Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No. NMNM101609

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

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

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

8. Well Name and No.
JUNIOR MINT FED/217H

2. Name of Operator CIVITAS PERMIAN OPERATING LLC

9. API Well No.

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

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

10. Field and Pool or Exploratory Area
Dogie Draw; Wolfcamp

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
SEC 15/T25S/R35E/NMP

11. Country or Parish, State
LEA/NM

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

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

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

Civitas Permian Operating, LLC requests the following changes to the previously approved surface hole location (SHL) and drill plan. Change SHL from 272 FNL & 1531 FWL, NENW, Sec. 15, T.25S, R.35E to 301 FNL & 1411 FWL, NENW, Sec. 15, T.25S, R.35E. Changes to the drill plan and other variance requests are detailed in the attached summary and supporting documents. Please see the attached revised C102 plat, directional plan, anticollision report, production casing spec sheets and wellhead diagram for additional information.

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

Title Permitting Agent

Signature (Electronic Submission)

Date 04/18/2025

THE SPACE FOR FEDERAL OR STATE OFICE USE

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

Title Petroleum Engineer

Date 05/27/2025

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)

Additional Information

Location of Well

0. SHL: NENW / 272 FNL / 1531 FWL / TWSP: 25S / RANGE: 35E / SECTION: 15 / LAT: 32.136889 / LONG: -103.3589871 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 114 FNL / 2359 FWL / TWSP: 25S / RANGE: 35E / SECTION: 15 / LAT: 32.1373216 / LONG: -103.3563133 (TVD: 12210 feet, MD: 12298 feet)

BHL: SESW / 5 FSL / 2361 FWL / TWSP: 25S / RANGE: 35E / SECTION: 22 / LAT: 32.1086319 / LONG: -103.3563237 (TVD: 12597 feet, MD: 22841 feet)

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-025- 54751	17980	DOGIE DRAW; WOLFCAMP

Property Code	Property Name	Well Number
337333	JUNIOR MINT FED	217H

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

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
C	15	25-S	35-E	-	301' N	1411' W	N 32.1368095	W 103.3593756	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
N	22	25-S	35-E	-	5' S	2361' W	N 32.1086319	W 103.3563237	LEA

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

Order Numbers: -

Well Setbacks are under Common Ownership: ☒ Yes ☐ No

Kick Off Point (KOP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
C	15	25-S	35-E	-	100' N	2361' W	N 32.1373568	W 103.3563074	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
C	15	25-S	35-E	-	100' N	2361' W	N 32.1373568	W 103.3563074	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
N	22	25-S	35-E	-	100' S	2361' W	N 32.1088930	W 103.3563230	LEA

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

OPERATOR CERTIFICATION

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

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

Cory Walk 4-16-25

Signature Date

Cory Walk

Print Name

cory@permitswest.com

E-mail Address

SURVEYORS CERTIFICATION

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

RAMON DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

2/6/2025 4:24:33 PM

Signature and Seal of Professional Surveyor Date

Certificate Number

Date of Survey: 01/30/2025

M:\SURVEY\CIVITAS_RESOURCES_INC\LEA\JUNIOR_MINT_UNIT\FINAL_PRODUCT\JUNIOR MINT FED REVISED\JO_JUNIOR_MINT_FED_217H.dwg SHORNECK 2/6/2025 4:24 PM

C-102

Submit Electronically
Via OCD Permitting

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

Revised July 9, 2024

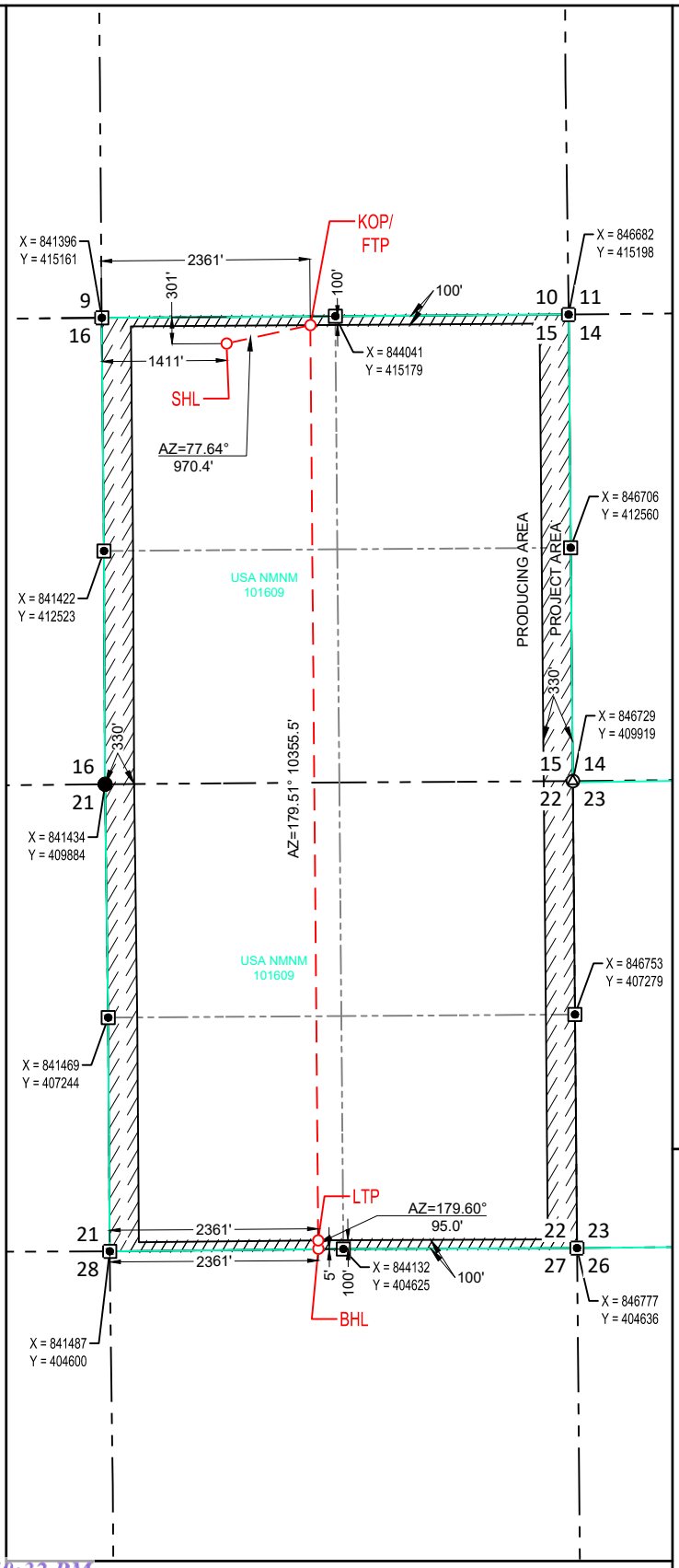
Submittal Type:
- ☐ Initial Submittal
- ☒ Amended Report
- ☐ As Drilled

Property Name and Well Number

JUNIOR MINT FED 217H

SURFACE LOCATION (SHL)
NEW MEXICO EAST
NAD 1983
X=842810 Y=414870
LAT.: N 32.1368095
LONG.: W 103.3593756
NAD 1927
X=801623 Y=414812
LAT.: N 32.1366832
LONG.: W 103.3589105
301' FNL 1411' FWL

KICK OFF POINT (KOP)
FIRST TAKE POINT (FTP)
NEW MEXICO EAST
NAD 1983
X=843758 Y=415078
LAT.: N 32.1373568
LONG.: W 103.3563074
NAD 1927
X=802571 Y=415019
LAT.: N 32.1372305
LONG.: W 103.3558425
100' FNL 2361' FWL



LAST TAKE POINT (LTP)
NEW MEXICO EAST
NAD 1983
X=843847 Y=404723
LAT.: N 32.1088930
LONG.: W 103.3563230
NAD 1927
X=802660 Y=404665
LAT.: N 32.1087665
LONG.: W 103.3558596
100' FSL 2361' FWL

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST
NAD 1983
X=843848 Y=404628
LAT.: N 32.1086319
LONG.: W 103.3563237
NAD 1927
X=802661 Y=404570
LAT.: N 32.1085054
LONG.: W 103.3558602
5' FSL 2361' FWL

SURVEYORS CERTIFICATION

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

01/30/2025
Date of Survey
Signature and Seal of Professional Surveyor:

RAMON DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

2/6/2025 4:24:37 PM

M:\SURVEY\CVITAS_RESOURCES_INC\EA\JUNIOR_MINT_UNIT\FINAL_PRODUCTS\JUNIOR MINT FED REVISED\LO_JUNIOR_MINT_FED_217H.dwg EHORNBECK 2/6/2025 4:24 PM

CIVITAS

Junior Mint Sundry Summary

4/3/2025

Civitas Resources is requesting sundries/variances for the upcoming Junior Mint drilling campaigns.

1. Cement Volumes and Design: Civitas Resources requests to sundry cement volumes to the following strings with comments noted below:

    - Intermediate Cement: for all Junior Mint wells with deepset 7 5/8" intermediate strings, the following items are updated in the cement table:

        i. Intermediate Lead/Tail Volumes: based of offset TapRock wells drilled in the previous two years, the lead and tail cement volumes are increased to improve assurance of cement to surface.

        ii. Intermediate Yield: The lead cement yield for the 10.5 ppg slurry is updated to reflect recent labs from cement providers.

        iii. Intermediate Contingency for no returns and/or lack of cement to surface: the goal is to ensure quality cement from shoe to surface

            1. No Returns at TD of 9 7/8" Hole: Civitas Resources requests to pump an intentional 2-stage cement job where stage 1 would be pumped to the mid/base of the Brushy Canyon and stage 2 would be pumped as a standard bradenhead squeeze to the mid/base of Brushy Canyon, thus cementing the entire string. To verify the TOC of stage 2, and Echo-meter will be used

                Stage 1 Cement Details (conventional):
                Single slurry: 15.6 ppg cement, Class H, Yield: 1.18 cuft/sk, 25% xs
                DBE Emulsion Spacer (weighted)

                Stage 2 Cement Details (bradenhead):
                Lead: 14.8 ppg, Class C Thixotropic + LCM, Yield: 1.44 cuft/sk, 100% xs
                DBE Spacer (weighted)

                Tail: 14.8 ppg, Class C Thixotropic, Yield: 1.44 cuft/sk, 100% xs, shoot temp survey to determine TOC

                Top Out (if necessary): 14.8 Class C Neat, Yield: 1.33 cuft/sk; if required, Civitas Resources will request BLM approval to top out after running a temp survey and report back to BLM the amount of volume to flush cement lines to wellhead.

            2. No Cement to Surface 7 5/8" cement Job: Civitas Resources requests to pump an intentional 2-stage cement job where stage 1 would be pumped to the

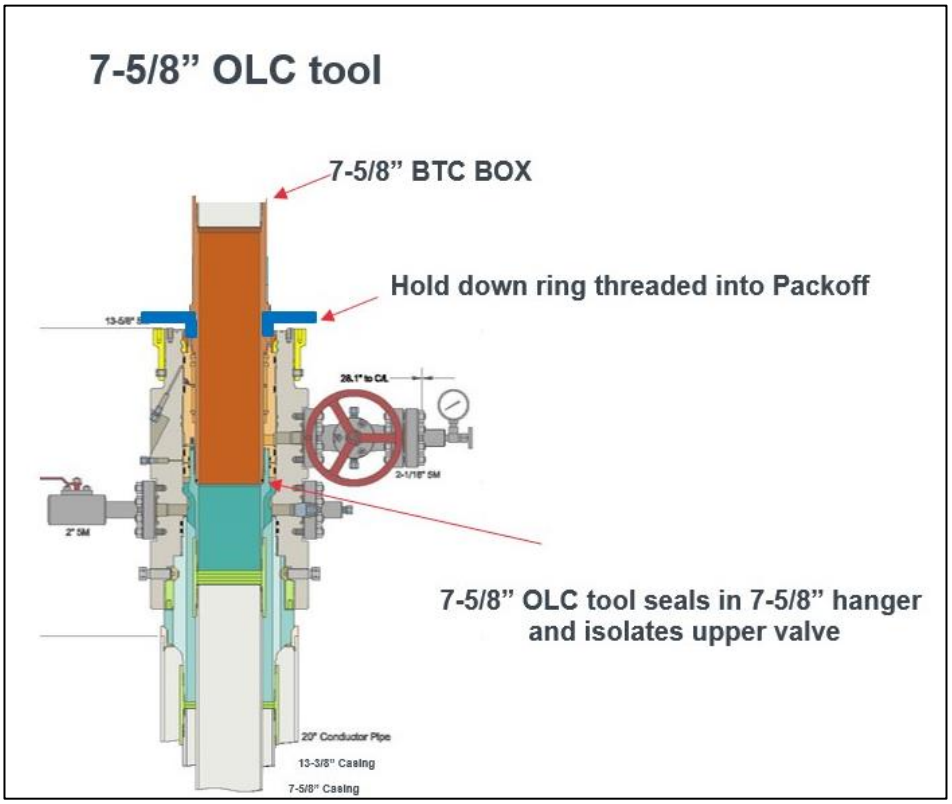
mid/base of the Brushy Canyon and stage 2 would be pumped as a standard bradenhead squeeze to the mid/base of Brushy Canyon (as described above), thus cementing the entire string. To verify the TOC of stage 2, and Echo-meter will be used and with BLM approval, top out the job as needed.

- Production Cement: the production tail volume has been increased from 200' to 500' to improve the overlap between intermediate and production casing

2. Offline Cementing Intermediate Casing Only: In addition to the batch drilling variance submitted in the original APD, Civitas Resources requests a variance for the option to offline cement intermediate casing strings set higher than the top of the WCA during the Junior Mint drilling campaign. To execute offline cement jobs safely, the following precautions and equipment are detailed below:

- During the drilling of the 9 7/8" and 10 5/8" hole sections (all TD'd above the WCA top), hole conditions will be monitored and addressed to ensure for a successful casing run. In the event hole conditions change after running casing and/or the well is not in a static state, Civitas Resources can elect to pump the cement job online.

- Equipment for the offline cement job will include a tested/charted 5M working pressure dual manifold cement head system will be used with a standard offline cement tool that is packed off and tested through a port between the upper valve and packoff assembly (diagram below). Returns from the manifold will be taken to an auxiliary mud-gas separator during cement job. The operational scope is described in the following steps: the casing will be landed on the mandrel, pull tested, packoff installed and tested to 80% of collapse of casing on the top and bottom seals, nipple down BOP and install offline cement tool/manifold. The offline cement tool screws into the top of the packoff assembly. During the cement job, all returns will be taken through the A-Section valve (flanged).



3. BOPE Testing Procedure for Batch Drilling: Civitas Resources requests a variance to adjust the BOPE testing procedure to accommodate batch drilling. Details of the request are below:
    - In lieu of a full BOP test during batch intermediate drilling operations, Civitas Resources requests to "Break-Test" or only test BOP connection breaks that are separated during skids between intermediate casing strings set above 5M BOPE thresholds/Wolfcamp A top. Industry standards are adhered to in terms of timing of breaks as noted in API Standard 53 which will include test charts during each skid for the following: Top Pipe Rams or VBRs, HCR, Downstream Kill Line, QDC Adapter – wellhead quick connect, and the body/shell of the BOP stack to 5M for 10 minutes.
    - Depending on the length and position of the next batch drilled intermediate hole section, the flex hose that connects to the choke manifold might have to be broken out, at which point the break will also be tested. This is not expected with Civitas Resources' rig fleet but could occur.
    - All "Break Test" BOPE operations will follow a 14-day limit, such that, Civitas Resources can have a 7-day buffer to execute a full test as per Onshore Order 43 CFR 3172 (21-day limit).
    - After completion of batch drilling operations for all intermediate hole sections above the WCA, the BOP tests will follow Onshore Order 43 CFR 3172
    - In the event any part of the BOPE equipment is changed or fails a test, a full test BOPE test will be performed. If the "Break Test" is not performed during the proper timing interval, a full BOPE test will take place.
    - The BLM will be contacted in the event a well control event is encountered.
    - During all "Break Test" or full BOPE tests, the BLM will be notified 4 hours before the test.
    - Before drilling out intermediate shoes and commencing production hole drilling, a full BOP test will be performed for all targets requiring a 10M BOPE pressure test; this test will override a previous 14 day "Break Test" interval.

4. Centralizer Variance: Due to the design of the intermediate casing strings on the Third Bone Spring Sand, WCA, and WCB intervals on the Junior Mint development (11 3/4" x 7 5/8" x 5 ½" casing design), a variance to waive the centralizers is requested due to the tight clearance between 6 ¾" hole and 5 ½" casing and the risk of not getting casing to bottom.

CIVITAS

- Junior Mint Fed 217, WCA Target

Estimated Tops:

Formation	TVD	MD	Lithologies	Bearing
Quarternary Deposits	0	0	Surface	None
Rustler	660	660	Salt	Salt
Top Salt	1,100	1,100	Salt	Salt
Base Salt	4,920	4,924	**Salt**	Salt
DMG	5,160	5,175	Sandstone	None
Lamar	5,165	5,180	Sandstone	Hydrocarbons
Bell Canyon	5,185	5,285	Sandstone	Hydrocarbons
Ramsey Sand	5,205	5,305	Sandstone	Hydrocarbons
Cherry Canyon	6,150	6,250	Limestone	Hydrocarbons
Brushy Canyon	7,620	7,720	Sandstone	Hydrocarbons
Bone Spring Lime	8,930	9,030	Carbonate	Hydrocarbons
Upper Avalon	8,955	9,055	Carbonate	Hydrocarbons
Middle Avalon	9,185	9,285	Carbonate	Hydrocarbons
1st BS Sand	10,165	10,265	Sandstone	Hydrocarbons
2nd BS Carb	10,330	10,430	Carbonate	Hydrocarbons
2nd BS Sand	10,715	10,815	Sandstone	Hydrocarbons
3rd BS Carb	11,265	11,365	Carbonate	Hydrocarbons
3rd BS Sand	11,895	11,995	Sandstone	Hydrocarbons
KOP	11937	12048	Carbonate	Hydrocarbons
TD	12596	22875	Carbonate	Hydrocarbons

Casing Design:

Section	Drilled Interval			Casing Size	Standard	Tapered	Casing Set Depths				Casing Details					
	Hole Size	Top	Btm				Top MD	Bottom MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	14 3/4	0	1,075	11 3/4	API	No	0	1,075	0	1,075	J-55	47	BTC	1.13	1.15	1.6
1st Intermediate	9 7/8	1,075	11,948	7 5/8	API	No	0	11,948	0	11,737	P-110	29.7	BTC	1.13	1.15	1.6
Production	6 3/4	11,948	12,048	5 1/2	NON API	No	0	12,048	0	11,937	P110RYS	23	Talon	1.13	1.15	1.6
	6 3/4	12,048	22,875	5 1/2	NON API	No	12,048	22,875	11,937	12,596	P110RY	23	Talon	1.13	1.15	1.6

Cement Volumes:

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Lead	0	391	1.72	672	13.5	100%	C	Additives + LCM
	Tail	775	196	1.33	260	14.8	100%	C	Additives + LCM
Intermediate	Lead	0	1074	4.29	4610	10.5	200%	C	Contingency Bradenhead Squeeze, LCM Lead
	Tail	10948	129	1.67	215	13.2	100%	C	Additives + LCM
Production	Tail	11448	924	1.24	1145	13.2	20%	H	Fluid Loss + Dispersant + Retarder + LCM

Mud Program:

Name	Top	Bottom	Type	Mud Weight	Visc	Fluid Loss
Surface	0	1,075	FW Spud Mud	8.40	28	NC
1st Intermediate	1,075	11,948	DBE	9.20	27-30	NC
Production	11,948	22,875	OBM	12.50	55-65	<16

U. S. Steel Tubular Products

2/25/2025 2:43:45 PM

5.500" 23.00lb/ft (0.415" Wall) P110 RY USS-TALON HTQ™ RD

MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		[6]
Minimum Yield Strength	110,000	--	psi	--
Maximum Yield Strength	125,000	--	psi	--
Minimum Tensile Strength	125,000	--	psi	--
DIMENSIONS	**Pipe**	**USS-TALON HTQ™ RD**		**--**
Outside Diameter	5.500	5.900	in.	--
Wall Thickness	0.415	--	in.	--
Inside Diameter	4.670	4.670	in.	--
Standard Drift	4.545	4.545	in.	--
Alternate Drift	--	--	in.	--
Nominal Linear Weight, T&C	23.00	--	lb/ft	--
Plain End Weight	22.56	--	lb/ft	--
SECTION AREA	**Pipe**	**USS-TALON HTQ™ RD**		**--**
Critical Area	6.630	6.425	sq. in.	--
Joint Efficiency	--	96.9	%	[2]
PERFORMANCE	**Pipe**	**USS-TALON HTQ™ RD**		**--**
Minimum Collapse Pressure	14,540	14,540	psi	--
Minimum Internal Yield Pressure	14,520	14,520	psi	--
Minimum Pipe Body Yield Strength	729,000	--	lb	--
Joint Strength	--	707,000	lb	--
Compression Rating	--	707,000	lb	--
Reference Length	--	20,490	ft	[5]
Maximum Uniaxial Bend Rating	--	88.9	deg/100 ft	[3]
MAKE-UP DATA	**Pipe**	**USS-TALON HTQ™ RD**		**--**
Make-Up Loss	--	5.58	in.	--
Minimum Make-Up Torque	--	20,800	ft-lb	[4]
Maximum Make-Up Torque	--	23,800	ft-lb	[4]
Maximum Operating Torque	--	39,800	ft-lb	[4]

UNCONTROLLED

Notes

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
3. Uniaxial bend rating shown is structural only.
4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
6. Coupling must meet minimum mechanical properties of the pipe.

Legal Notice

All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

U. S. Steel Tubular Products
460 Wildwood Forest Drive, Suite 300S
Spring, Texas 77380

1-877-893-9461
connections@uss.com
www.usstubular.com

U. S. Steel Tubular Products

2/25/2025 2:25:12 PM

5.500" 23.00lb/ft (0.415" Wall) USS RYS110 USS-TALON HTQ™ RD

MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		[6]
Minimum Yield Strength	110,000	--	psi	--
Maximum Yield Strength	125,000	--	psi	--
Minimum Tensile Strength	120,000	--	psi	--
DIMENSIONS	**Pipe**	**USS-TALON HTQ™ RD**		**--**
Outside Diameter	5.500	5.900	in.	--
Wall Thickness	0.415	--	in.	--
Inside Diameter	4.670	4.670	in.	--
Standard Drift	4.545	4.545	in.	--
Alternate Drift	--	--	in.	--
Nominal Linear Weight, T&C	23.00	--	lb/ft	--
Plain End Weight	22.56	--	lb/ft	--
SECTION AREA	**Pipe**	**USS-TALON HTQ™ RD**		**--**
Critical Area	6.630	6.425	sq. in.	--
Joint Efficiency	--	96.9	%	[2]
PERFORMANCE	**Pipe**	**USS-TALON HTQ™ RD**		**--**
Minimum Collapse Pressure	14,540	14,540	psi	--
Minimum Internal Yield Pressure	14,520	14,520	psi	--
Minimum Pipe Body Yield Strength	729,000	--	lb	--
Joint Strength	--	707,000	lb	--
Compression Rating	--	707,000	lb	--
Reference Length	--	20,490	ft	[5]
Maximum Uniaxial Bend Rating	--	88.9	deg/100 ft	[3]
MAKE-UP DATA	**Pipe**	**USS-TALON HTQ™ RD**		**--**
Make-Up Loss	--	5.58	in.	--
Minimum Make-Up Torque	--	20,800	ft-lb	[4]
Maximum Make-Up Torque	--	23,800	ft-lb	[4]
Maximum Operating Torque	--	39,800	ft-lb	[4]

UNCONTROLLED

Notes

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
3. Uniaxial bend rating shown is structural only.
4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
6. Coupling must meet minimum mechanical properties of the pipe.

Legal Notice

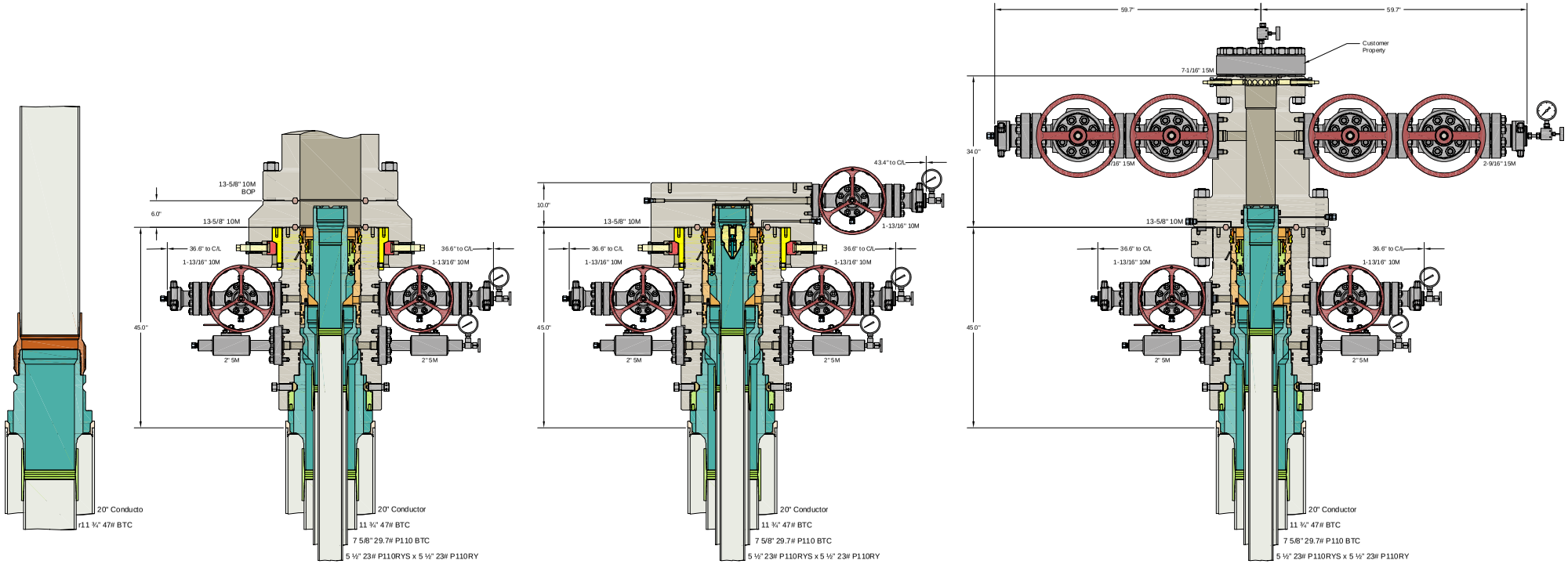
All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

U. S. Steel Tubular Products
460 Wildwood Forest Drive, Suite 300S
Spring, Texas 77380

1-877-893-9461
connections@uss.com
www.usstubular.com

Released to Imaging: 6/25/2025 2:50:32 PM

Received by OCD: 6/18/2025 9:05:02 AM



INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD, LLC.

ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC	CIVITAS RESOURCES DELAWARE BASIN		
20" x 11-3/4" x 7-5/8" x 5-1/2" MBU-3T-SF Wellhead System With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head And Quick Connect Drill Adapter & Quick Connect TA Cap	DRAWN	VJK	13FEB25
	APPRV		
	DRAWING NO.	REF: HBE0001444	

Received by OCD: 6/18/2025 9:05:02 AM

Do Not Cross SL

Project: Lea County, NM (NAD 83)
Site: Junior Mint Fed Pad
Well: Junior Mint Fed 217H
Wellbore: OH
Design: Plan 1
Rig: 26' KB

CIVITAS

Azimuths to Grid North
True North: -0.52°
Magnetic North: 5.55°

Magnetic Field
Strength: 47069.3nT
Dip Angle: 59.57°
Date: 7/15/2025
Model: HDGM2025

Total Magnetic Correction: 5.55°

PROJECT DETAILS: Lea County, NM (NAD 83)

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

Reference Datum: GE 3221 + 26 @ 3247.00usft (26' KB)

SHL

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

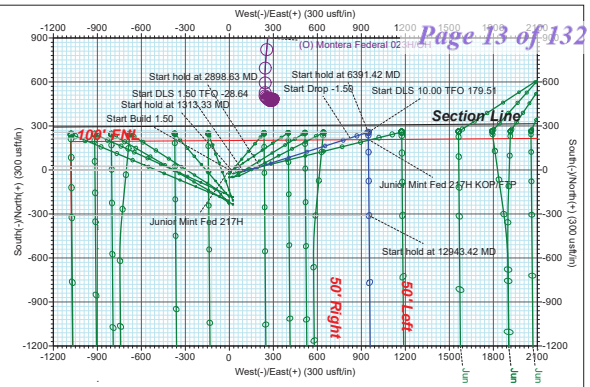
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.00	0.00	414870.00	842810.00	32.1368093	-103.3593755	

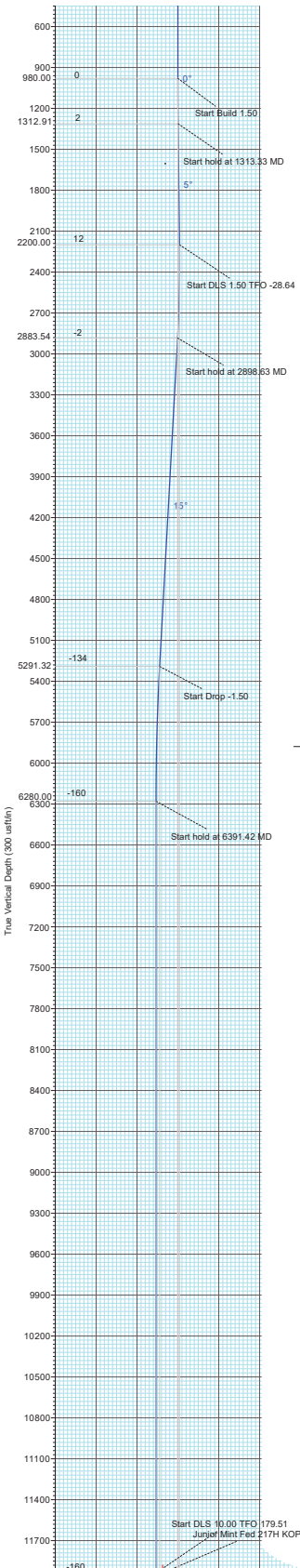
SECTION DETAILS

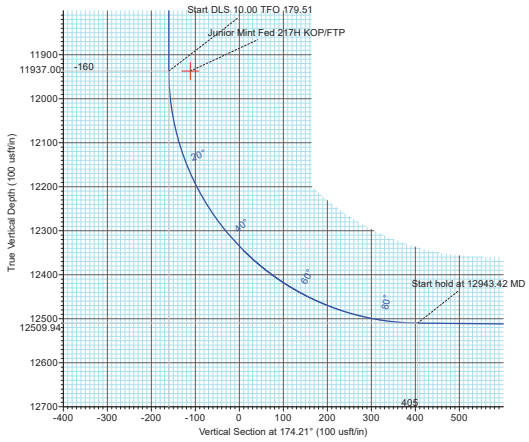
MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
980.00	0.00	0.00	980.00	0.00	0.00	0.00	0.00	0.00	
1313.33	5.00	92.00	1312.91	-0.51	14.53	1.50	92.00	1.97	
2203.81	5.00	92.00	2200.00	-3.22	92.09	0.00	0.00	12.49	
2898.63	15.00	72.43	2883.54	22.95	208.40	1.50	-28.64	-1.81	
5391.36	15.00	72.43	5291.32	217.77	823.49	0.00	0.00	-133.58	
6391.42	0.00	0.00	6280.00	257.07	947.58	1.50	180.00	-160.16	
12048.42	0.00	0.00	11937.00	257.07	947.58	0.00	0.00	-160.16	
12943.42	89.50	179.51	12509.94	-310.86	952.47	10.00	179.51	405.36	
22875.30	89.50	179.51	12596.70	-10242.00	1038.00	0.00	0.00	10294.46	

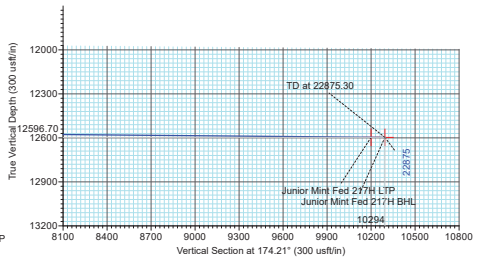
WELLBORE TARGET DETAILS

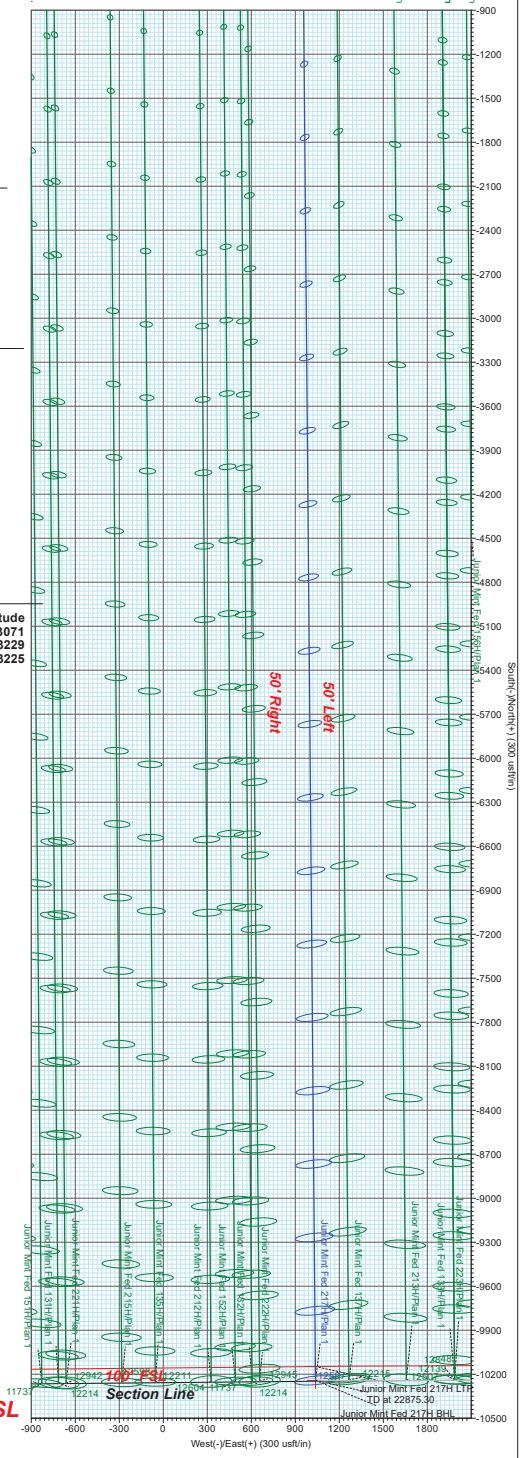
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Junior Mint Fed 217H KOP/FTP	11937.00	208.00	948.00	415078.00	843758.00	32.1373573	-103.3563071
Junior Mint Fed 217H LTP	12596.20	-10147.00	1037.00	404723.00	843847.00	32.1088939	-103.3563229
Junior Mint Fed 217H BHL	12596.70	-10242.00	1038.00	404628.00	843848.00	32.1086328	-103.3563225











