.70	469.53	417.52	52.01	9.028	
13,200.00	12,409.20	13,597.76	12,743.19	24.86	26.78	-135.34	-1,394.52	816.61	469.53	416.58	52.94	8.868	
13,300.00	12,409.73	13,697.76	12,743.72	25.94	27.79	-135.34	-1,494.52	817.52	469.53	415.59	53.94	8.704	
13,400.00	12,410.25	13,797.76	12,744.25	27.05	28.82	-135.34	-1,594.51	818.42	469.53	414.53	55.00	8.538	
13,500.00	12,410.78	13,897.76	12,744.77	28.17	29.88	-135.34	-1,694.51	819.33	469.53	413.43	56.10	8.369	
13,600.00	12,411.30	13,997.76	12,745.30	29.32	30.96	-135.34	-1,794.50	820.24	469.53	412.27	57.26	8.200	
13,700.00	12,411.83	14,097.76	12,745.82	30.48	32.07	-135.34	-1,894.49	821.15	469.53	411.06	58.47	8.031	
13,800.00	12,412.35	14,197.76	12,746.35	31.66	33.19	-135.34	-1,994.49	822.06	469.53	409.82	59.72	7.863	
13,900.00	12,412.88	14,297.76	12,746.88	32.86	34.34	-135.34	-2,094.48	822.97	469.53	408.52	61.01	7.696	
14,000.00	12,413.40	14,397.76	12,747.40	34.06	35.49	-135.34	-2,194.48	823.87	469.53	407.19	62.34	7.532	
14,100.00	12,413.93	14,497.76	12,747.93	35.28	36.66	-135.35	-2,294.47	824.78	469.53	405.82	63.71	7.370	
14,200.00	12,414.45	14,597.76	12,748.45	36.51	37.85	-135.35	-2,394.47	825.69	469.54	404.42	65.11	7.211	
14,300.00	12,414.98	14,697.76	12,748.98	37.74	39.04	-135.35	-2,494.46	826.60	469.54	402.99	66.55	7.056	
14,400.00	12,415.50	14,797.76	12,749.51	38.99	40.25	-135.35	-2,594.46	827.51	469.54	401.52	68.01	6.904	
14,500.00	12,416.03	14,897.76	12,750.03	40.24	41.47	-135.35	-2,694.45	828.42	469.54	400.03	69.51	6.755	
14,600.00	12,416.55	14,997.76	12,750.56	41.50	42.69	-135.35	-2,794.45	829.33	469.54	398.51	71.03	6.611	
14,700.00	12,417.08	15,097.76	12,751.08	42.77	43.93	-135.35	-2,894.44	830.23	469.54	396.97	72.57	6.470	
14,800.00	12,417.60	15,197.76	12,751.61	44.04	45.17	-135.35	-2,994.43	831.14	469.54	395.40	74.14	6.333	
14,900.00	12,418.13	15,297.76	12,752.13	45.32	46.41	-135.35	-3,094.43	832.05	469.54	393.81	75.73	6.200	
15,000.00	12,418.65	15,397.76	12,752.66	46.60	47.67	-135.35	-3,194.42	832.96	469.54	392.20	77.34	6.071	
15,100.00	12,419.18	15,497.76	12,753.19	47.89	48.93	-135.35	-3,294.42	833.87	469.54	390.57	78.97	5.946	
15,200.00	12,419.70	15,597.76	12,753.71	49.18	50.20	-135.35	-3,394.41	834.78	469.54	388.92	80.62	5.824	
15,300.00	12,420.23	15,697.76	12,754.24	50.48	51.47	-135.35	-3,494.41	835.69	469.54	387.25	82.29	5.706	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	
												Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	12,420.75	15,797.76	12,754.76	51.78	52.74	-135.35	-3,594.40	836.59	469.54	385.57	83.97	5.592	
15,500.00	12,421.28	15,897.76	12,755.29	53.08	54.02	-135.35	-3,694.40	837.50	469.54	383.88	85.67	5.481	
15,600.00	12,421.80	15,997.76	12,755.82	54.38	55.31	-135.35	-3,794.39	838.41	469.54	382.17	87.38	5.374	
15,700.00	12,422.33	16,097.76	12,756.34	55.69	56.60	-135.35	-3,894.38	839.32	469.54	380.44	89.10	5.270	
15,800.00	12,422.85	16,197.76	12,756.87	57.00	57.89	-135.35	-3,994.38	840.23	469.54	378.71	90.84	5.169	
15,900.00	12,423.38	16,297.76	12,757.39	58.32	59.18	-135.35	-4,094.37	841.14	469.55	376.96	92.59	5.071	
16,000.00	12,423.90	16,397.76	12,757.92	59.64	60.48	-135.35	-4,194.37	842.05	469.55	375.20	94.35	4.977	
16,100.00	12,424.43	16,497.76	12,758.45	60.95	61.78	-135.35	-4,294.36	842.95	469.55	373.43	96.12	4.885	
16,200.00	12,424.95	16,597.76	12,758.97	62.28	63.09	-135.35	-4,394.36	843.86	469.55	371.65	97.90	4.796	
16,300.00	12,425.48	16,697.76	12,759.50	63.60	64.39	-135.35	-4,494.35	844.77	469.55	369.86	99.69	4.710	
16,400.00	12,426.00	16,797.76	12,760.02	64.92	65.70	-135.35	-4,594.35	845.68	469.55	368.06	101.49	4.627	
16,500.00	12,426.53	16,897.76	12,760.55	66.25	67.02	-135.35	-4,694.34	846.59	469.55	366.26	103.29	4.546	
16,600.00	12,427.05	16,997.76	12,761.07	67.58	68.33	-135.35	-4,794.33	847.50	469.55	364.44	105.11	4.467	
16,700.00	12,427.58	17,097.76	12,761.60	68.91	69.65	-135.35	-4,894.33	848.41	469.55	362.62	106.93	4.391	
16,800.00	12,428.10	17,197.76	12,762.13	70.24	70.96	-135.35	-4,994.32	849.31	469.55	360.79	108.76	4.317	
16,900.00	12,428.63	17,297.76	12,762.65	71.57	72.28	-135.35	-5,094.32	850.22	469.55	358.95	110.60	4.245	
17,000.00	12,429.15	17,397.76	12,763.18	72.91	73.61	-135.35	-5,194.31	851.13	469.55	357.11	112.44	4.176	
17,100.00	12,429.68	17,497.76	12,763.70	74.24	74.93	-135.35	-5,294.31	852.04	469.55	355.26	114.29	4.108	
17,200.00	12,430.20	17,597.76	12,764.23	75.58	76.25	-135.35	-5,394.30	852.95	469.55	353.40	116.15	4.043	
17,300.00	12,430.73	17,697.76	12,764.76	76.92	77.58	-135.35	-5,494.30	853.86	469.55	351.54	118.01	3.979	
17,400.00	12,431.25	17,797.76	12,765.28	78.26	78.91	-135.35	-5,594.29	854.77	469.55	349.67	119.88	3.917	
17,500.00	12,431.78	17,897.76	12,765.81	79.60	80.24	-135.35	-5,694.29	855.67	469.55	347.80	121.75	3.857	
17,600.00	12,432.30	17,997.76	12,766.33	80.94	81.57	-135.35	-5,794.28	856.58	469.55	345.92	123.63	3.798	
17,700.00	12,432.83	18,097.76	12,766.86	82.28	82.90	-135.35	-5,894.27	857.49	469.56	344.04	125.51	3.741	
17,800.00	12,433.35	18,197.76	12,767.39	83.62	84.23	-135.35	-5,994.27	858.40	469.56	342.16	127.40	3.686	
17,900.00	12,433.88	18,297.76	12,767.91	84.96	85.57	-135.35	-6,094.26	859.31	469.56	340.27	129.29	3.632	
18,000.00	12,434.40	18,397.76	12,768.44	86.31	86.90	-135.35	-6,194.26	860.22	469.56	338.37	131.19	3.579	
18,100.00	12,434.93	18,497.76	12,768.96	87.65	88.24	-135.35	-6,294.25	861.13	469.56	336.47	133.09	3.528	
18,200.00	12,435.45	18,597.76	12,769.49	89.00	89.58	-135.35	-6,394.25	862.03	469.56	334.57	134.99	3.478	
18,300.00	12,435.98	18,697.76	12,770.01	90.35	90.91	-135.35	-6,494.24	862.94	469.56	332.66	136.90	3.430	
18,400.00	12,436.50	18,797.76	12,770.54	91.69	92.25	-135.35	-6,594.24	863.85	469.56	330.75	138.81	3.383	
18,500.00	12,437.03	18,897.76	12,771.07	93.04	93.59	-135.35	-6,694.23	864.76	469.56	328.84	140.72	3.337	
18,600.00	12,437.55	18,997.76	12,771.59	94.39	94.93	-135.35	-6,794.22	865.67	469.56	326.93	142.64	3.292	
18,700.00	12,438.08	19,097.76	12,772.12	95.74	96.28	-135.35	-6,894.22	866.58	469.56	325.01	144.56	3.248	
18,800.00	12,438.60	19,197.76	12,772.64	97.09	97.62	-135.35	-6,994.21	867.49	469.56	323.08	146.48	3.206	
18,900.00	12,439.13	19,297.76	12,773.17	98.44	98.96	-135.35	-7,094.21	868.39	469.56	321.16	148.40	3.164	
19,000.00	12,439.65	19,397.76	12,773.70	99.79	100.31	-135.35	-7,194.20	869.30	469.56	319.23	150.33	3.124	
19,100.00	12,440.17	19,497.76	12,774.22	101.14	101.65	-135.35	-7,294.20	870.21	469.56	317.30	152.26	3.084	
19,200.00	12,440.70	19,597.76	12,774.75	102.49	103.00	-135.35	-7,394.19	871.12	469.56	315.37	154.20	3.045	
19,300.00	12,441.22	19,697.76	12,775.27	103.84	104.34	-135.35	-7,494.19	872.03	469.56	313.43	156.13	3.007	
19,400.00	12,441.75	19,797.76	12,775.80	105.20	105.69	-135.35	-7,594.18	872.94	469.57	311.50	158.07	2.971	
19,500.00	12,442.27	19,897.76	12,776.33	106.55	107.03	-135.35	-7,694.18	873.84	469.57	309.56	160.01	2.935	
19,600.00	12,442.80	19,997.76	12,776.85	107.90	108.38	-135.35	-7,794.17	874.75	469.57	307.61	161.95	2.899	
19,700.00	12,443.32	20,097.76	12,777.38	109.26	109.73	-135.35	-7,894.16	875.66	469.57	305.67	163.90	2.865	
19,800.00	12,443.85	20,197.76	12,777.90	110.61	111.08	-135.35	-7,994.16	876.57	469.57	303.72	165.84	2.831	
19,900.00	12,444.37	20,297.76	12,778.43	111.97	112.43	-135.35	-8,094.15	877.48	469.57	301.78	167.79	2.798	
20,000.00	12,444.90	20,397.76	12,778.95	113.32	113.78	-135.35	-8,194.15	878.39	469.57	299.83	169.74	2.766	
20,100.00	12,445.42	20,497.76	12,779.48	114.68	115.13	-135.35	-8,294.14	879.30	469.57	297.87	171.70	2.735	
20,200.00	12,445.95	20,597.76	12,780.01	116.03	116.48	-135.35	-8,394.14	880.20	469.57	295.92	173.65	2.704	
20,300.00	12,446.47	20,697.76	12,780.53	117.39	117.83	-135.35	-8,494.13	881.11	469.57	293.96	175.61	2.674	
20,400.00	12,447.00	20,797.76	12,781.06	118.74	119.18	-135.35	-8,594.13	882.02	469.57	292.01	177.56	2.645	
20,500.00	12,447.52	20,897.76	12,781.58	120.10	120.53	-135.35	-8,694.12	882.93	469.57	290.05	179.52	2.616	

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

8/18/2025 4:11:19PM

Page 71 of 74

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:					Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
20,600.00	12,448.05	20,997.76	12,782.11	121.46	121.88	-135.35	-8,794.11	883.84	469.57	288.09	181.48	2.587	
20,700.00	12,448.57	21,097.76	12,782.64	122.81	123.24	-135.35	-8,894.11	884.75	469.57	286.13	183.45	2.560	
20,800.00	12,449.10	21,197.76	12,783.16	124.17	124.59	-135.35	-8,994.10	885.66	469.57	284.16	185.41	2.533	
20,900.00	12,449.62	21,297.76	12,783.69	125.53	125.94	-135.35	-9,094.10	886.56	469.57	282.20	187.37	2.506	
21,000.00	12,450.15	21,397.76	12,784.21	126.89	127.30	-135.35	-9,194.09	887.47	469.57	280.23	189.34	2.480	
21,100.00	12,450.67	21,497.76	12,784.74	128.24	128.65	-135.35	-9,294.09	888.38	469.58	278.27	191.31	2.455	
21,200.00	12,451.20	21,597.76	12,785.26	129.60	130.00	-135.35	-9,394.08	889.29	469.58	276.30	193.28	2.430	
21,300.00	12,451.72	21,697.76	12,785.79	130.96	131.36	-135.35	-9,494.08	890.20	469.58	274.33	195.25	2.405	
21,400.00	12,452.25	21,797.76	12,786.32	132.32	132.71	-135.35	-9,594.07	891.11	469.58	272.36	197.22	2.381	
21,500.00	12,452.77	21,897.76	12,786.84	133.68	134.07	-135.35	-9,694.07	892.02	469.58	270.39	199.19	2.357	
21,600.00	12,453.30	21,997.76	12,787.37	135.04	135.42	-135.35	-9,794.06	892.92	469.58	268.41	201.16	2.334	
21,700.00	12,453.82	22,097.76	12,787.89	136.40	136.78	-135.35	-9,894.05	893.83	469.58	266.44	203.14	2.312	
21,800.00	12,454.35	22,197.76	12,788.42	137.76	138.13	-135.35	-9,994.05	894.74	469.58	264.47	205.11	2.289	
21,900.00	12,454.87	22,297.76	12,788.95	139.12	139.49	-135.35	-10,094.04	895.65	469.58	262.49	207.09	2.268	
22,000.00	12,455.40	22,397.76	12,789.47	140.48	140.85	-135.35	-10,194.04	896.56	469.58	260.51	209.07	2.246	
22,100.00	12,455.92	22,497.76	12,790.00	141.84	142.20	-135.35	-10,294.03	897.47	469.58	258.53	211.05	2.225	
22,200.00	12,456.45	22,597.76	12,790.52	143.20	143.56	-135.35	-10,394.03	898.38	469.58	256.55	213.03	2.204	
22,300.00	12,456.97	22,697.76	12,791.05	144.56	144.92	-135.35	-10,494.02	899.28	469.58	254.57	215.01	2.184	
22,400.00	12,457.50	22,797.76	12,791.58	145.92	146.28	-135.35	-10,594.02	900.19	469.58	252.59	216.99	2.164	
22,500.00	12,458.02	22,897.76	12,792.10	147.28	147.63	-135.35	-10,694.01	901.10	469.58	250.61	218.97	2.144	
22,600.00	12,458.55	22,997.76	12,792.63	148.64	148.99	-135.35	-10,794.00	902.01	469.58	248.63	220.95	2.125	
22,700.00	12,459.07	23,097.76	12,793.15	149.86	150.35	-135.35	-10,894.00	902.92	469.58	246.79	222.80	2.108	
22,705.25	12,459.10	23,103.01	12,793.18	149.93	150.42	-135.35	-10,899.25	902.97	469.58	246.69	222.89	2.107	SF

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

Total Directional Anticollision Report

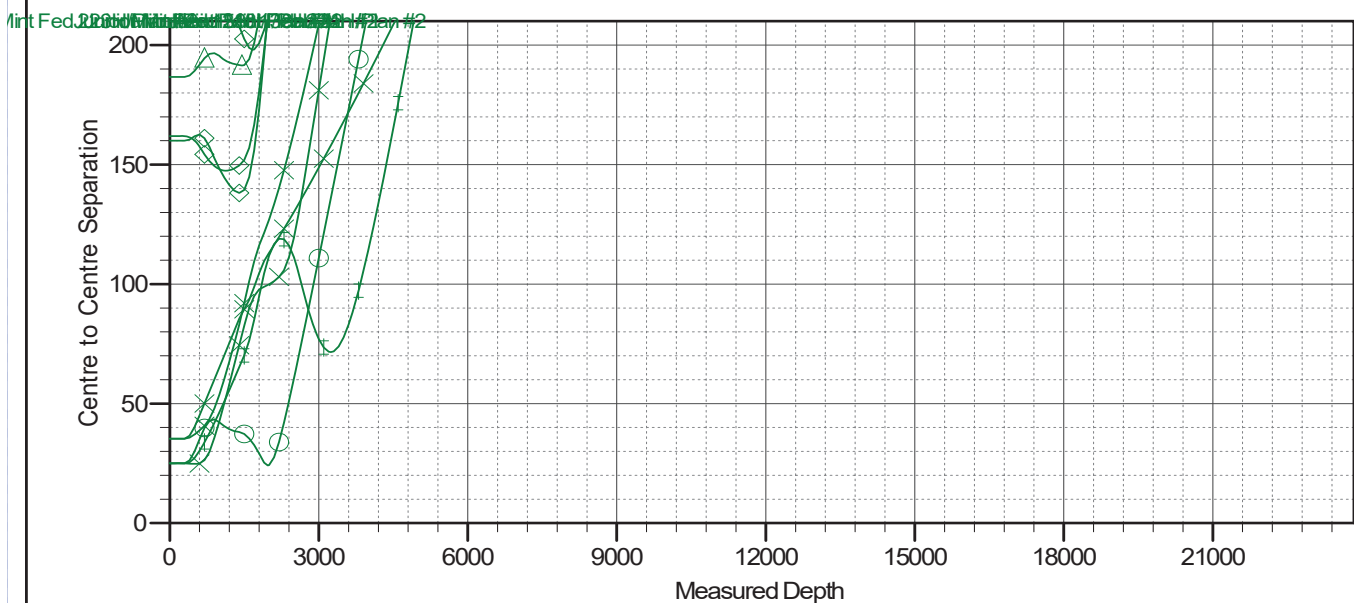


Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Reference Depths are relative to GE 3220 + 26 @ 3246.00usft (26' KB)
Offset Depths are relative to Offset Datum
Central Meridian is -104.333333

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

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

Total Directional Anticollision Report

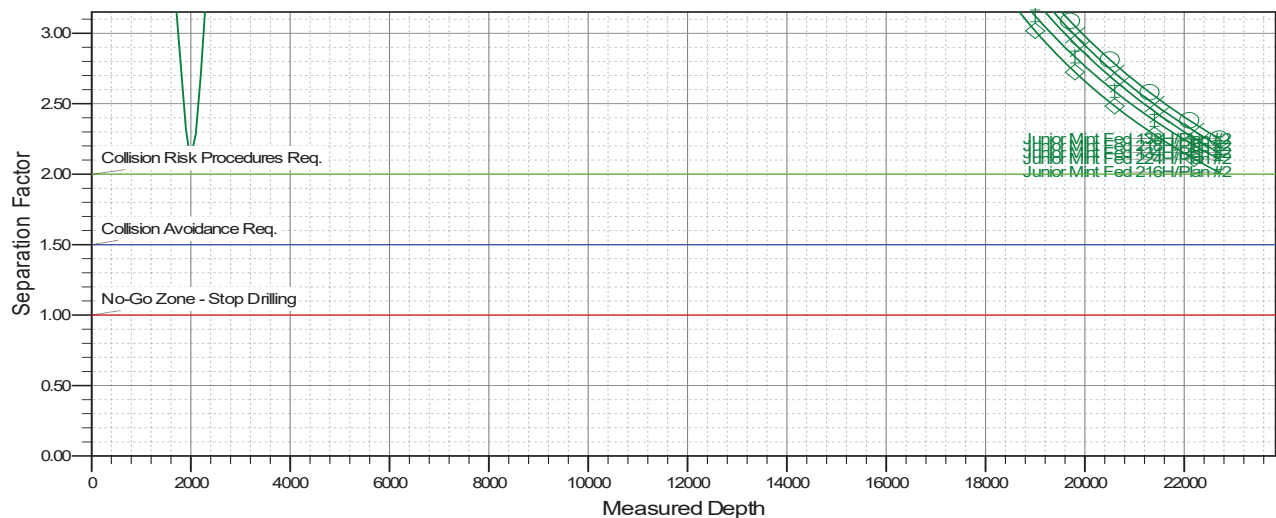


Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 214H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 214H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

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

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-	Pool Code 17980	Pool Name DOGIE DRAW; WOLFCAMP
Property Code	Property Name JUNIOR MINT FED	Well Number 214H
OGRID No. 332195	Operator Name CIVITAS PERMIAN OPERATING, LLC	Ground Level Elevation 3224'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
O	10	25-S	35-E	-	549' S	1635' E	N 32.1391340	W 103.3521492	LEA

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
P	22	25-S	35-E	-	5' S	990' E	N 32.1086091	W 103.3500617	LEA

Dedicated Acres 1280.00	Infill or Defining Well Infill	Defining Well API 30-025-54739 (131H)	Overlapping Spacing Unit (Y/N) N	Consolidated Code N/A
Order Numbers NSP			Well Setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
A	15	25-S	35-E	-	100' N	990' E	N 32.1373457	W 103.3500578	LEA

First Take Point (FTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
A	15	25-S	35-E	-	100' N	990' E	N 32.1373457	W 103.3500578	LEA

Last Take Point (LTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
P	22	25-S	35-E	-	100' S	990' E	N 32.1088703	W 103.3500616	LEA

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

OPERATOR CERTIFICATION <i>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.</i> <i>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.</i>  9-16-25		SURVEYORS CERTIFICATION <i>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.</i>  4/21/2025 9:58:51 AM	
Signature Cory Walk		Signature and Seal of Professional Surveyor	
Date		Date	
Print Name cory@permitswest.com		Certificate Number	Date of Survey 06/07/2022
E-mail Address			

C-102

Submit Electronically
Via OCD PermittingState 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 214H

SURFACE LOCATION (SHL)

NEW MEXICO EAST
NAD 1983
X=845039
Y=415736
LAT.: N 32.1391340
LONG.: W 103.3521492
549' FSL 1635' FEL

KICK OFF POINT (KOP) /
FIRST TAKE POINT (FTP)

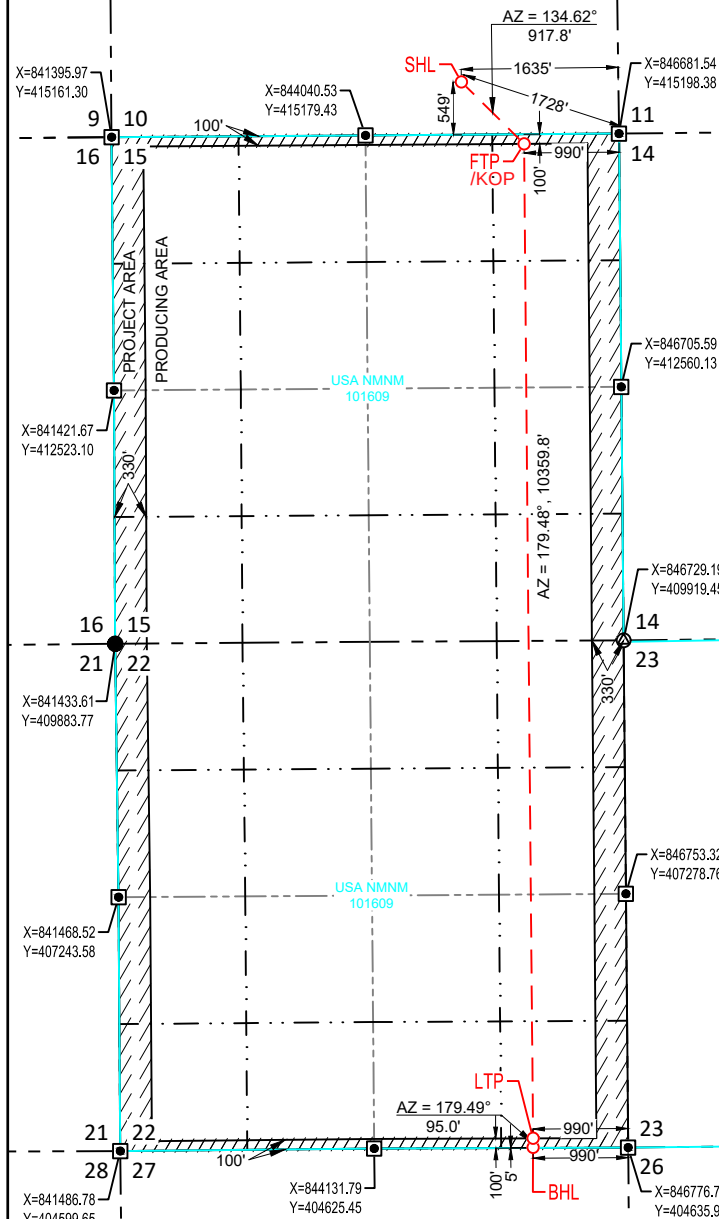
NEW MEXICO EAST
NAD 1983
X=845692
Y=415091
LAT.: N 32.1373457
LONG.: W 103.3500578
100' FNL 990' FEL