Do Not Cross SL

Released to Imaging: 6/25/2025 2:50:32 PM

Civitas Resources

Lea County, NM (NAD 83)
Junior Mint Fed Pad
Junior Mint Fed 217H

OH

Plan: Plan 1

Standard Plan Report

25 March, 2025

Total Report Version 1.70

COMPASS 5000.16 Build 97

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Well:	Junior Mint Fed 217H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

Project Lea County, NM (NAD 83)

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

Site Junior Mint Fed Pad

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

Well Junior Mint Fed 217H

Well Position	**+N/-S**	0.00 usft	**Northing:**	414,870.00 usft	**Latitude:**	32.1368093
	+E/-W	0.00 usft	**Easting:**	842,810.00 usft	**Longitude:**	-103.3593755
Position Uncertainty		0.50 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,221.00 usft
Grid Convergence:		0.52 °				

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	HDGM2025	7/15/2025	6.07	59.57	47,069.30000000

Design Plan 1

Audit Notes:

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

Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**
	0.00	0.00	0.00	174.21

Survey Tool Program **Date** 3/24/2025

From (usft)	**To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
0.00	22,875.30	Plan 1 (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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Well:	Junior Mint Fed 217H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**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	
980.00	0.00	0.00	980.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,313.33	5.00	92.00	1,312.91	-0.51	14.53	1.50	1.50	0.00	92.00	
2,203.81	5.00	92.00	2,200.00	-3.22	92.09	0.00	0.00	0.00	0.00	
2,898.63	15.00	72.43	2,883.54	22.95	208.40	1.50	1.44	-2.82	-28.64	
5,391.36	15.00	72.43	5,291.32	217.77	823.49	0.00	0.00	0.00	0.00	
6,391.42	0.00	0.00	6,280.00	257.07	947.58	1.50	-1.50	0.00	180.00	
12,048.42	0.00	0.00	11,937.00	257.07	947.58	0.00	0.00	0.00	0.00	
12,943.42	89.50	179.51	12,509.94	-310.86	952.47	10.00	10.00	20.06	179.51	
22,875.30	89.50	179.51	12,596.70	-10,242.00	1,038.00	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	414,870.00	842,810.00	32.1368093	-103.3593755	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	414,870.00	842,810.00	32.1368093	-103.3593755	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	414,870.00	842,810.00	32.1368093	-103.3593755	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	414,870.00	842,810.00	32.1368093	-103.3593755	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	414,870.00	842,810.00	32.1368093	-103.3593755	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	414,870.00	842,810.00	32.1368093	-103.3593755	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	414,870.00	842,810.00	32.1368093	-103.3593755	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	414,870.00	842,810.00	32.1368093	-103.3593755	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	414,870.00	842,810.00	32.1368093	-103.3593755	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	414,870.00	842,810.00	32.1368093	-103.3593755	0.00	0.00	0.00	0.00
980.00	0.00	0.00	980.00	0.00	0.00	414,870.00	842,810.00	32.1368093	-103.3593755	0.00	0.00	0.00	0.00
1,000.00	0.30	92.00	1,000.00	0.00	0.05	414,870.00	842,810.05	32.1368093	-103.3593753	0.01	1.50	1.50	0.00
1,100.00	1.80	92.00	1,099.98	-0.07	1.88	414,869.93	842,811.88	32.1368090	-103.3593694	0.26	1.50	1.50	0.00
1,200.00	3.30	92.00	1,199.88	-0.22	6.33	414,869.78	842,816.33	32.1368085	-103.3593550	0.86	1.50	1.50	0.00
1,300.00	4.80	92.00	1,299.63	-0.47	13.39	414,869.53	842,823.39	32.1368077	-103.3593323	1.82	1.50	1.50	0.00
1,313.33	5.00	92.00	1,312.91	-0.51	14.53	414,869.49	842,824.53	32.1368075	-103.3593286	1.97	1.50	1.50	0.00
1,400.00	5.00	92.00	1,399.25	-0.77	22.08	414,869.23	842,832.08	32.1368066	-103.3593042	2.99	0.00	0.00	0.00
1,500.00	5.00	92.00	1,498.87	-1.08	30.79	414,868.92	842,840.79	32.1368056	-103.3592761	4.18	0.00	0.00	0.00
1,600.00	5.00	92.00	1,598.49	-1.38	39.50	414,868.62	842,849.50	32.1368045	-103.3592479	5.36	0.00	0.00	0.00
1,700.00	5.00	92.00	1,698.11	-1.68	48.21	414,868.32	842,858.21	32.1368035	-103.3592198	6.54	0.00	0.00	0.00
1,800.00	5.00	92.00	1,797.73	-1.99	56.92	414,868.01	842,866.92	32.1368024	-103.3591917	7.72	0.00	0.00	0.00
1,900.00	5.00	92.00	1,897.34	-2.29	65.63	414,867.71	842,875.63	32.1368013	-103.3591636	8.90	0.00	0.00	0.00
2,000.00	5.00	92.00	1,996.96	-2.60	74.34	414,867.40	842,884.34	32.1368003	-103.3591354	10.08	0.00	0.00	0.00
2,100.00	5.00	92.00	2,096.58	-2.90	83.05	414,867.10	842,893.05	32.1367992	-103.3591073	11.26	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Well:	Junior Mint Fed 217H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**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 (°)	Longituge (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,203.81	5.00	92.00	2,200.00	-3.22	92.09	414,866.78	842,902.09	32.1367981	-103.3590781	12.49	0.00	0.00	0.00
2,300.00	6.30	85.69	2,295.72	-2.97	101.55	414,867.03	842,911.55	32.1367986	-103.3590476	13.19	1.50	1.36	-6.56
2,400.00	7.71	81.43	2,394.97	-1.55	113.66	414,868.45	842,923.66	32.1368022	-103.3590084	13.01	1.50	1.41	-4.26
2,500.00	9.15	78.50	2,493.89	1.03	128.08	414,871.03	842,938.08	32.1368089	-103.3589617	11.89	1.50	1.44	-2.94
2,600.00	10.60	76.35	2,592.40	4.79	144.82	414,874.79	842,954.82	32.1368188	-103.3589075	9.84	1.50	1.45	-2.14
2,700.00	12.07	74.73	2,690.45	9.71	163.85	414,879.71	842,973.85	32.1368319	-103.3588459	6.86	1.50	1.47	-1.63
2,800.00	13.54	73.45	2,787.96	15.81	185.16	414,885.81	842,995.16	32.1368481	-103.3587769	2.95	1.50	1.47	-1.28
2,898.63	15.00	72.43	2,883.54	22.95	208.40	414,892.95	843,018.40	32.1368672	-103.3587016	-1.81	1.50	1.48	-1.03
2,900.00	15.00	72.43	2,884.87	23.06	208.73	414,893.06	843,018.73	32.1368675	-103.3587005	-1.88	0.00	0.00	0.00
3,000.00	15.00	72.43	2,981.46	30.87	233.41	414,900.87	843,043.41	32.1368883	-103.3586206	-7.17	0.00	0.00	0.00
3,100.00	15.00	72.43	3,078.05	38.69	258.08	414,908.69	843,068.08	32.1369092	-103.3585407	-12.46	0.00	0.00	0.00
3,200.00	15.00	72.43	3,174.64	46.50	282.76	414,916.50	843,092.76	32.1369301	-103.3584607	-17.74	0.00	0.00	0.00
3,300.00	15.00	72.43	3,271.24	54.32	307.43	414,924.32	843,117.43	32.1369509	-103.3583808	-23.03	0.00	0.00	0.00
3,400.00	15.00	72.43	3,367.83	62.13	332.11	414,932.13	843,142.11	32.1369718	-103.3583009	-28.31	0.00	0.00	0.00
3,500.00	15.00	72.43	3,464.42	69.95	356.79	414,939.95	843,166.79	32.1369927	-103.3582209	-33.60	0.00	0.00	0.00
3,600.00	15.00	72.43	3,561.01	77.77	381.46	414,947.77	843,191.46	32.1370135	-103.3581410	-38.89	0.00	0.00	0.00
3,700.00	15.00	72.43	3,657.60	85.58	406.14	414,955.58	843,216.14	32.1370344	-103.3580611	-44.17	0.00	0.00	0.00
3,800.00	15.00	72.43	3,754.20	93.40	430.81	414,963.40	843,240.81	32.1370553	-103.3579811	-49.46	0.00	0.00	0.00
3,900.00	15.00	72.43	3,850.79	101.21	455.49	414,971.21	843,265.49	32.1370761	-103.3579012	-54.74	0.00	0.00	0.00
4,000.00	15.00	72.43	3,947.38	109.03	480.16	414,979.03	843,290.16	32.1370970	-103.3578212	-60.03	0.00	0.00	0.00
4,100.00	15.00	72.43	4,043.97	116.84	504.84	414,986.84	843,314.84	32.1371179	-103.3577413	-65.32	0.00	0.00	0.00
4,200.00	15.00	72.43	4,140.56	124.66	529.51	414,994.66	843,339.51	32.1371387	-103.3576614	-70.60	0.00	0.00	0.00
4,300.00	15.00	72.43	4,237.16	132.47	554.19	415,002.47	843,364.19	32.1371596	-103.3575814	-75.89	0.00	0.00	0.00
4,400.00	15.00	72.43	4,333.75	140.29	578.86	415,010.29	843,388.86	32.1371805	-103.3575015	-81.17	0.00	0.00	0.00
4,500.00	15.00	72.43	4,430.34	148.10	603.54	415,018.10	843,413.54	32.1372013	-103.3574216	-86.46	0.00	0.00	0.00
4,600.00	15.00	72.43	4,526.93	155.92	628.21	415,025.92	843,438.21	32.1372222	-103.3573416	-91.75	0.00	0.00	0.00
4,700.00	15.00	72.43	4,623.53	163.73	652.89	415,033.73	843,462.89	32.1372431	-103.3572617	-97.03	0.00	0.00	0.00
4,800.00	15.00	72.43	4,720.12	171.55	677.57	415,041.55	843,487.57	32.1372639	-103.3571817	-102.32	0.00	0.00	0.00
4,900.00	15.00	72.43	4,816.71	179.36	702.24	415,049.36	843,512.24	32.1372848	-103.3571018	-107.61	0.00	0.00	0.00
5,000.00	15.00	72.43	4,913.30	187.18	726.92	415,057.18	843,536.92	32.1373057	-103.3570219	-112.89	0.00	0.00	0.00
5,100.00	15.00	72.43	5,009.89	195.00	751.59	415,065.00	843,561.59	32.1373265	-103.3569419	-118.18	0.00	0.00	0.00
5,200.00	15.00	72.43	5,106.49	202.81	776.27	415,072.81	843,586.27	32.1373474	-103.3568620	-123.46	0.00	0.00	0.00
5,300.00	15.00	72.43	5,203.08	210.63	800.94	415,080.63	843,610.94	32.1373683	-103.3567821	-128.75	0.00	0.00	0.00
5,391.36	15.00	72.43	5,291.32	217.77	823.49	415,087.77	843,633.49	32.1373873	-103.3567090	-133.58	0.00	0.00	0.00
5,400.00	14.87	72.43	5,299.67	218.44	825.61	415,088.44	843,635.61	32.1373891	-103.3567022	-134.03	1.50	-1.50	0.00
5,500.00	13.37	72.43	5,396.65	225.81	848.87	415,095.81	843,658.87	32.1374088	-103.3566268	-139.02	1.50	-1.50	0.00
5,600.00	11.87	72.43	5,494.23	232.40	869.70	415,102.40	843,679.70	32.1374264	-103.3565593	-143.48	1.50	-1.50	0.00

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Well:	Junior Mint Fed 217H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**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 (°)	Longituge (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,700.00	10.37	72.43	5,592.35	238.23	888.09	415,108.23	843,698.09	32.1374419	-103.3564998	-147.42	1.50	-1.50	0.00
5,800.00	8.87	72.43	5,690.94	243.27	904.02	415,113.27	843,714.02	32.1374554	-103.3564481	-150.83	1.50	-1.50	0.00
5,900.00	7.37	72.43	5,789.93	247.54	917.49	415,117.54	843,727.49	32.1374668	-103.3564045	-153.72	1.50	-1.50	0.00
6,000.00	5.87	72.43	5,889.26	251.02	928.48	415,121.02	843,738.48	32.1374761	-103.3563689	-156.07	1.50	-1.50	0.00
6,100.00	4.37	72.43	5,988.86	253.71	936.99	415,123.71	843,746.99	32.1374833	-103.3563413	-157.89	1.50	-1.50	0.00
6,200.00	2.87	72.43	6,088.66	255.62	943.01	415,125.62	843,753.01	32.1374884	-103.3563218	-159.18	1.50	-1.50	0.00
6,300.00	1.37	72.43	6,188.59	256.74	946.54	415,126.74	843,756.54	32.1374914	-103.3563104	-159.94	1.50	-1.50	0.00
6,391.42	0.00	0.00	6,280.00	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	1.50	-1.50	0.00
6,400.00	0.00	0.00	6,288.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
6,500.00	0.00	0.00	6,388.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
6,600.00	0.00	0.00	6,488.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
6,700.00	0.00	0.00	6,588.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
6,800.00	0.00	0.00	6,688.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
6,900.00	0.00	0.00	6,788.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
7,000.00	0.00	0.00	6,888.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
7,100.00	0.00	0.00	6,988.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
7,200.00	0.00	0.00	7,088.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
7,300.00	0.00	0.00	7,188.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
7,400.00	0.00	0.00	7,288.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
7,500.00	0.00	0.00	7,388.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
7,600.00	0.00	0.00	7,488.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
7,700.00	0.00	0.00	7,588.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
7,800.00	0.00	0.00	7,688.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
7,900.00	0.00	0.00	7,788.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
8,000.00	0.00	0.00	7,888.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
8,100.00	0.00	0.00	7,988.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
8,200.00	0.00	0.00	8,088.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
8,300.00	0.00	0.00	8,188.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
8,400.00	0.00	0.00	8,288.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
8,500.00	0.00	0.00	8,388.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
8,600.00	0.00	0.00	8,488.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
8,700.00	0.00	0.00	8,588.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
8,800.00	0.00	0.00	8,688.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
8,900.00	0.00	0.00	8,788.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
9,000.00	0.00	0.00	8,888.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
9,100.00	0.00	0.00	8,988.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
9,200.00	0.00	0.00	9,088.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
9,300.00	0.00	0.00	9,188.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Well:	Junior Mint Fed 217H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**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 (°)	Longituge (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,400.00	0.00	0.00	9,288.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
9,500.00	0.00	0.00	9,388.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
9,600.00	0.00	0.00	9,488.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
9,700.00	0.00	0.00	9,588.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
9,800.00	0.00	0.00	9,688.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
9,900.00	0.00	0.00	9,788.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
10,000.00	0.00	0.00	9,888.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
10,100.00	0.00	0.00	9,988.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
10,200.00	0.00	0.00	10,088.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
10,300.00	0.00	0.00	10,188.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
10,400.00	0.00	0.00	10,288.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
10,500.00	0.00	0.00	10,388.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
10,600.00	0.00	0.00	10,488.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
10,700.00	0.00	0.00	10,588.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
10,800.00	0.00	0.00	10,688.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
10,900.00	0.00	0.00	10,788.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
11,000.00	0.00	0.00	10,888.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
11,100.00	0.00	0.00	10,988.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
11,200.00	0.00	0.00	11,088.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
11,300.00	0.00	0.00	11,188.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
11,400.00	0.00	0.00	11,288.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
11,500.00	0.00	0.00	11,388.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
11,600.00	0.00	0.00	11,488.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
11,700.00	0.00	0.00	11,588.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
11,800.00	0.00	0.00	11,688.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
11,900.00	0.00	0.00	11,788.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
12,000.00	0.00	0.00	11,888.58	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
12,048.42	0.00	0.00	11,937.00	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
12,048.49	0.00	179.51	11,937.07	257.07	947.58	415,127.07	843,757.58	32.1374923	-103.3563070	-160.16	0.00	0.00	0.00
Junior Mint Fed 217H KOP/FTP													
12,050.00	0.16	179.51	11,938.58	257.07	947.58	415,127.07	843,757.58	32.1374922	-103.3563070	-160.16	10.45	10.45	0.00
12,100.00	5.16	179.51	11,988.51	254.75	947.60	415,124.75	843,757.60	32.1374859	-103.3563070	-157.85	10.00	10.00	0.00
12,150.00	10.16	179.51	12,038.05	248.09	947.66	415,118.09	843,757.66	32.1374676	-103.3563070	-151.22	10.00	10.00	0.00
12,200.00	15.16	179.51	12,086.82	237.14	947.75	415,107.14	843,757.75	32.1374375	-103.3563070	-140.32	10.00	10.00	0.00
12,250.00	20.16	179.51	12,134.45	221.98	947.88	415,091.98	843,757.88	32.1373958	-103.3563071	-125.22	10.00	10.00	0.00
12,300.00	25.16	179.51	12,180.57	202.72	948.05	415,072.72	843,758.05	32.1373429	-103.3563071	-106.05	10.00	10.00	0.00
12,350.00	30.16	179.51	12,224.85	179.52	948.25	415,049.52	843,758.25	32.1372791	-103.3563071	-82.94	10.00	10.00	0.00

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Well:	Junior Mint Fed 217H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**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 (°)	Longituge (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,400.00	35.16	179.51	12,266.93	152.55	948.48	415,022.55	843,758.48	32.1372049	-103.3563072	-56.08	10.00	10.00	0.00
12,450.00	40.16	179.51	12,306.50	122.01	948.74	414,992.01	843,758.74	32.1371210	-103.3563072	-25.68	10.00	10.00	0.00
12,500.00	45.16	179.51	12,343.26	88.14	949.03	414,958.14	843,759.03	32.1370279	-103.3563073	8.05	10.00	10.00	0.00
12,550.00	50.16	179.51	12,376.92	51.20	949.35	414,921.20	843,759.35	32.1369264	-103.3563073	44.84	10.00	10.00	0.00
12,600.00	55.16	179.51	12,407.24	11.46	949.70	414,881.46	843,759.70	32.1368171	-103.3563074	84.40	10.00	10.00	0.00
12,650.00	60.16	179.51	12,433.98	-30.77	950.06	414,839.23	843,760.06	32.1367011	-103.3563074	126.45	10.00	10.00	0.00
12,700.00	65.16	179.51	12,456.94	-75.16	950.44	414,794.84	843,760.44	32.1365790	-103.3563075	170.66	10.00	10.00	0.00
12,750.00	70.16	179.51	12,475.94	-121.39	950.84	414,748.61	843,760.84	32.1364519	-103.3563076	216.70	10.00	10.00	0.00
12,800.00	75.16	179.51	12,490.84	-169.11	951.25	414,700.89	843,761.25	32.1363208	-103.3563076	264.21	10.00	10.00	0.00
12,850.00	80.16	179.51	12,501.53	-217.93	951.67	414,652.07	843,761.67	32.1361866	-103.3563077	312.83	10.00	10.00	0.00
12,900.00	85.16	179.51	12,507.91	-267.50	952.10	414,602.50	843,762.10	32.1360503	-103.3563078	362.19	10.00	10.00	0.00
12,943.42	89.50	179.51	12,509.94	-310.86	952.47	414,559.14	843,762.47	32.1359311	-103.3563079	405.36	10.00	10.00	0.00
13,000.00	89.50	179.51	12,510.43	-367.44	952.96	414,502.56	843,762.96	32.1357756	-103.3563079	461.70	0.00	0.00	0.00
13,100.00	89.50	179.51	12,511.30	-467.43	953.82	414,402.57	843,763.82	32.1355008	-103.3563081	561.27	0.00	0.00	0.00
13,200.00	89.50	179.51	12,512.18	-567.43	954.68	414,302.57	843,764.68	32.1352259	-103.3563082	660.84	0.00	0.00	0.00
13,300.00	89.50	179.51	12,513.05	-667.42	955.54	414,202.58	843,765.54	32.1349511	-103.3563084	760.41	0.00	0.00	0.00
13,400.00	89.50	179.51	12,513.92	-767.41	956.40	414,102.59	843,766.40	32.1346762	-103.3563085	859.98	0.00	0.00	0.00
13,500.00	89.50	179.51	12,514.80	-867.40	957.26	414,002.60	843,767.26	32.1344013	-103.3563087	959.55	0.00	0.00	0.00
13,600.00	89.50	179.51	12,515.67	-967.40	958.13	413,902.60	843,768.13	32.1341265	-103.3563088	1,059.12	0.00	0.00	0.00
13,700.00	89.50	179.51	12,516.55	-1,067.39	958.99	413,802.61	843,768.99	32.1338516	-103.3563090	1,158.69	0.00	0.00	0.00
13,800.00	89.50	179.51	12,517.42	-1,167.38	959.85	413,702.62	843,769.85	32.1335768	-103.3563091	1,258.26	0.00	0.00	0.00
13,900.00	89.50	179.51	12,518.29	-1,267.37	960.71	413,602.63	843,770.71	32.1333019	-103.3563093	1,357.83	0.00	0.00	0.00
14,000.00	89.50	179.51	12,519.17	-1,367.37	961.57	413,502.63	843,771.57	32.1330271	-103.3563094	1,457.40	0.00	0.00	0.00
14,100.00	89.50	179.51	12,520.04	-1,467.36	962.43	413,402.64	843,772.43	32.1327522	-103.3563096	1,556.97	0.00	0.00	0.00
14,200.00	89.50	179.51	12,520.91	-1,567.35	963.29	413,302.65	843,773.29	32.1324774	-103.3563097	1,656.53	0.00	0.00	0.00
14,300.00	89.50	179.51	12,521.79	-1,667.34	964.15	413,202.66	843,774.15	32.1322025	-103.3563099	1,756.10	0.00	0.00	0.00
14,400.00	89.50	179.51	12,522.66	-1,767.34	965.01	413,102.66	843,775.01	32.1319276	-103.3563100	1,855.67	0.00	0.00	0.00
14,500.00	89.50	179.51	12,523.53	-1,867.33	965.88	413,002.67	843,775.88	32.1316528	-103.3563102	1,955.24	0.00	0.00	0.00
14,600.00	89.50	179.51	12,524.41	-1,967.32	966.74	412,902.68	843,776.74	32.1313779	-103.3563103	2,054.81	0.00	0.00	0.00
14,700.00	89.50	179.51	12,525.28	-2,067.31	967.60	412,802.69	843,777.60	32.1311031	-103.3563105	2,154.38	0.00	0.00	0.00
14,800.00	89.50	179.51	12,526.16	-2,167.31	968.46	412,702.69	843,778.46	32.1308282	-103.3563106	2,253.95	0.00	0.00	0.00
14,900.00	89.50	179.51	12,527.03	-2,267.30	969.32	412,602.70	843,779.32	32.1305534	-103.3563108	2,353.52	0.00	0.00	0.00
15,000.00	89.50	179.51	12,527.90	-2,367.29	970.18	412,502.71	843,780.18	32.1302785	-103.3563109	2,453.09	0.00	0.00	0.00
15,100.00	89.50	179.51	12,528.78	-2,467.28	971.04	412,402.72	843,781.04	32.1300037	-103.3563111	2,552.66	0.00	0.00	0.00
15,200.00	89.50	179.51	12,529.65	-2,567.28	971.90	412,302.72	843,781.90	32.1297288	-103.3563112	2,652.23	0.00	0.00	0.00
15,300.00	89.50	179.51	12,530.52	-2,667.27	972.76	412,202.73	843,782.76	32.1294539	-103.3563113	2,751.80	0.00	0.00	0.00
15,400.00	89.50	179.51	12,531.40	-2,767.26	973.63	412,102.74	843,783.63	32.1291791	-103.3563115	2,851.37	0.00	0.00	0.00
15,500.00	89.50	179.51	12,532.27	-2,867.25	974.49	412,002.75	843,784.49	32.1289042	-103.3563116	2,950.93	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Well:	Junior Mint Fed 217H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**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 (°)	Longituge (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,600.00	89.50	179.51	12,533.14	-2,967.25	975.35	411,902.75	843,785.35	32.1286294	-103.3563118	3,050.50	0.00	0.00	0.00
15,700.00	89.50	179.51	12,534.02	-3,067.24	976.21	411,802.76	843,786.21	32.1283545	-103.3563119	3,150.07	0.00	0.00	0.00
15,800.00	89.50	179.51	12,534.89	-3,167.23	977.07	411,702.77	843,787.07	32.1280797	-103.3563121	3,249.64	0.00	0.00	0.00
15,900.00	89.50	179.51	12,535.76	-3,267.22	977.93	411,602.78	843,787.93	32.1278048	-103.3563122	3,349.21	0.00	0.00	0.00
16,000.00	89.50	179.51	12,536.64	-3,367.22	978.79	411,502.78	843,788.79	32.1275300	-103.3563124	3,448.78	0.00	0.00	0.00
16,100.00	89.50	179.51	12,537.51	-3,467.21	979.65	411,402.79	843,789.65	32.1272551	-103.3563125	3,548.35	0.00	0.00	0.00
16,200.00	89.50	179.51	12,538.39	-3,567.20	980.52	411,302.80	843,790.52	32.1269802	-103.3563127	3,647.92	0.00	0.00	0.00
16,300.00	89.50	179.51	12,539.26	-3,667.19	981.38	411,202.81	843,791.38	32.1267054	-103.3563128	3,747.49	0.00	0.00	0.00
16,400.00	89.50	179.51	12,540.13	-3,767.19	982.24	411,102.81	843,792.24	32.1264305	-103.3563130	3,847.06	0.00	0.00	0.00
16,500.00	89.50	179.51	12,541.01	-3,867.18	983.10	411,002.82	843,793.10	32.1261557	-103.3563131	3,946.63	0.00	0.00	0.00
16,600.00	89.50	179.51	12,541.88	-3,967.17	983.96	410,902.83	843,793.96	32.1258808	-103.3563133	4,046.20	0.00	0.00	0.00
16,700.00	89.50	179.51	12,542.75	-4,067.16	984.82	410,802.84	843,794.82	32.1256060	-103.3563134	4,145.77	0.00	0.00	0.00
16,800.00	89.50	179.51	12,543.63	-4,167.16	985.68	410,702.84	843,795.68	32.1253311	-103.3563136	4,245.33	0.00	0.00	0.00
16,900.00	89.50	179.51	12,544.50	-4,267.15	986.54	410,602.85	843,796.54	32.1250563	-103.3563137	4,344.90	0.00	0.00	0.00
17,000.00	89.50	179.51	12,545.37	-4,367.14	987.40	410,502.86	843,797.40	32.1247814	-103.3563139	4,444.47	0.00	0.00	0.00
17,100.00	89.50	179.51	12,546.25	-4,467.13	988.27	410,402.87	843,798.27	32.1245065	-103.3563140	4,544.04	0.00	0.00	0.00
17,200.00	89.50	179.51	12,547.12	-4,567.13	989.13	410,302.87	843,799.13	32.1242317	-103.3563142	4,643.61	0.00	0.00	0.00
17,300.00	89.50	179.51	12,547.99	-4,667.12	989.99	410,202.88	843,799.99	32.1239568	-103.3563143	4,743.18	0.00	0.00	0.00
17,400.00	89.50	179.51	12,548.87	-4,767.11	990.85	410,102.89	843,800.85	32.1236820	-103.3563144	4,842.75	0.00	0.00	0.00
17,500.00	89.50	179.51	12,549.74	-4,867.10	991.71	410,002.90	843,801.71	32.1234071	-103.3563146	4,942.32	0.00	0.00	0.00
17,600.00	89.50	179.51	12,550.62	-4,967.10	992.57	409,902.90	843,802.57	32.1231323	-103.3563147	5,041.89	0.00	0.00	0.00
17,700.00	89.50	179.51	12,551.49	-5,067.09	993.43	409,802.91	843,803.43	32.1228574	-103.3563149	5,141.46	0.00	0.00	0.00
17,800.00	89.50	179.51	12,552.36	-5,167.08	994.29	409,702.92	843,804.29	32.1225826	-103.3563150	5,241.03	0.00	0.00	0.00
17,900.00	89.50	179.51	12,553.24	-5,267.07	995.15	409,602.93	843,805.15	32.1223077	-103.3563152	5,340.60	0.00	0.00	0.00
18,000.00	89.50	179.51	12,554.11	-5,367.07	996.02	409,502.93	843,806.02	32.1220328	-103.3563153	5,440.17	0.00	0.00	0.00
18,100.00	89.50	179.51	12,554.98	-5,467.06	996.88	409,402.94	843,806.88	32.1217580	-103.3563155	5,539.73	0.00	0.00	0.00
18,200.00	89.50	179.51	12,555.86	-5,567.05	997.74	409,302.95	843,807.74	32.1214831	-103.3563156	5,639.30	0.00	0.00	0.00
18,300.00	89.50	179.51	12,556.73	-5,667.04	998.60	409,202.96	843,808.60	32.1212083	-103.3563158	5,738.87	0.00	0.00	0.00
18,400.00	89.50	179.51	12,557.60	-5,767.04	999.46	409,102.96	843,809.46	32.1209334	-103.3563159	5,838.44	0.00	0.00	0.00
18,500.00	89.50	179.51	12,558.48	-5,867.03	1,000.32	409,002.97	843,810.32	32.1206586	-103.3563161	5,938.01	0.00	0.00	0.00
18,600.00	89.50	179.51	12,559.35	-5,967.02	1,001.18	408,902.98	843,811.18	32.1203837	-103.3563162	6,037.58	0.00	0.00	0.00
18,700.00	89.50	179.51	12,560.23	-6,067.01	1,002.04	408,802.99	843,812.04	32.1201089	-103.3563164	6,137.15	0.00	0.00	0.00
18,800.00	89.50	179.51	12,561.10	-6,167.01	1,002.91	408,703.00	843,812.91	32.1198340	-103.3563165	6,236.72	0.00	0.00	0.00
18,900.00	89.50	179.51	12,561.97	-6,267.00	1,003.77	408,603.00	843,813.77	32.1195591	-103.3563167	6,336.29	0.00	0.00	0.00
19,000.00	89.50	179.51	12,562.85	-6,366.99	1,004.63	408,503.01	843,814.63	32.1192843	-103.3563168	6,435.86	0.00	0.00	0.00
19,100.00	89.50	179.51	12,563.72	-6,466.98	1,005.49	408,403.02	843,815.49	32.1190094	-103.3563169	6,535.43	0.00	0.00	0.00
19,200.00	89.50	179.51	12,564.59	-6,566.98	1,006.35	408,303.03	843,816.35	32.1187346	-103.3563171	6,635.00	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Well:	Junior Mint Fed 217H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**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 (°)	Longituge (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,300.00	89.50	179.51	12,565.47	-6,666.97	1,007.21	408,203.03	843,817.21	32.1184597	-103.3563172	6,734.56	0.00	0.00	0.00
19,400.00	89.50	179.51	12,566.34	-6,766.96	1,008.07	408,103.04	843,818.07	32.1181849	-103.3563174	6,834.13	0.00	0.00	0.00
19,500.00	89.50	179.51	12,567.21	-6,866.95	1,008.93	408,003.05	843,818.93	32.1179100	-103.3563175	6,933.70	0.00	0.00	0.00
19,600.00	89.50	179.51	12,568.09	-6,966.94	1,009.79	407,903.06	843,819.79	32.1176352	-103.3563177	7,033.27	0.00	0.00	0.00
19,700.00	89.50	179.51	12,568.96	-7,066.94	1,010.66	407,803.06	843,820.66	32.1173603	-103.3563178	7,132.84	0.00	0.00	0.00
19,800.00	89.50	179.51	12,569.83	-7,166.93	1,011.52	407,703.07	843,821.52	32.1170854	-103.3563180	7,232.41	0.00	0.00	0.00
19,900.00	89.50	179.51	12,570.71	-7,266.92	1,012.38	407,603.08	843,822.38	32.1168106	-103.3563181	7,331.98	0.00	0.00	0.00
20,000.00	89.50	179.51	12,571.58	-7,366.91	1,013.24	407,503.09	843,823.24	32.1165357	-103.3563183	7,431.55	0.00	0.00	0.00
20,100.00	89.50	179.51	12,572.46	-7,466.91	1,014.10	407,403.09	843,824.10	32.1162609	-103.3563184	7,531.12	0.00	0.00	0.00
20,200.00	89.50	179.51	12,573.33	-7,566.90	1,014.96	407,303.10	843,824.96	32.1159860	-103.3563186	7,630.69	0.00	0.00	0.00
20,300.00	89.50	179.51	12,574.20	-7,666.89	1,015.82	407,203.11	843,825.82	32.1157112	-103.3563187	7,730.26	0.00	0.00	0.00
20,400.00	89.50	179.51	12,575.08	-7,766.88	1,016.68	407,103.12	843,826.68	32.1154363	-103.3563189	7,829.83	0.00	0.00	0.00
20,500.00	89.50	179.51	12,575.95	-7,866.88	1,017.55	407,003.12	843,827.54	32.1151614	-103.3563190	7,929.40	0.00	0.00	0.00
20,600.00	89.50	179.51	12,576.82	-7,966.87	1,018.41	406,903.13	843,828.41	32.1148866	-103.3563192	8,028.96	0.00	0.00	0.00
20,700.00	89.50	179.51	12,577.70	-8,066.86	1,019.27	406,803.14	843,829.27	32.1146117	-103.3563193	8,128.53	0.00	0.00	0.00
20,800.00	89.50	179.51	12,578.57	-8,166.85	1,020.13	406,703.15	843,830.13	32.1143369	-103.3563194	8,228.10	0.00	0.00	0.00
20,900.00	89.50	179.51	12,579.44	-8,266.85	1,020.99	406,603.15	843,830.99	32.1140620	-103.3563196	8,327.67	0.00	0.00	0.00
21,000.00	89.50	179.51	12,580.32	-8,366.84	1,021.85	406,503.16	843,831.85	32.1137872	-103.3563197	8,427.24	0.00	0.00	0.00
21,100.00	89.50	179.51	12,581.19	-8,466.83	1,022.71	406,403.17	843,832.71	32.1135123	-103.3563199	8,526.81	0.00	0.00	0.00
21,200.00	89.50	179.51	12,582.06	-8,566.82	1,023.57	406,303.18	843,833.57	32.1132375	-103.3563200	8,626.38	0.00	0.00	0.00
21,300.00	89.50	179.51	12,582.94	-8,666.82	1,024.43	406,203.18	843,834.43	32.1129626	-103.3563202	8,725.95	0.00	0.00	0.00
21,400.00	89.50	179.51	12,583.81	-8,766.81	1,025.30	406,103.19	843,835.30	32.1126877	-103.3563203	8,825.52	0.00	0.00	0.00
21,500.00	89.50	179.51	12,584.69	-8,866.80	1,026.16	406,003.20	843,836.16	32.1124129	-103.3563205	8,925.09	0.00	0.00	0.00
21,600.00	89.50	179.51	12,585.56	-8,966.79	1,027.02	405,903.21	843,837.02	32.1121380	-103.3563206	9,024.66	0.00	0.00	0.00
21,700.00	89.50	179.51	12,586.43	-9,066.79	1,027.88	405,803.21	843,837.88	32.1118632	-103.3563208	9,124.23	0.00	0.00	0.00
21,800.00	89.50	179.51	12,587.31	-9,166.78	1,028.74	405,703.22	843,838.74	32.1115883	-103.3563209	9,223.80	0.00	0.00	0.00
21,900.00	89.50	179.51	12,588.18	-9,266.77	1,029.60	405,603.23	843,839.60	32.1113135	-103.3563211	9,323.36	0.00	0.00	0.00
22,000.00	89.50	179.51	12,589.05	-9,366.76	1,030.46	405,503.24	843,840.46	32.1110386	-103.3563212	9,422.93	0.00	0.00	0.00
22,100.00	89.50	179.51	12,589.93	-9,466.76	1,031.32	405,403.24	843,841.32	32.1107637	-103.3563213	9,522.50	0.00	0.00	0.00
22,200.00	89.50	179.51	12,590.80	-9,566.75	1,032.18	405,303.25	843,842.18	32.1104889	-103.3563215	9,622.07	0.00	0.00	0.00
22,300.00	89.50	179.51	12,591.67	-9,666.74	1,033.05	405,203.26	843,843.05	32.1102140	-103.3563216	9,721.64	0.00	0.00	0.00
22,400.00	89.50	179.51	12,592.55	-9,766.73	1,033.91	405,103.27	843,843.91	32.1099392	-103.3563218	9,821.21	0.00	0.00	0.00
22,500.00	89.50	179.51	12,593.42	-9,866.73	1,034.77	405,003.27	843,844.77	32.1096643	-103.3563219	9,920.78	0.00	0.00	0.00
22,600.00	89.50	179.51	12,594.30	-9,966.72	1,035.63	404,903.28	843,845.63	32.1093895	-103.3563221	10,020.35	0.00	0.00	0.00
22,700.00	89.50	179.51	12,595.17	-10,066.71	1,036.49	404,803.29	843,846.49	32.1091146	-103.3563222	10,119.92	0.00	0.00	0.00
22,780.30	89.50	179.51	12,595.87	-10,147.00	1,037.18	404,723.00	843,847.18	32.1088939	-103.3563223	10,199.87	0.00	0.00	0.00
Junior Mint Fed 217H LTP													
22,800.00	89.50	179.51	12,596.04	-10,166.70	1,037.35	404,703.30	843,847.35	32.1088398	-103.3563224	10,219.49	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Well:	Junior Mint Fed 217H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longituge (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
22,875.30	89.50	179.51	12,596.70	-10,242.00	1,038.00	404,628.00	843,848.00	32.1086328	-103.3563225	10,294.47	0.00	0.00	0.00
Junior Mint Fed 217H BHL													