LAST TAKE POINT (LTP)

NEW MEXICO EAST
NAD 1983
X=845786
Y=404732
LAT.: N 32.1088703
LONG.: W 103.3500616
100' FSL 990' FEL

BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST
NAD 1983
X=845787
Y=404637
LAT.: N 32.1086091
LONG.: W 103.3500617
5' FSL 990' 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:



4/21/2025 9:58:56 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
<u>SEE ATTACHED</u>						

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
<u>SEE ATTACHED</u>						

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

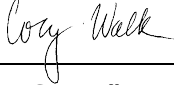
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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: 
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.



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

Drilling Plan Data Report

04/11/2025

APD ID: 10400086513

Submission Date: 07/06/2022

Highlighted data
reflects the most
recent changes

Operator Name: TAP ROCK OPERATING LLC

Well Name: JUNIOR MINT FED

Well Number: 214H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
9894208	QUATERNARY	3224	0	0	OTHER : Caliche	NONE	N
9894209	RUSTLER	2564	660	660	SALT	OTHER : Salt	N
9894210	TOP SALT	2124	1100	1100	SALT	OTHER : Salt	N
9894211	BASE OF SALT	-1696	4920	4946	SALT	OTHER : Salt	N
9894212	DELAWARE	-1936	5160	5189	OTHER, SANDSTONE : Mountain Group	NONE	N
9894213	LAMAR	-1941	5165	5194	SANDSTONE	NATURAL GAS, OIL	N
9894214	BELL CANYON	-1961	5185	5214	SANDSTONE	NATURAL GAS, OIL	N
9894215	RAMSEY SAND	-1981	5205	5234	SANDSTONE	NATURAL GAS, OIL	N
9894216	CHERRY CANYON	-2926	6150	6190	OTHER : Carbonate	NATURAL GAS, OIL	N
9894217	BRUSHY CANYON	-4396	7620	7675	SANDSTONE	NATURAL GAS, OIL	N
9894218	BONE SPRING LIME	-5706	8930	8986	OTHER : Carbonate	NATURAL GAS, OIL	N
9894219	UPPER AVALON SHALE	-5731	8955	9011	OTHER : Carbonate	NATURAL GAS, OIL	N
9894220	AVALON SAND	-5961	9185	9228	OTHER : Middle Carbonate	NATURAL GAS, OIL	N
9894221	BONE SPRING 1ST	-6941	10165	10221	SANDSTONE	NATURAL GAS, OIL	N
9894222	BONE SPRING 2ND	-7106	10330	10386	OTHER : Carbonate	NATURAL GAS, OIL	N
9894223	BONE SPRING 2ND	-7491	10715	10771	SANDSTONE	NATURAL GAS, OIL	N
9894206	BONE SPRING 3RD	-8041	11265	11321	OTHER : Carbonate	NATURAL GAS, OIL	N

Operator Name: TAP ROCK OPERATING LLC**Well Name:** JUNIOR MINT FED**Well Number:** 214H

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
9894207	BONE SPRING 3RD	-8671	11895	11951	SANDSTONE	NATURAL GAS, OIL	N
9894224	WOLFCAMP	-8986	12210	12300	OTHER : A	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

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

Equipment: At 22,870', 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 nipped 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_20220704094448.pdf

BOP Diagram Attachment:

10M_BOP_Stack_5M_Annular_Preventer_20220704094509.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	14.75	11.75	NEW	API	N	0	685	0	685	3224	2539	685	J-55	42	BUTT	1.13	1.15	DRY	1.6	DRY	1.6

Operator Name: TAP ROCK OPERATING LLC**Well Name:** JUNIOR MINT FED**Well Number:** 214H

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	PRODUCTI ON	6.75	5.5	NEW	NON API	N	0	11589	0	11533	3221	-8309	11589	P- 110	20	OTHER - TXP	1.13	1.15	DRY	1.6	DRY	1.6
3	INTERMED IATE	9.87 5	7.625	NEW	API	N	0	11789	0	11733	3221	-8509	11789	P- 110	29.7	BUTT	1.13	1.15	DRY	1.6	DRY	1.6
4	PRODUCTI ON	6.75	5.5	NEW	NON API	N	11589	22870	11533	12459	-8309	-9235	11281	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_20220704094544.pdf

Casing ID: 2 **String** PRODUCTION**Inspection Document:****Spec Document:**

5.5in_TXP_Casing_Spec_20220704094703.PDF

Tapered String Spec:**Casing Design Assumptions and Worksheet(s):**

Casing_Design_Assumptions_20220704094720.pdf

Operator Name: TAP ROCK OPERATING LLC

Well Name: JUNIOR MINT FED

Well Number: 214H

Casing Attachments

Casing ID: 3StringINTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_20220704094634.pdf

Casing ID: 4StringPRODUCTION

Inspection Document:

Spec Document:

5.5in_W441_Casing_Spec_20220704094744.pdf

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_20220704094757.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		11589	22870	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	10789	890	4.29	10.5	3818	65	Class C	Bentonite + 1% CaCL2 + 8% NaCL+

Operator Name: TAP ROCK OPERATING LLC**Well Name:** JUNIOR MINT FED**Well Number:** 214H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
											LCM
INTERMEDIATE	Tail		1078 9	1178 9	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	1178 9	OTHER : Diesel Brine Emulsion	9.2	9.2							
1178 9	2287 0	OIL-BASED MUD	12.5	12.5							

Operator Name: TAP ROCK OPERATING LLC**Well Name:** JUNIOR MINT FED**Well Number:** 214H

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: 8098**Anticipated Surface Pressure:** 5357**Anticipated Bottom Hole Temperature(F):** 200**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO**Describe:****Contingency Plans geohazards description:****Contingency Plans geohazards****Hydrogen Sulfide drilling operations plan required?** YES**Hydrogen sulfide drilling operations**

JM_E2_H2S_Plan_v2_RDC_20221112092345.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

JM_214H_Horizontal_Plan_20220704094939.pdf

Other proposed operations facets description:**Other proposed operations facets attachment:**

JM_214H_Drill_Plan_20220704094955.pdf

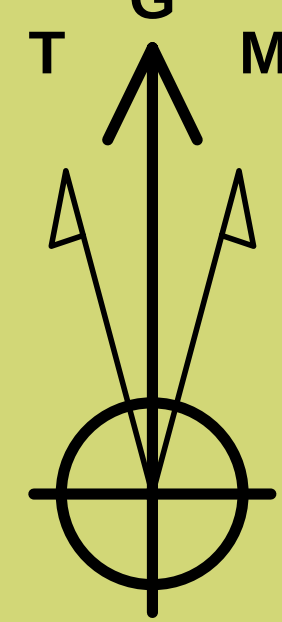
CoFlex_Certs_20220704095104.pdf

JM_214H_Anticollision_Report_20220704095127.pdf

Well_Control_Plan_10M_BOP_5M_Annular_20220704095135.pdf

Wellhead_3T_11.75_1.625_5.5_062922_20220704095135.pdf

Other Variance attachment:

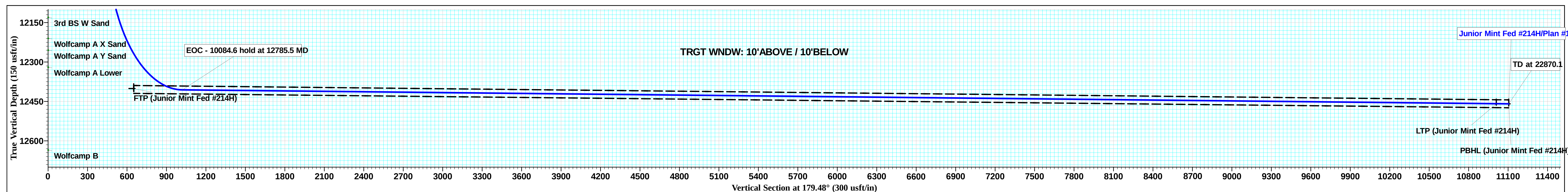
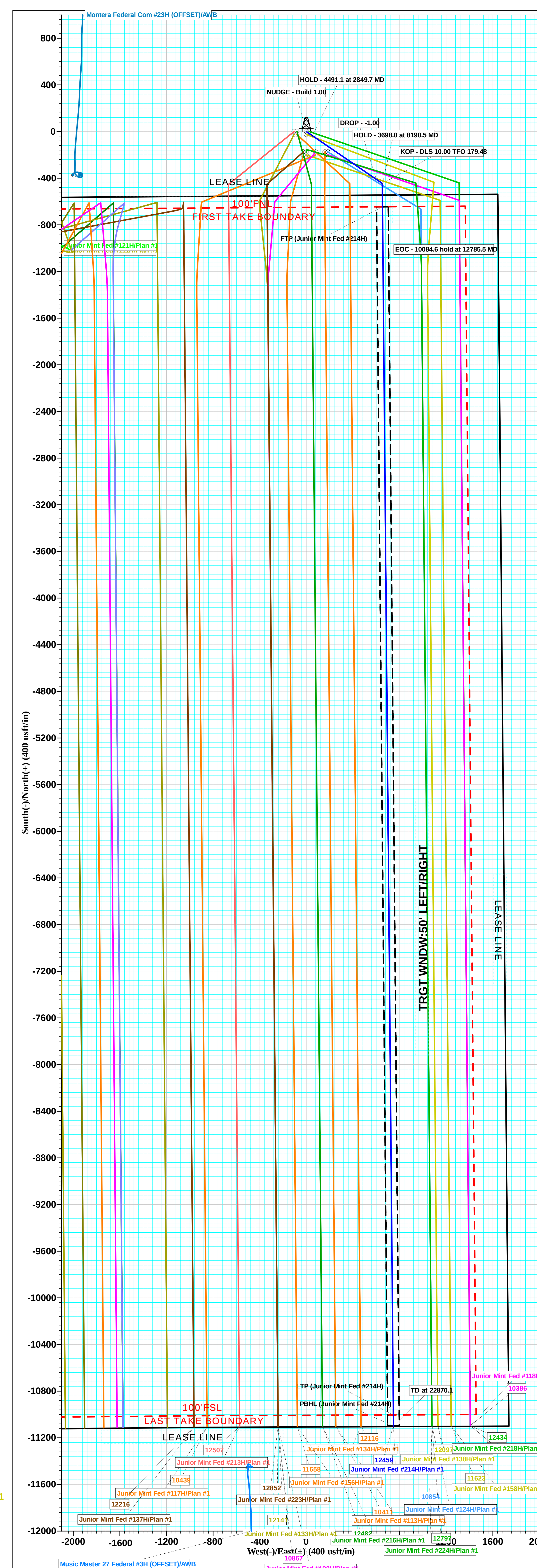
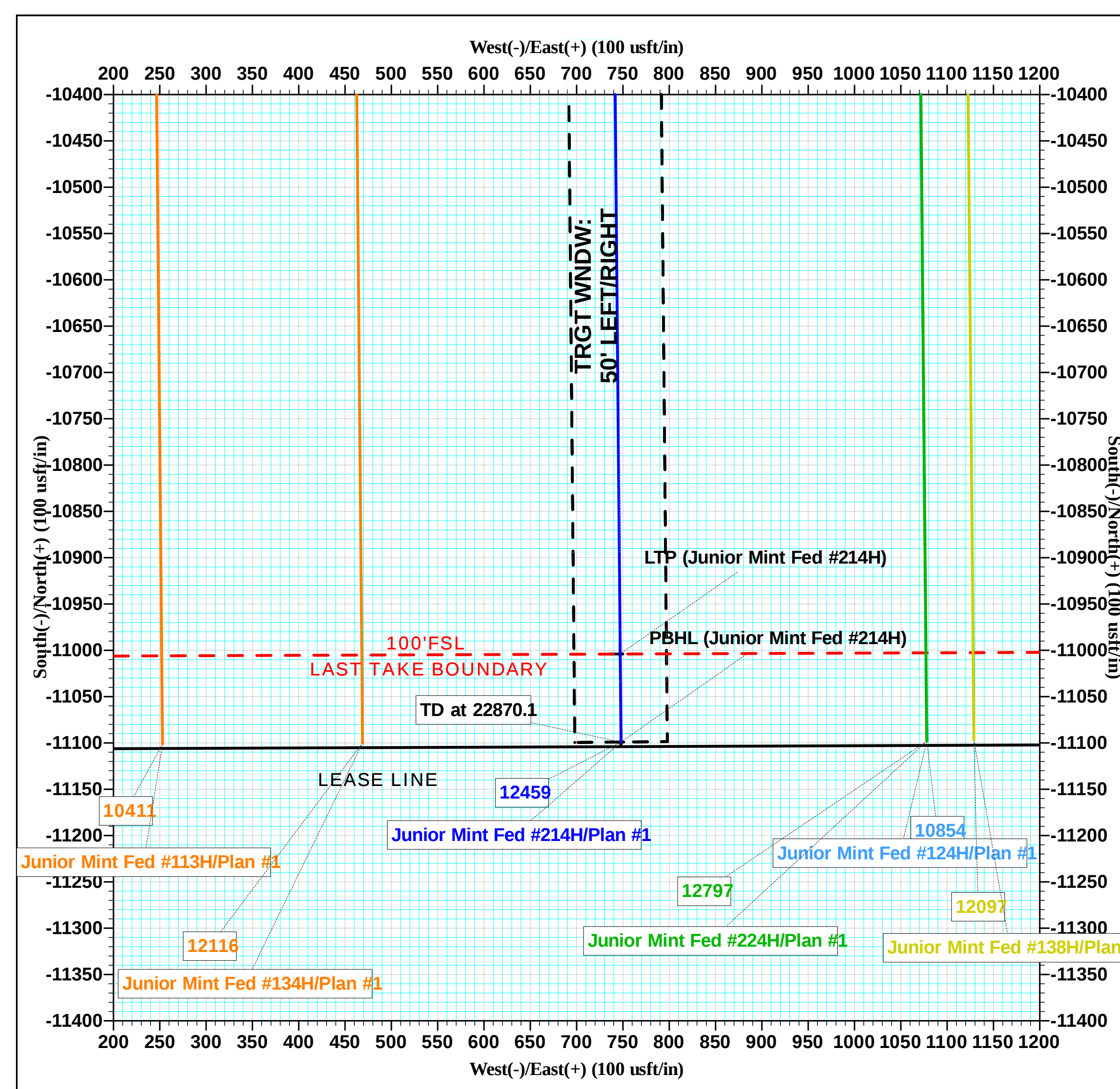
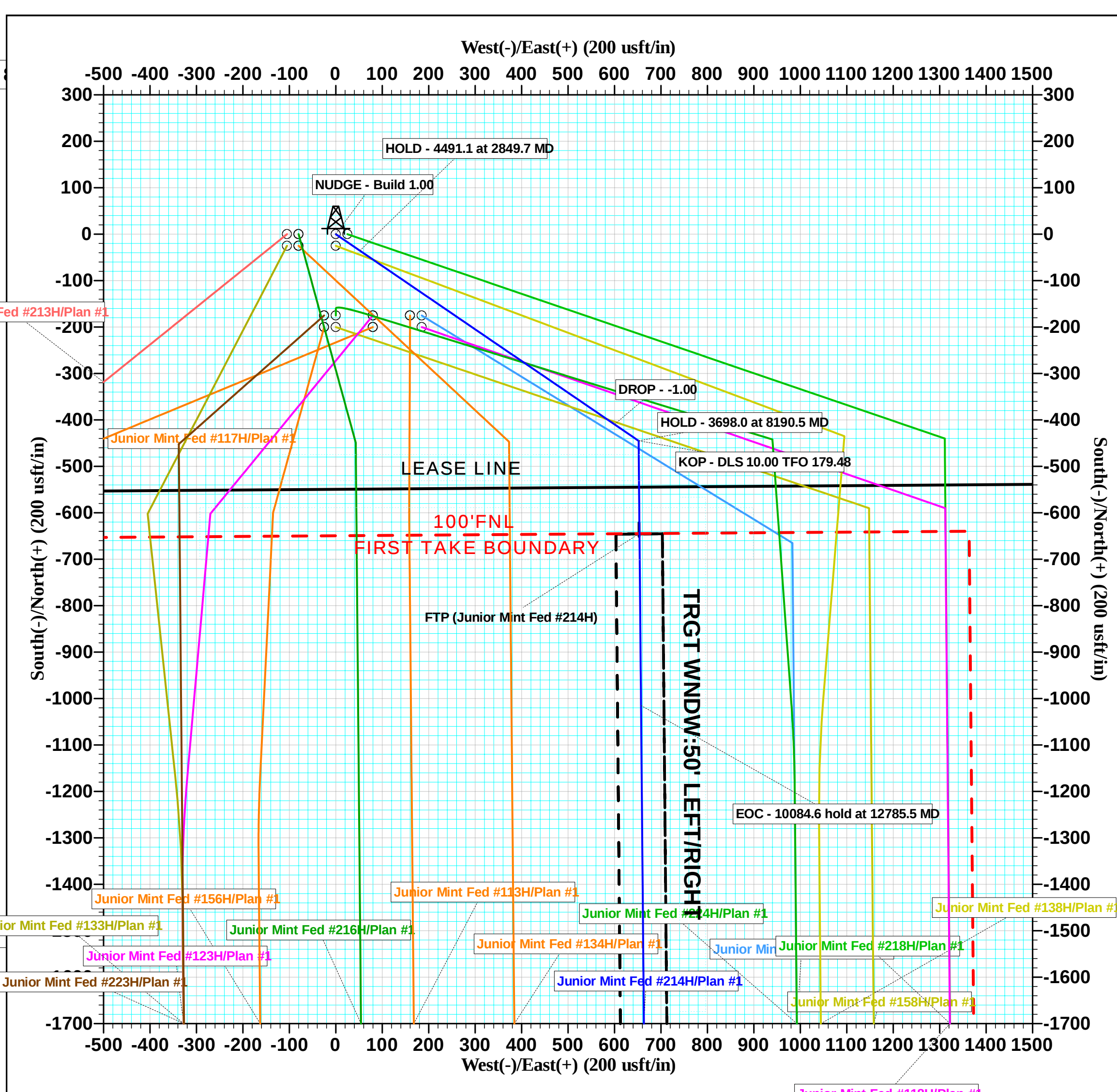
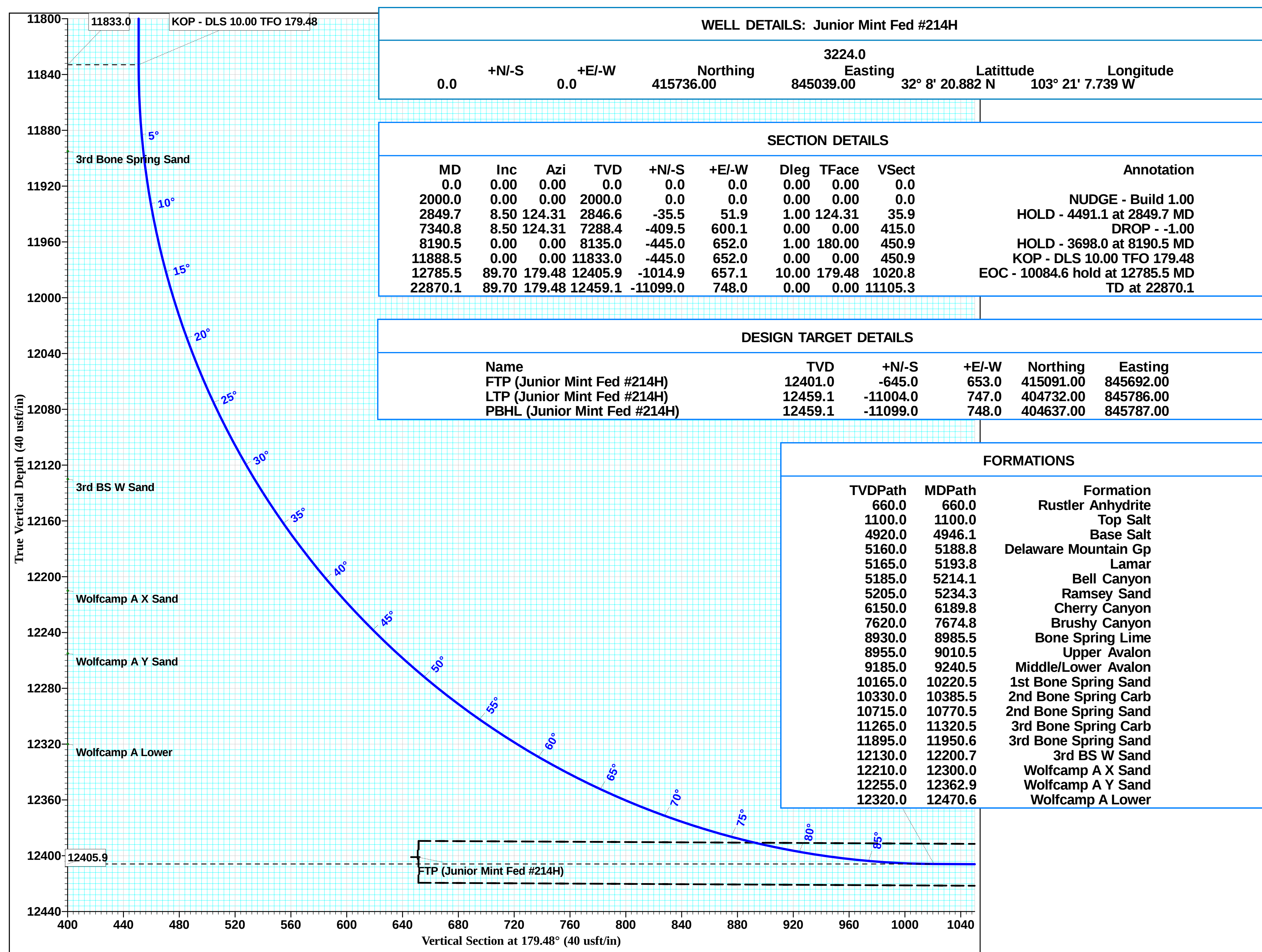
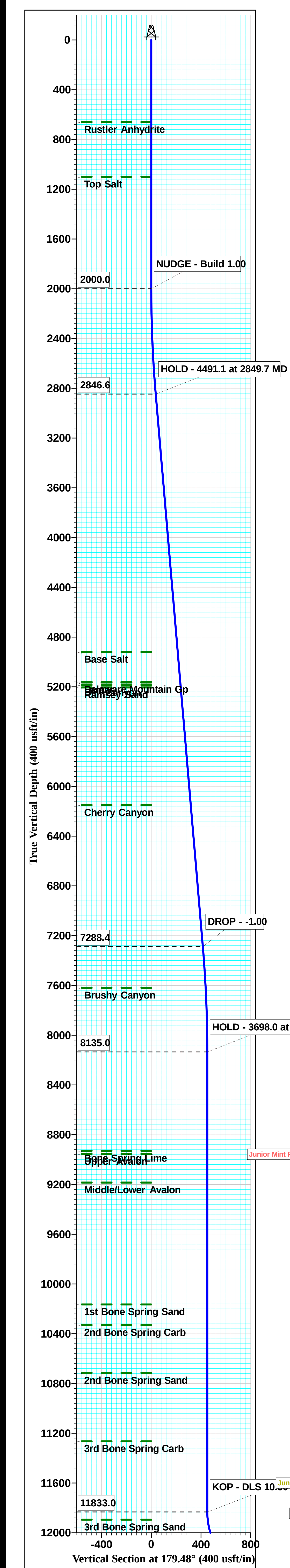