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Junior Mint Fed 217H	0.00	0.00	11,937.00	208.00	948.00	415,078.00	843,758.00	32.1373574	-103.3563071
- plan misses target center by 49.07usft at 12048.42usft MD (11937.00 TVD, 257.07 N, 947.58 E)									
- Point									
Junior Mint Fed 217H	0.00	0.00	12,596.20	-10,147.00	1,037.00	404,723.00	843,847.00	32.1088939	-103.3563229
- plan misses target center by 0.38usft at 22780.30usft MD (12595.87 TVD, -10147.00 N, 1037.18 E)									
- Point									
Junior Mint Fed 217H	0.00	0.00	12,596.70	-10,242.00	1,038.00	404,628.00	843,848.00	32.1086328	-103.3563225
- plan hits target center									
- Point									

Checked By: _____ Approved By: _____ Date: _____

Civitas Resources

Lea County, NM (NAD 83)
Junior Mint Fed Pad
Junior Mint Fed 217H

OH
Plan 1

Total Directional
"Driven by TOTAL performance"
total

Anticollision Report

Minimum Magnetic Interference Warning level is 50' center to center

25 March, 2025

Total Report Version 1.60

COMPASS 5000.16 Build 97

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Reference	Plan 1		
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 2,518.44usft	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Well	Junior Mint Fed 217H					
Well Position	**+N/-S**	0.00 usft	**Northing:**	414,870.00 usft	**Latitude:**	32.1368093
	+E/-W	0.00 usft	**Easting:**	842,810.00 usft	**Longitude:**	-103.3593755
Position Uncertainty		0.50 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,221.00 usft
Grid Convergence:		0.52 °				

Survey Tool Program **Date** 3/24/2025

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	22,875.30	Plan 1 (OH)	MWD+HRGM+SAG+FDIF	OWSG MWD + HRGM + SAG + FDIR Correction

Offset Listing

Site Name / Offset Well	Ground Level	KB Height	Map Coordinates Northing	Map Coordinates Easting	Geographical Coordinates Latitude	Geographical Coordinates Longitude	Surface Uncertainty Site	Surface Uncertainty Well
Civitas Resources - Junior Mint Fed Pad								
(O) Montera Federal 023H -	3,221.00	3,250.00	415,363.56	843,044.05	32.1381600	-103.3586050	0.00	0.00
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 -	3,223.00	3,249.00	415,726.00	845,129.00	32.1391042	-103.3518593	0.00	0.50
Junior Mint Fed 134H -	3,221.00	3,247.00	415,566.00	845,129.00	32.1386644	-103.3518640	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	845,129.00	32.1385957	-103.3518648	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 -	3,223.00	3,249.00	415,701.00	845,129.00	32.1390354	-103.3518600	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 -	3,222.00	3,248.00	415,701.00	845,154.00	32.1390348	-103.3517793	0.00	0.50
Junior Mint Fed 214H -	3,220.00	3,246.00	415,541.00	845,154.00	32.1385951	-103.3517840	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 -	3,223.00	3,249.00	415,751.00	845,129.00	32.1391729	-103.3518586	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
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 -	3,223.00	3,249.00	415,751.00	845,154.00	32.1391723	-103.3517778	0.00	0.50
Junior Mint Fed 224H -	3,220.00	3,246.00	415,566.00	845,154.00	32.1386638	-103.3517833	0.00	0.50

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Junior Mint Fed Pad						
(O) Montera Federal 023H - OH - OH	3,655.55	3,618.45	454.92	433.21	20.96	CC
(O) Montera Federal 023H - OH - OH	3,700.00	3,661.26	455.08	433.10	20.70	ES
(O) Montera Federal 023H - OH - OH	11,200.00	11,066.44	704.56	648.00	12.46	SF
Junior Mint Fed 131H - OH - Plan 1	1,934.10	1,937.15	229.56	218.71	21.16	CC, ES
Junior Mint Fed 131H - OH - Plan 1	22,875.30	22,485.80	1,793.50	1,518.44	6.52	SF
Junior Mint Fed 132H - OH - Plan 1	2,138.22	2,135.71	26.20	14.24	2.19	CC
Junior Mint Fed 132H - OH - Plan 1	2,200.00	2,197.41	26.38	14.19	2.16	ES
Junior Mint Fed 132H - OH - Plan 1	2,400.00	2,396.25	27.68	14.82	2.15	SF
Junior Mint Fed 133H - OH - Plan 1	11,809.52	11,757.65	968.31	933.75	28.02	CC
Junior Mint Fed 133H - OH - Plan 1	22,875.30	22,380.67	1,053.49	783.52	3.90	ES, SF
Junior Mint Fed 134H - OH - Plan 1	11,511.16	11,433.92	1,655.01	1,622.22	50.46	CC
Junior Mint Fed 134H - OH - Plan 1	22,875.30	22,335.05	1,728.10	1,445.08	6.11	ES, SF
Junior Mint Fed 135H - OH - Plan 1	2,067.73	2,077.71	137.83	126.37	12.03	CC, ES
Junior Mint Fed 135H - OH - Plan 1	22,875.30	22,411.61	1,158.00	891.52	4.35	SF
Junior Mint Fed 137H - OH - Plan 1	300.00	299.00	35.36	31.40	8.93	CC
Junior Mint Fed 137H - OH - Plan 1	400.00	398.51	36.03	31.36	7.71	ES
Junior Mint Fed 137H - OH - Plan 1	22,875.30	22,512.90	445.04	265.85	2.48	SF
Junior Mint Fed 138H - OH - Plan 1	5,765.48	5,378.24	2,140.63	2,113.57	79.11	CC
Junior Mint Fed 138H - OH - Plan 1	22,875.30	22,363.34	2,372.93	2,085.41	8.25	ES, SF
Junior Mint Fed 151H - OH - Plan 1	1,316.21	1,321.44	165.88	157.12	18.94	CC, ES
Junior Mint Fed 151H - OH - Plan 1	22,875.30	22,008.51	2,054.60	1,794.83	7.91	SF
Junior Mint Fed 152H - OH - Plan 1	300.00	299.00	25.00	21.04	6.32	CC, ES
Junior Mint Fed 152H - OH - Plan 1	500.00	497.75	29.42	24.04	5.47	SF
Junior Mint Fed 156H - OH - Plan 1	11,102.18	11,049.13	1,109.00	1,076.23	33.85	CC
Junior Mint Fed 156H - OH - Plan 1	11,200.00	11,146.51	1,109.01	1,076.13	33.73	ES
Junior Mint Fed 156H - OH - Plan 1	22,875.30	21,915.93	1,459.29	1,222.63	6.17	SF
Junior Mint Fed 211H - OH - Plan 1	1,123.58	1,127.70	195.73	187.69	24.34	CC, ES
Junior Mint Fed 211H - OH - Plan 1	22,875.30	22,894.71	2,027.10	1,746.06	7.21	SF
Junior Mint Fed 212H - OH - Plan 1	1,061.64	1,060.64	24.98	17.15	3.19	CC
Junior Mint Fed 212H - OH - Plan 1	1,100.00	1,098.98	25.01	17.02	3.13	ES
Junior Mint Fed 212H - OH - Plan 1	22,875.30	22,794.84	711.07	428.35	2.52	SF
Junior Mint Fed 213H - OH - Plan 1	11,914.36	11,917.41	615.00	579.43	17.29	CC
Junior Mint Fed 213H - OH - Plan 1	22,875.30	22,822.36	625.45	334.38	2.15	ES, SF
Junior Mint Fed 214H - OH - Plan 1	11,901.48	11,834.43	1,934.02	1,899.08	55.35	CC
Junior Mint Fed 214H - OH - Plan 1	22,875.30	22,702.95	1,943.81	1,652.52	6.67	ES, SF
Junior Mint Fed 215H - OH - Plan 1	1,365.32	1,373.26	141.86	132.82	15.69	CC, ES
Junior Mint Fed 215H - OH - Plan 1	22,875.30	22,805.11	1,320.06	1,039.14	4.70	SF
Junior Mint Fed 216H - OH - Plan 1	11,903.47	11,825.13	1,325.00	1,291.42	39.45	CC
Junior Mint Fed 216H - OH - Plan 1	22,875.30	22,713.70	1,335.03	1,041.20	4.54	ES, SF
Junior Mint Fed 221H - OH - Plan 1	1,649.36	1,657.61	201.13	191.16	20.17	CC
Junior Mint Fed 221H - OH - Plan 1	1,700.00	1,707.61	201.29	191.14	19.83	ES
Junior Mint Fed 221H - OH - Plan 1	22,875.30	23,188.08	1,735.81	1,460.04	6.29	SF
Junior Mint Fed 222H - OH - Plan 1	1,095.46	1,094.44	49.97	42.00	6.27	CC
Junior Mint Fed 222H - OH - Plan 1	1,200.00	1,198.88	50.18	41.81	6.00	ES
Junior Mint Fed 222H - OH - Plan 1	22,875.30	23,180.03	516.35	291.26	2.29	SF
Junior Mint Fed 223H - OH - Plan 1	12,053.96	12,018.29	843.99	808.62	23.86	CC
Junior Mint Fed 223H - OH - Plan 1	22,875.30	23,128.47	981.76	696.16	3.44	ES, SF
Junior Mint Fed 224H - OH - Plan 1	5,881.13	5,553.34	2,066.06	2,038.59	75.19	CC
Junior Mint Fed 224H - OH - Plan 1	22,875.30	23,060.36	2,277.75	1,987.14	7.84	ES, SF

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

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - (O) Montera Federal 023H - OH - OH

Offset Site Error: 0.00 usft

Survey Program: 100-3_Gyro-NS-CT_OWSG, 11638-3_MWD

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	3.07	0.07	0.50	0.00	25.37	493.56	234.06	546.24				
100.00	100.00	105.42	102.42	0.98	0.14	25.37	493.34	233.96	546.01	544.88	1.12	485.497	
200.00	200.00	205.28	202.28	1.56	0.49	25.38	492.98	233.86	545.65	543.59	2.05	265.568	
300.00	300.00	306.35	303.35	1.98	0.85	25.38	492.52	233.65	545.14	542.31	2.83	192.692	
400.00	400.00	406.83	403.82	2.33	1.20	25.38	491.91	233.32	544.45	540.92	3.53	154.255	
500.00	500.00	507.56	504.55	2.63	1.55	25.32	491.46	232.55	543.73	539.54	4.19	129.846	
600.00	600.00	608.10	605.08	2.91	1.91	25.22	491.05	231.29	542.82	538.00	4.82	112.732	
700.00	700.00	707.32	704.29	3.16	2.25	25.12	490.63	230.08	541.91	536.49	5.42	100.050	
800.00	800.00	803.64	800.60	3.40	2.59	25.03	490.65	229.07	541.49	535.50	5.99	90.400	
810.16	810.16	813.19	810.16	3.42	2.62	25.01	490.69	228.97	541.48	535.43	6.05	89.563	
900.00	900.00	900.58	897.54	3.62	2.93	24.91	491.36	228.19	541.77	535.22	6.55	82.708	
1,000.00	1,000.00	1,000.34	997.29	3.76	3.28	-67.20	492.18	227.51	542.21	535.17	7.03	77.088	
1,100.00	1,099.98	1,101.54	1,098.49	4.00	3.63	-67.49	492.94	226.75	541.87	534.28	7.58	71.447	
1,200.00	1,199.88	1,201.76	1,198.71	4.24	3.98	-68.06	493.64	225.86	540.46	532.33	8.12	66.518	
1,300.00	1,299.63	1,302.04	1,298.98	4.46	4.33	-68.91	494.20	224.89	537.99	529.33	8.66	62.114	
1,400.00	1,399.25	1,400.69	1,397.62	4.60	4.68	-69.88	494.84	224.13	535.22	526.08	9.14	58.577	
1,500.00	1,498.87	1,500.00	1,496.93	4.78	5.02	-70.84	495.43	223.46	532.59	522.93	9.66	55.134	
1,600.00	1,598.49	1,599.11	1,596.03	4.96	5.37	-71.80	496.04	222.96	530.18	520.00	10.18	52.082	
1,700.00	1,698.11	1,697.70	1,694.62	5.14	5.72	-72.74	496.79	222.68	528.14	517.44	10.70	49.379	
1,800.00	1,797.73	1,796.84	1,793.76	5.32	6.06	-73.67	497.58	222.68	526.37	515.16	11.21	46.949	
1,900.00	1,897.34	1,896.13	1,893.04	5.49	6.41	-74.58	498.34	222.82	524.75	513.02	11.73	44.749	
2,000.00	1,996.96	1,995.83	1,992.74	5.67	6.75	-75.49	499.08	223.20	523.32	511.08	12.24	42.750	
2,100.00	2,096.58	2,094.92	2,091.83	5.85	7.10	-76.38	499.78	223.68	522.00	509.25	12.75	40.932	
2,200.00	2,196.20	2,195.31	2,192.21	6.04	7.45	-77.28	500.47	224.20	520.81	507.53	13.28	39.232	
2,300.00	2,295.72	2,293.67	2,290.57	6.23	7.79	-71.96	501.09	225.13	519.01	505.23	13.78	37.661	
2,400.00	2,394.97	2,392.07	2,388.96	6.43	8.14	-68.90	501.82	226.39	515.88	501.58	14.30	36.070	
2,500.00	2,493.89	2,490.04	2,486.91	6.64	8.48	-67.38	502.72	227.99	511.58	496.75	14.83	34.495	
2,600.00	2,592.40	2,586.16	2,583.00	6.85	8.82	-66.84	503.94	230.06	506.47	491.11	15.36	32.971	
2,700.00	2,690.45	2,682.40	2,679.20	7.07	9.16	-67.06	505.58	232.45	500.71	484.81	15.90	31.484	
2,800.00	2,787.96	2,800.00	2,796.74	7.28	9.57	-68.39	507.21	235.42	494.04	477.51	16.53	29.883	
2,900.00	2,884.87	2,873.94	2,870.63	7.49	9.83	-69.28	508.41	237.54	486.41	469.39	17.02	28.572	
3,000.00	2,981.46	2,970.99	2,967.59	7.68	10.18	-71.73	511.19	240.75	480.57	462.96	17.61	27.287	
3,100.00	3,078.05	3,078.51	3,075.01	7.87	10.56	-74.47	513.09	244.71	474.60	456.35	18.25	26.004	
3,200.00	3,174.64	3,175.00	3,171.43	8.06	10.90	-76.98	513.93	248.30	468.70	449.85	18.86	24.855	
3,300.00	3,271.24	3,271.78	3,268.14	8.26	11.24	-79.56	514.98	251.90	464.01	444.54	19.47	23.827	
3,400.00	3,367.83	3,373.40	3,369.71	8.51	11.60	-82.43	515.59	254.74	460.01	439.90	20.11	22.873	
3,500.00	3,464.42	3,469.22	3,465.52	8.80	11.94	-85.33	515.65	256.30	456.89	436.15	20.73	22.037	
3,600.00	3,561.01	3,565.47	3,561.76	9.09	12.27	-88.35	515.65	257.21	455.17	433.82	21.36	21.312	
3,655.55	3,614.66	3,618.45	3,614.74	9.25	12.46	-90.04	515.70	257.52	454.92	433.21	21.70	20.960	CC
3,700.00	3,657.60	3,661.26	3,657.55	9.38	12.61	-91.41	515.78	257.75	455.08	433.10	21.98	20.703	ES
3,800.00	3,754.20	3,758.99	3,755.28	9.68	12.95	-94.54	515.84	258.10	456.39	433.78	22.61	20.184	
3,900.00	3,850.79	3,855.37	3,851.66	9.98	13.28	-97.57	515.94	258.78	459.01	435.77	23.23	19.756	
4,000.00	3,947.38	3,962.11	3,958.34	10.28	13.66	-100.60	516.07	262.06	461.93	438.03	23.89	19.332	
4,100.00	4,043.97	4,066.00	4,062.04	10.59	14.03	-103.22	515.71	268.32	464.07	439.53	24.54	18.907	
4,200.00	4,140.56	4,176.10	4,171.85	10.90	14.43	-105.90	514.44	276.28	465.87	440.67	25.20	18.488	
4,300.00	4,237.16	4,276.93	4,272.32	11.21	14.79	-108.52	510.36	283.60	466.10	440.28	25.82	18.052	
4,400.00	4,333.75	4,362.82	4,358.00	11.52	15.09	-111.18	505.22	286.56	468.19	441.79	26.40	17.735	
4,500.00	4,430.34	4,437.31	4,432.35	11.84	15.35	-113.78	501.21	285.20	475.42	448.51	26.91	17.667	
4,600.00	4,526.93	4,511.70	4,506.64	12.16	15.62	-116.28	499.92	281.62	488.75	461.39	27.36	17.862	
4,700.00	4,623.53	4,599.15	4,593.96	12.48	15.93	-118.72	502.55	277.67	506.41	478.55	27.87	18.173	
4,800.00	4,720.12	4,749.53	4,744.04	12.80	16.47	-121.69	508.75	281.90	520.41	491.67	28.74	18.109	
4,900.00	4,816.71	4,868.72	4,862.59	13.12	16.92	-123.62	509.88	293.96	527.29	497.90	29.39	17.940	

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

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - (O) Montera Federal 023H - OH - OH

Offset Site Error: 0.00 usft

Survey Program: 100-3_Gyro-NS-CT_OWSG, 11638-3_MWD

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,913.30	4,958.85	4,952.40	13.45	17.25	-125.53	506.64	300.70	534.08	504.13	29.95	17.834	
5,100.00	5,009.89	5,040.96	5,034.36	13.78	17.54	-127.45	503.06	304.29	543.68	513.22	30.46	17.850	
5,200.00	5,106.49	5,127.92	5,121.22	14.10	17.84	-129.52	499.52	305.84	556.37	525.41	30.96	17.969	
5,300.00	5,203.08	5,210.14	5,203.40	14.43	18.12	-131.43	496.89	305.34	572.33	540.90	31.43	18.209	
5,400.00	5,299.67	5,294.13	5,287.35	14.75	18.42	-133.28	495.50	303.24	591.42	559.54	31.88	18.550	
5,500.00	5,396.65	5,389.78	5,382.96	15.07	18.76	-135.31	494.62	300.52	610.85	578.44	32.41	18.848	
5,600.00	5,494.23	5,486.69	5,479.82	15.36	19.10	-137.06	493.82	297.73	629.04	596.10	32.94	19.099	
5,700.00	5,592.35	5,586.92	5,580.01	15.62	19.46	-138.57	493.04	295.06	645.57	612.10	33.48	19.285	
5,800.00	5,690.94	5,688.17	5,681.24	15.86	19.81	-139.83	492.28	292.92	659.96	625.95	34.01	19.403	
5,900.00	5,789.93	5,788.64	5,781.69	16.07	20.16	-140.85	491.55	291.18	672.22	637.68	34.54	19.463	
6,000.00	5,889.26	5,888.57	5,881.60	16.25	20.51	-141.66	490.85	289.61	682.44	647.39	35.05	19.470	
6,100.00	5,988.86	5,988.15	5,981.17	16.41	20.86	-142.29	490.21	288.13	690.65	655.10	35.55	19.426	
6,200.00	6,088.66	6,089.39	6,082.41	16.53	21.22	-142.75	489.64	286.67	696.84	660.78	36.05	19.327	
6,300.00	6,188.59	6,189.76	6,182.76	16.64	21.57	-143.08	488.64	285.48	700.58	664.04	36.54	19.174	
6,400.00	6,288.58	6,292.31	6,285.29	16.71	21.93	-70.84	487.53	284.39	702.10	665.12	36.98	18.988	
6,500.00	6,388.58	6,392.25	6,385.23	16.76	22.27	-70.94	486.46	283.61	702.49	665.11	37.38	18.794	
6,600.00	6,488.58	6,493.05	6,486.02	16.82	22.62	-71.03	485.57	282.88	702.88	665.10	37.79	18.601	
6,700.00	6,588.58	6,593.11	6,586.08	16.88	22.97	-71.10	484.80	282.28	703.20	665.01	38.19	18.412	
6,800.00	6,688.58	6,693.92	6,686.88	16.94	23.32	-71.17	484.06	281.78	703.44	664.84	38.60	18.223	
6,900.00	6,788.58	6,793.84	6,786.80	17.00	23.67	-71.25	483.30	281.22	703.71	664.71	39.01	18.041	
7,000.00	6,888.58	6,895.19	6,888.14	17.05	24.02	-71.31	482.61	280.75	703.94	664.52	39.42	17.858	
7,100.00	6,988.58	6,996.35	6,989.31	17.11	24.37	-71.37	482.00	280.52	703.96	664.13	39.83	17.674	
7,115.74	7,004.32	7,011.36	7,004.32	17.12	24.42	-71.37	481.92	280.50	703.95	664.06	39.89	17.647	
7,200.00	7,088.58	7,096.61	7,089.56	17.17	24.72	-71.41	481.47	280.34	703.97	663.73	40.24	17.495	
7,300.00	7,188.58	7,197.27	7,190.22	17.23	25.07	-71.47	480.79	280.18	703.90	663.25	40.65	17.317	
7,400.00	7,288.58	7,298.01	7,290.95	17.29	25.42	-71.52	480.16	280.22	703.66	662.61	41.06	17.138	
7,500.00	7,388.58	7,397.16	7,390.11	17.35	25.76	-71.55	479.72	280.32	703.43	661.97	41.46	16.967	
7,600.00	7,488.58	7,499.30	7,492.25	17.41	26.12	-71.56	479.43	280.55	703.13	661.25	41.88	16.790	
7,700.00	7,588.58	7,596.57	7,589.52	17.47	26.45	-71.57	479.29	280.86	702.78	660.51	42.27	16.625	
7,800.00	7,688.58	7,697.80	7,690.74	17.53	26.80	-71.56	479.27	281.11	702.54	659.85	42.69	16.458	
7,900.00	7,788.58	7,798.05	7,790.99	17.59	27.15	-71.54	479.40	281.44	702.27	659.17	43.10	16.295	
8,000.00	7,888.58	7,896.66	7,889.60	17.65	27.50	-71.49	479.91	281.90	701.99	658.49	43.50	16.137	
8,100.00	7,988.58	7,999.06	7,992.00	17.71	27.85	-71.44	480.39	282.36	701.71	657.79	43.92	15.975	
8,200.00	8,088.58	8,099.02	8,091.96	17.77	28.20	-71.37	481.12	283.08	701.26	656.92	44.34	15.816	
8,300.00	8,188.58	8,198.70	8,191.63	17.83	28.55	-71.29	481.85	283.83	700.79	656.04	44.75	15.660	
8,400.00	8,288.58	8,299.06	8,291.98	17.89	28.90	-71.21	482.65	284.59	700.32	655.16	45.16	15.506	
8,500.00	8,388.58	8,400.21	8,393.13	17.95	29.25	-71.11	483.57	285.47	699.80	654.21	45.58	15.352	
8,600.00	8,488.58	8,499.10	8,492.00	18.02	29.60	-71.02	484.53	286.36	699.26	653.26	45.99	15.203	
8,700.00	8,588.58	8,600.00	8,592.89	18.08	29.95	-70.91	485.60	287.37	698.66	652.25	46.41	15.053	
8,800.00	8,688.58	8,699.33	8,692.22	18.14	30.30	-70.81	486.49	288.36	698.01	651.19	46.83	14.907	
8,900.00	8,788.58	8,800.00	8,792.88	18.20	30.65	-70.73	487.20	289.31	697.36	650.11	47.24	14.761	
9,000.00	8,888.58	8,901.57	8,894.43	18.26	31.00	-70.62	488.21	290.38	696.69	649.02	47.67	14.616	
9,100.00	8,988.58	9,008.42	9,001.27	18.32	31.38	-70.51	489.02	292.11	695.41	647.30	48.11	14.455	
9,200.00	9,088.58	9,116.67	9,109.48	18.39	31.76	-70.43	489.09	294.94	692.98	644.42	48.55	14.272	
9,300.00	9,188.58	9,216.03	9,208.80	18.45	32.11	-70.36	488.88	297.94	690.06	641.09	48.97	14.092	
9,400.00	9,288.58	9,315.96	9,308.68	18.51	32.47	-70.31	488.52	300.87	687.17	637.79	49.38	13.916	
9,500.00	9,388.58	9,416.39	9,409.07	18.57	32.82	-70.28	487.88	303.79	684.22	634.43	49.79	13.741	
9,600.00	9,488.58	9,511.72	9,504.37	18.64	33.15	-70.32	486.60	305.94	681.64	631.45	50.19	13.582	
9,697.30	9,585.88	9,593.26	9,585.88	18.70	33.44	-70.44	484.91	306.32	680.53	630.01	50.52	13.470	
9,700.00	9,588.58	9,595.56	9,588.18	18.70	33.45	-70.44	484.87	306.30	680.54	630.00	50.53	13.468	
9,800.00	9,688.58	9,693.16	9,685.76	18.76	33.79	-70.63	482.86	305.29	680.83	629.90	50.93	13.368	
9,900.00	9,788.58	9,792.21	9,784.78	18.83	34.13	-70.82	480.85	304.10	681.29	629.96	51.33	13.272	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - (O) Montera Federal 023H - OH - OH

Offset Site Error: 0.00 usft

Survey Program: 100-3_Gyro-NS-CT_OWSG, 11638-3_MWD

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.00	9,888.58	9,891.51	9,884.04	18.89	34.48	-71.03	478.69	302.68	681.93	630.19	51.74	13.180	
10,100.00	9,988.58	9,990.62	9,983.11	18.95	34.83	-71.28	476.23	301.03	682.70	630.56	52.14	13.093	
10,200.00	10,088.58	10,086.07	10,078.52	19.02	35.17	-71.51	473.91	299.24	683.71	631.18	52.53	13.016	
10,300.00	10,188.58	10,181.72	10,174.12	19.08	35.50	-71.70	472.27	296.85	685.54	632.62	52.92	12.954	
10,400.00	10,288.58	10,280.17	10,272.53	19.15	35.85	-71.83	471.46	294.19	687.85	634.53	53.32	12.900	
10,500.00	10,388.58	10,382.42	10,374.75	19.21	36.21	-71.95	470.79	291.69	689.97	636.23	53.74	12.838	
10,600.00	10,488.58	10,485.34	10,477.65	19.27	36.58	-72.04	470.39	289.62	691.76	637.59	54.17	12.771	
10,700.00	10,588.58	10,585.61	10,577.91	19.34	36.93	-72.05	470.68	288.18	693.22	638.63	54.58	12.700	
10,800.00	10,688.58	10,683.28	10,675.56	19.40	37.27	-72.05	471.21	286.68	694.85	639.86	54.99	12.637	
10,900.00	10,788.58	10,781.81	10,774.07	19.47	37.61	-72.09	471.37	284.59	696.91	641.52	55.39	12.582	
11,000.00	10,888.58	10,881.31	10,873.55	19.53	37.96	-72.13	471.46	282.45	698.99	643.19	55.80	12.526	
11,100.00	10,988.58	10,978.15	10,970.35	19.60	38.31	-72.18	471.59	280.12	701.32	645.12	56.20	12.479	
11,200.00	11,088.58	11,066.44	11,058.60	19.66	38.62	-72.22	471.98	277.26	704.56	648.00	56.56	12.456	SF
11,300.00	11,188.58	11,150.00	11,142.03	19.73	38.92	-72.20	473.59	273.03	709.98	653.08	56.90	12.478	
11,400.00	11,288.58	11,238.17	11,229.92	19.79	39.23	-72.03	477.73	267.37	717.51	660.25	57.26	12.530	
11,500.00	11,388.58	11,351.23	11,342.59	19.86	39.63	-71.72	484.05	260.56	725.00	667.25	57.75	12.554	
11,600.00	11,488.58	11,451.38	11,442.49	19.92	39.98	-71.45	489.32	255.64	731.33	673.15	58.18	12.570	
11,700.00	11,588.58	11,554.30	11,545.15	19.99	40.34	-71.17	494.73	250.76	737.51	678.89	58.62	12.581	
11,800.00	11,688.58	11,665.40	11,656.06	20.05	40.54	-70.93	499.45	246.29	742.71	683.81	58.90	12.611	
11,900.00	11,788.58	11,778.40	11,768.95	20.12	40.55	-70.71	503.46	243.58	746.13	687.15	58.98	12.650	
12,000.00	11,888.58	11,873.92	11,864.22	20.19	40.56	-70.24	510.02	243.60	748.44	689.37	59.07	12.670	
12,100.00	11,988.51	11,935.29	11,924.64	20.25	40.56	110.70	520.51	243.93	754.89	695.79	59.10	12.773	
12,200.00	12,086.82	11,992.00	11,978.79	20.31	40.58	110.87	537.26	243.95	772.71	713.60	59.11	13.073	
12,300.00	12,180.57	12,040.84	12,023.93	20.35	40.59	110.25	555.89	244.11	802.99	743.90	59.09	13.589	
12,400.00	12,266.93	12,069.85	12,049.88	20.39	40.59	107.46	568.83	244.44	846.22	787.18	59.03	14.335	
12,500.00	12,343.26	12,086.00	12,063.95	20.44	40.60	102.15	576.75	244.54	901.69	842.73	58.97	15.292	
12,600.00	12,407.24	12,086.00	12,063.95	20.52	40.60	93.65	576.75	244.54	966.76	907.87	58.89	16.415	
12,700.00	12,456.94	12,086.00	12,063.95	20.67	40.60	83.47	576.75	244.54	1,038.13	979.27	58.87	17.635	
12,800.00	12,490.84	12,086.00	12,063.95	20.88	40.60	72.56	576.75	244.54	1,112.64	1,053.76	58.87	18.899	
12,900.00	12,507.91	12,073.72	12,053.28	21.18	40.60	61.41	570.68	244.47	1,187.43	1,128.55	58.88	20.168	
13,000.00	12,510.43	12,055.00	12,036.69	21.56	40.59	56.40	562.01	244.27	1,261.17	1,202.29	58.87	21.422	
13,100.00	12,511.30	12,055.00	12,036.69	22.01	40.59	56.40	562.01	244.27	1,337.34	1,278.43	58.91	22.701	
13,200.00	12,512.18	12,023.00	12,007.61	22.52	40.58	54.79	548.67	244.00	1,416.09	1,357.15	58.94	24.027	
13,300.00	12,513.05	12,023.00	12,007.61	23.10	40.58	54.79	548.67	244.00	1,496.87	1,437.88	58.99	25.374	
13,400.00	12,513.92	12,008.51	11,994.20	23.73	40.58	54.06	543.17	243.97	1,579.65	1,520.60	59.05	26.752	
13,500.00	12,514.80	11,992.00	11,978.79	24.41	40.58	53.25	537.26	243.95	1,664.09	1,604.97	59.12	28.150	
13,600.00	12,515.67	11,992.00	11,978.79	25.15	40.58	53.25	537.26	243.95	1,749.93	1,690.75	59.18	29.570	
13,700.00	12,516.55	11,979.35	11,966.87	25.93	40.57	52.63	533.01	243.95	1,837.03	1,777.78	59.25	31.003	
13,800.00	12,517.42	11,960.00	11,948.47	26.76	40.57	51.69	527.05	243.95	1,925.44	1,866.10	59.34	32.447	
13,900.00	12,518.29	11,960.00	11,948.47	27.63	40.57	51.69	527.05	243.95	2,014.55	1,955.14	59.41	33.908	
14,000.00	12,519.17	11,960.00	11,948.47	28.53	40.57	51.69	527.05	243.95	2,104.64	2,045.15	59.48	35.383	
14,100.00	12,520.04	11,960.00	11,948.47	29.47	40.57	51.69	527.05	243.95	2,195.58	2,136.03	59.55	36.868	
14,200.00	12,520.91	11,960.00	11,948.47	30.44	40.57	51.69	527.05	243.95	2,287.28	2,227.66	59.62	38.361	
14,300.00	12,521.79	11,945.19	11,934.23	31.44	40.57	50.98	522.98	243.94	2,379.38	2,319.66	59.72	39.841	
14,400.00	12,522.66	11,929.00	11,918.52	32.46	40.56	50.21	519.06	243.91	2,472.36	2,412.53	59.83	41.326	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

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

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.50	0.50	173.93	-235.00	25.00	236.33				
100.00	100.00	100.00	100.00	0.98	0.98	173.93	-235.00	25.00	236.33	234.36	1.96	120.440	
200.00	200.00	200.00	200.00	1.56	1.56	173.93	-235.00	25.00	236.33	233.20	3.12	75.691	
300.00	300.00	300.00	300.00	1.98	1.98	173.93	-235.00	25.00	236.33	232.36	3.96	59.643	
400.00	400.00	400.00	400.00	2.33	2.33	173.93	-235.00	25.00	236.33	231.67	4.66	50.726	
500.00	500.00	500.00	500.00	2.63	2.63	173.93	-235.00	25.00	236.33	231.06	5.27	44.852	
600.00	600.00	600.00	600.00	2.91	2.91	173.93	-235.00	25.00	236.33	230.51	5.82	40.605	
700.00	700.00	700.00	700.00	3.16	3.16	173.93	-235.00	25.00	236.33	230.00	6.33	37.348	
800.00	800.00	800.00	800.00	3.40	3.40	173.93	-235.00	25.00	236.33	229.52	6.80	34.748	
900.00	900.00	900.00	900.00	3.62	3.62	173.93	-235.00	25.00	236.33	229.08	7.25	32.608	
1,000.00	1,000.00	1,000.00	1,000.00	3.76	3.84	81.94	-235.00	25.00	236.32	228.72	7.60	31.113	
1,100.00	1,099.98	1,099.98	1,099.98	4.00	4.04	82.38	-235.00	25.00	236.07	228.08	7.99	29.549	
1,200.00	1,199.88	1,199.88	1,199.88	4.24	4.23	83.46	-235.00	25.00	235.52	227.15	8.37	28.146	
1,300.00	1,299.63	1,299.63	1,299.63	4.46	4.42	85.18	-235.00	25.00	234.82	226.09	8.73	26.884	
1,400.00	1,399.25	1,399.25	1,399.25	4.60	4.60	87.29	-235.00	25.00	234.25	225.20	9.05	25.893	
1,500.00	1,498.87	1,500.83	1,500.83	4.78	4.77	89.65	-234.56	24.23	233.58	224.18	9.40	24.856	
1,600.00	1,598.49	1,602.09	1,602.05	4.96	4.94	92.40	-233.21	21.92	232.53	222.79	9.74	23.882	
1,700.00	1,698.11	1,702.95	1,702.81	5.14	5.10	95.57	-230.99	18.07	231.32	221.25	10.07	22.968	
1,800.00	1,797.73	1,803.34	1,803.01	5.32	5.27	99.15	-227.89	12.72	230.25	219.84	10.40	22.130	
1,900.00	1,897.34	1,903.22	1,902.57	5.49	5.43	103.15	-223.94	5.89	229.61	218.88	10.74	21.387	
1,934.10	1,931.32	1,937.15	1,936.36	5.56	5.49	104.60	-222.39	3.23	229.56	218.71	10.85	21.160	CC, ES
2,000.00	1,996.96	2,002.52	2,001.41	5.67	5.60	107.54	-219.14	-2.39	229.78	218.71	11.07	20.760	
2,100.00	2,096.58	2,101.19	2,099.44	5.85	5.76	112.29	-213.53	-12.09	231.14	219.73	11.40	20.268	
2,200.00	2,196.20	2,199.17	2,196.58	6.04	5.93	117.32	-207.12	-23.16	234.07	222.32	11.75	19.919	
2,300.00	2,295.72	2,296.22	2,292.57	6.23	6.09	128.91	-199.95	-35.54	240.01	227.91	12.10	19.834	
2,400.00	2,394.97	2,391.97	2,387.03	6.43	6.26	138.66	-192.09	-49.13	250.73	238.25	12.48	20.094	
2,500.00	2,493.89	2,486.26	2,479.76	6.64	6.43	147.02	-183.57	-63.85	266.67	253.81	12.87	20.726	
2,600.00	2,592.40	2,578.91	2,570.61	6.85	6.59	154.30	-174.45	-79.60	288.03	274.77	13.26	21.723	
2,700.00	2,690.45	2,669.79	2,659.43	7.07	6.77	160.63	-164.79	-96.28	314.77	301.12	13.65	23.061	
2,800.00	2,787.96	2,759.81	2,747.10	7.28	6.91	166.13	-154.59	-113.91	346.62	332.61	14.00	24.752	
2,900.00	2,884.87	2,850.29	2,835.17	7.49	7.09	170.80	-144.19	-131.86	382.69	368.31	14.38	26.614	
3,000.00	2,981.46	2,940.31	2,922.79	7.68	7.29	173.88	-133.85	-149.73	421.15	406.41	14.74	28.570	
3,100.00	3,078.05	3,030.33	3,010.42	7.87	7.50	176.46	-123.51	-167.59	460.52	445.42	15.10	30.491	
3,200.00	3,174.64	3,120.35	3,098.04	8.06	7.71	178.64	-113.17	-185.45	500.58	485.12	15.47	32.363	
3,300.00	3,271.24	3,210.37	3,185.66	8.26	7.93	-179.49	-102.83	-203.31	541.19	525.35	15.83	34.177	
3,400.00	3,367.83	3,300.39	3,273.28	8.51	8.15	-177.88	-92.49	-221.18	582.21	566.01	16.20	35.929	
3,500.00	3,464.42	3,390.41	3,360.91	8.80	8.37	-176.47	-82.15	-239.04	623.58	607.01	16.58	37.616	
3,600.00	3,561.01	3,480.43	3,448.53	9.09	8.60	-175.24	-71.81	-256.90	665.23	648.28	16.95	39.237	
3,700.00	3,657.60	3,570.45	3,536.15	9.38	8.83	-174.15	-61.47	-274.76	707.11	689.77	17.33	40.793	
3,800.00	3,754.20	3,660.47	3,623.77	9.68	9.07	-173.18	-51.13	-292.63	749.17	731.46	17.72	42.285	
3,900.00	3,850.79	3,750.49	3,711.39	9.98	9.30	-172.31	-40.79	-310.49	791.40	773.30	18.10	43.716	
4,000.00	3,947.38	3,840.51	3,799.02	10.28	9.54	-171.53	-30.45	-328.35	833.76	815.27	18.49	45.086	
4,100.00	4,043.97	3,930.53	3,886.64	10.59	9.78	-170.83	-20.10	-346.21	876.24	857.36	18.88	46.400	
4,200.00	4,140.56	4,020.55	3,974.26	10.90	10.03	-170.19	-9.76	-364.08	918.82	899.54	19.28	47.658	
4,300.00	4,237.16	4,110.57	4,061.88	11.21	10.27	-169.60	0.58	-381.94	961.48	941.81	19.68	48.863	
4,400.00	4,333.75	4,200.59	4,149.51	11.52	10.52	-169.07	10.92	-399.80	1,004.23	984.15	20.08	50.018	
4,500.00	4,430.34	4,290.61	4,237.13	11.84	10.77	-168.57	21.26	-417.66	1,047.03	1,026.55	20.48	51.124	
4,600.00	4,526.93	4,380.63	4,324.75	12.16	11.02	-168.12	31.60	-435.53	1,089.90	1,069.01	20.89	52.185	
4,700.00	4,623.53	4,470.66	4,412.37	12.48	11.27	-167.70	41.94	-453.39	1,132.82	1,111.53	21.29	53.203	
4,800.00	4,720.12	4,560.68	4,500.00	12.80	11.53	-167.31	52.28	-471.25	1,175.78	1,154.08	21.70	54.179	
4,900.00	4,816.71	4,650.70	4,587.62	13.12	11.78	-166.95	62.62	-489.12	1,218.79	1,196.67	22.11	55.116	
5,000.00	4,913.30	4,740.72	4,675.24	13.45	12.04	-166.61	72.96	-506.98	1,261.83	1,239.30	22.53	56.015	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

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

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,009.89	4,830.74	4,762.86	13.78	12.30	-166.30	83.30	-524.84	1,304.91	1,281.96	22.94	56.879	
5,200.00	5,106.49	4,920.76	4,850.49	14.10	12.55	-166.00	93.64	-542.70	1,348.01	1,324.65	23.36	57.708	
5,300.00	5,203.08	5,010.78	4,938.11	14.43	12.81	-165.73	103.98	-560.57	1,391.15	1,367.37	23.78	58.506	
5,400.00	5,299.67	5,100.80	5,025.73	14.75	13.07	-165.48	114.32	-578.43	1,434.30	1,410.11	24.19	59.295	
5,500.00	5,396.65	5,191.43	5,113.94	15.07	13.34	-165.39	124.73	-596.41	1,476.13	1,451.51	24.62	59.954	
5,600.00	5,494.23	5,283.03	5,203.11	15.36	13.60	-165.28	135.26	-614.59	1,515.68	1,490.63	25.05	60.504	
5,700.00	5,592.35	5,375.56	5,293.17	15.62	13.87	-165.15	145.89	-632.95	1,552.93	1,527.45	25.48	60.949	
5,800.00	5,690.94	5,468.94	5,384.06	15.86	14.15	-164.99	156.61	-651.48	1,587.84	1,561.94	25.90	61.296	
5,900.00	5,789.93	5,563.11	5,475.73	16.07	14.41	-164.81	167.43	-670.17	1,620.42	1,594.11	26.31	61.580	
6,000.00	5,889.26	5,685.19	5,594.79	16.25	14.75	-164.54	180.93	-693.48	1,649.96	1,623.13	26.83	61.492	
6,100.00	5,988.86	5,813.14	5,720.17	16.41	15.09	-164.27	193.71	-715.56	1,675.32	1,647.96	27.36	61.228	
6,200.00	6,088.66	5,943.22	5,848.19	16.53	15.41	-164.01	205.26	-735.52	1,696.41	1,668.55	27.87	60.872	
6,300.00	6,188.59	6,075.08	5,978.46	16.64	15.70	-163.76	215.49	-753.18	1,713.15	1,684.81	28.35	60.437	
6,400.00	6,288.58	6,208.35	6,110.56	16.71	15.96	-91.09	224.29	-768.39	1,725.49	1,696.76	28.73	60.054	
6,500.00	6,388.58	6,342.54	6,243.95	16.76	16.20	-90.84	231.60	-781.01	1,734.82	1,705.75	29.07	59.678	
6,600.00	6,488.58	6,477.34	6,378.25	16.82	16.40	-90.65	237.36	-790.97	1,742.16	1,712.77	29.39	59.284	
6,700.00	6,588.58	6,612.61	6,513.26	16.88	16.57	-90.51	241.55	-798.21	1,747.48	1,717.80	29.68	58.876	
6,800.00	6,688.58	6,748.20	6,648.75	16.94	16.71	-90.42	244.15	-802.69	1,750.77	1,720.83	29.94	58.469	
6,900.00	6,788.58	6,883.96	6,784.49	17.00	16.82	-90.39	245.14	-804.40	1,752.03	1,721.87	30.16	58.092	
7,000.00	6,888.58	6,988.04	6,888.58	17.05	16.89	-90.39	245.15	-804.42	1,752.04	1,721.75	30.29	57.838	
7,100.00	6,988.58	7,088.04	6,988.58	17.11	16.95	-90.39	245.15	-804.42	1,752.04	1,721.62	30.42	57.601	
7,200.00	7,088.58	7,188.04	7,088.58	17.17	17.02	-90.39	245.15	-804.42	1,752.04	1,721.50	30.54	57.365	
7,300.00	7,188.58	7,288.04	7,188.58	17.23	17.08	-90.39	245.15	-804.42	1,752.04	1,721.37	30.67	57.131	
7,400.00	7,288.58	7,388.04	7,288.58	17.29	17.14	-90.39	245.15	-804.42	1,752.04	1,721.25	30.79	56.898	
7,500.00	7,388.58	7,488.04	7,388.58	17.35	17.21	-90.39	245.15	-804.42	1,752.04	1,721.12	30.92	56.666	
7,600.00	7,488.58	7,588.04	7,488.58	17.41	17.27	-90.39	245.15	-804.42	1,752.04	1,721.00	31.05	56.435	
7,700.00	7,588.58	7,688.04	7,588.58	17.47	17.34	-90.39	245.15	-804.42	1,752.04	1,720.87	31.17	56.205	
7,800.00	7,688.58	7,788.04	7,688.58	17.53	17.40	-90.39	245.15	-804.42	1,752.04	1,720.74	31.30	55.977	
7,900.00	7,788.58	7,888.04	7,788.58	17.59	17.47	-90.39	245.15	-804.42	1,752.04	1,720.61	31.43	55.750	
8,000.00	7,888.58	7,988.04	7,888.58	17.65	17.53	-90.39	245.15	-804.42	1,752.04	1,720.49	31.55	55.524	
8,100.00	7,988.58	8,088.04	7,988.58	17.71	17.60	-90.39	245.15	-804.42	1,752.04	1,720.36	31.68	55.300	
8,200.00	8,088.58	8,188.04	8,088.58	17.77	17.67	-90.39	245.15	-804.42	1,752.04	1,720.23	31.81	55.077	
8,300.00	8,188.58	8,288.04	8,188.58	17.83	17.73	-90.39	245.15	-804.42	1,752.04	1,720.10	31.94	54.855	
8,400.00	8,288.58	8,388.04	8,288.58	17.89	17.80	-90.39	245.15	-804.42	1,752.04	1,719.97	32.07	54.634	
8,500.00	8,388.58	8,488.04	8,388.58	17.95	17.86	-90.39	245.15	-804.42	1,752.04	1,719.84	32.20	54.415	
8,600.00	8,488.58	8,588.04	8,488.58	18.02	17.93	-90.39	245.15	-804.42	1,752.04	1,719.71	32.33	54.196	
8,700.00	8,588.58	8,688.04	8,588.58	18.08	18.00	-90.39	245.15	-804.42	1,752.04	1,719.58	32.46	53.979	
8,800.00	8,688.58	8,788.04	8,688.58	18.14	18.06	-90.39	245.15	-804.42	1,752.04	1,719.45	32.59	53.764	
8,900.00	8,788.58	8,888.04	8,788.58	18.20	18.13	-90.39	245.15	-804.42	1,752.04	1,719.32	32.72	53.549	
9,000.00	8,888.58	8,988.04	8,888.58	18.26	18.19	-90.39	245.15	-804.42	1,752.04	1,719.19	32.85	53.336	
9,100.00	8,988.58	9,088.04	8,988.58	18.32	18.26	-90.39	245.15	-804.42	1,752.04	1,719.06	32.98	53.124	
9,200.00	9,088.58	9,188.04	9,088.58	18.39	18.33	-90.39	245.15	-804.42	1,752.04	1,718.93	33.11	52.913	
9,300.00	9,188.58	9,288.04	9,188.58	18.45	18.40	-90.39	245.15	-804.42	1,752.04	1,718.80	33.24	52.703	
9,400.00	9,288.58	9,388.04	9,288.58	18.51	18.46	-90.39	245.15	-804.42	1,752.04	1,718.67	33.38	52.495	
9,500.00	9,388.58	9,488.04	9,388.58	18.57	18.53	-90.39	245.15	-804.42	1,752.04	1,718.53	33.51	52.288	
9,600.00	9,488.58	9,588.04	9,488.58	18.64	18.60	-90.39	245.15	-804.42	1,752.04	1,718.40	33.64	52.082	
9,700.00	9,588.58	9,688.04	9,588.58	18.70	18.66	-90.39	245.15	-804.42	1,752.04	1,718.27	33.77	51.877	
9,800.00	9,688.58	9,788.04	9,688.58	18.76	18.73	-90.39	245.15	-804.42	1,752.04	1,718.13	33.91	51.673	
9,900.00	9,788.58	9,888.04	9,788.58	18.83	18.80	-90.39	245.15	-804.42	1,752.04	1,718.00	34.04	51.471	
10,000.00	9,888.58	9,988.04	9,888.58	18.89	18.87	-90.39	245.15	-804.42	1,752.04	1,717.87	34.17	51.270	
10,100.00	9,988.58	10,088.04	9,988.58	18.95	18.94	-90.39	245.15	-804.42	1,752.04	1,717.73	34.31	51.070	
10,200.00	10,088.58	10,188.04	10,088.58	19.02	19.00	-90.39	245.15	-804.42	1,752.04	1,717.60	34.44	50.871	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

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

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,188.58	10,288.04	10,188.58	19.08	19.07	-90.39	245.15	-804.42	1,752.04	1,717.47	34.58	50.673	
10,400.00	10,288.58	10,388.04	10,288.58	19.15	19.14	-90.39	245.15	-804.42	1,752.04	1,717.33	34.71	50.477	
10,500.00	10,388.58	10,488.04	10,388.58	19.21	19.21	-90.39	245.15	-804.42	1,752.04	1,717.20	34.84	50.282	
10,600.00	10,488.58	10,588.04	10,488.58	19.27	19.28	-90.39	245.15	-804.42	1,752.04	1,717.06	34.98	50.087	
10,700.00	10,588.58	10,688.04	10,588.58	19.34	19.35	-90.39	245.15	-804.42	1,752.04	1,716.93	35.11	49.894	
10,800.00	10,688.58	10,788.04	10,688.58	19.40	19.41	-90.39	245.15	-804.42	1,752.04	1,716.79	35.25	49.703	
10,900.00	10,788.58	10,888.04	10,788.58	19.47	19.48	-90.39	245.15	-804.42	1,752.04	1,716.65	35.39	49.512	
11,000.00	10,888.58	10,988.04	10,888.58	19.53	19.55	-90.39	245.15	-804.42	1,752.04	1,716.52	35.52	49.322	
11,100.00	10,988.58	11,088.04	10,988.58	19.60	19.62	-90.39	245.15	-804.42	1,752.04	1,716.38	35.66	49.134	
11,200.00	11,088.58	11,188.04	11,088.58	19.66	19.69	-90.39	245.15	-804.42	1,752.04	1,716.25	35.79	48.947	
11,300.00	11,188.58	11,288.04	11,188.58	19.73	19.76	-90.39	245.15	-804.42	1,752.04	1,716.11	35.93	48.760	
11,400.00	11,288.58	11,388.04	11,288.58	19.79	19.83	-90.39	245.15	-804.42	1,752.04	1,715.97	36.07	48.575	
11,500.00	11,388.58	11,488.04	11,388.58	19.86	19.90	-90.39	245.15	-804.42	1,752.04	1,715.83	36.21	48.391	
11,600.00	11,488.58	11,588.04	11,488.58	19.92	19.97	-90.39	245.15	-804.42	1,752.04	1,715.70	36.34	48.208	
11,700.00	11,588.58	11,688.19	11,588.71	19.99	20.03	-90.42	244.10	-804.41	1,752.04	1,715.60	36.44	48.076	
11,725.52	11,614.10	11,713.68	11,614.10	20.01	20.04	-90.49	241.99	-804.39	1,752.04	1,715.59	36.45	48.066	
11,800.00	11,688.58	11,786.36	11,685.70	20.05	20.05	-90.89	229.81	-804.29	1,752.08	1,715.65	36.44	48.085	
11,900.00	11,788.58	11,877.23	11,772.12	20.12	20.03	-91.80	202.01	-804.05	1,752.57	1,716.20	36.38	48.179	
12,000.00	11,888.58	11,957.68	11,844.12	20.19	20.00	-92.97	166.27	-803.74	1,754.24	1,717.94	36.30	48.325	
12,100.00	11,988.51	12,027.87	11,902.32	20.25	19.96	86.09	127.11	-803.40	1,757.76	1,721.58	36.19	48.572	
12,200.00	12,086.82	12,100.00	11,956.69	20.31	19.93	84.41	79.78	-803.00	1,762.62	1,726.59	36.03	48.925	
12,300.00	12,180.57	12,159.04	11,996.48	20.35	19.91	82.99	36.20	-802.62	1,768.18	1,732.26	35.92	49.223	
12,400.00	12,266.93	12,222.17	12,033.82	20.39	19.90	81.60	-14.66	-802.18	1,774.01	1,738.16	35.85	49.486	
12,500.00	12,343.26	12,284.21	12,064.84	20.44	19.92	80.38	-68.34	-801.72	1,779.65	1,743.81	35.83	49.663	
12,600.00	12,407.24	12,350.00	12,091.21	20.52	19.96	79.31	-128.58	-801.20	1,784.69	1,748.81	35.89	49.731	
12,700.00	12,456.94	12,400.00	12,106.53	20.67	20.00	78.57	-176.16	-800.79	1,788.80	1,752.74	36.06	49.609	
12,800.00	12,490.84	12,466.32	12,120.34	20.88	20.09	77.99	-240.98	-800.24	1,791.69	1,755.40	36.29	49.377	
12,900.00	12,507.91	12,526.34	12,126.32	21.18	20.20	77.71	-300.67	-799.72	1,793.21	1,756.61	36.59	49.003	
13,000.00	12,510.43	12,611.54	12,127.49	21.56	20.40	77.67	-385.86	-798.99	1,793.41	1,756.38	37.03	48.436	
13,100.00	12,511.30	12,711.54	12,128.36	22.01	20.70	77.67	-485.85	-798.13	1,793.41	1,755.73	37.68	47.602	
13,200.00	12,512.18	12,811.54	12,129.23	22.52	21.05	77.67	-585.84	-797.27	1,793.41	1,754.91	38.50	46.582	
13,300.00	12,513.05	12,911.54	12,130.10	23.10	21.47	77.67	-685.84	-796.41	1,793.41	1,753.92	39.49	45.413	
13,400.00	12,513.92	13,011.54	12,130.97	23.73	21.95	77.67	-785.83	-795.55	1,793.41	1,752.77	40.63	44.135	
13,500.00	12,514.80	13,111.54	12,131.84	24.41	22.49	77.67	-885.82	-794.68	1,793.41	1,751.49	41.92	42.782	
13,600.00	12,515.67	13,211.54	12,132.71	25.15	23.09	77.67	-985.81	-793.82	1,793.41	1,750.08	43.33	41.387	
13,700.00	12,516.55	13,311.54	12,133.58	25.93	23.75	77.67	-1,085.81	-792.96	1,793.41	1,748.55	44.86	39.976	
13,800.00	12,517.42	13,411.54	12,134.45	26.76	24.47	77.67	-1,185.80	-792.10	1,793.41	1,746.92	46.50	38.571	
13,900.00	12,518.29	13,511.54	12,135.33	27.63	25.23	77.67	-1,285.79	-791.24	1,793.41	1,745.19	48.22	37.189	
14,000.00	12,519.17	13,611.54	12,136.20	28.53	26.05	77.67	-1,385.78	-790.38	1,793.41	1,743.38	50.04	35.841	
14,100.00	12,520.04	13,711.54	12,137.07	29.47	26.91	77.67	-1,485.78	-789.52	1,793.42	1,741.49	51.93	34.538	
14,200.00	12,520.91	13,811.54	12,137.94	30.44	27.81	77.67	-1,585.77	-788.66	1,793.42	1,739.53	53.88	33.284	
14,300.00	12,521.79	13,911.54	12,138.81	31.44	28.75	77.67	-1,685.76	-787.80	1,793.42	1,737.52	55.90	32.084	
14,400.00	12,522.66	14,011.54	12,139.68	32.46	29.72	77.67	-1,785.75	-786.94	1,793.42	1,735.45	57.97	30.938	
14,500.00	12,523.53	14,111.54	12,140.55	33.51	30.72	77.67	-1,885.75	-786.08	1,793.42	1,733.33	60.09	29.847	
14,600.00	12,524.41	14,211.54	12,141.42	34.58	31.75	77.67	-1,985.74	-785.22	1,793.42	1,731.17	62.25	28.810	
14,700.00	12,525.28	14,311.54	12,142.29	35.67	32.81	77.67	-2,085.73	-784.36	1,793.42	1,728.97	64.45	27.825	
14,800.00	12,526.16	14,411.54	12,143.17	36.78	33.89	77.67	-2,185.72	-783.49	1,793.42	1,726.73	66.69	26.892	
14,900.00	12,527.03	14,511.54	12,144.04	37.90	34.99	77.67	-2,285.72	-782.63	1,793.42	1,724.46	68.96	26.007	
15,000.00	12,527.90	14,611.54	12,144.91	39.04	36.11	77.67	-2,385.71	-781.77	1,793.42	1,722.17	71.26	25.169	
15,100.00	12,528.78	14,711.54	12,145.78	40.20	37.25	77.67	-2,485.70	-780.91	1,793.43	1,719.84	73.58	24.374	
15,200.00	12,529.65	14,811.54	12,146.65	41.37	38.40	77.67	-2,585.69	-780.05	1,793.43	1,717.50	75.93	23.620	
15,300.00	12,530.52	14,911.54	12,147.52	42.55	39.56	77.67	-2,685.69	-779.19	1,793.43	1,715.13	78.30	22.905	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

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

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	12,531.40	15,011.54	12,148.39	43.74	40.74	77.67	-2,785.68	-778.33	1,793.43	1,712.74	80.69	22.227	
15,500.00	12,532.27	15,111.54	12,149.26	44.94	41.93	77.67	-2,885.67	-777.47	1,793.43	1,710.34	83.09	21.583	
15,600.00	12,533.14	15,211.54	12,150.14	46.15	43.14	77.67	-2,985.66	-776.61	1,793.43	1,707.91	85.52	20.972	
15,700.00	12,534.02	15,311.54	12,151.01	47.37	44.35	77.67	-3,085.66	-775.75	1,793.43	1,705.48	87.96	20.390	
15,800.00	12,534.89	15,411.54	12,151.88	48.59	45.57	77.67	-3,185.65	-774.89	1,793.43	1,703.02	90.41	19.837	
15,900.00	12,535.76	15,511.54	12,152.75	49.83	46.80	77.67	-3,285.64	-774.03	1,793.43	1,700.56	92.87	19.311	
16,000.00	12,536.64	15,611.54	12,153.62	51.07	48.04	77.67	-3,385.63	-773.17	1,793.43	1,698.08	95.35	18.809	
16,100.00	12,537.51	15,711.54	12,154.49	52.32	49.28	77.67	-3,485.63	-772.31	1,793.43	1,695.60	97.84	18.331	
16,200.00	12,538.39	15,811.54	12,155.36	53.57	50.53	77.67	-3,585.62	-771.44	1,793.44	1,693.10	100.33	17.875	
16,300.00	12,539.26	15,911.54	12,156.23	54.83	51.79	77.67	-3,685.61	-770.58	1,793.44	1,690.59	102.84	17.439	
16,400.00	12,540.13	16,011.54	12,157.10	56.09	53.05	77.67	-3,785.60	-769.72	1,793.44	1,688.08	105.36	17.022	
16,500.00	12,541.01	16,111.54	12,157.98	57.36	54.32	77.67	-3,885.60	-768.86	1,793.44	1,685.56	107.88	16.624	
16,600.00	12,541.88	16,211.54	12,158.85	58.64	55.60	77.67	-3,985.59	-768.00	1,793.44	1,683.03	110.41	16.243	
16,700.00	12,542.75	16,311.54	12,159.72	59.91	56.87	77.67	-4,085.58	-767.14	1,793.44	1,680.49	112.95	15.878	
16,800.00	12,543.63	16,411.54	12,160.59	61.20	58.16	77.67	-4,185.57	-766.28	1,793.44	1,677.94	115.50	15.528	
16,900.00	12,544.50	16,511.54	12,161.46	62.48	59.44	77.67	-4,285.57	-765.42	1,793.44	1,675.39	118.05	15.193	
17,000.00	12,545.37	16,611.54	12,162.33	63.77	60.73	77.67	-4,385.56	-764.56	1,793.44	1,672.84	120.60	14.871	
17,100.00	12,546.25	16,711.54	12,163.20	65.06	62.03	77.67	-4,485.55	-763.70	1,793.44	1,670.28	123.17	14.561	
17,200.00	12,547.12	16,811.54	12,164.07	66.36	63.32	77.67	-4,585.54	-762.84	1,793.44	1,667.71	125.73	14.264	
17,300.00	12,547.99	16,911.54	12,164.94	67.66	64.62	77.67	-4,685.54	-761.98	1,793.45	1,665.14	128.31	13.978	
17,400.00	12,548.87	17,011.54	12,165.82	68.96	65.92	77.67	-4,785.53	-761.12	1,793.45	1,662.56	130.88	13.703	
17,500.00	12,549.74	17,111.54	12,166.69	70.26	67.23	77.67	-4,885.52	-760.26	1,793.45	1,659.99	133.46	13.438	
17,600.00	12,550.62	17,211.54	12,167.56	71.57	68.54	77.67	-4,985.51	-759.39	1,793.45	1,657.40	136.05	13.183	
17,700.00	12,551.49	17,311.54	12,168.43	72.88	69.85	77.67	-5,085.51	-758.53	1,793.45	1,654.81	138.64	12.936	
17,800.00	12,552.36	17,411.54	12,169.30	74.19	71.16	77.67	-5,185.50	-757.67	1,793.45	1,652.22	141.23	12.699	
17,900.00	12,553.24	17,511.54	12,170.17	75.50	72.48	77.67	-5,285.49	-756.81	1,793.45	1,649.63	143.82	12.470	
18,000.00	12,554.11	17,611.54	12,171.04	76.81	73.79	77.67	-5,385.48	-755.95	1,793.45	1,647.03	146.42	12.249	
18,100.00	12,554.98	17,711.54	12,171.91	78.13	75.11	77.67	-5,485.48	-755.09	1,793.45	1,644.43	149.02	12.035	
18,200.00	12,555.86	17,811.54	12,172.78	79.45	76.43	77.67	-5,585.47	-754.23	1,793.45	1,641.83	151.63	11.828	
18,300.00	12,556.73	17,911.54	12,173.66	80.77	77.75	77.67	-5,685.46	-753.37	1,793.45	1,639.22	154.23	11.628	
18,400.00	12,557.60	18,011.54	12,174.53	82.09	79.08	77.67	-5,785.45	-752.51	1,793.46	1,636.61	156.84	11.435	
18,500.00	12,558.48	18,111.54	12,175.40	83.42	80.40	77.67	-5,885.45	-751.65	1,793.46	1,634.00	159.45	11.247	
18,600.00	12,559.35	18,211.54	12,176.27	84.74	81.73	77.67	-5,985.44	-750.79	1,793.46	1,631.39	162.07	11.066	
18,700.00	12,560.23	18,311.54	12,177.14	86.07	83.06	77.67	-6,085.43	-749.93	1,793.46	1,628.77	164.68	10.890	
18,800.00	12,561.10	18,411.54	12,178.01	87.40	84.39	77.67	-6,185.42	-749.07	1,793.46	1,626.16	167.30	10.720	
18,900.00	12,561.97	18,511.54	12,178.88	88.72	85.72	77.67	-6,285.42	-748.20	1,793.46	1,623.54	169.92	10.554	
19,000.00	12,562.85	18,611.54	12,179.75	90.05	87.05	77.67	-6,385.41	-747.34	1,793.46	1,620.92	172.55	10.394	
19,100.00	12,563.72	18,711.54	12,180.62	91.39	88.38	77.67	-6,485.40	-746.48	1,793.46	1,618.29	175.17	10.238	
19,200.00	12,564.59	18,811.54	12,181.50	92.72	89.72	77.67	-6,585.39	-745.62	1,793.46	1,615.67	177.80	10.087	
19,300.00	12,565.47	18,911.54	12,182.37	94.05	91.05	77.67	-6,685.39	-744.76	1,793.46	1,613.04	180.42	9.940	
19,400.00	12,566.34	19,011.54	12,183.24	95.39	92.39	77.67	-6,785.38	-743.90	1,793.47	1,610.41	183.05	9.797	
19,500.00	12,567.21	19,111.54	12,184.11	96.72	93.73	77.67	-6,885.37	-743.04	1,793.47	1,607.78	185.68	9.659	
19,600.00	12,568.09	19,211.54	12,184.98	98.06	95.07	77.67	-6,985.36	-742.18	1,793.47	1,605.15	188.32	9.524	
19,700.00	12,568.96	19,311.54	12,185.85	99.40	96.41	77.67	-7,085.36	-741.32	1,793.47	1,602.52	190.95	9.392	
19,800.00	12,569.83	19,411.54	12,186.72	100.73	97.75	77.67	-7,185.35	-740.46	1,793.47	1,599.88	193.59	9.264	
19,900.00	12,570.71	19,511.54	12,187.59	102.07	99.09	77.67	-7,285.34	-739.60	1,793.47	1,597.25	196.22	9.140	
20,000.00	12,571.58	19,611.54	12,188.46	103.41	100.43	77.67	-7,385.33	-738.74	1,793.47	1,594.61	198.86	9.019	
20,100.00	12,572.46	19,711.54	12,189.34	104.75	101.77	77.67	-7,485.33	-737.88	1,793.47	1,591.97	201.50	8.901	
20,200.00	12,573.33	19,811.54	12,190.21	106.10	103.12	77.66	-7,585.32	-737.02	1,793.47	1,589.33	204.14	8.786	
20,300.00	12,574.20	19,911.54	12,191.08	107.44	104.46	77.66	-7,685.31	-736.15	1,793.47	1,586.69	206.78	8.673	
20,400.00	12,575.08	20,011.54	12,191.95	108.78	105.80	77.66	-7,785.30	-735.29	1,793.47	1,584.05	209.42	8.564	
20,500.00	12,575.95	20,111.54	12,192.82	110.12	107.15	77.66	-7,885.30	-734.43	1,793.48	1,581.41	212.07	8.457	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