Azimuths to Grid North
True North: -0.52°
Magnetic North: 5.77°

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

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

Tap Rock Resources, LLC
Project: Lea County, NM (NAD 83 NME)
Site: (Junior Mint Fed) Sec-15 T-25-S R-35-E
Well: Junior Mint Fed #214H
Wellbore: OWB
Design: Plan #1
Lat: 32° 8' 20.882 N
Long: 103° 21' 7.739 W
Pad GL: 3224.0
KB: KB @ 3250.0usft





Tap Rock Resources, LLC

**Lea County, NM (NAD 83 NME)
(Junior Mint Fed) Sec-15_T-25-S_R-35-E
Junior Mint Fed #214H**

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 #214H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3250.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3250.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	North Reference:	Grid
Well:	Junior Mint Fed #214H	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
From:	Map	Easting:	842,925.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 8' 11.068 N
		Longitude:	103° 21' 32.430 W
		Grid Convergence:	0.52 °

Well	Junior Mint Fed #214H		
Well Position	+N/-S	1,011.0 usft	Northing: 415,736.00 usft
	+E/-W	2,114.0 usft	Easting: 845,039.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 8' 20.882 N
			Longitude: 103° 21' 7.739 W
			Ground Level: 3,224.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	06/23/22	6.29	59.95	47,396.20206779

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.48

Plan Survey Tool Program	Date	06/27/22		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,870.1	Plan #1 (OWB)	MWD
				OWSG MWD - Standard

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,849.7	8.50	124.31	2,846.6	-35.5	51.9	1.00	1.00	0.00	124.31	
7,340.8	8.50	124.31	7,288.4	-409.5	600.1	0.00	0.00	0.00	0.00	
8,190.5	0.00	0.00	8,135.0	-445.0	652.0	1.00	-1.00	0.00	180.00	
11,888.5	0.00	0.00	11,833.0	-445.0	652.0	0.00	0.00	0.00	0.00	
12,785.5	89.70	179.48	12,405.9	-1,014.9	657.1	10.00	10.00	20.01	179.48	
22,870.1	89.70	179.48	12,459.1	-11,099.0	748.0	0.00	0.00	0.00	0.00	PBHL (Junior Mint F



Intrepid Planning Report



Database: EDM 5000.15 Single User Db
Company: 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 #214H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well Junior Mint Fed #214H
TVD Reference: KB @ 3250.0usft
MD Reference: KB @ 3250.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
NUDGE - Build 1.00									
2,100.0	1.00	124.31	2,100.0	-0.5	0.7	0.5	1.00	1.00	0.00
2,200.0	2.00	124.31	2,200.0	-2.0	2.9	2.0	1.00	1.00	0.00
2,300.0	3.00	124.31	2,299.9	-4.4	6.5	4.5	1.00	1.00	0.00
2,400.0	4.00	124.31	2,399.7	-7.9	11.5	8.0	1.00	1.00	0.00
2,500.0	5.00	124.31	2,499.4	-12.3	18.0	12.5	1.00	1.00	0.00
2,600.0	6.00	124.31	2,598.9	-17.7	25.9	17.9	1.00	1.00	0.00
2,700.0	7.00	124.31	2,698.3	-24.1	35.3	24.4	1.00	1.00	0.00
2,800.0	8.00	124.31	2,797.4	-31.4	46.1	31.9	1.00	1.00	0.00
2,849.7	8.50	124.31	2,846.6	-35.5	51.9	35.9	1.00	1.00	0.00
HOLD - 4491.1 at 2849.7 MD									
2,900.0	8.50	124.31	2,896.3	-39.6	58.1	40.2	0.00	0.00	0.00
3,000.0	8.50	124.31	2,995.2	-48.0	70.3	48.6	0.00	0.00	0.00
3,100.0	8.50	124.31	3,094.1	-56.3	82.5	57.0	0.00	0.00	0.00
3,200.0	8.50	124.31	3,193.0	-64.6	94.7	65.5	0.00	0.00	0.00
3,300.0	8.50	124.31	3,291.9	-73.0	106.9	73.9	0.00	0.00	0.00
3,400.0	8.50	124.31	3,390.8	-81.3	119.1	82.4	0.00	0.00	0.00
3,500.0	8.50	124.31	3,489.8	-89.6	131.3	90.8	0.00	0.00	0.00
3,600.0	8.50	124.31	3,588.7	-98.0	143.5	99.2	0.00	0.00	0.00
3,700.0	8.50	124.31	3,687.6	-106.3	155.7	107.7	0.00	0.00	0.00
3,800.0	8.50	124.31	3,786.5	-114.6	167.9	116.1	0.00	0.00	0.00
3,900.0	8.50	124.31	3,885.4	-122.9	180.1	124.6	0.00	0.00	0.00
4,000.0	8.50	124.31	3,984.3	-131.3	192.3	133.0	0.00	0.00	0.00
4,100.0	8.50	124.31	4,083.2	-139.6	204.5	141.4	0.00	0.00	0.00
4,200.0	8.50	124.31	4,182.1	-147.9	216.7	149.9	0.00	0.00	0.00
4,300.0	8.50	124.31	4,281.0	-156.3	228.9	158.3	0.00	0.00	0.00
4,400.0	8.50	124.31	4,379.9	-164.6	241.1	166.8	0.00	0.00	0.00
4,500.0	8.50	124.31	4,478.8	-172.9	253.4	175.2	0.00	0.00	0.00
4,600.0	8.50	124.31	4,577.7	-181.2	265.6	183.6	0.00	0.00	0.00
4,700.0	8.50	124.31	4,676.6	-189.6	277.8	192.1	0.00	0.00	0.00
4,800.0	8.50	124.31	4,775.5	-197.9	290.0	200.5	0.00	0.00	0.00
4,900.0	8.50	124.31	4,874.4	-206.2	302.2	209.0	0.00	0.00	0.00



Intrepid Planning Report



Database: EDM 5000.15 Single User Db
Company: 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 #214H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well Junior Mint Fed #214H
TVD Reference: KB @ 3250.0usft
MD Reference: KB @ 3250.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,000.0	8.50	124.31	4,973.3	-214.6	314.4	217.4	0.00	0.00	0.00
5,100.0	8.50	124.31	5,072.2	-222.9	326.6	225.8	0.00	0.00	0.00
5,200.0	8.50	124.31	5,171.1	-231.2	338.8	234.3	0.00	0.00	0.00
5,300.0	8.50	124.31	5,270.0	-239.6	351.0	242.7	0.00	0.00	0.00
5,400.0	8.50	124.31	5,368.9	-247.9	363.2	251.2	0.00	0.00	0.00
5,500.0	8.50	124.31	5,467.8	-256.2	375.4	259.6	0.00	0.00	0.00
5,600.0	8.50	124.31	5,566.7	-264.5	387.6	268.0	0.00	0.00	0.00
5,700.0	8.50	124.31	5,665.6	-272.9	399.8	276.5	0.00	0.00	0.00
5,800.0	8.50	124.31	5,764.5	-281.2	412.0	284.9	0.00	0.00	0.00
5,900.0	8.50	124.31	5,863.4	-289.5	424.2	293.4	0.00	0.00	0.00
6,000.0	8.50	124.31	5,962.3	-297.9	436.4	301.8	0.00	0.00	0.00
6,100.0	8.50	124.31	6,061.2	-306.2	448.6	310.3	0.00	0.00	0.00
6,200.0	8.50	124.31	6,160.1	-314.5	460.8	318.7	0.00	0.00	0.00
6,300.0	8.50	124.31	6,259.0	-322.9	473.0	327.1	0.00	0.00	0.00
6,400.0	8.50	124.31	6,357.9	-331.2	485.2	335.6	0.00	0.00	0.00
6,500.0	8.50	124.31	6,456.8	-339.5	497.4	344.0	0.00	0.00	0.00
6,600.0	8.50	124.31	6,555.7	-347.8	509.6	352.5	0.00	0.00	0.00
6,700.0	8.50	124.31	6,654.6	-356.2	521.8	360.9	0.00	0.00	0.00
6,800.0	8.50	124.31	6,753.5	-364.5	534.1	369.3	0.00	0.00	0.00
6,900.0	8.50	124.31	6,852.4	-372.8	546.3	377.8	0.00	0.00	0.00
7,000.0	8.50	124.31	6,951.3	-381.2	558.5	386.2	0.00	0.00	0.00
7,100.0	8.50	124.31	7,050.2	-389.5	570.7	394.7	0.00	0.00	0.00
7,200.0	8.50	124.31	7,149.1	-397.8	582.9	403.1	0.00	0.00	0.00
7,300.0	8.50	124.31	7,248.0	-406.1	595.1	411.5	0.00	0.00	0.00
7,340.8	8.50	124.31	7,288.4	-409.5	600.1	415.0	0.00	0.00	0.00
DROP - -1.00									
7,400.0	7.91	124.31	7,347.0	-414.3	607.0	419.8	1.00	-1.00	0.00
7,500.0	6.91	124.31	7,446.2	-421.6	617.7	427.2	1.00	-1.00	0.00
7,600.0	5.91	124.31	7,545.5	-427.9	626.9	433.5	1.00	-1.00	0.00
7,700.0	4.91	124.31	7,645.1	-433.2	634.7	438.9	1.00	-1.00	0.00
7,800.0	3.91	124.31	7,744.8	-437.5	641.0	443.3	1.00	-1.00	0.00
7,900.0	2.91	124.31	7,844.6	-440.8	645.9	446.7	1.00	-1.00	0.00
8,000.0	1.91	124.31	7,944.5	-443.2	649.4	449.1	1.00	-1.00	0.00
8,100.0	0.91	124.31	8,044.5	-444.6	651.4	450.5	1.00	-1.00	0.00
8,190.5	0.00	0.00	8,135.0	-445.0	652.0	450.9	1.00	-1.00	-137.33
HOLD - 3698.0 at 8190.5 MD									
8,200.0	0.00	0.00	8,144.5	-445.0	652.0	450.9	0.00	0.00	0.00
8,300.0	0.00	0.00	8,244.5	-445.0	652.0	450.9	0.00	0.00	0.00
8,400.0	0.00	0.00	8,344.5	-445.0	652.0	450.9	0.00	0.00	0.00
8,500.0	0.00	0.00	8,444.5	-445.0	652.0	450.9	0.00	0.00	0.00
8,600.0	0.00	0.00	8,544.5	-445.0	652.0	450.9	0.00	0.00	0.00
8,700.0	0.00	0.00	8,644.5	-445.0	652.0	450.9	0.00	0.00	0.00
8,800.0	0.00	0.00	8,744.5	-445.0	652.0	450.9	0.00	0.00	0.00
8,900.0	0.00	0.00	8,844.5	-445.0	652.0	450.9	0.00	0.00	0.00
9,000.0	0.00	0.00	8,944.5	-445.0	652.0	450.9	0.00	0.00	0.00
9,100.0	0.00	0.00	9,044.5	-445.0	652.0	450.9	0.00	0.00	0.00
9,200.0	0.00	0.00	9,144.5	-445.0	652.0	450.9	0.00	0.00	0.00
9,300.0	0.00	0.00	9,244.5	-445.0	652.0	450.9	0.00	0.00	0.00
9,400.0	0.00	0.00	9,344.5	-445.0	652.0	450.9	0.00	0.00	0.00
9,500.0	0.00	0.00	9,444.5	-445.0	652.0	450.9	0.00	0.00	0.00
9,600.0	0.00	0.00	9,544.5	-445.0	652.0	450.9	0.00	0.00	0.00
9,700.0	0.00	0.00	9,644.5	-445.0	652.0	450.9	0.00	0.00	0.00
9,800.0	0.00	0.00	9,744.5	-445.0	652.0	450.9	0.00	0.00	0.00
9,900.0	0.00	0.00	9,844.5	-445.0	652.0	450.9	0.00	0.00	0.00