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

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,576.82	20,211.54	12,193.69	111.47	108.50	77.66	-7,985.29	-733.57	1,793.48	1,578.77	214.71	8.353	
20,700.00	12,577.70	20,311.54	12,194.56	112.81	109.84	77.66	-8,085.28	-732.71	1,793.48	1,576.12	217.35	8.251	
20,800.00	12,578.57	20,411.54	12,195.43	114.16	111.19	77.66	-8,185.27	-731.85	1,793.48	1,573.48	220.00	8.152	
20,900.00	12,579.44	20,511.54	12,196.31	115.51	112.54	77.66	-8,285.27	-730.99	1,793.48	1,570.83	222.65	8.055	
21,000.00	12,580.32	20,611.54	12,197.18	116.85	113.89	77.66	-8,385.26	-730.13	1,793.48	1,568.18	225.30	7.961	
21,100.00	12,581.19	20,711.54	12,198.05	118.20	115.23	77.66	-8,485.25	-729.27	1,793.48	1,565.54	227.94	7.868	
21,200.00	12,582.06	20,811.54	12,198.92	119.55	116.58	77.66	-8,585.24	-728.41	1,793.48	1,562.89	230.59	7.778	
21,300.00	12,582.94	20,911.54	12,199.79	120.89	117.93	77.66	-8,685.24	-727.55	1,793.48	1,560.24	233.24	7.689	
21,400.00	12,583.81	21,011.54	12,200.66	122.24	119.28	77.66	-8,785.23	-726.69	1,793.48	1,557.59	235.89	7.603	
21,500.00	12,584.69	21,111.54	12,201.53	123.59	120.63	77.66	-8,885.22	-725.83	1,793.48	1,554.94	238.55	7.518	
21,600.00	12,585.56	21,211.54	12,202.40	124.94	121.98	77.66	-8,985.21	-724.96	1,793.49	1,552.29	241.20	7.436	
21,700.00	12,586.43	21,311.54	12,203.27	126.29	123.34	77.66	-9,085.21	-724.10	1,793.49	1,549.64	243.85	7.355	
21,800.00	12,587.31	21,411.54	12,204.15	127.64	124.69	77.66	-9,185.20	-723.24	1,793.49	1,546.98	246.50	7.276	
21,900.00	12,588.18	21,511.54	12,205.02	128.99	126.04	77.66	-9,285.19	-722.38	1,793.49	1,544.33	249.16	7.198	
22,000.00	12,589.05	21,611.54	12,205.89	130.34	127.39	77.66	-9,385.18	-721.52	1,793.49	1,541.68	251.81	7.122	
22,100.00	12,589.93	21,711.54	12,206.76	131.70	128.75	77.66	-9,485.18	-720.66	1,793.49	1,539.02	254.47	7.048	
22,200.00	12,590.80	21,811.54	12,207.63	133.05	130.10	77.66	-9,585.17	-719.80	1,793.49	1,536.37	257.13	6.975	
22,300.00	12,591.67	21,911.54	12,208.50	134.40	131.45	77.66	-9,685.16	-718.94	1,793.49	1,533.71	259.78	6.904	
22,400.00	12,592.55	22,011.54	12,209.37	135.75	132.81	77.66	-9,785.15	-718.08	1,793.49	1,531.05	262.44	6.834	
22,500.00	12,593.42	22,111.54	12,210.24	137.11	134.16	77.66	-9,885.15	-717.22	1,793.49	1,528.40	265.10	6.765	
22,600.00	12,594.30	22,211.54	12,211.11	138.46	135.52	77.66	-9,985.14	-716.36	1,793.49	1,525.74	267.75	6.698	
22,700.00	12,595.17	22,311.54	12,211.99	139.81	136.87	77.66	-10,085.13	-715.50	1,793.50	1,523.08	270.41	6.632	
22,800.00	12,596.04	22,411.54	12,212.86	141.17	138.23	77.66	-10,185.12	-714.64	1,793.50	1,520.42	273.07	6.568	
22,807.43	12,596.11	22,418.97	12,212.92	141.27	138.33	77.66	-10,192.56	-714.57	1,793.50	1,520.23	273.27	6.563	
22,875.30	12,596.70	22,485.80	12,213.50	142.19	139.26	77.66	-10,259.37	-714.00	1,793.50	1,518.44	275.06	6.520	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 132H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	1.00	0.50	0.50	153.43	-50.00	25.00	55.91				
100.00	100.00	99.00	100.00	0.98	0.97	153.43	-50.00	25.00	55.90	53.95	1.95	28.595	
200.00	200.00	199.00	200.00	1.56	1.56	153.43	-50.00	25.00	55.90	52.79	3.12	17.939	
300.00	300.00	299.00	300.00	1.98	1.98	153.43	-50.00	25.00	55.90	51.94	3.96	14.123	
400.00	400.00	399.00	400.00	2.33	2.33	153.43	-50.00	25.00	55.90	51.25	4.66	12.008	
500.00	500.00	499.00	500.00	2.63	2.63	153.43	-50.00	25.00	55.90	50.64	5.27	10.616	
600.00	600.00	599.00	600.00	2.91	2.91	153.43	-50.00	25.00	55.90	50.08	5.82	9.609	
700.00	700.00	699.00	700.00	3.16	3.16	153.43	-50.00	25.00	55.90	49.58	6.33	8.838	
800.00	800.00	799.00	800.00	3.40	3.40	153.43	-50.00	25.00	55.90	49.10	6.80	8.222	
900.00	900.00	899.11	900.10	3.62	3.67	152.12	-49.32	26.09	55.80	48.56	7.24	7.704	
1,000.00	1,000.00	999.09	1,000.00	3.76	3.93	56.16	-47.27	29.41	55.64	48.06	7.58	7.336	
1,100.00	1,099.98	1,098.89	1,099.59	4.00	4.18	50.95	-43.84	34.93	54.85	46.86	7.99	6.862	
1,200.00	1,199.88	1,198.69	1,199.02	4.24	4.29	45.49	-39.34	42.19	53.08	44.76	8.31	6.385	
1,300.00	1,299.63	1,298.57	1,298.51	4.46	4.49	41.47	-34.75	49.59	49.87	41.15	8.72	5.718	
1,400.00	1,399.25	1,398.44	1,398.01	4.60	4.68	38.12	-30.17	56.99	45.66	36.60	9.06	5.040	
1,500.00	1,498.87	1,498.31	1,497.50	4.78	4.87	34.11	-25.58	64.39	41.61	32.17	9.44	4.408	
1,600.00	1,598.49	1,598.18	1,596.99	4.96	5.06	29.27	-20.99	71.79	37.81	27.99	9.82	3.850	
1,700.00	1,698.11	1,698.05	1,696.48	5.14	5.25	23.40	-16.40	79.18	34.34	24.13	10.21	3.363	
1,800.00	1,797.73	1,797.92	1,795.97	5.32	5.44	16.31	-11.82	86.58	31.30	20.70	10.60	2.952	
1,900.00	1,897.34	1,897.80	1,895.46	5.49	5.63	7.87	-7.23	93.98	28.84	17.84	11.00	2.621	
2,000.00	1,996.96	1,997.67	1,994.96	5.67	5.82	-1.89	-2.64	101.38	27.11	15.71	11.41	2.377	
2,100.00	2,096.58	2,097.54	2,094.45	5.85	6.01	-12.62	1.94	108.78	26.27	14.46	11.80	2.225	
2,138.22	2,134.66	2,135.71	2,132.47	5.92	6.08	-16.84	3.70	111.60	26.20	14.24	11.95	2.191	CC
2,200.00	2,196.20	2,197.41	2,193.94	6.04	6.20	-23.64	6.53	116.17	26.38	14.19	12.19	2.164	ES
2,300.00	2,295.72	2,296.85	2,292.93	6.23	6.38	-28.10	11.49	124.17	26.99	14.46	12.53	2.154	
2,400.00	2,394.97	2,396.25	2,391.70	6.43	6.57	-34.59	17.34	133.62	27.68	14.82	12.86	2.153	SF
2,500.00	2,493.89	2,495.63	2,490.26	6.64	6.76	-42.60	24.10	144.52	28.55	15.40	13.16	2.170	
2,600.00	2,592.40	2,595.02	2,588.57	6.85	6.95	-51.67	31.76	156.87	29.79	16.34	13.45	2.215	
2,700.00	2,690.45	2,694.41	2,686.62	7.07	7.14	-61.39	40.31	170.67	31.58	17.84	13.74	2.298	
2,800.00	2,787.96	2,793.81	2,784.39	7.28	7.34	-71.30	49.76	185.91	34.15	20.08	14.08	2.426	
2,900.00	2,884.87	2,893.23	2,881.85	7.49	7.54	-80.92	60.11	202.60	37.68	23.20	14.47	2.603	
3,000.00	2,981.46	2,992.90	2,979.35	7.68	7.74	-89.88	71.02	220.20	42.32	27.39	14.92	2.836	
3,100.00	3,078.05	3,092.60	3,076.87	7.87	7.94	-96.93	81.94	237.81	47.78	32.38	15.40	3.103	
3,200.00	3,174.64	3,192.29	3,174.39	8.06	8.14	-102.47	92.85	255.42	53.81	37.93	15.89	3.387	
3,300.00	3,271.24	3,291.99	3,271.91	8.26	8.34	-106.86	103.77	273.03	60.25	43.87	16.38	3.678	
3,400.00	3,367.83	3,391.69	3,369.43	8.51	8.55	-110.39	114.69	290.64	66.96	50.09	16.88	3.968	
3,500.00	3,464.42	3,491.39	3,466.95	8.80	8.76	-113.27	125.60	308.25	73.89	56.52	17.37	4.253	
3,600.00	3,561.01	3,591.08	3,564.47	9.09	8.97	-115.65	136.52	325.86	80.97	63.10	17.87	4.531	
3,700.00	3,657.60	3,690.78	3,662.00	9.38	9.19	-117.64	147.44	343.47	88.16	69.80	18.37	4.800	
3,800.00	3,754.20	3,790.48	3,759.52	9.68	9.42	-119.34	158.36	361.08	95.45	76.58	18.86	5.060	
3,900.00	3,850.79	3,890.18	3,857.04	9.98	9.65	-120.79	169.27	378.70	102.80	83.44	19.36	5.309	
4,000.00	3,947.38	3,989.87	3,954.56	10.28	9.89	-122.05	180.19	396.31	110.22	90.35	19.86	5.549	
4,100.00	4,043.97	4,089.39	4,051.92	10.59	10.10	-123.17	191.06	413.84	117.70	97.37	20.33	5.789	
4,200.00	4,140.56	4,188.30	4,148.92	10.90	10.33	-124.69	201.21	430.22	125.66	104.85	20.81	6.039	
4,300.00	4,237.16	4,286.98	4,246.03	11.21	10.56	-126.70	210.47	445.14	134.36	113.09	21.27	6.318	
4,400.00	4,333.75	4,385.37	4,343.14	11.52	10.77	-129.08	218.81	458.61	143.93	122.23	21.70	6.633	
4,500.00	4,430.34	4,483.43	4,440.17	11.84	10.97	-131.70	226.25	470.61	154.51	132.41	22.10	6.991	
4,600.00	4,526.93	4,581.09	4,537.03	12.16	11.16	-134.49	232.80	481.16	166.24	143.76	22.48	7.394	
4,700.00	4,623.53	4,678.29	4,633.64	12.48	11.34	-137.34	238.44	490.27	179.24	156.40	22.84	7.848	
4,800.00	4,720.12	4,774.99	4,729.92	12.80	11.50	-140.19	243.20	497.95	193.63	170.45	23.18	8.355	
4,900.00	4,816.71	4,871.14	4,825.79	13.12	11.65	-142.99	247.08	504.22	209.48	185.99	23.49	8.916	
5,000.00	4,913.30	4,966.69	4,921.16	13.45	11.79	-145.69	250.10	509.08	226.87	203.08	23.80	9.533	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 132H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,009.89	5,061.59	5,015.97	13.78	11.91	-148.26	252.27	512.58	245.85	221.76	24.10	10.203	
5,200.00	5,106.49	5,155.79	5,110.13	14.10	12.03	-150.69	253.60	514.73	266.45	242.07	24.37	10.932	
5,300.00	5,203.08	5,249.25	5,203.59	14.43	12.12	-152.98	254.12	515.57	288.67	264.05	24.62	11.726	
5,400.00	5,299.67	5,345.33	5,299.67	14.75	12.18	-155.12	254.13	515.58	312.08	287.23	24.85	12.561	
5,500.00	5,396.65	5,442.31	5,396.65	15.07	12.26	-157.01	254.13	515.58	334.49	309.37	25.12	13.316	
5,600.00	5,494.23	5,539.89	5,494.23	15.36	12.34	-158.50	254.13	515.58	354.78	329.39	25.40	13.970	
5,700.00	5,592.35	5,638.01	5,592.35	15.62	12.42	-159.68	254.13	515.58	372.84	347.17	25.67	14.523	
5,800.00	5,690.94	5,736.60	5,690.94	15.86	12.50	-160.61	254.13	515.58	388.59	362.64	25.95	14.976	
5,900.00	5,789.93	5,835.59	5,789.93	16.07	12.58	-161.34	254.13	515.58	401.96	375.74	26.22	15.330	
6,000.00	5,889.26	5,934.92	5,889.26	16.25	12.66	-161.91	254.13	515.58	412.91	386.42	26.49	15.589	
6,100.00	5,988.86	6,034.52	5,988.86	16.41	12.74	-162.32	254.13	515.58	421.41	394.66	26.75	15.756	
6,200.00	6,088.66	6,134.32	6,088.66	16.53	12.82	-162.61	254.13	515.58	427.43	400.43	27.00	15.833	
6,300.00	6,188.59	6,234.25	6,188.59	16.64	12.90	-162.77	254.13	515.58	430.96	403.73	27.23	15.824	
6,400.00	6,288.58	6,334.24	6,288.58	16.71	12.98	-90.39	254.13	515.58	432.01	404.61	27.40	15.768	
6,500.00	6,388.58	6,434.24	6,388.58	16.76	13.06	-90.39	254.13	515.58	432.01	404.48	27.53	15.690	
6,600.00	6,488.58	6,534.24	6,488.58	16.82	13.14	-90.39	254.13	515.58	432.01	404.34	27.67	15.612	
6,700.00	6,588.58	6,634.24	6,588.58	16.88	13.22	-90.39	254.13	515.58	432.01	404.20	27.81	15.536	
6,800.00	6,688.58	6,734.24	6,688.58	16.94	13.31	-90.39	254.13	515.58	432.01	404.07	27.94	15.459	
6,900.00	6,788.58	6,834.24	6,788.58	17.00	13.39	-90.39	254.13	515.58	432.01	403.93	28.08	15.384	
7,000.00	6,888.58	6,934.24	6,888.58	17.05	13.47	-90.39	254.13	515.58	432.01	403.79	28.22	15.309	
7,100.00	6,988.58	7,034.24	6,988.58	17.11	13.55	-90.39	254.13	515.58	432.01	403.65	28.36	15.234	
7,200.00	7,088.58	7,134.24	7,088.58	17.17	13.63	-90.39	254.13	515.58	432.01	403.51	28.50	15.160	
7,300.00	7,188.58	7,234.24	7,188.58	17.23	13.71	-90.39	254.13	515.58	432.01	403.38	28.63	15.087	
7,400.00	7,288.58	7,334.24	7,288.58	17.29	13.79	-90.39	254.13	515.58	432.01	403.24	28.77	15.015	
7,500.00	7,388.58	7,434.24	7,388.58	17.35	13.87	-90.39	254.13	515.58	432.01	403.10	28.91	14.942	
7,600.00	7,488.58	7,534.24	7,488.58	17.41	13.95	-90.39	254.13	515.58	432.01	402.96	29.05	14.871	
7,700.00	7,588.58	7,634.24	7,588.58	17.47	14.03	-90.39	254.13	515.58	432.01	402.82	29.19	14.800	
7,800.00	7,688.58	7,734.24	7,688.58	17.53	14.11	-90.39	254.13	515.58	432.01	402.68	29.33	14.730	
7,900.00	7,788.58	7,834.24	7,788.58	17.59	14.20	-90.39	254.13	515.58	432.01	402.54	29.47	14.660	
8,000.00	7,888.58	7,934.24	7,888.58	17.65	14.28	-90.39	254.13	515.58	432.01	402.40	29.61	14.590	
8,100.00	7,988.58	8,034.24	7,988.58	17.71	14.36	-90.39	254.13	515.58	432.01	402.26	29.75	14.522	
8,200.00	8,088.58	8,134.24	8,088.58	17.77	14.44	-90.39	254.13	515.58	432.01	402.12	29.89	14.453	
8,300.00	8,188.58	8,234.24	8,188.58	17.83	14.52	-90.39	254.13	515.58	432.01	401.98	30.03	14.386	
8,400.00	8,288.58	8,334.24	8,288.58	17.89	14.60	-90.39	254.13	515.58	432.01	401.84	30.17	14.319	
8,500.00	8,388.58	8,434.24	8,388.58	17.95	14.68	-90.39	254.13	515.58	432.01	401.70	30.31	14.252	
8,600.00	8,488.58	8,534.24	8,488.58	18.02	14.76	-90.39	254.13	515.58	432.01	401.56	30.45	14.186	
8,700.00	8,588.58	8,634.24	8,588.58	18.08	14.84	-90.39	254.13	515.58	432.01	401.41	30.60	14.120	
8,800.00	8,688.58	8,734.24	8,688.58	18.14	14.93	-90.39	254.13	515.58	432.01	401.27	30.74	14.055	
8,900.00	8,788.58	8,834.24	8,788.58	18.20	15.01	-90.39	254.13	515.58	432.01	401.13	30.88	13.991	
9,000.00	8,888.58	8,934.24	8,888.58	18.26	15.09	-90.39	254.13	515.58	432.01	400.99	31.02	13.927	
9,100.00	8,988.58	9,034.24	8,988.58	18.32	15.17	-90.39	254.13	515.58	432.01	400.85	31.16	13.863	
9,200.00	9,088.58	9,134.24	9,088.58	18.39	15.25	-90.39	254.13	515.58	432.01	400.70	31.31	13.800	
9,300.00	9,188.58	9,234.24	9,188.58	18.45	15.33	-90.39	254.13	515.58	432.01	400.56	31.45	13.737	
9,400.00	9,288.58	9,334.24	9,288.58	18.51	15.41	-90.39	254.13	515.58	432.01	400.42	31.59	13.675	
9,500.00	9,388.58	9,434.24	9,388.58	18.57	15.49	-90.39	254.13	515.58	432.01	400.28	31.73	13.614	
9,600.00	9,488.58	9,534.24	9,488.58	18.64	15.57	-90.39	254.13	515.58	432.01	400.13	31.88	13.552	
9,700.00	9,588.58	9,634.24	9,588.58	18.70	15.66	-90.39	254.13	515.58	432.01	399.99	32.02	13.492	
9,800.00	9,688.58	9,734.24	9,688.58	18.76	15.74	-90.39	254.13	515.58	432.01	399.85	32.16	13.432	
9,900.00	9,788.58	9,834.24	9,788.58	18.83	15.82	-90.39	254.13	515.58	432.01	399.70	32.31	13.372	
10,000.00	9,888.58	9,934.24	9,888.58	18.89	15.90	-90.39	254.13	515.58	432.01	399.56	32.45	13.313	
10,100.00	9,988.58	10,034.24	9,988.58	18.95	15.98	-90.39	254.13	515.58	432.01	399.41	32.60	13.254	
10,200.00	10,088.58	10,134.24	10,088.58	19.02	16.06	-90.39	254.13	515.58	432.01	399.27	32.74	13.195	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 132H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,188.58	10,234.24	10,188.58	19.08	16.14	-90.39	254.13	515.58	432.01	399.13	32.88	13.137	
10,400.00	10,288.58	10,334.24	10,288.58	19.15	16.22	-90.39	254.13	515.58	432.01	398.98	33.03	13.080	
10,500.00	10,388.58	10,434.24	10,388.58	19.21	16.30	-90.39	254.13	515.58	432.01	398.84	33.17	13.023	
10,600.00	10,488.58	10,534.24	10,488.58	19.27	16.39	-90.39	254.13	515.58	432.01	398.69	33.32	12.966	
10,700.00	10,588.58	10,634.24	10,588.58	19.34	16.47	-90.39	254.13	515.58	432.01	398.55	33.46	12.910	
10,800.00	10,688.58	10,734.24	10,688.58	19.40	16.55	-90.39	254.13	515.58	432.01	398.40	33.61	12.854	
10,900.00	10,788.58	10,834.24	10,788.58	19.47	16.63	-90.39	254.13	515.58	432.01	398.26	33.75	12.799	
11,000.00	10,888.58	10,934.24	10,888.58	19.53	16.71	-90.39	254.13	515.58	432.01	398.11	33.90	12.744	
11,100.00	10,988.58	11,034.24	10,988.58	19.60	16.79	-90.39	254.13	515.58	432.01	397.97	34.04	12.689	
11,200.00	11,088.58	11,134.24	11,088.58	19.66	16.87	-90.39	254.13	515.58	432.01	397.82	34.19	12.635	
11,300.00	11,188.58	11,234.24	11,188.58	19.73	16.95	-90.39	254.13	515.58	432.01	397.67	34.34	12.582	
11,400.00	11,288.58	11,334.24	11,288.58	19.79	17.04	-90.39	254.13	515.58	432.01	397.53	34.48	12.528	
11,500.00	11,388.58	11,434.24	11,388.58	19.86	17.12	-90.39	254.13	515.58	432.01	397.38	34.63	12.475	
11,600.00	11,488.58	11,534.24	11,488.58	19.92	17.20	-90.39	254.13	515.58	432.01	397.23	34.78	12.423	
11,695.30	11,583.88	11,629.55	11,583.88	19.99	17.29	-90.49	253.35	515.59	432.01	397.12	34.89	12.382	
11,700.00	11,588.58	11,634.25	11,588.56	19.99	17.29	-90.53	253.09	515.59	432.01	397.12	34.89	12.381	
11,800.00	11,688.58	11,732.02	11,685.18	20.05	17.36	-92.41	238.91	515.71	432.26	397.38	34.89	12.391	
11,900.00	11,788.58	11,822.59	11,771.34	20.12	17.42	-96.05	211.31	515.95	434.39	399.52	34.87	12.456	
12,000.00	11,888.58	11,900.00	11,840.77	20.19	17.46	-100.49	177.20	516.24	441.27	406.19	35.07	12.581	
12,100.00	11,988.51	11,972.91	11,901.41	20.25	17.51	74.28	136.80	516.59	455.27	419.68	35.59	12.792	
12,200.00	12,086.82	12,039.40	11,951.82	20.31	17.56	68.48	93.51	516.96	473.74	437.22	36.52	12.973	
12,300.00	12,180.57	12,100.00	11,993.13	20.35	17.61	63.51	49.21	517.34	494.17	456.35	37.82	13.065	
12,400.00	12,266.93	12,167.03	12,033.08	20.39	17.68	58.95	-4.56	517.81	514.63	475.47	39.16	13.143	
12,500.00	12,343.26	12,229.03	12,064.22	20.44	17.76	55.37	-58.14	518.27	533.68	493.11	40.57	13.155	
12,600.00	12,407.24	12,290.23	12,089.11	20.52	17.86	52.57	-114.01	518.75	550.15	508.29	41.87	13.140	
12,700.00	12,456.94	12,350.00	12,107.52	20.67	17.97	50.53	-170.85	519.24	563.19	520.23	42.96	13.109	
12,800.00	12,490.84	12,411.09	12,120.13	20.88	18.10	49.18	-230.59	519.75	572.19	528.42	43.77	13.072	
12,900.00	12,507.91	12,471.10	12,126.25	21.18	18.26	48.52	-290.26	520.27	576.77	532.51	44.26	13.031	
13,000.00	12,510.43	12,555.36	12,127.47	21.56	18.53	48.44	-374.50	520.99	577.33	532.82	44.51	12.971	
13,100.00	12,511.30	12,655.36	12,128.34	22.01	18.91	48.44	-474.49	521.85	577.33	532.48	44.85	12.873	
13,200.00	12,512.18	12,755.36	12,129.21	22.52	19.36	48.44	-574.48	522.71	577.33	532.05	45.28	12.749	
13,300.00	12,513.05	12,855.36	12,130.08	23.10	19.90	48.44	-674.48	523.58	577.33	531.52	45.82	12.601	
13,400.00	12,513.92	12,955.36	12,130.95	23.73	20.50	48.44	-774.47	524.44	577.33	530.89	46.44	12.432	
13,500.00	12,514.80	13,055.36	12,131.82	24.41	21.18	48.44	-874.46	525.30	577.34	530.18	47.15	12.244	
13,600.00	12,515.67	13,155.36	12,132.69	25.15	21.93	48.44	-974.45	526.16	577.34	529.38	47.95	12.040	
13,700.00	12,516.55	13,255.36	12,133.56	25.93	22.73	48.44	-1,074.45	527.02	577.34	528.51	48.83	11.823	
13,800.00	12,517.42	13,355.36	12,134.44	26.76	23.59	48.44	-1,174.44	527.88	577.34	527.56	49.78	11.597	
13,900.00	12,518.29	13,455.36	12,135.31	27.63	24.50	48.44	-1,274.43	528.74	577.34	526.53	50.81	11.362	
14,000.00	12,519.17	13,555.36	12,136.18	28.53	25.45	48.44	-1,374.42	529.60	577.34	525.44	51.91	11.123	
14,100.00	12,520.04	13,655.36	12,137.05	29.47	26.44	48.44	-1,474.42	530.46	577.34	524.28	53.06	10.880	
14,200.00	12,520.91	13,755.36	12,137.92	30.44	27.47	48.44	-1,574.41	531.32	577.35	523.07	54.28	10.636	
14,300.00	12,521.79	13,855.36	12,138.79	31.44	28.52	48.44	-1,674.40	532.19	577.35	521.80	55.55	10.393	
14,400.00	12,522.66	13,955.36	12,139.66	32.46	29.60	48.44	-1,774.39	533.05	577.35	520.47	56.88	10.151	
14,500.00	12,523.53	14,055.36	12,140.54	33.51	30.71	48.44	-1,874.39	533.91	577.35	519.10	58.25	9.912	
14,600.00	12,524.41	14,155.36	12,141.41	34.58	31.84	48.44	-1,974.38	534.77	577.35	517.69	59.67	9.676	
14,700.00	12,525.28	14,255.36	12,142.28	35.67	32.98	48.44	-2,074.37	535.63	577.35	516.23	61.13	9.445	
14,800.00	12,526.16	14,355.36	12,143.15	36.78	34.15	48.44	-2,174.36	536.49	577.36	514.73	62.62	9.220	
14,900.00	12,527.03	14,455.36	12,144.02	37.90	35.32	48.44	-2,274.36	537.35	577.36	513.20	64.16	8.999	
15,000.00	12,527.90	14,555.36	12,144.89	39.04	36.52	48.44	-2,374.35	538.21	577.36	511.63	65.72	8.785	
15,100.00	12,528.78	14,655.36	12,145.76	40.20	37.72	48.44	-2,474.34	539.07	577.36	510.04	67.32	8.576	
15,200.00	12,529.65	14,755.36	12,146.64	41.37	38.94	48.44	-2,574.33	539.93	577.36	508.41	68.95	8.373	
15,300.00	12,530.52	14,855.36	12,147.51	42.55	40.16	48.44	-2,674.33	540.80	577.36	506.76	70.61	8.177	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 132H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	12,531.40	14,955.36	12,148.38	43.74	41.40	48.44	-2,774.32	541.66	577.37	505.08	72.29	7.987	
15,500.00	12,532.27	15,055.36	12,149.25	44.94	42.64	48.44	-2,874.31	542.52	577.37	503.38	73.99	7.803	
15,600.00	12,533.14	15,155.36	12,150.12	46.15	43.89	48.44	-2,974.30	543.38	577.37	501.65	75.72	7.626	
15,700.00	12,534.02	15,255.36	12,150.99	47.37	45.15	48.44	-3,074.30	544.24	577.37	499.91	77.46	7.454	
15,800.00	12,534.89	15,355.36	12,151.86	48.59	46.41	48.44	-3,174.29	545.10	577.37	498.15	79.23	7.288	
15,900.00	12,535.76	15,455.36	12,152.74	49.83	47.69	48.44	-3,274.28	545.96	577.37	496.36	81.01	7.127	
16,000.00	12,536.64	15,555.36	12,153.61	51.07	48.96	48.44	-3,374.27	546.82	577.37	494.57	82.81	6.972	
16,100.00	12,537.51	15,655.36	12,154.48	52.32	50.24	48.44	-3,474.27	547.68	577.38	492.75	84.62	6.823	
16,200.00	12,538.39	15,755.36	12,155.35	53.57	51.53	48.44	-3,574.26	548.54	577.38	490.92	86.45	6.679	
16,300.00	12,539.26	15,855.36	12,156.22	54.83	52.82	48.44	-3,674.25	549.41	577.38	489.08	88.30	6.539	
16,400.00	12,540.13	15,955.36	12,157.09	56.09	54.11	48.44	-3,774.24	550.27	577.38	487.23	90.15	6.404	
16,500.00	12,541.01	16,055.36	12,157.96	57.36	55.41	48.44	-3,874.24	551.13	577.38	485.36	92.02	6.274	
16,600.00	12,541.88	16,155.36	12,158.84	58.64	56.71	48.44	-3,974.23	551.99	577.38	483.48	93.90	6.149	
16,700.00	12,542.75	16,255.36	12,159.71	59.91	58.02	48.44	-4,074.22	552.85	577.39	481.59	95.79	6.028	
16,800.00	12,543.63	16,355.36	12,160.58	61.20	59.32	48.44	-4,174.21	553.71	577.39	479.70	97.69	5.910	
16,900.00	12,544.50	16,455.36	12,161.45	62.48	60.63	48.44	-4,274.21	554.57	577.39	477.79	99.60	5.797	
17,000.00	12,545.37	16,555.36	12,162.32	63.77	61.95	48.44	-4,374.20	555.43	577.39	475.87	101.52	5.687	
17,100.00	12,546.25	16,655.36	12,163.19	65.06	63.26	48.44	-4,474.19	556.29	577.39	473.94	103.45	5.581	
17,200.00	12,547.12	16,755.36	12,164.06	66.36	64.58	48.44	-4,574.18	557.15	577.39	472.01	105.38	5.479	
17,300.00	12,547.99	16,855.36	12,164.94	67.66	65.90	48.44	-4,674.18	558.02	577.40	470.07	107.33	5.380	
17,400.00	12,548.87	16,955.36	12,165.81	68.96	67.22	48.44	-4,774.17	558.88	577.40	468.12	109.28	5.284	
17,500.00	12,549.74	17,055.36	12,166.68	70.26	68.54	48.44	-4,874.16	559.74	577.40	466.16	111.23	5.191	
17,600.00	12,550.62	17,155.36	12,167.55	71.57	69.87	48.44	-4,974.15	560.60	577.40	464.20	113.20	5.101	
17,700.00	12,551.49	17,255.36	12,168.42	72.88	71.20	48.44	-5,074.15	561.46	577.40	462.23	115.17	5.014	
17,800.00	12,552.36	17,355.36	12,169.29	74.19	72.53	48.44	-5,174.14	562.32	577.40	460.26	117.14	4.929	
17,900.00	12,553.24	17,455.36	12,170.16	75.50	73.86	48.44	-5,274.13	563.18	577.40	458.28	119.12	4.847	
18,000.00	12,554.11	17,555.36	12,171.03	76.81	75.19	48.44	-5,374.12	564.04	577.41	456.30	121.11	4.768	
18,100.00	12,554.98	17,655.36	12,171.91	78.13	76.52	48.44	-5,474.12	564.90	577.41	454.31	123.10	4.691	
18,200.00	12,555.86	17,755.36	12,172.78	79.45	77.85	48.43	-5,574.11	565.76	577.41	452.31	125.10	4.616	
18,300.00	12,556.73	17,855.36	12,173.65	80.77	79.19	48.43	-5,674.10	566.63	577.41	450.31	127.10	4.543	
18,400.00	12,557.60	17,955.36	12,174.52	82.09	80.53	48.43	-5,774.09	567.49	577.41	448.31	129.10	4.473	
18,500.00	12,558.48	18,055.36	12,175.39	83.42	81.87	48.43	-5,874.09	568.35	577.41	446.30	131.11	4.404	
18,600.00	12,559.35	18,155.36	12,176.26	84.74	83.20	48.43	-5,974.08	569.21	577.42	444.29	133.12	4.337	
18,700.00	12,560.23	18,255.36	12,177.13	86.07	84.54	48.43	-6,074.07	570.07	577.42	442.28	135.14	4.273	
18,800.00	12,561.10	18,355.36	12,178.01	87.40	85.88	48.43	-6,174.06	570.93	577.42	440.26	137.16	4.210	
18,900.00	12,561.97	18,455.36	12,178.88	88.72	87.23	48.43	-6,274.06	571.79	577.42	438.24	139.18	4.149	
19,000.00	12,562.85	18,555.36	12,179.75	90.05	88.57	48.43	-6,374.05	572.65	577.42	436.21	141.21	4.089	
19,100.00	12,563.72	18,655.36	12,180.62	91.39	89.91	48.43	-6,474.04	573.51	577.42	434.18	143.24	4.031	
19,200.00	12,564.59	18,755.36	12,181.49	92.72	91.26	48.43	-6,574.03	574.37	577.43	432.15	145.27	3.975	
19,300.00	12,565.47	18,855.36	12,182.36	94.05	92.60	48.43	-6,674.03	575.23	577.43	430.12	147.31	3.920	
19,400.00	12,566.34	18,955.36	12,183.23	95.39	93.95	48.43	-6,774.02	576.10	577.43	428.08	149.35	3.866	
19,500.00	12,567.21	19,055.36	12,184.11	96.72	95.29	48.43	-6,874.01	576.96	577.43	426.04	151.39	3.814	
19,600.00	12,568.09	19,155.36	12,184.98	98.06	96.64	48.43	-6,974.00	577.82	577.43	424.00	153.43	3.763	
19,700.00	12,568.96	19,255.36	12,185.85	99.40	97.99	48.43	-7,074.00	578.68	577.43	421.95	155.48	3.714	
19,800.00	12,569.83	19,355.36	12,186.72	100.73	99.34	48.43	-7,173.99	579.54	577.43	419.91	157.53	3.666	
19,900.00	12,570.71	19,455.36	12,187.59	102.07	100.69	48.43	-7,273.98	580.40	577.44	417.86	159.58	3.619	
20,000.00	12,571.58	19,555.36	12,188.46	103.41	102.04	48.43	-7,373.97	581.26	577.44	415.81	161.63	3.573	
20,100.00	12,572.46	19,655.36	12,189.33	104.75	103.39	48.43	-7,473.97	582.12	577.44	413.75	163.69	3.528	
20,200.00	12,573.33	19,755.36	12,190.21	106.10	104.74	48.43	-7,573.96	582.98	577.44	411.70	165.74	3.484	
20,300.00	12,574.20	19,855.36	12,191.08	107.44	106.09	48.43	-7,673.95	583.84	577.44	409.64	167.80	3.441	
20,400.00	12,575.08	19,955.36	12,191.95	108.78	107.44	48.43	-7,773.94	584.71	577.44	407.58	169.86	3.399	
20,500.00	12,575.95	20,055.36	12,192.82	110.12	108.79	48.43	-7,873.94	585.57	577.45	405.52	171.93	3.359	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 132H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,576.82	20,155.36	12,193.69	111.47	110.14	48.43	-7,973.93	586.43	577.45	403.46	173.99	3.319	
20,700.00	12,577.70	20,255.36	12,194.56	112.81	111.50	48.43	-8,073.92	587.29	577.45	401.39	176.06	3.280	
20,800.00	12,578.57	20,355.36	12,195.43	114.16	112.85	48.43	-8,173.91	588.15	577.45	399.33	178.12	3.242	
20,900.00	12,579.44	20,455.36	12,196.31	115.51	114.20	48.43	-8,273.91	589.01	577.45	397.26	180.19	3.205	
21,000.00	12,580.32	20,555.36	12,197.18	116.85	115.56	48.43	-8,373.90	589.87	577.45	395.19	182.26	3.168	
21,100.00	12,581.19	20,655.36	12,198.05	118.20	116.91	48.43	-8,473.89	590.73	577.46	393.12	184.34	3.133	
21,200.00	12,582.06	20,755.36	12,198.92	119.55	118.27	48.43	-8,573.88	591.59	577.46	391.05	186.41	3.098	
21,300.00	12,582.94	20,855.36	12,199.79	120.89	119.62	48.43	-8,673.88	592.45	577.46	388.97	188.49	3.064	
21,400.00	12,583.81	20,955.36	12,200.66	122.24	120.98	48.43	-8,773.87	593.32	577.46	386.90	190.56	3.030	
21,500.00	12,584.69	21,055.36	12,201.53	123.59	122.33	48.43	-8,873.86	594.18	577.46	384.82	192.64	2.998	
21,600.00	12,585.56	21,155.36	12,202.41	124.94	123.69	48.43	-8,973.85	595.04	577.46	382.74	194.72	2.966	
21,700.00	12,586.43	21,255.36	12,203.28	126.29	125.04	48.43	-9,073.85	595.90	577.46	380.67	196.80	2.934	
21,800.00	12,587.31	21,355.36	12,204.15	127.64	126.40	48.43	-9,173.84	596.76	577.47	378.59	198.88	2.904	
21,900.00	12,588.18	21,455.36	12,205.02	128.99	127.76	48.43	-9,273.83	597.62	577.47	376.51	200.96	2.874	
22,000.00	12,589.05	21,555.36	12,205.89	130.34	129.12	48.43	-9,373.82	598.48	577.47	374.42	203.05	2.844	
22,100.00	12,589.93	21,655.36	12,206.76	131.70	130.47	48.43	-9,473.82	599.34	577.47	372.34	205.13	2.815	
22,200.00	12,590.80	21,755.36	12,207.63	133.05	131.83	48.43	-9,573.81	600.20	577.47	370.26	207.22	2.787	
22,300.00	12,591.67	21,855.36	12,208.51	134.40	133.19	48.43	-9,673.80	601.06	577.47	368.17	209.30	2.759	
22,400.00	12,592.55	21,955.36	12,209.38	135.75	134.55	48.43	-9,773.79	601.93	577.48	366.09	211.39	2.732	
22,500.00	12,593.42	22,055.36	12,210.25	137.11	135.91	48.43	-9,873.79	602.79	577.48	364.00	213.48	2.705	
22,600.00	12,594.30	22,155.36	12,211.12	138.46	137.26	48.43	-9,973.78	603.65	577.48	361.91	215.57	2.679	
22,700.00	12,595.17	22,255.36	12,211.99	139.81	138.62	48.43	-10,073.77	604.51	577.48	359.82	217.66	2.653	
22,800.00	12,596.04	22,355.36	12,212.86	141.17	139.98	48.43	-10,173.76	605.37	577.48	357.73	219.75	2.628	
22,807.53	12,596.11	22,362.89	12,212.93	141.27	140.08	48.43	-10,181.29	605.43	577.48	357.58	219.91	2.626	
22,875.30	12,596.70	22,428.60	12,213.50	142.19	140.98	48.43	-10,247.00	606.00	577.49	356.22	221.27	2.610	