Intrepid Planning Report



Database: EDM 5000.15 Single User Db
Company: 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 #214H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well Junior Mint Fed #214H
TVD Reference: KB @ 3250.0usft
MD Reference: KB @ 3250.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,000.0	0.00	0.00	9,944.5	-445.0	652.0	450.9	0.00	0.00	0.00
10,100.0	0.00	0.00	10,044.5	-445.0	652.0	450.9	0.00	0.00	0.00
10,200.0	0.00	0.00	10,144.5	-445.0	652.0	450.9	0.00	0.00	0.00
10,300.0	0.00	0.00	10,244.5	-445.0	652.0	450.9	0.00	0.00	0.00
10,400.0	0.00	0.00	10,344.5	-445.0	652.0	450.9	0.00	0.00	0.00
10,500.0	0.00	0.00	10,444.5	-445.0	652.0	450.9	0.00	0.00	0.00
10,600.0	0.00	0.00	10,544.5	-445.0	652.0	450.9	0.00	0.00	0.00
10,700.0	0.00	0.00	10,644.5	-445.0	652.0	450.9	0.00	0.00	0.00
10,800.0	0.00	0.00	10,744.5	-445.0	652.0	450.9	0.00	0.00	0.00
10,900.0	0.00	0.00	10,844.5	-445.0	652.0	450.9	0.00	0.00	0.00
11,000.0	0.00	0.00	10,944.5	-445.0	652.0	450.9	0.00	0.00	0.00
11,100.0	0.00	0.00	11,044.5	-445.0	652.0	450.9	0.00	0.00	0.00
11,200.0	0.00	0.00	11,144.5	-445.0	652.0	450.9	0.00	0.00	0.00
11,300.0	0.00	0.00	11,244.5	-445.0	652.0	450.9	0.00	0.00	0.00
11,400.0	0.00	0.00	11,344.5	-445.0	652.0	450.9	0.00	0.00	0.00
11,500.0	0.00	0.00	11,444.5	-445.0	652.0	450.9	0.00	0.00	0.00
11,600.0	0.00	0.00	11,544.5	-445.0	652.0	450.9	0.00	0.00	0.00
11,700.0	0.00	0.00	11,644.5	-445.0	652.0	450.9	0.00	0.00	0.00
11,800.0	0.00	0.00	11,744.5	-445.0	652.0	450.9	0.00	0.00	0.00
11,888.5	0.00	0.00	11,833.0	-445.0	652.0	450.9	0.00	0.00	0.00
KOP - DLS 10.00 TFO 179.48									
11,900.0	1.15	179.48	11,844.5	-445.1	652.0	451.0	10.00	10.00	0.00
11,950.0	6.15	179.48	11,894.4	-448.3	652.0	454.2	10.00	10.00	0.00
12,000.0	11.15	179.48	11,943.8	-455.8	652.1	461.7	10.00	10.00	0.00
12,050.0	16.15	179.48	11,992.4	-467.6	652.2	473.5	10.00	10.00	0.00
12,100.0	21.15	179.48	12,039.7	-483.6	652.3	489.5	10.00	10.00	0.00
12,150.0	26.15	179.48	12,085.5	-503.6	652.5	509.5	10.00	10.00	0.00
12,200.0	31.15	179.48	12,129.4	-527.6	652.7	533.5	10.00	10.00	0.00
12,250.0	36.15	179.48	12,171.0	-555.3	653.0	561.2	10.00	10.00	0.00
12,300.0	41.15	179.48	12,210.0	-586.5	653.3	592.4	10.00	10.00	0.00
12,350.0	46.15	179.48	12,246.2	-621.0	653.6	626.9	10.00	10.00	0.00
12,400.0	51.15	179.48	12,279.2	-658.5	653.9	664.4	10.00	10.00	0.00
12,450.0	56.15	179.48	12,308.8	-698.8	654.3	704.7	10.00	10.00	0.00
12,500.0	61.15	179.48	12,334.8	-741.5	654.7	747.4	10.00	10.00	0.00
12,550.0	66.15	179.48	12,357.0	-786.3	655.1	792.2	10.00	10.00	0.00
12,600.0	71.15	179.48	12,375.2	-832.8	655.5	838.7	10.00	10.00	0.00
12,650.0	76.15	179.48	12,389.3	-880.8	655.9	886.7	10.00	10.00	0.00
12,700.0	81.15	179.48	12,399.1	-929.8	656.4	935.7	10.00	10.00	0.00
12,750.0	86.15	179.48	12,404.7	-979.4	656.8	985.4	10.00	10.00	0.00
12,785.5	89.70	179.48	12,405.9	-1,014.9	657.1	1,020.8	10.00	10.00	0.00
EOC - 10084.6 hold at 12785.5 MD									
12,800.0	89.70	179.48	12,406.0	-1,029.4	657.3	1,035.3	0.00	0.00	0.00
12,900.0	89.70	179.48	12,406.6	-1,129.4	658.2	1,135.3	0.00	0.00	0.00
13,000.0	89.70	179.48	12,407.1	-1,229.4	659.1	1,235.3	0.00	0.00	0.00
13,100.0	89.70	179.48	12,407.6	-1,329.4	660.0	1,335.3	0.00	0.00	0.00
13,200.0	89.70	179.48	12,408.1	-1,429.4	660.9	1,435.3	0.00	0.00	0.00
13,300.0	89.70	179.48	12,408.7	-1,529.4	661.8	1,535.3	0.00	0.00	0.00
13,400.0	89.70	179.48	12,409.2	-1,629.4	662.7	1,635.3	0.00	0.00	0.00
13,500.0	89.70	179.48	12,409.7	-1,729.4	663.6	1,735.3	0.00	0.00	0.00
13,600.0	89.70	179.48	12,410.2	-1,829.4	664.5	1,835.3	0.00	0.00	0.00
13,700.0	89.70	179.48	12,410.8	-1,929.4	665.4	1,935.3	0.00	0.00	0.00
13,800.0	89.70	179.48	12,411.3	-2,029.4	666.3	2,035.3	0.00	0.00	0.00
13,900.0	89.70	179.48	12,411.8	-2,129.4	667.2	2,135.3	0.00	0.00	0.00
14,000.0	89.70	179.48	12,412.4	-2,229.3	668.1	2,235.3	0.00	0.00	0.00



Intrepid Planning Report



Database: EDM 5000.15 Single User Db
Company: 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 #214H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well Junior Mint Fed #214H
TVD Reference: KB @ 3250.0usft
MD Reference: KB @ 3250.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,100.0	89.70	179.48	12,412.9	-2,329.3	669.0	2,335.3	0.00	0.00	0.00
14,200.0	89.70	179.48	12,413.4	-2,429.3	669.9	2,435.3	0.00	0.00	0.00
14,300.0	89.70	179.48	12,413.9	-2,529.3	670.8	2,535.3	0.00	0.00	0.00
14,400.0	89.70	179.48	12,414.5	-2,629.3	671.7	2,635.3	0.00	0.00	0.00
14,500.0	89.70	179.48	12,415.0	-2,729.3	672.6	2,735.3	0.00	0.00	0.00
14,600.0	89.70	179.48	12,415.5	-2,829.3	673.5	2,835.3	0.00	0.00	0.00
14,700.0	89.70	179.48	12,416.0	-2,929.3	674.4	2,935.3	0.00	0.00	0.00
14,800.0	89.70	179.48	12,416.6	-3,029.3	675.3	3,035.3	0.00	0.00	0.00
14,900.0	89.70	179.48	12,417.1	-3,129.3	676.2	3,135.3	0.00	0.00	0.00
15,000.0	89.70	179.48	12,417.6	-3,229.3	677.1	3,235.3	0.00	0.00	0.00
15,100.0	89.70	179.48	12,418.2	-3,329.3	678.0	3,335.3	0.00	0.00	0.00
15,200.0	89.70	179.48	12,418.7	-3,429.3	678.9	3,435.3	0.00	0.00	0.00
15,300.0	89.70	179.48	12,419.2	-3,529.3	679.8	3,535.3	0.00	0.00	0.00
15,400.0	89.70	179.48	12,419.7	-3,629.3	680.7	3,635.3	0.00	0.00	0.00
15,500.0	89.70	179.48	12,420.3	-3,729.3	681.6	3,735.3	0.00	0.00	0.00
15,600.0	89.70	179.48	12,420.8	-3,829.3	682.5	3,835.3	0.00	0.00	0.00
15,700.0	89.70	179.48	12,421.3	-3,929.3	683.4	3,935.3	0.00	0.00	0.00
15,800.0	89.70	179.48	12,421.9	-4,029.3	684.3	4,035.3	0.00	0.00	0.00
15,900.0	89.70	179.48	12,422.4	-4,129.2	685.2	4,135.3	0.00	0.00	0.00
16,000.0	89.70	179.48	12,422.9	-4,229.2	686.1	4,235.3	0.00	0.00	0.00
16,100.0	89.70	179.48	12,423.4	-4,329.2	687.0	4,335.3	0.00	0.00	0.00
16,200.0	89.70	179.48	12,424.0	-4,429.2	687.9	4,435.3	0.00	0.00	0.00
16,300.0	89.70	179.48	12,424.5	-4,529.2	688.8	4,535.3	0.00	0.00	0.00
16,400.0	89.70	179.48	12,425.0	-4,629.2	689.7	4,635.3	0.00	0.00	0.00
16,500.0	89.70	179.48	12,425.5	-4,729.2	690.6	4,735.3	0.00	0.00	0.00
16,600.0	89.70	179.48	12,426.1	-4,829.2	691.5	4,835.3	0.00	0.00	0.00
16,700.0	89.70	179.48	12,426.6	-4,929.2	692.4	4,935.3	0.00	0.00	0.00
16,800.0	89.70	179.48	12,427.1	-5,029.2	693.3	5,035.3	0.00	0.00	0.00
16,900.0	89.70	179.48	12,427.7	-5,129.2	694.2	5,135.3	0.00	0.00	0.00
17,000.0	89.70	179.48	12,428.2	-5,229.2	695.1	5,235.3	0.00	0.00	0.00
17,100.0	89.70	179.48	12,428.7	-5,329.2	696.0	5,335.3	0.00	0.00	0.00
17,200.0	89.70	179.48	12,429.2	-5,429.2	696.9	5,435.3	0.00	0.00	0.00
17,300.0	89.70	179.48	12,429.8	-5,529.2	697.8	5,535.3	0.00	0.00	0.00
17,400.0	89.70	179.48	12,430.3	-5,629.2	698.7	5,635.3	0.00	0.00	0.00
17,500.0	89.70	179.48	12,430.8	-5,729.2	699.6	5,735.3	0.00	0.00	0.00
17,600.0	89.70	179.48	12,431.3	-5,829.2	700.5	5,835.3	0.00	0.00	0.00
17,700.0	89.70	179.48	12,431.9	-5,929.1	701.4	5,935.3	0.00	0.00	0.00
17,800.0	89.70	179.48	12,432.4	-6,029.1	702.3	6,035.3	0.00	0.00	0.00
17,900.0	89.70	179.48	12,432.9	-6,129.1	703.2	6,135.3	0.00	0.00	0.00
18,000.0	89.70	179.48	12,433.5	-6,229.1	704.1	6,235.3	0.00	0.00	0.00
18,100.0	89.70	179.48	12,434.0	-6,329.1	705.0	6,335.3	0.00	0.00	0.00
18,200.0	89.70	179.48	12,434.5	-6,429.1	705.9	6,435.3	0.00	0.00	0.00
18,300.0	89.70	179.48	12,435.0	-6,529.1	706.8	6,535.3	0.00	0.00	0.00
18,400.0	89.70	179.48	12,435.6	-6,629.1	707.7	6,635.3	0.00	0.00	0.00
18,500.0	89.70	179.48	12,436.1	-6,729.1	708.6	6,735.3	0.00	0.00	0.00
18,600.0	89.70	179.48	12,436.6	-6,829.1	709.5	6,835.3	0.00	0.00	0.00
18,700.0	89.70	179.48	12,437.1	-6,929.1	710.4	6,935.3	0.00	0.00	0.00
18,800.0	89.70	179.48	12,437.7	-7,029.1	711.3	7,035.3	0.00	0.00	0.00
18,900.0	89.70	179.48	12,438.2	-7,129.1	712.2	7,135.3	0.00	0.00	0.00
19,000.0	89.70	179.48	12,438.7	-7,229.1	713.1	7,235.3	0.00	0.00	0.00
19,100.0	89.70	179.48	12,439.3	-7,329.1	714.0	7,335.2	0.00	0.00	0.00
19,200.0	89.70	179.48	12,439.8	-7,429.1	714.9	7,435.2	0.00	0.00	0.00
19,300.0	89.70	179.48	12,440.3	-7,529.1	715.8	7,535.2	0.00	0.00	0.00
19,400.0	89.70	179.48	12,440.8	-7,629.1	716.7	7,635.2	0.00	0.00	0.00



Intrepid Planning Report



Database: EDM 5000.15 Single User Db
Company: 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 #214H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well Junior Mint Fed #214H
TVD Reference: KB @ 3250.0usft
MD Reference: KB @ 3250.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,500.0	89.70	179.48	12,441.4	-7,729.0	717.6	7,735.2	0.00	0.00	0.00
19,600.0	89.70	179.48	12,441.9	-7,829.0	718.5	7,835.2	0.00	0.00	0.00
19,700.0	89.70	179.48	12,442.4	-7,929.0	719.4	7,935.2	0.00	0.00	0.00
19,800.0	89.70	179.48	12,443.0	-8,029.0	720.3	8,035.2	0.00	0.00	0.00
19,900.0	89.70	179.48	12,443.5	-8,129.0	721.2	8,135.2	0.00	0.00	0.00
20,000.0	89.70	179.48	12,444.0	-8,229.0	722.1	8,235.2	0.00	0.00	0.00
20,100.0	89.70	179.48	12,444.5	-8,329.0	723.0	8,335.2	0.00	0.00	0.00
20,200.0	89.70	179.48	12,445.1	-8,429.0	723.9	8,435.2	0.00	0.00	0.00
20,300.0	89.70	179.48	12,445.6	-8,529.0	724.8	8,535.2	0.00	0.00	0.00
20,400.0	89.70	179.48	12,446.1	-8,629.0	725.7	8,635.2	0.00	0.00	0.00
20,500.0	89.70	179.48	12,446.6	-8,729.0	726.6	8,735.2	0.00	0.00	0.00
20,600.0	89.70	179.48	12,447.2	-8,829.0	727.5	8,835.2	0.00	0.00	0.00
20,700.0	89.70	179.48	12,447.7	-8,929.0	728.4	8,935.2	0.00	0.00	0.00
20,800.0	89.70	179.48	12,448.2	-9,029.0	729.3	9,035.2	0.00	0.00	0.00
20,900.0	89.70	179.48	12,448.8	-9,129.0	730.2	9,135.2	0.00	0.00	0.00
21,000.0	89.70	179.48	12,449.3	-9,229.0	731.1	9,235.2	0.00	0.00	0.00
21,100.0	89.70	179.48	12,449.8	-9,329.0	732.1	9,335.2	0.00	0.00	0.00
21,200.0	89.70	179.48	12,450.3	-9,429.0	733.0	9,435.2	0.00	0.00	0.00
21,300.0	89.70	179.48	12,450.9	-9,529.0	733.9	9,535.2	0.00	0.00	0.00
21,400.0	89.70	179.48	12,451.4	-9,628.9	734.8	9,635.2	0.00	0.00	0.00
21,500.0	89.70	179.48	12,451.9	-9,728.9	735.7	9,735.2	0.00	0.00	0.00
21,600.0	89.70	179.48	12,452.4	-9,828.9	736.6	9,835.2	0.00	0.00	0.00
21,700.0	89.70	179.48	12,453.0	-9,928.9	737.5	9,935.2	0.00	0.00	0.00
21,800.0	89.70	179.48	12,453.5	-10,028.9	738.4	10,035.2	0.00	0.00	0.00
21,900.0	89.70	179.48	12,454.0	-10,128.9	739.3	10,135.2	0.00	0.00	0.00
22,000.0	89.70	179.48	12,454.6	-10,228.9	740.2	10,235.2	0.00	0.00	0.00
22,100.0	89.70	179.48	12,455.1	-10,328.9	741.1	10,335.2	0.00	0.00	0.00
22,200.0	89.70	179.48	12,455.6	-10,428.9	742.0	10,435.2	0.00	0.00	0.00
22,300.0	89.70	179.48	12,456.1	-10,528.9	742.9	10,535.2	0.00	0.00	0.00
22,400.0	89.70	179.48	12,456.7	-10,628.9	743.8	10,635.2	0.00	0.00	0.00
22,500.0	89.70	179.48	12,457.2	-10,728.9	744.7	10,735.2	0.00	0.00	0.00
22,600.0	89.70	179.48	12,457.7	-10,828.9	745.6	10,835.2	0.00	0.00	0.00
22,700.0	89.70	179.48	12,458.3	-10,928.9	746.5	10,935.2	0.00	0.00	0.00
22,800.0	89.70	179.48	12,458.8	-11,028.9	747.4	11,035.2	0.00	0.00	0.00
22,870.1	89.70	179.48	12,459.1	-11,099.0	748.0	11,105.3	0.00	0.00	0.00
TD at 22870.1									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Junior Mint Fed # - hit/miss target - Shape - Point	0.00	0.00	12,401.0	-645.0	653.0	415,091.00	845,692.00	32° 8' 14.441 N	103° 21' 0.214 W
- plan misses target center by 106.6usft at 12452.0usft MD (12310.0 TVD, -700.5 N, 654.3 E)									
PBHL (Junior Mint Fec - plan hits target center - Rectangle (sides W100.0 H10,454.0 D30.0)	0.30	179.48	12,459.1	-11,099.0	748.0	404,637.00	845,787.00	32° 6' 30.993 N	103° 21' 0.218 W
LTP (Junior Mint Fed # - plan misses target center by 0.5usft at 22775.1usft MD (12458.6 TVD, -11004.0 N, 747.1 E) - Point	0.00	0.00	12,459.1	-11,004.0	747.0	404,732.00	845,786.00	32° 6' 31.933 N	103° 21' 0.220 W



Intrepid Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Junior Mint Fed #214H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3250.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3250.0usft
Site:	(Junior Mint Fed) Sec-15_T-25-S_R-35-E	North Reference:	Grid
Well:	Junior Mint Fed #214H	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				
4,946.1	4,920.0	Base Salt				
5,188.8	5,160.0	Delaware Mountain Gp				
5,193.8	5,165.0	Lamar				
5,214.1	5,185.0	Bell Canyon				
5,234.3	5,205.0	Ramsey Sand				
6,189.8	6,150.0	Cherry Canyon				
7,674.8	7,620.0	Brushy Canyon				
8,985.5	8,930.0	Bone Spring Lime				
9,010.5	8,955.0	Upper Avalon				
9,240.5	9,185.0	Middle/Lower Avalon				
10,220.5	10,165.0	1st Bone Spring Sand				
10,385.5	10,330.0	2nd Bone Spring Carb				
10,770.5	10,715.0	2nd Bone Spring Sand				
11,320.5	11,265.0	3rd Bone Spring Carb				
11,950.6	11,895.0	3rd Bone Spring Sand				
12,200.7	12,130.0	3rd BS W Sand				
12,300.0	12,210.0	Wolfcamp A X Sand				
12,362.9	12,255.0	Wolfcamp A Y Sand				
12,470.6	12,320.0	Wolfcamp A Lower				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
2,000.0	2,000.0	0.0	0.0	NUDGE - Build 1.00	
2,849.7	2,846.6	-35.5	51.9	HOLD - 4491.1 at 2849.7 MD	
7,340.8	7,288.4	-409.5	600.1	DROP - -1.00	
8,190.5	8,135.0	-445.0	652.0	HOLD - 3698.0 at 8190.5 MD	
11,888.5	11,833.0	-445.0	652.0	KOP - DLS 10.00 TFO 179.48	
12,785.5	12,405.9	-1,014.9	657.1	EOC - 10084.6 hold at 12785.5 MD	
22,870.1	12,459.1	-11,099.0	748.0	TD at 22870.1	

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Tap Rock Operating LLC
WELL NAME & NO.:	Junior Mint Fed 214H
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

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 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-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 Windssocks and / Wind Streamers:

- Windssocks at mud pit area should be high enough to be visible
- Windssock 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