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 133H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	0.00	0.50	0.50	69.74	856.00	2,319.00	2,471.94				
100.00	100.00	102.00	100.00	0.98	0.99	69.74	856.00	2,319.00	2,471.94	2,469.97	1.97	1,252.804	
200.00	200.00	202.00	200.00	1.56	1.57	69.74	856.00	2,319.00	2,471.94	2,468.81	3.13	789.618	
300.00	300.00	302.00	300.00	1.98	1.99	69.74	856.00	2,319.00	2,471.94	2,467.97	3.97	622.773	
400.00	400.00	402.00	400.00	2.33	2.34	69.74	856.00	2,319.00	2,471.94	2,467.28	4.66	529.900	
500.00	500.00	502.00	500.00	2.63	2.64	69.74	856.00	2,319.00	2,471.94	2,466.67	5.27	468.656	
600.00	600.00	602.00	600.00	2.91	2.92	69.74	856.00	2,319.00	2,471.94	2,466.12	5.83	424.353	
700.00	700.00	704.23	702.23	3.16	3.17	69.74	856.00	2,319.00	2,471.94	2,465.60	6.34	390.020	
800.00	800.00	915.26	913.15	3.40	3.74	69.82	850.99	2,315.59	2,469.60	2,462.51	7.10	348.027	
900.00	900.00	1,076.99	1,074.40	3.62	4.02	69.99	840.83	2,308.69	2,463.22	2,455.65	7.57	325.347	
1,000.00	1,000.00	1,176.60	1,173.63	3.76	4.19	-21.90	833.65	2,303.81	2,456.10	2,448.22	7.88	311.689	
1,100.00	1,099.98	1,302.94	1,299.46	4.00	4.34	-21.82	824.26	2,297.42	2,447.20	2,438.95	8.25	296.493	
1,200.00	1,199.88	1,507.46	1,502.29	4.24	4.82	-21.61	802.74	2,282.80	2,432.80	2,423.89	8.91	273.163	
1,300.00	1,299.63	1,610.65	1,604.22	4.46	4.97	-21.55	789.41	2,273.73	2,413.68	2,404.39	9.29	259.897	
1,400.00	1,399.25	1,708.32	1,700.69	4.60	5.16	-21.42	776.78	2,265.15	2,393.08	2,383.46	9.62	248.791	
1,500.00	1,498.87	1,805.99	1,797.15	4.78	5.35	-21.28	764.15	2,256.56	2,372.47	2,362.48	9.99	237.437	
1,600.00	1,598.49	1,903.66	1,893.62	4.96	5.54	-21.13	751.52	2,247.97	2,351.88	2,341.51	10.37	226.887	
1,700.00	1,698.11	2,001.33	1,990.09	5.14	5.73	-20.97	738.89	2,239.39	2,331.30	2,320.56	10.74	217.060	
1,800.00	1,797.73	2,098.99	2,086.55	5.32	5.92	-20.82	726.25	2,230.80	2,310.75	2,299.63	11.12	207.886	
1,900.00	1,897.34	2,196.66	2,183.02	5.49	6.11	-20.66	713.62	2,222.22	2,290.20	2,278.71	11.49	199.303	
2,000.00	1,996.96	2,294.33	2,279.49	5.67	6.30	-20.50	700.99	2,213.63	2,269.68	2,257.81	11.87	191.255	
2,100.00	2,096.58	2,392.00	2,375.95	5.85	6.50	-20.33	688.36	2,205.05	2,249.17	2,236.93	12.24	183.696	
2,200.00	2,196.20	2,489.67	2,472.42	6.04	6.69	-20.16	675.73	2,196.46	2,228.68	2,216.06	12.63	176.488	
2,300.00	2,295.72	2,587.07	2,568.62	6.23	6.88	-13.66	663.14	2,187.90	2,207.04	2,194.02	13.02	169.523	
2,400.00	2,394.97	2,683.85	2,664.21	6.43	7.07	-9.19	650.62	2,179.39	2,182.91	2,169.48	13.43	162.583	
2,500.00	2,493.89	2,779.95	2,759.13	6.64	7.26	-6.01	638.19	2,170.94	2,156.29	2,142.46	13.84	155.851	
2,600.00	2,592.40	2,875.29	2,853.30	6.85	7.45	-3.61	625.86	2,162.56	2,127.23	2,112.98	14.24	149.336	
2,700.00	2,690.45	2,969.82	2,946.67	7.07	7.65	-1.68	613.64	2,154.25	2,095.73	2,081.08	14.65	143.007	
2,800.00	2,787.96	3,063.47	3,039.17	7.28	7.86	-0.08	601.52	2,146.02	2,061.84	2,046.77	15.06	136.901	
2,900.00	2,884.87	3,156.18	3,130.73	7.49	8.07	1.29	589.54	2,137.87	2,025.57	2,010.10	15.47	130.977	
3,000.00	2,981.46	3,248.40	3,221.82	7.68	8.27	1.60	577.61	2,129.77	1,988.18	1,972.34	15.84	125.496	
3,100.00	3,078.05	3,340.63	3,312.91	7.87	8.48	1.91	565.68	2,121.66	1,950.84	1,934.62	16.22	120.253	
3,200.00	3,174.64	3,432.85	3,404.00	8.06	8.68	2.23	553.75	2,113.55	1,913.56	1,896.95	16.61	115.235	
3,300.00	3,271.24	3,525.07	3,495.09	8.26	8.89	2.57	541.83	2,105.44	1,876.33	1,859.34	16.99	110.431	
3,400.00	3,367.83	3,617.30	3,586.18	8.51	9.10	2.92	529.90	2,097.34	1,839.16	1,821.78	17.38	105.829	
3,500.00	3,464.42	3,709.52	3,677.27	8.80	9.31	3.29	517.97	2,089.23	1,802.05	1,784.29	17.77	101.419	
3,600.00	3,561.01	3,801.75	3,768.36	9.09	9.51	3.67	506.05	2,081.12	1,765.01	1,746.85	18.16	97.190	
3,700.00	3,657.60	3,893.97	3,859.45	9.38	9.72	4.06	494.12	2,073.02	1,728.04	1,709.49	18.55	93.133	
3,800.00	3,754.20	3,986.20	3,950.54	9.68	9.93	4.48	482.19	2,064.91	1,691.15	1,672.20	18.95	89.238	
3,900.00	3,850.79	4,078.42	4,041.63	9.98	10.14	4.91	470.27	2,056.80	1,654.34	1,634.99	19.35	85.498	
4,000.00	3,947.38	4,170.64	4,132.72	10.28	10.35	5.36	458.34	2,048.70	1,617.61	1,597.86	19.75	81.904	
4,100.00	4,043.97	4,262.87	4,223.81	10.59	10.56	5.83	446.41	2,040.59	1,580.98	1,560.82	20.15	78.450	
4,200.00	4,140.56	4,355.09	4,314.90	10.90	10.76	6.33	434.49	2,032.48	1,544.44	1,523.88	20.56	75.128	
4,300.00	4,237.16	4,447.32	4,405.99	11.21	10.97	6.84	422.56	2,024.37	1,508.01	1,487.05	20.96	71.931	
4,400.00	4,333.75	4,539.54	4,497.08	11.52	11.18	7.38	410.63	2,016.27	1,471.70	1,450.32	21.37	68.854	
4,500.00	4,430.34	4,631.76	4,588.16	11.84	11.39	7.95	398.71	2,008.16	1,435.50	1,413.72	21.79	65.892	
4,600.00	4,526.93	4,723.99	4,679.25	12.16	11.60	8.55	386.78	2,000.05	1,399.44	1,377.24	22.20	63.037	
4,700.00	4,623.53	4,816.21	4,770.34	12.48	11.81	9.18	374.85	1,991.95	1,363.52	1,340.91	22.62	60.287	
4,800.00	4,720.12	4,908.44	4,861.43	12.80	12.02	9.84	362.93	1,983.84	1,327.76	1,304.72	23.04	57.635	
4,900.00	4,816.71	5,000.66	4,952.52	13.12	12.23	10.54	351.00	1,975.73	1,292.16	1,268.70	23.46	55.079	
5,000.00	4,913.30	5,092.88	5,043.61	13.45	12.44	11.27	339.07	1,967.63	1,256.75	1,232.86	23.89	52.612	
5,100.00	5,009.89	5,185.11	5,134.70	13.78	12.65	12.05	327.15	1,959.52	1,221.53	1,197.21	24.32	50.233	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 133H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,106.49	5,277.33	5,225.79	14.10	12.86	12.87	315.22	1,951.41	1,186.52	1,161.77	24.75	47.937	
5,300.00	5,203.08	5,369.56	5,316.88	14.43	13.06	13.74	303.29	1,943.31	1,151.75	1,126.57	25.18	45.746	
5,400.00	5,299.67	5,448.21	5,394.68	14.75	13.21	14.48	293.72	1,936.80	1,117.78	1,092.19	25.59	43.683	
5,500.00	5,396.65	5,527.85	5,473.67	15.07	13.37	15.06	285.38	1,931.13	1,086.63	1,060.60	26.03	41.749	
5,600.00	5,494.23	5,609.25	5,554.62	15.36	13.52	15.59	278.26	1,926.29	1,059.31	1,032.86	26.45	40.049	
5,700.00	5,592.35	5,692.21	5,637.28	15.62	13.66	16.05	272.47	1,922.36	1,035.81	1,008.96	26.85	38.574	
5,800.00	5,690.94	5,776.51	5,721.41	15.86	13.77	16.43	268.12	1,919.40	1,016.14	988.91	27.23	37.316	
5,900.00	5,789.93	5,861.91	5,806.74	16.07	13.87	16.72	265.27	1,917.46	1,000.27	972.69	27.58	36.266	
6,000.00	5,889.26	5,948.16	5,892.97	16.25	13.94	16.91	264.00	1,916.60	988.21	960.33	27.88	35.449	
6,100.00	5,988.86	6,044.05	5,988.86	16.41	13.96	17.02	263.93	1,916.55	979.62	951.52	28.10	34.863	
6,200.00	6,088.66	6,143.84	6,088.66	16.53	13.99	17.11	263.93	1,916.55	973.58	945.27	28.31	34.388	
6,300.00	6,188.59	6,243.77	6,188.59	16.64	14.03	17.15	263.93	1,916.55	970.04	941.53	28.51	34.027	
6,400.00	6,288.58	6,343.76	6,288.58	16.71	14.06	89.59	263.93	1,916.55	968.99	940.37	28.63	33.848	
6,500.00	6,388.58	6,443.76	6,388.58	16.76	14.09	89.59	263.93	1,916.55	968.99	940.27	28.72	33.740	
6,600.00	6,488.58	6,543.76	6,488.58	16.82	14.13	89.59	263.93	1,916.55	968.99	940.18	28.81	33.632	
6,700.00	6,588.58	6,643.76	6,588.58	16.88	14.16	89.59	263.93	1,916.55	968.99	940.09	28.91	33.523	
6,800.00	6,688.58	6,743.76	6,688.58	16.94	14.20	89.59	263.93	1,916.55	968.99	940.00	29.00	33.415	
6,900.00	6,788.58	6,843.76	6,788.58	17.00	14.24	89.59	263.93	1,916.55	968.99	939.90	29.09	33.306	
7,000.00	6,888.58	6,943.76	6,888.58	17.05	14.27	89.59	263.93	1,916.55	968.99	939.81	29.19	33.198	
7,100.00	6,988.58	7,043.76	6,988.58	17.11	14.31	89.59	263.93	1,916.55	968.99	939.71	29.28	33.089	
7,200.00	7,088.58	7,143.76	7,088.58	17.17	14.35	89.59	263.93	1,916.55	968.99	939.61	29.38	32.981	
7,300.00	7,188.58	7,243.76	7,188.58	17.23	14.38	89.59	263.93	1,916.55	968.99	939.52	29.48	32.873	
7,400.00	7,288.58	7,343.76	7,288.58	17.29	14.42	89.59	263.93	1,916.55	968.99	939.42	29.57	32.765	
7,500.00	7,388.58	7,443.76	7,388.58	17.35	14.46	89.59	263.93	1,916.55	968.99	939.32	29.67	32.657	
7,600.00	7,488.58	7,543.76	7,488.58	17.41	14.50	89.59	263.93	1,916.55	968.99	939.22	29.77	32.549	
7,700.00	7,588.58	7,643.76	7,588.58	17.47	14.54	89.59	263.93	1,916.55	968.99	939.12	29.87	32.441	
7,800.00	7,688.58	7,743.76	7,688.58	17.53	14.58	89.59	263.93	1,916.55	968.99	939.03	29.97	32.333	
7,900.00	7,788.58	7,843.76	7,788.58	17.59	14.62	89.59	263.93	1,916.55	968.99	938.92	30.07	32.225	
8,000.00	7,888.58	7,943.76	7,888.58	17.65	14.66	89.59	263.93	1,916.55	968.99	938.82	30.17	32.118	
8,100.00	7,988.58	8,043.76	7,988.58	17.71	14.70	89.59	263.93	1,916.55	968.99	938.72	30.27	32.010	
8,200.00	8,088.58	8,143.76	8,088.58	17.77	14.74	89.59	263.93	1,916.55	968.99	938.62	30.37	31.903	
8,300.00	8,188.58	8,243.76	8,188.58	17.83	14.78	89.59	263.93	1,916.55	968.99	938.52	30.48	31.796	
8,400.00	8,288.58	8,343.76	8,288.58	17.89	14.82	89.59	263.93	1,916.55	968.99	938.42	30.58	31.689	
8,500.00	8,388.58	8,443.76	8,388.58	17.95	14.86	89.59	263.93	1,916.55	968.99	938.31	30.68	31.583	
8,600.00	8,488.58	8,543.76	8,488.58	18.02	14.90	89.59	263.93	1,916.55	968.99	938.21	30.78	31.476	
8,700.00	8,588.58	8,643.76	8,588.58	18.08	14.95	89.59	263.93	1,916.55	968.99	938.11	30.89	31.370	
8,800.00	8,688.58	8,743.76	8,688.58	18.14	14.99	89.59	263.93	1,916.55	968.99	938.00	30.99	31.264	
8,900.00	8,788.58	8,843.76	8,788.58	18.20	15.03	89.59	263.93	1,916.55	968.99	937.90	31.10	31.158	
9,000.00	8,888.58	8,943.76	8,888.58	18.26	15.08	89.59	263.93	1,916.55	968.99	937.79	31.20	31.053	
9,100.00	8,988.58	9,043.76	8,988.58	18.32	15.12	89.59	263.93	1,916.55	968.99	937.68	31.31	30.947	
9,200.00	9,088.58	9,143.76	9,088.58	18.39	15.17	89.59	263.93	1,916.55	968.99	937.58	31.42	30.842	
9,300.00	9,188.58	9,243.76	9,188.58	18.45	15.21	89.59	263.93	1,916.55	968.99	937.47	31.53	30.737	
9,400.00	9,288.58	9,343.76	9,288.58	18.51	15.26	89.59	263.93	1,916.55	968.99	937.36	31.63	30.633	
9,500.00	9,388.58	9,443.76	9,388.58	18.57	15.30	89.59	263.93	1,916.55	968.99	937.25	31.74	30.528	
9,600.00	9,488.58	9,543.76	9,488.58	18.64	15.35	89.59	263.93	1,916.55	968.99	937.14	31.85	30.424	
9,700.00	9,588.58	9,643.76	9,588.58	18.70	15.39	89.59	263.93	1,916.55	968.99	937.04	31.96	30.320	
9,800.00	9,688.58	9,743.76	9,688.58	18.76	15.44	89.59	263.93	1,916.55	968.99	936.93	32.07	30.217	
9,900.00	9,788.58	9,843.76	9,788.58	18.83	15.49	89.59	263.93	1,916.55	968.99	936.82	32.18	30.114	
10,000.00	9,888.58	9,943.76	9,888.58	18.89	15.53	89.59	263.93	1,916.55	968.99	936.71	32.29	30.011	
10,100.00	9,988.58	10,043.76	9,988.58	18.95	15.58	89.59	263.93	1,916.55	968.99	936.60	32.40	29.908	
10,200.00	10,088.58	10,143.76	10,088.58	19.02	15.63	89.59	263.93	1,916.55	968.99	936.48	32.51	29.805	
10,300.00	10,188.58	10,243.76	10,188.58	19.08	15.68	89.59	263.93	1,916.55	968.99	936.37	32.62	29.703	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 133H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,400.00	10,288.58	10,343.76	10,288.58	19.15	15.73	89.59	263.93	1,916.55	968.99	936.26	32.73	29.602	
10,500.00	10,388.58	10,443.76	10,388.58	19.21	15.77	89.59	263.93	1,916.55	968.99	936.15	32.85	29.500	
10,600.00	10,488.58	10,543.76	10,488.58	19.27	15.82	89.59	263.93	1,916.55	968.99	936.03	32.96	29.399	
10,700.00	10,588.58	10,643.76	10,588.58	19.34	15.87	89.59	263.93	1,916.55	968.99	935.92	33.07	29.298	
10,800.00	10,688.58	10,743.76	10,688.58	19.40	15.92	89.59	263.93	1,916.55	968.99	935.81	33.19	29.198	
10,900.00	10,788.58	10,843.76	10,788.58	19.47	15.97	89.59	263.93	1,916.55	968.99	935.69	33.30	29.098	
11,000.00	10,888.58	10,943.76	10,888.58	19.53	16.02	89.59	263.93	1,916.55	968.99	935.58	33.42	28.998	
11,100.00	10,988.58	11,043.76	10,988.58	19.60	16.07	89.59	263.93	1,916.55	968.99	935.46	33.53	28.898	
11,200.00	11,088.58	11,143.76	11,088.58	19.66	16.12	89.59	263.93	1,916.55	968.99	935.35	33.65	28.799	
11,300.00	11,188.58	11,243.76	11,188.58	19.73	16.18	89.59	263.93	1,916.55	968.99	935.23	33.76	28.700	
11,400.00	11,288.58	11,343.76	11,288.58	19.79	16.23	89.59	263.93	1,916.55	968.99	935.12	33.88	28.602	
11,500.00	11,388.58	11,443.76	11,388.58	19.86	16.28	89.59	263.93	1,916.55	968.99	935.00	34.00	28.504	
11,600.00	11,488.58	11,543.76	11,488.58	19.92	16.32	89.59	263.93	1,916.55	968.99	934.89	34.10	28.416	
11,700.00	11,588.58	11,649.05	11,593.41	19.99	16.47	90.08	255.76	1,916.30	968.73	934.49	34.25	28.286	
11,800.00	11,688.58	11,748.69	11,689.68	20.05	16.71	91.57	230.58	1,915.53	968.31	933.79	34.52	28.047	
11,809.52	11,698.09	11,757.65	11,698.09	20.06	16.74	91.75	227.50	1,915.44	968.31	933.75	34.56	28.019	CC
11,900.00	11,788.58	11,837.41	11,770.59	20.12	16.98	93.71	194.42	1,914.43	969.04	934.13	34.91	27.756	
12,000.00	11,888.58	11,913.43	11,834.78	20.19	17.27	96.10	153.82	1,913.19	972.60	937.20	35.40	27.474	
12,100.00	11,988.51	11,978.36	11,884.95	20.25	17.57	-80.62	112.68	1,911.93	980.22	944.27	35.95	27.264	
12,200.00	12,086.82	12,040.05	11,928.01	20.31	17.91	-77.55	68.57	1,910.58	990.29	953.72	36.57	27.077	
12,300.00	12,180.57	12,100.00	11,965.08	20.35	18.29	-74.67	21.51	1,909.14	1,001.49	964.22	37.27	26.872	
12,400.00	12,266.93	12,159.18	11,996.66	20.39	18.73	-72.04	-28.50	1,907.62	1,012.80	974.76	38.04	26.625	
12,500.00	12,343.26	12,217.33	12,022.50	20.44	19.20	-69.77	-80.53	1,906.03	1,023.31	984.45	38.87	26.328	
12,600.00	12,407.24	12,274.85	12,042.73	20.52	19.70	-67.90	-134.33	1,904.38	1,032.25	992.51	39.74	25.974	
12,700.00	12,456.94	12,331.91	12,057.38	20.67	20.23	-66.48	-189.43	1,902.70	1,038.99	998.34	40.65	25.560	
12,800.00	12,490.84	12,388.66	12,066.44	20.88	20.78	-65.53	-245.39	1,900.99	1,043.04	1,001.47	41.57	25.090	
12,900.00	12,507.91	12,448.18	12,069.94	21.18	21.38	-65.06	-304.76	1,899.17	1,044.11	1,001.60	42.51	24.561	
13,000.00	12,510.43	12,519.34	12,070.44	21.56	22.12	-65.02	-375.90	1,897.89	1,042.38	998.89	43.48	23.973	
13,055.07	12,510.91	12,561.66	12,070.74	21.80	22.57	-65.01	-418.22	1,897.96	1,042.06	997.99	44.08	23.641	
13,100.00	12,511.30	12,605.38	12,071.04	22.01	23.03	-65.01	-461.94	1,898.35	1,042.12	997.49	44.63	23.352	
13,200.00	12,512.18	12,705.38	12,071.74	22.52	24.12	-65.00	-561.94	1,899.26	1,042.23	996.27	45.96	22.678	
13,300.00	12,513.05	12,805.38	12,072.44	23.10	25.23	-64.99	-661.93	1,900.17	1,042.35	994.96	47.38	21.998	
13,400.00	12,513.92	12,905.38	12,073.14	23.73	26.37	-64.99	-761.92	1,901.07	1,042.46	993.57	48.89	21.320	
13,500.00	12,514.80	13,005.38	12,073.83	24.41	27.53	-64.98	-861.92	1,901.98	1,042.58	992.09	50.49	20.651	
13,600.00	12,515.67	13,105.38	12,074.53	25.15	28.71	-64.97	-961.91	1,902.89	1,042.69	990.54	52.15	19.995	
13,700.00	12,516.55	13,205.38	12,075.23	25.93	29.90	-64.96	-1,061.90	1,903.79	1,042.81	988.93	53.88	19.355	
13,800.00	12,517.42	13,305.38	12,075.93	26.76	31.11	-64.96	-1,161.90	1,904.70	1,042.92	987.26	55.67	18.735	
13,900.00	12,518.29	13,405.38	12,076.63	27.63	32.33	-64.95	-1,261.89	1,905.61	1,043.04	985.53	57.51	18.137	
14,000.00	12,519.17	13,505.38	12,077.33	28.53	33.56	-64.94	-1,361.88	1,906.51	1,043.16	983.76	59.40	17.562	
14,100.00	12,520.04	13,605.38	12,078.02	29.47	34.80	-64.93	-1,461.88	1,907.42	1,043.27	981.93	61.34	17.009	
14,200.00	12,520.91	13,705.38	12,078.72	30.44	36.05	-64.92	-1,561.87	1,908.33	1,043.39	980.07	63.31	16.480	
14,300.00	12,521.79	13,805.38	12,079.42	31.44	37.30	-64.92	-1,661.86	1,909.23	1,043.50	978.17	65.33	15.973	
14,400.00	12,522.66	13,905.38	12,080.12	32.46	38.57	-64.91	-1,761.86	1,910.14	1,043.62	976.24	67.38	15.490	
14,500.00	12,523.53	14,005.38	12,080.82	33.51	39.84	-64.90	-1,861.85	1,911.05	1,043.73	974.28	69.45	15.028	
14,600.00	12,524.41	14,105.38	12,081.52	34.58	41.12	-64.89	-1,961.84	1,911.96	1,043.85	972.29	71.56	14.587	
14,700.00	12,525.28	14,205.38	12,082.21	35.67	42.40	-64.89	-2,061.84	1,912.86	1,043.97	970.27	73.69	14.167	
14,800.00	12,526.16	14,305.38	12,082.91	36.78	43.69	-64.88	-2,161.83	1,913.77	1,044.08	968.23	75.85	13.766	
14,900.00	12,527.03	14,405.38	12,083.61	37.90	44.98	-64.87	-2,261.82	1,914.68	1,044.20	966.17	78.02	13.383	
15,000.00	12,527.90	14,505.38	12,084.31	39.04	46.28	-64.86	-2,361.81	1,915.58	1,044.31	964.09	80.22	13.018	
15,100.00	12,528.78	14,605.38	12,085.01	40.20	47.58	-64.86	-2,461.81	1,916.49	1,044.43	962.00	82.43	12.670	
15,200.00	12,529.65	14,705.38	12,085.70	41.37	48.88	-64.85	-2,561.80	1,917.40	1,044.54	959.88	84.66	12.338	
15,300.00	12,530.52	14,805.38	12,086.40	42.55	50.19	-64.84	-2,661.79	1,918.30	1,044.66	957.75	86.91	12.020	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 133H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	12,531.40	14,905.38	12,087.10	43.74	51.50	-64.83	-2,761.79	1,919.21	1,044.78	955.61	89.17	11.717	
15,500.00	12,532.27	15,005.38	12,087.80	44.94	52.82	-64.83	-2,861.78	1,920.12	1,044.89	953.45	91.44	11.427	
15,600.00	12,533.14	15,105.38	12,088.50	46.15	54.13	-64.82	-2,961.77	1,921.02	1,045.01	951.29	93.72	11.150	
15,700.00	12,534.02	15,205.38	12,089.20	47.37	55.45	-64.81	-3,061.77	1,921.93	1,045.12	949.11	96.02	10.885	
15,800.00	12,534.89	15,305.38	12,089.89	48.59	56.77	-64.80	-3,161.76	1,922.84	1,045.24	946.92	98.32	10.631	
15,900.00	12,535.76	15,405.38	12,090.59	49.83	58.10	-64.79	-3,261.75	1,923.74	1,045.36	944.72	100.64	10.387	
16,000.00	12,536.64	15,505.38	12,091.29	51.07	59.42	-64.79	-3,361.75	1,924.65	1,045.47	942.51	102.96	10.154	
16,100.00	12,537.51	15,605.38	12,091.99	52.32	60.75	-64.78	-3,461.74	1,925.56	1,045.59	940.30	105.29	9.930	
16,200.00	12,538.39	15,705.38	12,092.69	53.57	62.08	-64.77	-3,561.73	1,926.46	1,045.70	938.07	107.63	9.716	
16,300.00	12,539.26	15,805.38	12,093.39	54.83	63.41	-64.76	-3,661.73	1,927.37	1,045.82	935.84	109.98	9.509	
16,400.00	12,540.13	15,905.38	12,094.08	56.09	64.74	-64.76	-3,761.72	1,928.28	1,045.94	933.61	112.33	9.311	
16,500.00	12,541.01	16,005.38	12,094.78	57.36	66.08	-64.75	-3,861.71	1,929.18	1,046.05	931.36	114.69	9.121	
16,600.00	12,541.88	16,105.38	12,095.48	58.64	67.41	-64.74	-3,961.71	1,930.09	1,046.17	929.11	117.05	8.937	
16,700.00	12,542.75	16,205.38	12,096.18	59.91	68.75	-64.73	-4,061.70	1,931.00	1,046.28	926.86	119.42	8.761	
16,800.00	12,543.63	16,305.38	12,096.88	61.20	70.09	-64.73	-4,161.69	1,931.90	1,046.40	924.60	121.80	8.591	
16,900.00	12,544.50	16,405.38	12,097.58	62.48	71.43	-64.72	-4,261.69	1,932.81	1,046.52	922.34	124.18	8.427	
17,000.00	12,545.37	16,505.38	12,098.27	63.77	72.77	-64.71	-4,361.68	1,933.72	1,046.63	920.07	126.57	8.269	
17,100.00	12,546.25	16,605.38	12,098.97	65.06	74.11	-64.70	-4,461.67	1,934.63	1,046.75	917.79	128.95	8.117	
17,200.00	12,547.12	16,705.38	12,099.67	66.36	75.45	-64.70	-4,561.67	1,935.53	1,046.86	915.52	131.35	7.970	
17,300.00	12,547.99	16,805.38	12,100.37	67.66	76.79	-64.69	-4,661.66	1,936.44	1,046.98	913.24	133.74	7.828	
17,400.00	12,548.87	16,905.38	12,101.07	68.96	78.14	-64.68	-4,761.65	1,937.35	1,047.10	910.95	136.15	7.691	
17,500.00	12,549.74	17,005.38	12,101.76	70.26	79.48	-64.67	-4,861.65	1,938.25	1,047.21	908.66	138.55	7.558	
17,600.00	12,550.62	17,105.38	12,102.46	71.57	80.83	-64.67	-4,961.64	1,939.16	1,047.33	906.37	140.96	7.430	
17,700.00	12,551.49	17,205.38	12,103.16	72.88	82.18	-64.66	-5,061.63	1,940.07	1,047.45	904.08	143.37	7.306	
17,800.00	12,552.36	17,305.38	12,103.86	74.19	83.52	-64.65	-5,161.63	1,940.97	1,047.56	901.78	145.78	7.186	
17,900.00	12,553.24	17,405.38	12,104.56	75.50	84.87	-64.64	-5,261.62	1,941.88	1,047.68	899.48	148.19	7.070	
18,000.00	12,554.11	17,505.38	12,105.26	76.81	86.22	-64.63	-5,361.61	1,942.79	1,047.79	897.18	150.61	6.957	
18,100.00	12,554.98	17,605.38	12,105.95	78.13	87.57	-64.63	-5,461.61	1,943.69	1,047.91	894.88	153.03	6.848	
18,200.00	12,555.86	17,705.38	12,106.65	79.45	88.92	-64.62	-5,561.60	1,944.60	1,048.03	892.57	155.45	6.742	
18,300.00	12,556.73	17,805.38	12,107.35	80.77	90.27	-64.61	-5,661.59	1,945.51	1,048.14	890.27	157.88	6.639	
18,400.00	12,557.60	17,905.38	12,108.05	82.09	91.62	-64.60	-5,761.59	1,946.41	1,048.26	887.95	160.31	6.539	
18,500.00	12,558.48	18,005.38	12,108.75	83.42	92.97	-64.60	-5,861.58	1,947.32	1,048.38	885.64	162.73	6.442	
18,600.00	12,559.35	18,105.38	12,109.45	84.74	94.33	-64.59	-5,961.57	1,948.23	1,048.49	883.33	165.16	6.348	
18,700.00	12,560.23	18,205.38	12,110.14	86.07	95.68	-64.58	-6,061.57	1,949.13	1,048.61	881.01	167.60	6.257	
18,800.00	12,561.10	18,305.37	12,110.84	87.40	97.03	-64.57	-6,161.56	1,950.04	1,048.73	878.70	170.03	6.168	
18,900.00	12,561.97	18,405.37	12,111.54	88.72	98.38	-64.57	-6,261.55	1,950.95	1,048.84	876.38	172.47	6.081	
19,000.00	12,562.85	18,505.37	12,112.24	90.05	99.74	-64.56	-6,361.55	1,951.85	1,048.96	874.06	174.90	5.997	
19,100.00	12,563.72	18,605.37	12,112.94	91.39	101.09	-64.55	-6,461.54	1,952.76	1,049.08	871.74	177.34	5.916	
19,200.00	12,564.59	18,705.37	12,113.63	92.72	102.45	-64.54	-6,561.53	1,953.67	1,049.19	869.41	179.78	5.836	
19,300.00	12,565.47	18,805.37	12,114.33	94.05	103.80	-64.54	-6,661.53	1,954.58	1,049.31	867.09	182.22	5.758	
19,400.00	12,566.34	18,905.37	12,115.03	95.39	105.16	-64.53	-6,761.52	1,955.48	1,049.43	864.76	184.66	5.683	
19,500.00	12,567.21	19,005.37	12,115.73	96.72	106.51	-64.52	-6,861.51	1,956.39	1,049.54	862.44	187.11	5.609	
19,600.00	12,568.09	19,105.37	12,116.43	98.06	107.87	-64.51	-6,961.51	1,957.30	1,049.66	860.11	189.55	5.538	
19,700.00	12,568.96	19,205.37	12,117.13	99.40	109.23	-64.51	-7,061.50	1,958.20	1,049.78	857.78	192.00	5.468	
19,800.00	12,569.83	19,305.37	12,117.82	100.73	110.58	-64.50	-7,161.49	1,959.11	1,049.89	855.45	194.44	5.400	
19,900.00	12,570.71	19,405.37	12,118.52	102.07	111.94	-64.49	-7,261.49	1,960.02	1,050.01	853.12	196.89	5.333	
20,000.00	12,571.58	19,505.37	12,119.22	103.41	113.30	-64.48	-7,361.48	1,960.92	1,050.13	850.79	199.34	5.268	
20,100.00	12,572.46	19,605.37	12,119.92	104.75	114.66	-64.48	-7,461.47	1,961.83	1,050.24	848.46	201.79	5.205	
20,200.00	12,573.33	19,705.37	12,120.62	106.10	116.01	-64.47	-7,561.47	1,962.74	1,050.36	846.12	204.24	5.143	
20,300.00	12,574.20	19,805.37	12,121.32	107.44	117.37	-64.46	-7,661.46	1,963.64	1,050.48	843.79	206.69	5.082	
20,400.00	12,575.08	19,905.37	12,122.01	108.78	118.73	-64.45	-7,761.45	1,964.55	1,050.59	841.46	209.14	5.023	
20,500.00	12,575.95	20,005.37	12,122.71	110.12	120.09	-64.45	-7,861.45	1,965.46	1,050.71	839.12	211.59	4.966	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 133H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,576.82	20,105.37	12,123.41	111.47	121.45	-64.44	-7,961.44	1,966.36	1,050.83	836.78	214.04	4.909	
20,700.00	12,577.70	20,205.37	12,124.11	112.81	122.81	-64.43	-8,061.43	1,967.27	1,050.94	834.45	216.50	4.854	
20,800.00	12,578.57	20,305.37	12,124.81	114.16	124.17	-64.42	-8,161.43	1,968.18	1,051.06	832.11	218.95	4.800	
20,900.00	12,579.44	20,405.37	12,125.50	115.51	125.53	-64.42	-8,261.42	1,969.08	1,051.18	829.77	221.40	4.748	
21,000.00	12,580.32	20,505.37	12,126.20	116.85	126.89	-64.41	-8,361.41	1,969.99	1,051.29	827.44	223.86	4.696	
21,100.00	12,581.19	20,605.37	12,126.90	118.20	128.25	-64.40	-8,461.41	1,970.90	1,051.41	825.10	226.31	4.646	
21,200.00	12,582.06	20,705.37	12,127.60	119.55	129.61	-64.39	-8,561.40	1,971.80	1,051.53	822.76	228.77	4.596	
21,300.00	12,582.94	20,805.37	12,128.30	120.89	130.97	-64.39	-8,661.39	1,972.71	1,051.64	820.42	231.23	4.548	
21,400.00	12,583.81	20,905.37	12,129.00	122.24	132.33	-64.38	-8,761.39	1,973.62	1,051.76	818.08	233.68	4.501	
21,500.00	12,584.69	21,005.37	12,129.69	123.59	133.69	-64.37	-8,861.38	1,974.52	1,051.88	815.74	236.14	4.454	
21,600.00	12,585.56	21,105.37	12,130.39	124.94	135.05	-64.36	-8,961.37	1,975.43	1,052.00	813.40	238.60	4.409	
21,700.00	12,586.43	21,205.37	12,131.09	126.29	136.41	-64.35	-9,061.37	1,976.34	1,052.11	811.06	241.06	4.365	
21,800.00	12,587.31	21,305.37	12,131.79	127.64	137.77	-64.35	-9,161.36	1,977.25	1,052.23	808.71	243.52	4.321	
21,900.00	12,588.18	21,405.37	12,132.49	128.99	139.14	-64.34	-9,261.35	1,978.15	1,052.35	806.37	245.97	4.278	
22,000.00	12,589.05	21,505.37	12,133.19	130.34	140.50	-64.33	-9,361.35	1,979.06	1,052.46	804.03	248.43	4.236	
22,100.00	12,589.93	21,605.37	12,133.88	131.70	141.86	-64.32	-9,461.34	1,979.97	1,052.58	801.69	250.89	4.195	
22,200.00	12,590.80	21,705.37	12,134.58	133.05	143.22	-64.32	-9,561.33	1,980.87	1,052.70	799.35	253.35	4.155	
22,300.00	12,591.67	21,805.37	12,135.28	134.40	144.58	-64.31	-9,661.33	1,981.78	1,052.82	797.00	255.81	4.116	
22,400.00	12,592.55	21,905.37	12,135.98	135.75	145.95	-64.30	-9,761.32	1,982.69	1,052.93	794.66	258.27	4.077	
22,500.00	12,593.42	22,005.37	12,136.68	137.11	147.31	-64.29	-9,861.31	1,983.59	1,053.05	792.32	260.73	4.039	
22,600.00	12,594.30	22,105.37	12,137.38	138.46	148.67	-64.29	-9,961.30	1,984.50	1,053.17	789.97	263.19	4.001	
22,700.00	12,595.17	22,205.37	12,138.07	139.81	150.03	-64.28	-10,061.30	1,985.41	1,053.28	787.63	265.65	3.965	
22,800.00	12,596.04	22,305.37	12,138.77	141.17	151.40	-64.27	-10,161.29	1,986.31	1,053.40	785.29	268.12	3.929	
22,875.30	12,596.70	22,380.67	12,139.30	142.19	152.42	-64.27	-10,236.59	1,987.00	1,053.49	783.52	269.97	3.902	ES, SF