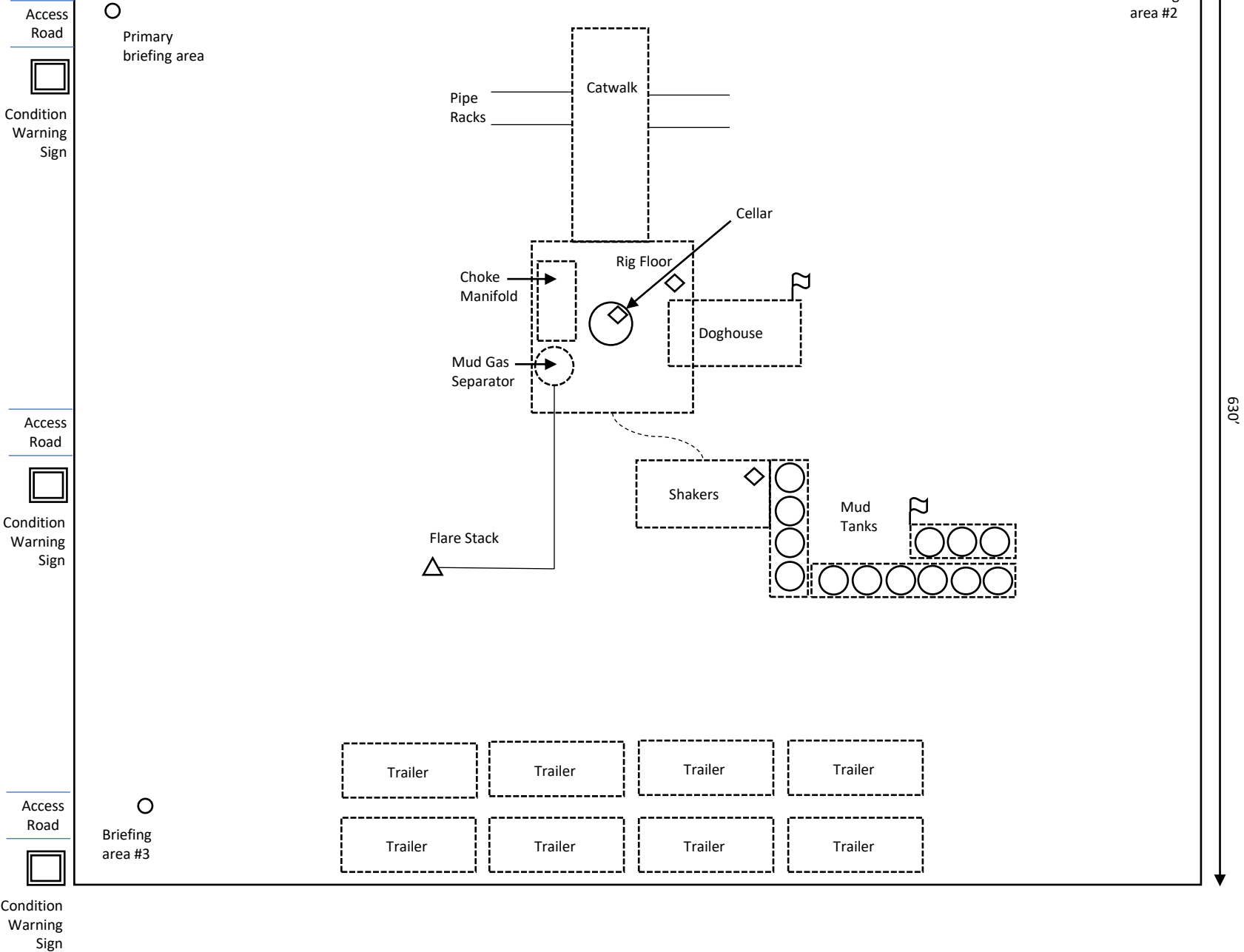
- N

↑
- Briefing Area
- Current Well
- △

Flare Stack
- ◇

H2S Monitor
- ⌚

Wind Indicator
- Mud Gas Separator

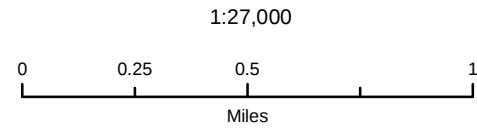


Tap Rock Operating LLC

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

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

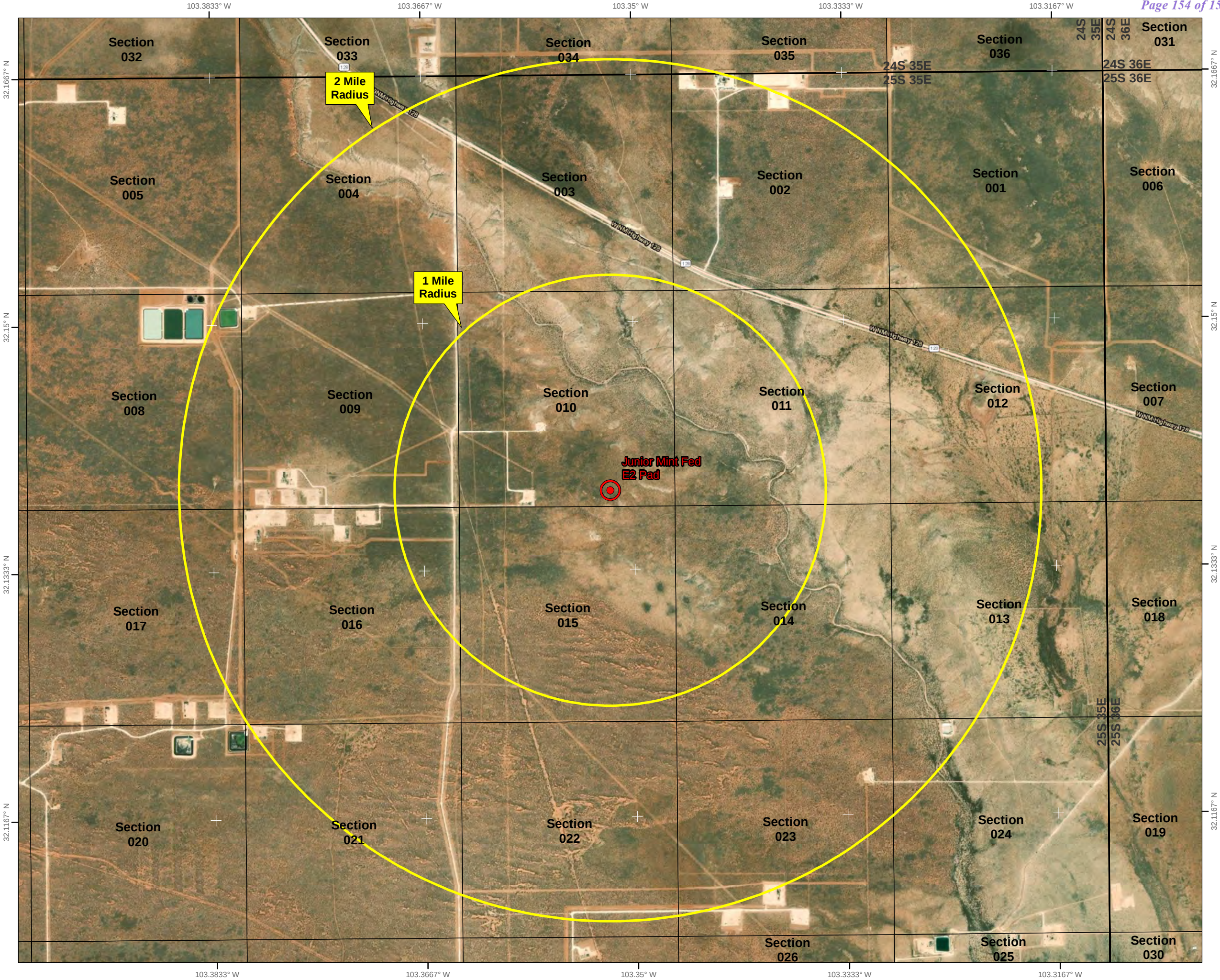
 Well Pad Location

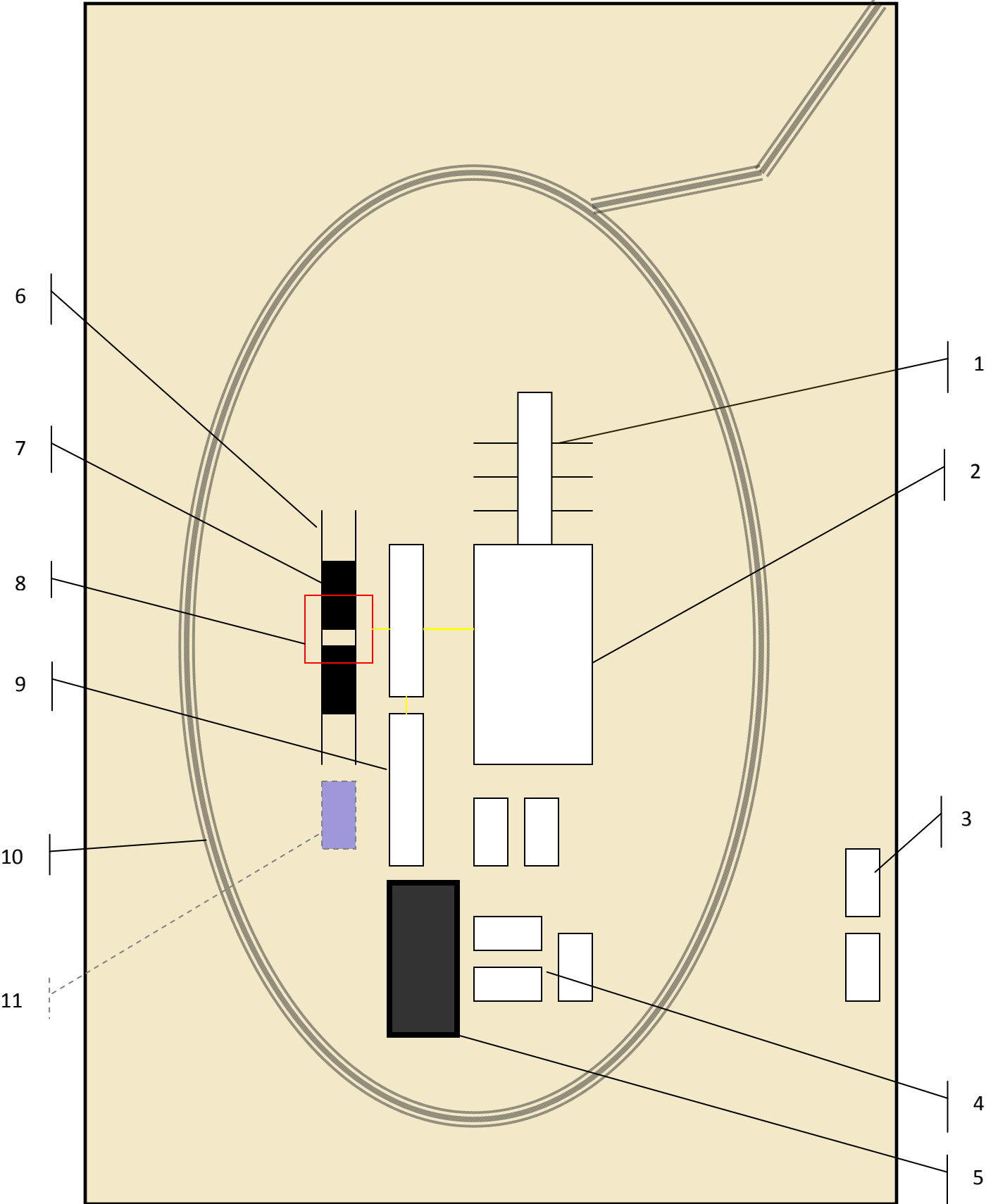


NAD 1983 New Mexico State Plane East
FIPS 3001 Feet



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

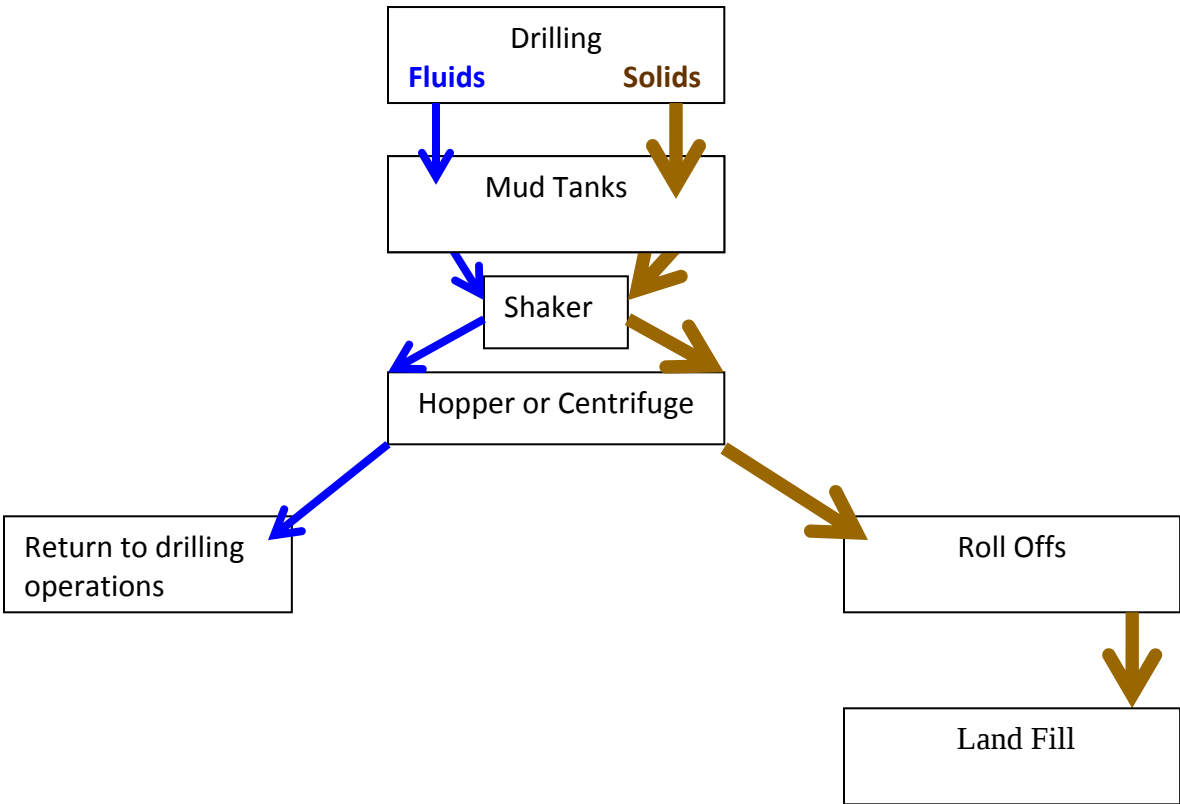


PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120



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

Action 526776

ACKNOWLEDGMENTS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 526776
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

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

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

CONDITIONS

Action 526776

CONDITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID:
	332195
	Action Number: 526776
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