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

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 134H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.50	0.50	73.29	696.00	2,319.00	2,421.19				
100.00	100.00	100.00	100.00	0.98	0.98	73.29	696.00	2,319.00	2,421.19	2,419.23	1.96	1,233.928	
200.00	200.00	200.00	200.00	1.56	1.56	73.29	696.00	2,319.00	2,421.19	2,418.07	3.12	775.464	
300.00	300.00	300.00	300.00	1.98	1.98	73.29	696.00	2,319.00	2,421.19	2,417.23	3.96	611.055	
400.00	400.00	400.00	400.00	2.33	2.33	73.29	696.00	2,319.00	2,421.19	2,416.53	4.66	519.700	
500.00	500.00	500.00	500.00	2.63	2.63	73.29	696.00	2,319.00	2,421.19	2,415.92	5.27	459.514	
600.00	600.00	600.00	600.00	2.91	2.91	73.29	696.00	2,319.00	2,421.19	2,415.37	5.82	416.003	
700.00	700.00	700.00	700.00	3.16	3.16	73.29	696.00	2,319.00	2,421.19	2,414.87	6.33	382.641	
800.00	800.00	800.00	800.00	3.40	3.40	73.29	696.00	2,319.00	2,421.19	2,414.39	6.80	355.996	
900.00	900.00	900.00	900.00	3.62	3.62	73.29	696.00	2,319.00	2,421.19	2,413.95	7.25	334.070	
1,000.00	1,000.00	1,000.00	1,000.00	3.76	3.84	-18.71	696.00	2,319.00	2,421.14	2,413.55	7.60	318.757	
1,100.00	1,099.98	1,099.98	1,099.98	4.00	4.04	-18.73	696.00	2,319.00	2,419.41	2,411.37	8.03	301.126	
1,200.00	1,199.88	1,199.88	1,199.88	4.24	4.23	-18.78	696.00	2,319.00	2,415.19	2,406.74	8.46	285.565	
1,300.00	1,299.63	1,299.63	1,299.63	4.46	4.42	-18.87	696.00	2,319.00	2,408.51	2,399.64	8.87	271.604	
1,400.00	1,399.25	1,410.23	1,410.23	4.60	4.52	-18.94	695.53	2,319.00	2,400.17	2,391.07	9.10	263.888	
1,500.00	1,498.87	1,531.96	1,531.89	4.78	4.74	-18.93	691.67	2,319.00	2,391.01	2,381.56	9.45	253.034	
1,600.00	1,598.49	1,653.35	1,653.03	4.96	4.94	-18.84	683.96	2,319.00	2,380.93	2,371.15	9.78	243.456	
1,700.00	1,698.11	1,732.83	1,732.21	5.14	5.03	-18.73	677.05	2,319.30	2,370.60	2,360.55	10.05	235.921	
1,800.00	1,797.73	1,800.00	1,799.07	5.32	5.13	-18.62	670.74	2,320.69	2,361.62	2,351.27	10.34	228.303	
1,900.00	1,897.34	1,864.66	1,863.36	5.49	5.23	-18.49	664.32	2,323.09	2,354.07	2,343.45	10.62	221.581	
2,000.00	1,996.96	1,930.62	1,928.87	5.67	5.34	-18.35	657.42	2,326.60	2,347.97	2,337.06	10.91	215.263	
2,100.00	2,096.58	2,008.56	2,006.13	5.85	5.47	-18.16	648.83	2,332.14	2,343.36	2,332.15	11.21	208.959	
2,200.00	2,196.20	2,089.87	2,086.64	6.04	5.59	-17.96	639.60	2,338.70	2,339.65	2,328.14	11.51	203.326	
2,300.00	2,295.72	2,189.18	2,184.99	6.23	5.74	-11.40	628.33	2,346.72	2,334.87	2,323.02	11.85	197.045	
2,400.00	2,394.97	2,288.28	2,283.12	6.43	5.89	-6.88	617.09	2,354.72	2,327.57	2,315.36	12.21	190.580	
2,500.00	2,493.89	2,387.10	2,380.99	6.64	6.05	-3.66	605.88	2,362.70	2,317.78	2,305.20	12.58	184.189	
2,600.00	2,592.40	2,485.59	2,478.51	6.85	6.21	-1.21	594.71	2,370.65	2,305.50	2,292.54	12.96	177.911	
2,700.00	2,690.45	2,583.65	2,575.62	7.07	6.37	0.76	583.58	2,378.57	2,290.75	2,277.41	13.34	171.759	
2,800.00	2,787.96	2,681.24	2,672.26	7.28	6.53	2.40	572.51	2,386.45	2,273.54	2,259.83	13.72	165.737	
2,900.00	2,884.87	2,778.29	2,768.36	7.49	6.70	3.81	561.50	2,394.28	2,253.91	2,239.82	14.10	159.874	
3,000.00	2,981.46	2,875.04	2,864.17	7.68	6.86	4.18	550.53	2,402.10	2,233.16	2,218.70	14.46	154.476	
3,100.00	3,078.05	2,971.80	2,959.99	7.87	7.03	4.56	539.55	2,409.91	2,212.50	2,197.68	14.82	149.306	
3,200.00	3,174.64	3,068.56	3,055.80	8.06	7.19	4.95	528.57	2,417.72	2,191.93	2,176.75	15.18	144.354	
3,300.00	3,271.24	3,165.31	3,151.62	8.26	7.36	5.34	517.60	2,425.53	2,171.47	2,155.91	15.55	139.609	
3,400.00	3,367.83	3,262.07	3,247.43	8.51	7.53	5.74	506.62	2,433.34	2,151.10	2,135.18	15.93	135.064	
3,500.00	3,464.42	3,358.83	3,343.24	8.80	7.70	6.15	495.64	2,441.16	2,130.84	2,114.54	16.30	130.707	
3,600.00	3,561.01	3,455.59	3,439.06	9.09	7.87	6.56	484.67	2,448.97	2,110.69	2,094.01	16.68	126.531	
3,700.00	3,657.60	3,552.34	3,534.87	9.38	8.05	6.99	473.69	2,456.78	2,090.65	2,073.59	17.06	122.527	
3,800.00	3,754.20	3,649.10	3,630.69	9.68	8.22	7.42	462.72	2,464.59	2,070.73	2,053.28	17.45	118.687	
3,900.00	3,850.79	3,745.86	3,726.50	9.98	8.40	7.86	451.74	2,472.40	2,050.92	2,033.08	17.83	115.002	
4,000.00	3,947.38	3,842.61	3,822.32	10.28	8.58	8.30	440.76	2,480.21	2,031.23	2,013.01	18.22	111.466	
4,100.00	4,043.97	3,939.37	3,918.13	10.59	8.75	8.76	429.79	2,488.03	2,011.67	1,993.05	18.61	108.070	
4,200.00	4,140.56	4,036.13	4,013.94	10.90	8.93	9.22	418.81	2,495.84	1,992.23	1,973.23	19.01	104.808	
4,300.00	4,237.16	4,132.88	4,109.76	11.21	9.11	9.70	407.83	2,503.65	1,972.93	1,953.53	19.40	101.673	
4,400.00	4,333.75	4,229.64	4,205.57	11.52	9.30	10.18	396.86	2,511.46	1,953.76	1,933.96	19.80	98.659	
4,500.00	4,430.34	4,326.40	4,301.39	11.84	9.48	10.67	385.88	2,519.27	1,934.74	1,914.53	20.20	95.761	
4,600.00	4,526.93	4,423.15	4,397.20	12.16	9.66	11.17	374.90	2,527.09	1,915.85	1,895.25	20.61	92.973	
4,700.00	4,623.53	4,519.91	4,493.02	12.48	9.85	11.68	363.93	2,534.90	1,897.12	1,876.11	21.01	90.289	
4,800.00	4,720.12	4,616.67	4,588.83	12.80	10.03	12.20	352.95	2,542.71	1,878.54	1,857.12	21.42	87.705	
4,900.00	4,816.71	4,713.42	4,684.64	13.12	10.22	12.73	341.97	2,550.52	1,860.11	1,838.29	21.83	85.216	
5,000.00	4,913.30	4,810.18	4,780.46	13.45	10.40	13.27	331.00	2,558.33	1,841.85	1,819.61	22.24	82.818	
5,100.00	5,009.89	4,906.94	4,876.27	13.78	10.59	13.83	320.02	2,566.15	1,823.76	1,801.10	22.65	80.506	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 134H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,106.49	5,003.69	4,972.09	14.10	10.78	14.39	309.04	2,573.96	1,805.84	1,782.77	23.07	78.278	
5,300.00	5,203.08	5,103.81	5,071.23	14.43	10.96	14.98	297.70	2,582.03	1,788.08	1,764.60	23.48	76.155	
5,400.00	5,299.67	5,233.76	5,200.25	14.75	11.19	15.69	285.11	2,590.99	1,769.44	1,745.51	23.93	73.949	
5,500.00	5,396.65	5,364.35	5,330.36	15.07	11.39	16.20	276.07	2,597.43	1,750.54	1,726.17	24.36	71.848	
5,600.00	5,494.23	5,495.64	5,461.47	15.36	11.56	16.58	270.63	2,601.30	1,732.33	1,707.57	24.76	69.966	
5,700.00	5,592.35	5,627.34	5,593.15	15.62	11.70	16.81	268.87	2,602.55	1,714.74	1,689.66	25.08	68.365	
5,800.00	5,690.94	5,725.13	5,690.94	15.86	11.73	16.90	268.87	2,602.55	1,698.72	1,673.39	25.33	67.054	
5,900.00	5,789.93	5,824.12	5,789.93	16.07	11.79	16.98	268.87	2,602.55	1,685.20	1,659.61	25.59	65.849	
6,000.00	5,889.26	5,923.45	5,889.26	16.25	11.84	17.05	268.87	2,602.55	1,674.17	1,648.33	25.84	64.786	
6,100.00	5,988.86	6,023.05	5,988.86	16.41	11.89	17.10	268.87	2,602.55	1,665.63	1,639.55	26.08	63.864	
6,200.00	6,088.66	6,122.85	6,088.66	16.53	11.94	17.14	268.87	2,602.55	1,659.59	1,633.29	26.31	63.083	
6,300.00	6,188.59	6,222.78	6,188.59	16.64	12.00	17.16	268.87	2,602.55	1,656.06	1,629.54	26.52	62.445	
6,400.00	6,288.58	6,322.77	6,288.58	16.71	12.05	89.59	268.87	2,602.55	1,655.01	1,628.36	26.66	62.087	
6,500.00	6,388.58	6,422.77	6,388.58	16.76	12.11	89.59	268.87	2,602.55	1,655.01	1,628.25	26.76	61.835	
6,600.00	6,488.58	6,522.77	6,488.58	16.82	12.16	89.59	268.87	2,602.55	1,655.01	1,628.14	26.87	61.585	
6,700.00	6,588.58	6,622.77	6,588.58	16.88	12.22	89.59	268.87	2,602.55	1,655.01	1,628.03	26.98	61.335	
6,800.00	6,688.58	6,722.77	6,688.58	16.94	12.27	89.59	268.87	2,602.55	1,655.01	1,627.92	27.09	61.085	
6,900.00	6,788.58	6,822.77	6,788.58	17.00	12.33	89.59	268.87	2,602.55	1,655.01	1,627.81	27.20	60.837	
7,000.00	6,888.58	6,922.77	6,888.58	17.05	12.38	89.59	268.87	2,602.55	1,655.01	1,627.70	27.32	60.589	
7,100.00	6,988.58	7,022.77	6,988.58	17.11	12.44	89.59	268.87	2,602.55	1,655.01	1,627.59	27.43	60.342	
7,200.00	7,088.58	7,122.77	7,088.58	17.17	12.50	89.59	268.87	2,602.55	1,655.01	1,627.47	27.54	60.096	
7,300.00	7,188.58	7,222.77	7,188.58	17.23	12.55	89.59	268.87	2,602.55	1,655.01	1,627.36	27.65	59.851	
7,400.00	7,288.58	7,322.77	7,288.58	17.29	12.61	89.59	268.87	2,602.55	1,655.01	1,627.25	27.77	59.607	
7,500.00	7,388.58	7,422.77	7,388.58	17.35	12.67	89.59	268.87	2,602.55	1,655.01	1,627.13	27.88	59.364	
7,600.00	7,488.58	7,522.77	7,488.58	17.41	12.72	89.59	268.87	2,602.55	1,655.01	1,627.02	27.99	59.122	
7,700.00	7,588.58	7,622.77	7,588.58	17.47	12.78	89.59	268.87	2,602.55	1,655.01	1,626.90	28.11	58.880	
7,800.00	7,688.58	7,722.77	7,688.58	17.53	12.84	89.59	268.87	2,602.55	1,655.01	1,626.79	28.22	58.640	
7,900.00	7,788.58	7,822.77	7,788.58	17.59	12.90	89.59	268.87	2,602.55	1,655.01	1,626.67	28.34	58.400	
8,000.00	7,888.58	7,922.77	7,888.58	17.65	12.96	89.59	268.87	2,602.55	1,655.01	1,626.56	28.46	58.162	
8,100.00	7,988.58	8,022.77	7,988.58	17.71	13.02	89.59	268.87	2,602.55	1,655.01	1,626.44	28.57	57.924	
8,200.00	8,088.58	8,122.77	8,088.58	17.77	13.08	89.59	268.87	2,602.55	1,655.01	1,626.32	28.69	57.688	
8,300.00	8,188.58	8,222.77	8,188.58	17.83	13.13	89.59	268.87	2,602.55	1,655.01	1,626.21	28.81	57.452	
8,400.00	8,288.58	8,322.77	8,288.58	17.89	13.19	89.59	268.87	2,602.55	1,655.01	1,626.09	28.92	57.218	
8,500.00	8,388.58	8,422.77	8,388.58	17.95	13.25	89.59	268.87	2,602.55	1,655.01	1,625.97	29.04	56.985	
8,600.00	8,488.58	8,522.77	8,488.58	18.02	13.31	89.59	268.87	2,602.55	1,655.01	1,625.85	29.16	56.752	
8,700.00	8,588.58	8,622.77	8,588.58	18.08	13.37	89.59	268.87	2,602.55	1,655.01	1,625.73	29.28	56.521	
8,800.00	8,688.58	8,722.77	8,688.58	18.14	13.43	89.59	268.87	2,602.55	1,655.01	1,625.61	29.40	56.291	
8,900.00	8,788.58	8,822.77	8,788.58	18.20	13.50	89.59	268.87	2,602.55	1,655.01	1,625.49	29.52	56.061	
9,000.00	8,888.58	8,922.77	8,888.58	18.26	13.56	89.59	268.87	2,602.55	1,655.01	1,625.37	29.64	55.833	
9,100.00	8,988.58	9,022.77	8,988.58	18.32	13.62	89.59	268.87	2,602.55	1,655.01	1,625.25	29.76	55.606	
9,200.00	9,088.58	9,122.77	9,088.58	18.39	13.68	89.59	268.87	2,602.55	1,655.01	1,625.13	29.88	55.380	
9,300.00	9,188.58	9,222.77	9,188.58	18.45	13.74	89.59	268.87	2,602.55	1,655.01	1,625.01	30.01	55.155	
9,400.00	9,288.58	9,322.77	9,288.58	18.51	13.80	89.59	268.87	2,602.55	1,655.01	1,624.88	30.13	54.932	
9,500.00	9,388.58	9,422.77	9,388.58	18.57	13.86	89.59	268.87	2,602.55	1,655.01	1,624.76	30.25	54.709	
9,600.00	9,488.58	9,522.77	9,488.58	18.64	13.93	89.59	268.87	2,602.55	1,655.01	1,624.64	30.37	54.487	
9,700.00	9,588.58	9,622.77	9,588.58	18.70	13.99	89.59	268.87	2,602.55	1,655.01	1,624.51	30.50	54.267	
9,800.00	9,688.58	9,722.77	9,688.58	18.76	14.05	89.59	268.87	2,602.55	1,655.01	1,624.39	30.62	54.047	
9,900.00	9,788.58	9,822.77	9,788.58	18.83	14.11	89.59	268.87	2,602.55	1,655.01	1,624.27	30.75	53.829	
10,000.00	9,888.58	9,922.77	9,888.58	18.89	14.18	89.59	268.87	2,602.55	1,655.01	1,624.14	30.87	53.612	
10,100.00	9,988.58	10,022.77	9,988.58	18.95	14.24	89.59	268.87	2,602.55	1,655.01	1,624.02	31.00	53.396	
10,200.00	10,088.58	10,122.77	10,088.58	19.02	14.30	89.59	268.87	2,602.55	1,655.01	1,623.89	31.12	53.181	
10,300.00	10,188.58	10,222.77	10,188.58	19.08	14.37	89.59	268.87	2,602.55	1,655.01	1,623.77	31.25	52.967	

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

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 134H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,400.00	10,288.58	10,322.77	10,288.58	19.15	14.43	89.59	268.87	2,602.55	1,655.01	1,623.64	31.37	52.755	
10,500.00	10,388.58	10,422.77	10,388.58	19.21	14.50	89.59	268.87	2,602.55	1,655.01	1,623.51	31.50	52.543	
10,600.00	10,488.58	10,522.77	10,488.58	19.27	14.56	89.59	268.87	2,602.55	1,655.01	1,623.39	31.62	52.333	
10,700.00	10,588.58	10,622.77	10,588.58	19.34	14.62	89.59	268.87	2,602.55	1,655.01	1,623.26	31.75	52.123	
10,800.00	10,688.58	10,722.77	10,688.58	19.40	14.69	89.59	268.87	2,602.55	1,655.01	1,623.13	31.88	51.915	
10,900.00	10,788.58	10,822.77	10,788.58	19.47	14.75	89.59	268.87	2,602.55	1,655.01	1,623.01	32.01	51.708	
11,000.00	10,888.58	10,922.77	10,888.58	19.53	14.82	89.59	268.87	2,602.55	1,655.01	1,622.88	32.13	51.502	
11,100.00	10,988.58	11,022.77	10,988.58	19.60	14.88	89.59	268.87	2,602.55	1,655.01	1,622.75	32.26	51.297	
11,200.00	11,088.58	11,122.77	11,088.58	19.66	14.95	89.59	268.87	2,602.55	1,655.01	1,622.62	32.39	51.094	
11,300.00	11,188.58	11,222.77	11,188.58	19.73	15.01	89.59	268.87	2,602.55	1,655.01	1,622.49	32.52	50.891	
11,400.00	11,288.58	11,322.77	11,288.58	19.79	15.08	89.59	268.87	2,602.55	1,655.01	1,622.36	32.65	50.690	
11,500.00	11,388.58	11,422.77	11,388.58	19.86	15.14	89.59	268.87	2,602.55	1,655.01	1,622.23	32.78	50.487	
11,511.16	11,399.73	11,433.92	11,399.73	19.87	15.15	89.59	268.87	2,602.55	1,655.01	1,622.22	32.80	50.464	CC
11,600.00	11,488.58	11,522.68	11,488.49	19.92	15.22	89.60	268.69	2,602.55	1,655.01	1,622.10	32.91	50.286	
11,700.00	11,588.58	11,620.66	11,585.75	19.99	15.41	89.97	257.87	2,602.65	1,655.07	1,622.03	33.05	50.084	
11,800.00	11,688.58	11,712.44	11,673.96	20.05	15.62	90.84	232.85	2,602.88	1,655.54	1,622.28	33.26	49.781	
11,900.00	11,788.58	11,794.51	11,748.56	20.12	15.81	92.02	198.81	2,603.19	1,657.12	1,623.58	33.53	49.416	
12,000.00	11,888.58	11,865.54	11,808.63	20.19	15.99	93.32	161.00	2,603.53	1,660.66	1,626.79	33.87	49.026	
12,100.00	11,988.51	11,926.97	11,856.47	20.25	16.15	-84.56	122.53	2,603.88	1,666.79	1,632.57	34.22	48.714	
12,200.00	12,086.82	11,985.88	11,898.24	20.31	16.35	-82.64	81.01	2,604.26	1,674.50	1,639.93	34.57	48.437	
12,300.00	12,180.57	12,050.00	11,938.60	20.35	16.63	-80.70	31.23	2,604.71	1,683.00	1,648.01	34.99	48.105	
12,400.00	12,266.93	12,100.00	11,966.05	20.39	16.92	-79.12	-10.54	2,605.09	1,691.59	1,656.18	35.41	47.769	
12,500.00	12,343.26	12,150.00	11,989.76	20.44	17.25	-77.69	-54.54	2,605.49	1,699.75	1,663.84	35.91	47.338	
12,600.00	12,407.24	12,213.13	12,014.08	20.52	17.72	-76.36	-112.76	2,606.02	1,706.87	1,670.33	36.54	46.707	
12,700.00	12,456.94	12,268.81	12,030.09	20.67	18.17	-75.39	-166.06	2,606.50	1,712.60	1,675.35	37.25	45.977	
12,800.00	12,490.84	12,324.27	12,040.82	20.88	18.66	-74.73	-220.45	2,607.00	1,716.58	1,678.53	38.05	45.111	
12,900.00	12,507.91	12,379.62	12,046.25	21.18	19.16	-74.41	-275.50	2,607.50	1,718.59	1,679.64	38.95	44.125	
13,000.00	12,510.43	12,459.76	12,047.33	21.56	19.93	-74.37	-355.64	2,608.23	1,718.87	1,678.80	40.07	42.896	
13,100.00	12,511.30	12,559.76	12,048.03	22.01	20.94	-74.36	-455.63	2,609.13	1,718.96	1,677.53	41.44	41.485	
13,200.00	12,512.18	12,659.76	12,048.73	22.52	21.98	-74.36	-555.62	2,610.04	1,719.05	1,676.14	42.92	40.054	
13,300.00	12,513.05	12,759.76	12,049.43	23.10	23.06	-74.35	-655.62	2,610.95	1,719.15	1,674.64	44.51	38.627	
13,400.00	12,513.92	12,859.76	12,050.13	23.73	24.16	-74.35	-755.61	2,611.86	1,719.24	1,673.05	46.19	37.222	
13,500.00	12,514.80	12,959.76	12,050.83	24.41	25.30	-74.34	-855.60	2,612.77	1,719.33	1,671.37	47.96	35.851	
13,600.00	12,515.67	13,059.76	12,051.53	25.15	26.45	-74.34	-955.60	2,613.68	1,719.43	1,669.62	49.81	34.523	
13,700.00	12,516.55	13,159.76	12,052.23	25.93	27.62	-74.33	-1,055.59	2,614.59	1,719.52	1,667.80	51.72	33.246	
13,800.00	12,517.42	13,259.76	12,052.93	26.76	28.81	-74.33	-1,155.58	2,615.50	1,719.61	1,665.91	53.70	32.022	
13,900.00	12,518.29	13,359.76	12,053.62	27.63	30.02	-74.32	-1,255.58	2,616.40	1,719.70	1,663.97	55.74	30.855	
14,000.00	12,519.17	13,459.76	12,054.32	28.53	31.24	-74.32	-1,355.57	2,617.31	1,719.80	1,661.98	57.82	29.744	
14,100.00	12,520.04	13,559.76	12,055.02	29.47	32.47	-74.31	-1,455.56	2,618.22	1,719.89	1,659.94	59.95	28.689	
14,200.00	12,520.91	13,659.76	12,055.72	30.44	33.71	-74.31	-1,555.56	2,619.13	1,719.98	1,657.86	62.12	27.688	
14,300.00	12,521.79	13,759.76	12,056.42	31.44	34.96	-74.30	-1,655.55	2,620.04	1,720.08	1,655.75	64.33	26.740	
14,400.00	12,522.66	13,859.76	12,057.12	32.46	36.22	-74.30	-1,755.54	2,620.95	1,720.17	1,653.60	66.57	25.841	
14,500.00	12,523.53	13,959.76	12,057.82	33.51	37.49	-74.29	-1,855.54	2,621.86	1,720.26	1,651.43	68.84	24.991	
14,600.00	12,524.41	14,059.76	12,058.52	34.58	38.76	-74.29	-1,955.53	2,622.77	1,720.36	1,649.22	71.13	24.186	
14,700.00	12,525.28	14,159.76	12,059.22	35.67	40.04	-74.28	-2,055.52	2,623.67	1,720.45	1,647.00	73.45	23.423	
14,800.00	12,526.16	14,259.76	12,059.92	36.78	41.33	-74.28	-2,155.51	2,624.58	1,720.54	1,644.75	75.79	22.701	
14,900.00	12,527.03	14,359.76	12,060.62	37.90	42.62	-74.27	-2,255.51	2,625.49	1,720.63	1,642.48	78.15	22.016	
15,000.00	12,527.90	14,459.76	12,061.32	39.04	43.91	-74.27	-2,355.50	2,626.40	1,720.73	1,640.19	80.53	21.367	
15,100.00	12,528.78	14,559.76	12,062.01	40.20	45.21	-74.26	-2,455.49	2,627.31	1,720.82	1,637.89	82.93	20.751	
15,200.00	12,529.65	14,659.76	12,062.71	41.37	46.52	-74.26	-2,555.49	2,628.22	1,720.91	1,635.57	85.34	20.165	
15,300.00	12,530.52	14,759.76	12,063.41	42.55	47.82	-74.25	-2,655.48	2,629.13	1,721.01	1,633.24	87.77	19.609	
15,400.00	12,531.40	14,859.76	12,064.11	43.74	49.13	-74.25	-2,755.47	2,630.04	1,721.10	1,630.90	90.20	19.080	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 134H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,500.00	12,532.27	14,959.76	12,064.81	44.94	50.45	-74.24	-2,855.47	2,630.94	1,721.19	1,628.54	92.65	18.577	
15,600.00	12,533.14	15,059.76	12,065.51	46.15	51.76	-74.24	-2,955.46	2,631.85	1,721.29	1,626.17	95.11	18.097	
15,700.00	12,534.02	15,159.76	12,066.21	47.37	53.08	-74.23	-3,055.45	2,632.76	1,721.38	1,623.80	97.58	17.640	
15,800.00	12,534.89	15,259.76	12,066.91	48.59	54.40	-74.23	-3,155.45	2,633.67	1,721.47	1,621.41	100.06	17.204	
15,900.00	12,535.76	15,359.76	12,067.61	49.83	55.73	-74.22	-3,255.44	2,634.58	1,721.57	1,619.02	102.55	16.788	
16,000.00	12,536.64	15,459.76	12,068.31	51.07	57.05	-74.22	-3,355.43	2,635.49	1,721.66	1,616.62	105.04	16.390	
16,100.00	12,537.51	15,559.76	12,069.01	52.32	58.38	-74.21	-3,455.43	2,636.40	1,721.75	1,614.21	107.55	16.009	
16,200.00	12,538.39	15,659.76	12,069.70	53.57	59.71	-74.20	-3,555.42	2,637.31	1,721.85	1,611.79	110.06	15.645	
16,300.00	12,539.26	15,759.76	12,070.40	54.83	61.04	-74.20	-3,655.41	2,638.21	1,721.94	1,609.37	112.57	15.297	
16,400.00	12,540.13	15,859.76	12,071.10	56.09	62.38	-74.19	-3,755.41	2,639.12	1,722.03	1,606.94	115.09	14.962	
16,500.00	12,541.01	15,959.76	12,071.80	57.36	63.71	-74.19	-3,855.40	2,640.03	1,722.13	1,604.51	117.62	14.642	
16,600.00	12,541.88	16,059.76	12,072.50	58.64	65.05	-74.18	-3,955.39	2,640.94	1,722.22	1,602.07	120.15	14.334	
16,700.00	12,542.75	16,159.76	12,073.20	59.91	66.39	-74.18	-4,055.39	2,641.85	1,722.31	1,599.62	122.69	14.038	
16,800.00	12,543.63	16,259.76	12,073.90	61.20	67.73	-74.17	-4,155.38	2,642.76	1,722.41	1,597.18	125.23	13.754	
16,900.00	12,544.50	16,359.76	12,074.60	62.48	69.07	-74.17	-4,255.37	2,643.67	1,722.50	1,594.72	127.77	13.481	
17,000.00	12,545.37	16,459.76	12,075.30	63.77	70.41	-74.16	-4,355.37	2,644.58	1,722.59	1,592.27	130.32	13.218	
17,100.00	12,546.25	16,559.76	12,076.00	65.06	71.75	-74.16	-4,455.36	2,645.48	1,722.69	1,589.81	132.88	12.965	
17,200.00	12,547.12	16,659.76	12,076.70	66.36	73.09	-74.15	-4,555.35	2,646.39	1,722.78	1,587.35	135.43	12.721	
17,300.00	12,547.99	16,759.76	12,077.40	67.66	74.44	-74.15	-4,655.35	2,647.30	1,722.87	1,584.88	137.99	12.485	
17,400.00	12,548.87	16,859.76	12,078.09	68.96	75.78	-74.14	-4,755.34	2,648.21	1,722.97	1,582.41	140.56	12.258	
17,500.00	12,549.74	16,959.76	12,078.79	70.26	77.13	-74.14	-4,855.33	2,649.12	1,723.06	1,579.94	143.12	12.039	
17,600.00	12,550.62	17,059.76	12,079.49	71.57	78.48	-74.13	-4,955.33	2,650.03	1,723.15	1,577.46	145.69	11.828	
17,700.00	12,551.49	17,159.76	12,080.19	72.88	79.82	-74.13	-5,055.32	2,650.94	1,723.25	1,574.99	148.26	11.623	
17,800.00	12,552.36	17,259.76	12,080.89	74.19	81.17	-74.12	-5,155.31	2,651.84	1,723.34	1,572.51	150.83	11.425	
17,900.00	12,553.24	17,359.76	12,081.59	75.50	82.52	-74.12	-5,255.31	2,652.75	1,723.43	1,570.02	153.41	11.234	
18,000.00	12,554.11	17,459.76	12,082.29	76.81	83.87	-74.11	-5,355.30	2,653.66	1,723.53	1,567.54	155.99	11.049	
18,100.00	12,554.98	17,559.76	12,082.99	78.13	85.22	-74.11	-5,455.29	2,654.57	1,723.62	1,565.05	158.57	10.870	
18,200.00	12,555.86	17,659.76	12,083.69	79.45	86.57	-74.10	-5,555.29	2,655.48	1,723.71	1,562.56	161.15	10.696	
18,300.00	12,556.73	17,759.76	12,084.39	80.77	87.92	-74.10	-5,655.28	2,656.39	1,723.81	1,560.07	163.73	10.528	
18,400.00	12,557.60	17,859.76	12,085.09	82.09	89.27	-74.09	-5,755.27	2,657.30	1,723.90	1,557.58	166.32	10.365	
18,500.00	12,558.48	17,959.76	12,085.79	83.42	90.63	-74.09	-5,855.27	2,658.21	1,723.99	1,555.09	168.91	10.207	
18,600.00	12,559.35	18,059.75	12,086.48	84.74	91.98	-74.08	-5,955.26	2,659.11	1,724.09	1,552.59	171.50	10.053	
18,700.00	12,560.23	18,159.75	12,087.18	86.07	93.33	-74.08	-6,055.25	2,660.02	1,724.18	1,550.09	174.09	9.904	
18,800.00	12,561.10	18,259.75	12,087.88	87.40	94.69	-74.07	-6,155.25	2,660.93	1,724.28	1,547.60	176.68	9.759	
18,900.00	12,561.97	18,359.75	12,088.58	88.72	96.04	-74.07	-6,255.24	2,661.84	1,724.37	1,545.10	179.27	9.619	
19,000.00	12,562.85	18,459.75	12,089.28	90.05	97.40	-74.06	-6,355.23	2,662.75	1,724.46	1,542.59	181.87	9.482	
19,100.00	12,563.72	18,559.75	12,089.98	91.39	98.75	-74.06	-6,455.23	2,663.66	1,724.56	1,540.09	184.46	9.349	
19,200.00	12,564.59	18,659.75	12,090.68	92.72	100.11	-74.05	-6,555.22	2,664.57	1,724.65	1,537.59	187.06	9.220	
19,300.00	12,565.47	18,759.75	12,091.38	94.05	101.46	-74.05	-6,655.21	2,665.48	1,724.74	1,535.08	189.66	9.094	
19,400.00	12,566.34	18,859.75	12,092.08	95.39	102.82	-74.04	-6,755.21	2,666.38	1,724.84	1,532.58	192.26	8.971	
19,500.00	12,567.21	18,959.75	12,092.78	96.72	104.18	-74.04	-6,855.20	2,667.29	1,724.93	1,530.07	194.86	8.852	
19,600.00	12,568.09	19,059.75	12,093.48	98.06	105.54	-74.03	-6,955.19	2,668.20	1,725.02	1,527.56	197.46	8.736	
19,700.00	12,568.96	19,159.75	12,094.17	99.40	106.89	-74.02	-7,055.18	2,669.11	1,725.12	1,525.05	200.06	8.623	
19,800.00	12,569.83	19,259.75	12,094.87	100.73	108.25	-74.02	-7,155.18	2,670.02	1,725.21	1,522.54	202.67	8.512	
19,900.00	12,570.71	19,359.75	12,095.57	102.07	109.61	-74.01	-7,255.17	2,670.93	1,725.31	1,520.03	205.27	8.405	
20,000.00	12,571.58	19,459.75	12,096.27	103.41	110.97	-74.01	-7,355.16	2,671.84	1,725.40	1,517.52	207.88	8.300	
20,100.00	12,572.46	19,559.75	12,096.97	104.75	112.33	-74.00	-7,455.16	2,672.75	1,725.49	1,515.01	210.48	8.198	
20,200.00	12,573.33	19,659.75	12,097.67	106.10	113.68	-74.00	-7,555.15	2,673.65	1,725.59	1,512.50	213.09	8.098	
20,300.00	12,574.20	19,759.75	12,098.37	107.44	115.04	-73.99	-7,655.14	2,674.56	1,725.68	1,509.98	215.70	8.000	
20,400.00	12,575.08	19,859.75	12,099.07	108.78	116.40	-73.99	-7,755.14	2,675.47	1,725.78	1,507.47	218.31	7.905	
20,500.00	12,575.95	19,959.75	12,099.77	110.12	117.76	-73.98	-7,855.13	2,676.38	1,725.87	1,504.95	220.91	7.812	
20,600.00	12,576.82	20,059.75	12,100.47	111.47	119.12	-73.98	-7,955.12	2,677.29	1,725.96	1,502.44	223.52	7.722	

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

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 134H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,700.00	12,577.70	20,159.75	12,101.17	112.81	120.48	-73.97	-8,055.12	2,678.20	1,726.06	1,499.92	226.13	7.633	
20,800.00	12,578.57	20,259.75	12,101.87	114.16	121.84	-73.97	-8,155.11	2,679.11	1,726.15	1,497.41	228.75	7.546	
20,900.00	12,579.44	20,359.75	12,102.56	115.51	123.20	-73.96	-8,255.10	2,680.02	1,726.24	1,494.89	231.36	7.461	
21,000.00	12,580.32	20,459.75	12,103.26	116.85	124.56	-73.96	-8,355.10	2,680.92	1,726.34	1,492.37	233.97	7.379	
21,100.00	12,581.19	20,559.75	12,103.96	118.20	125.92	-73.95	-8,455.09	2,681.83	1,726.43	1,489.85	236.58	7.297	
21,200.00	12,582.06	20,659.75	12,104.66	119.55	127.29	-73.95	-8,555.08	2,682.74	1,726.53	1,487.33	239.19	7.218	
21,300.00	12,582.94	20,759.75	12,105.36	120.89	128.65	-73.94	-8,655.08	2,683.65	1,726.62	1,484.81	241.81	7.140	
21,400.00	12,583.81	20,859.75	12,106.06	122.24	130.01	-73.94	-8,755.07	2,684.56	1,726.71	1,482.29	244.42	7.065	
21,500.00	12,584.69	20,959.75	12,106.76	123.59	131.37	-73.93	-8,855.06	2,685.47	1,726.81	1,479.77	247.03	6.990	
21,600.00	12,585.56	21,059.75	12,107.46	124.94	132.73	-73.93	-8,955.06	2,686.38	1,726.90	1,477.25	249.65	6.917	
21,700.00	12,586.43	21,159.75	12,108.16	126.29	134.09	-73.92	-9,055.05	2,687.29	1,727.00	1,474.73	252.26	6.846	
21,800.00	12,587.31	21,259.75	12,108.86	127.64	135.45	-73.92	-9,155.04	2,688.19	1,727.09	1,472.21	254.88	6.776	
21,900.00	12,588.18	21,359.75	12,109.56	128.99	136.82	-73.91	-9,255.04	2,689.10	1,727.18	1,469.69	257.50	6.708	
22,000.00	12,589.05	21,459.75	12,110.25	130.34	138.18	-73.91	-9,355.03	2,690.01	1,727.28	1,467.17	260.11	6.641	
22,100.00	12,589.93	21,559.75	12,110.95	131.70	139.54	-73.90	-9,455.02	2,690.92	1,727.37	1,464.64	262.73	6.575	
22,200.00	12,590.80	21,659.75	12,111.65	133.05	140.90	-73.90	-9,555.02	2,691.83	1,727.47	1,462.12	265.35	6.510	
22,300.00	12,591.67	21,759.75	12,112.35	134.40	142.27	-73.89	-9,655.01	2,692.74	1,727.56	1,459.60	267.96	6.447	
22,400.00	12,592.55	21,859.75	12,113.05	135.75	143.63	-73.89	-9,755.00	2,693.65	1,727.65	1,457.08	270.58	6.385	
22,500.00	12,593.42	21,959.75	12,113.75	137.11	144.99	-73.88	-9,855.00	2,694.56	1,727.75	1,454.55	273.20	6.324	
22,600.00	12,594.30	22,059.75	12,114.45	138.46	146.36	-73.88	-9,954.99	2,695.46	1,727.84	1,452.03	275.82	6.264	
22,700.00	12,595.17	22,159.75	12,115.15	139.81	147.72	-73.87	-10,054.98	2,696.37	1,727.94	1,449.50	278.43	6.206	
22,800.00	12,596.04	22,259.75	12,115.85	141.17	149.08	-73.87	-10,154.98	2,697.28	1,728.03	1,446.98	281.05	6.148	
22,875.30	12,596.70	22,335.05	12,116.37	142.19	150.11	-73.86	-10,230.27	2,697.97	1,728.10	1,445.08	283.02	6.106	ES, SF

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

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 135H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	1.00	0.50	0.50	173.21	-210.00	25.00	211.49				
100.00	100.00	99.00	100.00	0.98	0.97	173.21	-210.00	25.00	211.48	209.53	1.95	108.179	
200.00	200.00	199.00	200.00	1.56	1.56	173.21	-210.00	25.00	211.48	208.37	3.12	67.865	
300.00	300.00	299.00	300.00	1.98	1.98	173.21	-210.00	25.00	211.48	207.52	3.96	53.431	
400.00	400.00	399.00	400.00	2.33	2.33	173.21	-210.00	25.00	211.48	206.83	4.66	45.428	
500.00	500.00	499.00	500.00	2.63	2.63	173.21	-210.00	25.00	211.48	206.22	5.27	40.160	
600.00	600.00	599.00	600.00	2.91	2.91	173.21	-210.00	25.00	211.48	205.67	5.82	36.354	
700.00	700.00	699.00	700.00	3.16	3.16	173.21	-210.00	25.00	211.48	205.16	6.33	33.436	
800.00	800.00	799.00	800.00	3.40	3.40	173.21	-210.00	25.00	211.48	204.68	6.80	31.106	
900.00	900.00	904.61	905.60	3.62	3.69	173.30	-208.66	24.50	210.16	202.85	7.31	28.750	
1,000.00	1,000.00	1,009.58	1,010.48	3.76	3.96	81.61	-204.62	23.02	206.17	198.46	7.71	26.741	
1,100.00	1,099.98	1,109.39	1,110.15	4.00	4.17	82.57	-199.72	21.21	200.84	192.74	8.10	24.785	
1,200.00	1,199.88	1,209.06	1,209.68	4.24	4.36	84.33	-194.82	19.41	195.29	186.81	8.48	23.038	
1,300.00	1,299.63	1,311.39	1,311.85	4.46	4.48	87.11	-189.34	17.39	189.31	180.54	8.77	21.587	
1,400.00	1,399.25	1,415.12	1,415.22	4.60	4.73	90.86	-181.38	14.45	181.47	172.34	9.13	19.876	
1,500.00	1,498.87	1,518.12	1,517.61	4.78	4.96	95.31	-170.87	10.58	172.02	162.52	9.50	18.104	
1,600.00	1,598.49	1,617.76	1,616.41	4.96	5.09	100.48	-158.79	6.13	161.91	152.12	9.79	16.541	
1,700.00	1,698.11	1,716.10	1,713.91	5.14	5.28	106.22	-146.75	1.69	153.16	143.01	10.15	15.096	
1,800.00	1,797.73	1,814.43	1,811.40	5.32	5.47	112.57	-134.71	-2.75	146.16	135.66	10.50	13.918	
1,900.00	1,897.34	1,912.77	1,908.90	5.49	5.66	119.44	-122.66	-7.19	141.16	130.30	10.86	13.002	
2,000.00	1,996.96	2,011.11	2,006.39	5.67	5.86	126.68	-110.62	-11.63	138.38	127.16	11.21	12.341	
2,067.73	2,064.43	2,077.71	2,072.42	5.79	5.99	131.70	-102.46	-14.64	137.83	126.37	11.46	12.031	CC, ES
2,100.00	2,096.58	2,109.44	2,103.89	5.85	6.05	134.09	-98.57	-16.07	137.95	126.38	11.57	11.921	
2,200.00	2,196.20	2,207.78	2,201.38	6.04	6.24	141.43	-86.53	-20.51	139.91	127.97	11.94	11.715	
2,300.00	2,295.72	2,306.03	2,298.80	6.23	6.43	154.75	-74.50	-24.95	145.35	133.03	12.32	11.797	
2,400.00	2,394.97	2,404.06	2,395.99	6.43	6.62	165.38	-62.49	-29.37	155.47	142.75	12.72	12.222	
2,500.00	2,493.89	2,501.80	2,492.89	6.64	6.81	173.75	-50.52	-33.79	169.88	156.76	13.12	12.944	
2,600.00	2,592.40	2,599.17	2,589.43	6.85	7.00	-179.68	-38.59	-38.18	188.09	174.57	13.53	13.905	
2,700.00	2,690.45	2,696.12	2,685.55	7.07	7.19	-174.59	-26.72	-42.56	209.65	195.73	13.92	15.056	
2,800.00	2,787.96	2,792.58	2,781.19	7.28	7.38	-170.67	-14.90	-46.91	234.19	219.87	14.32	16.355	
2,900.00	2,884.87	2,888.49	2,876.27	7.49	7.56	-167.67	-3.16	-51.24	261.44	246.73	14.71	17.773	
3,000.00	2,981.46	2,984.09	2,971.06	7.68	7.75	-166.26	8.55	-55.56	290.02	274.94	15.08	19.238	
3,100.00	3,078.05	3,079.70	3,065.85	7.87	7.94	-165.11	20.26	-59.88	318.73	303.28	15.44	20.639	
3,200.00	3,174.64	3,175.31	3,160.64	8.06	8.12	-164.15	31.97	-64.19	347.54	331.73	15.81	21.977	
3,300.00	3,271.24	3,270.92	3,255.43	8.26	8.31	-163.33	43.68	-68.51	376.43	360.24	16.19	23.254	
3,400.00	3,367.83	3,366.53	3,350.22	8.51	8.49	-162.63	55.39	-72.83	405.38	388.81	16.56	24.474	
3,500.00	3,464.42	3,462.14	3,445.01	8.80	8.68	-162.02	67.10	-77.14	434.37	417.43	16.94	25.639	
3,600.00	3,561.01	3,557.75	3,539.80	9.09	8.86	-161.49	78.81	-81.46	463.41	446.08	17.32	26.751	
3,700.00	3,657.60	3,653.36	3,634.59	9.38	9.05	-161.02	90.52	-85.78	492.48	474.77	17.71	27.814	
3,800.00	3,754.20	3,748.96	3,729.38	9.68	9.23	-160.60	102.23	-90.09	521.57	503.48	18.09	28.830	
3,900.00	3,850.79	3,844.57	3,824.17	9.98	9.42	-160.23	113.94	-94.41	550.69	532.21	18.48	29.802	
4,000.00	3,947.38	3,940.18	3,918.97	10.28	9.60	-159.90	125.65	-98.73	579.82	560.96	18.87	30.731	
4,100.00	4,043.97	4,035.79	4,013.76	10.59	9.79	-159.59	137.36	-103.04	608.98	589.72	19.26	31.621	
4,200.00	4,140.56	4,131.40	4,108.55	10.90	9.97	-159.32	149.07	-107.36	638.14	618.49	19.65	32.474	
4,300.00	4,237.16	4,227.01	4,203.34	11.21	10.16	-159.07	160.78	-111.68	667.32	647.28	20.05	33.291	
4,400.00	4,333.75	4,322.62	4,298.13	11.52	10.35	-158.84	172.49	-115.99	696.51	676.07	20.44	34.074	
4,500.00	4,430.34	4,418.23	4,392.92	11.84	10.53	-158.62	184.20	-120.31	725.71	704.87	20.84	34.826	
4,600.00	4,526.93	4,513.84	4,487.71	12.16	10.72	-158.43	195.91	-124.62	754.92	733.68	21.24	35.547	
4,700.00	4,623.53	4,609.44	4,582.50	12.48	10.90	-158.25	207.62	-128.94	784.14	762.50	21.64	36.240	
4,800.00	4,720.12	4,705.33	4,677.56	12.80	11.09	-158.08	219.36	-133.27	813.36	791.32	22.04	36.902	
4,900.00	4,816.71	4,810.32	4,781.84	13.12	11.30	-158.01	230.80	-137.48	842.02	819.55	22.47	37.475	
5,000.00	4,913.30	4,915.98	4,887.09	13.45	11.51	-158.12	239.59	-140.72	869.62	846.74	22.88	38.010	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 135H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,009.89	5,022.16	4,993.06	13.78	11.71	-158.41	245.66	-142.96	896.15	872.88	23.27	38.518	
5,200.00	5,106.49	5,128.69	5,099.53	14.10	11.89	-158.85	248.98	-144.19	921.64	898.01	23.63	39.010	
5,300.00	5,203.08	5,232.24	5,203.08	14.43	12.02	-159.42	249.64	-144.43	946.18	922.23	23.95	39.506	
5,400.00	5,299.67	5,328.84	5,299.67	14.75	12.11	-159.96	249.64	-144.43	970.54	946.30	24.24	40.042	
5,500.00	5,396.65	5,425.81	5,396.65	15.07	12.19	-160.56	249.64	-144.43	993.58	969.04	24.55	40.475	
5,600.00	5,494.23	5,523.39	5,494.23	15.36	12.28	-161.08	249.64	-144.43	1,014.27	989.42	24.85	40.811	
5,700.00	5,592.35	5,621.51	5,592.35	15.62	12.36	-161.51	249.64	-144.43	1,032.58	1,007.42	25.15	41.050	
5,800.00	5,690.94	5,720.10	5,690.94	15.86	12.45	-161.87	249.64	-144.43	1,048.47	1,023.02	25.45	41.198	
5,900.00	5,789.93	5,819.10	5,789.93	16.07	12.54	-162.17	249.64	-144.43	1,061.92	1,036.18	25.74	41.257	
6,000.00	5,889.26	5,918.43	5,889.26	16.25	12.62	-162.41	249.64	-144.43	1,072.91	1,046.89	26.02	41.231	
6,100.00	5,988.86	6,018.03	5,988.86	16.41	12.71	-162.59	249.64	-144.43	1,081.42	1,055.13	26.30	41.126	
6,200.00	6,088.66	6,117.82	6,088.66	16.53	12.80	-162.72	249.64	-144.43	1,087.45	1,060.90	26.56	40.946	
6,300.00	6,188.59	6,217.75	6,188.59	16.64	12.88	-162.79	249.64	-144.43	1,090.99	1,064.18	26.81	40.698	
6,400.00	6,288.58	6,317.74	6,288.58	16.71	12.97	-90.39	249.64	-144.43	1,092.04	1,065.05	26.98	40.474	
6,500.00	6,388.58	6,417.74	6,388.58	16.76	13.06	-90.39	249.64	-144.43	1,092.04	1,064.91	27.13	40.255	
6,600.00	6,488.58	6,517.74	6,488.58	16.82	13.14	-90.39	249.64	-144.43	1,092.04	1,064.76	27.27	40.039	
6,700.00	6,588.58	6,617.74	6,588.58	16.88	13.23	-90.39	249.64	-144.43	1,092.04	1,064.61	27.42	39.825	
6,800.00	6,688.58	6,717.74	6,688.58	16.94	13.32	-90.39	249.64	-144.43	1,092.04	1,064.47	27.57	39.613	
6,900.00	6,788.58	6,817.74	6,788.58	17.00	13.41	-90.39	249.64	-144.43	1,092.04	1,064.32	27.71	39.403	
7,000.00	6,888.58	6,917.74	6,888.58	17.05	13.49	-90.39	249.64	-144.43	1,092.04	1,064.17	27.86	39.195	
7,100.00	6,988.58	7,017.74	6,988.58	17.11	13.58	-90.39	249.64	-144.43	1,092.04	1,064.03	28.01	38.989	
7,200.00	7,088.58	7,117.74	7,088.58	17.17	13.67	-90.39	249.64	-144.43	1,092.04	1,063.88	28.16	38.784	
7,300.00	7,188.58	7,217.74	7,188.58	17.23	13.75	-90.39	249.64	-144.43	1,092.04	1,063.73	28.30	38.582	
7,400.00	7,288.58	7,317.74	7,288.58	17.29	13.84	-90.39	249.64	-144.43	1,092.04	1,063.58	28.45	38.382	
7,500.00	7,388.58	7,417.74	7,388.58	17.35	13.93	-90.39	249.64	-144.43	1,092.04	1,063.44	28.60	38.184	
7,600.00	7,488.58	7,517.74	7,488.58	17.41	14.01	-90.39	249.64	-144.43	1,092.04	1,063.29	28.75	37.987	
7,700.00	7,588.58	7,617.74	7,588.58	17.47	14.10	-90.39	249.64	-144.43	1,092.04	1,063.14	28.90	37.793	
7,800.00	7,688.58	7,717.74	7,688.58	17.53	14.18	-90.39	249.64	-144.43	1,092.04	1,062.99	29.04	37.600	
7,900.00	7,788.58	7,817.74	7,788.58	17.59	14.27	-90.39	249.64	-144.43	1,092.04	1,062.84	29.19	37.409	
8,000.00	7,888.58	7,917.74	7,888.58	17.65	14.36	-90.39	249.64	-144.43	1,092.04	1,062.70	29.34	37.220	
8,100.00	7,988.58	8,017.74	7,988.58	17.71	14.44	-90.39	249.64	-144.43	1,092.04	1,062.55	29.49	37.033	
8,200.00	8,088.58	8,117.74	8,088.58	17.77	14.53	-90.39	249.64	-144.43	1,092.04	1,062.40	29.64	36.847	
8,300.00	8,188.58	8,217.74	8,188.58	17.83	14.62	-90.39	249.64	-144.43	1,092.04	1,062.25	29.79	36.663	
8,400.00	8,288.58	8,317.74	8,288.58	17.89	14.70	-90.39	249.64	-144.43	1,092.04	1,062.10	29.93	36.481	
8,500.00	8,388.58	8,417.74	8,388.58	17.95	14.79	-90.39	249.64	-144.43	1,092.04	1,061.95	30.08	36.300	
8,600.00	8,488.58	8,517.74	8,488.58	18.02	14.87	-90.39	249.64	-144.43	1,092.04	1,061.80	30.23	36.121	
8,700.00	8,588.58	8,617.74	8,588.58	18.08	14.96	-90.39	249.64	-144.43	1,092.04	1,061.65	30.38	35.944	
8,800.00	8,688.58	8,717.74	8,688.58	18.14	15.04	-90.39	249.64	-144.43	1,092.04	1,061.50	30.53	35.768	
8,900.00	8,788.58	8,817.74	8,788.58	18.20	15.13	-90.39	249.64	-144.43	1,092.04	1,061.35	30.68	35.594	
9,000.00	8,888.58	8,917.74	8,888.58	18.26	15.22	-90.39	249.64	-144.43	1,092.04	1,061.21	30.83	35.421	
9,100.00	8,988.58	9,017.74	8,988.58	18.32	15.30	-90.39	249.64	-144.43	1,092.04	1,061.06	30.98	35.250	
9,200.00	9,088.58	9,117.74	9,088.58	18.39	15.39	-90.39	249.64	-144.43	1,092.04	1,060.91	31.13	35.081	
9,300.00	9,188.58	9,217.74	9,188.58	18.45	15.47	-90.39	249.64	-144.43	1,092.04	1,060.76	31.28	34.913	
9,400.00	9,288.58	9,317.74	9,288.58	18.51	15.56	-90.39	249.64	-144.43	1,092.04	1,060.61	31.43	34.746	
9,500.00	9,388.58	9,417.74	9,388.58	18.57	15.64	-90.39	249.64	-144.43	1,092.04	1,060.46	31.58	34.581	
9,600.00	9,488.58	9,517.74	9,488.58	18.64	15.73	-90.39	249.64	-144.43	1,092.04	1,060.31	31.73	34.417	
9,700.00	9,588.58	9,617.74	9,588.58	18.70	15.82	-90.39	249.64	-144.43	1,092.04	1,060.16	31.88	34.255	
9,800.00	9,688.58	9,717.74	9,688.58	18.76	15.90	-90.39	249.64	-144.43	1,092.04	1,060.01	32.03	34.094	
9,900.00	9,788.58	9,817.74	9,788.58	18.83	15.99	-90.39	249.64	-144.43	1,092.04	1,059.86	32.18	33.935	
10,000.00	9,888.58	9,917.74	9,888.58	18.89	16.07	-90.39	249.64	-144.43	1,092.04	1,059.70	32.33	33.777	
10,100.00	9,988.58	10,017.74	9,988.58	18.95	16.16	-90.39	249.64	-144.43	1,092.04	1,059.55	32.48	33.620	
10,200.00	10,088.58	10,117.74	10,088.58	19.02	16.24	-90.39	249.64	-144.43	1,092.04	1,059.40	32.63	33.465	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 135H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,188.58	10,217.74	10,188.58	19.08	16.33	-90.39	249.64	-144.43	1,092.04	1,059.25	32.78	33.311	
10,400.00	10,288.58	10,317.74	10,288.58	19.15	16.41	-90.39	249.64	-144.43	1,092.04	1,059.10	32.93	33.158	
10,500.00	10,388.58	10,417.74	10,388.58	19.21	16.50	-90.39	249.64	-144.43	1,092.04	1,058.95	33.09	33.007	
10,600.00	10,488.58	10,517.74	10,488.58	19.27	16.58	-90.39	249.64	-144.43	1,092.04	1,058.80	33.24	32.857	
10,700.00	10,588.58	10,617.74	10,588.58	19.34	16.67	-90.39	249.64	-144.43	1,092.04	1,058.65	33.39	32.708	
10,800.00	10,688.58	10,717.74	10,688.58	19.40	16.75	-90.39	249.64	-144.43	1,092.04	1,058.50	33.54	32.560	
10,900.00	10,788.58	10,817.74	10,788.58	19.47	16.84	-90.39	249.64	-144.43	1,092.04	1,058.35	33.69	32.414	
11,000.00	10,888.58	10,917.74	10,888.58	19.53	16.92	-90.39	249.64	-144.43	1,092.04	1,058.19	33.84	32.269	
11,100.00	10,988.58	11,017.74	10,988.58	19.60	17.01	-90.39	249.64	-144.43	1,092.04	1,058.04	33.99	32.125	
11,200.00	11,088.58	11,117.74	11,088.58	19.66	17.09	-90.39	249.64	-144.43	1,092.04	1,057.89	34.14	31.982	
11,300.00	11,188.58	11,217.74	11,188.58	19.73	17.18	-90.39	249.64	-144.43	1,092.04	1,057.74	34.30	31.841	
11,400.00	11,288.58	11,317.74	11,288.58	19.79	17.26	-90.39	249.64	-144.43	1,092.04	1,057.59	34.45	31.700	
11,500.00	11,388.58	11,417.74	11,388.58	19.86	17.35	-90.39	249.64	-144.43	1,092.04	1,057.43	34.60	31.561	
11,600.00	11,488.58	11,517.74	11,488.58	19.92	17.43	-90.39	249.64	-144.43	1,092.04	1,057.28	34.75	31.425	
11,700.00	11,588.58	11,617.82	11,588.63	19.99	17.48	-90.45	248.47	-144.42	1,092.03	1,057.18	34.85	31.333	
11,710.92	11,599.50	11,628.72	11,599.50	20.00	17.49	-90.49	247.67	-144.41	1,092.03	1,057.18	34.85	31.333	
11,800.00	11,688.58	11,715.69	11,685.29	20.05	17.51	-91.21	233.92	-144.29	1,092.12	1,057.31	34.81	31.371	
11,900.00	11,788.58	11,806.22	11,771.32	20.12	17.52	-92.68	206.01	-144.05	1,092.96	1,058.25	34.71	31.486	
12,000.00	11,888.58	11,886.34	11,842.95	20.19	17.52	-94.55	170.27	-143.75	1,095.72	1,061.11	34.61	31.655	
12,100.00	11,988.51	11,956.26	11,900.87	20.25	17.53	83.65	131.18	-143.41	1,101.48	1,066.94	34.54	31.893	
12,200.00	12,086.82	12,022.60	11,951.04	20.31	17.53	81.12	87.84	-143.04	1,109.30	1,074.79	34.51	32.141	
12,300.00	12,180.57	12,086.99	11,994.63	20.35	17.53	78.74	40.50	-142.63	1,118.24	1,083.65	34.59	32.324	
12,400.00	12,266.93	12,150.00	12,031.89	20.39	17.53	76.57	-10.28	-142.19	1,127.53	1,092.74	34.79	32.413	
12,500.00	12,343.26	12,211.80	12,062.80	20.44	17.53	74.67	-63.76	-141.73	1,136.44	1,101.36	35.08	32.395	
12,600.00	12,407.24	12,272.88	12,087.51	20.52	17.54	73.09	-119.57	-141.25	1,144.36	1,108.92	35.44	32.287	
12,700.00	12,456.94	12,333.38	12,106.00	20.67	17.56	71.88	-177.15	-140.76	1,150.77	1,114.93	35.84	32.108	
12,800.00	12,490.84	12,400.00	12,119.22	20.88	17.58	71.02	-242.41	-140.19	1,155.30	1,119.07	36.23	31.889	
12,900.00	12,507.91	12,450.00	12,124.11	21.18	17.60	70.64	-292.15	-139.77	1,157.62	1,121.02	36.59	31.633	
13,000.00	12,510.43	12,538.07	12,125.48	21.56	17.65	70.58	-380.20	-139.01	1,157.90	1,120.91	37.00	31.297	
13,100.00	12,511.30	12,638.07	12,126.35	22.01	17.73	70.58	-480.19	-138.15	1,157.90	1,120.32	37.59	30.807	
13,200.00	12,512.18	12,738.07	12,127.22	22.52	17.85	70.58	-580.18	-137.29	1,157.91	1,119.56	38.34	30.198	
13,300.00	12,513.05	12,838.07	12,128.09	23.10	18.04	70.58	-680.18	-136.42	1,157.91	1,118.65	39.26	29.494	
13,400.00	12,513.92	12,938.07	12,128.96	23.73	18.35	70.58	-780.17	-135.56	1,157.91	1,117.58	40.32	28.716	
13,500.00	12,514.80	13,038.07	12,129.83	24.41	18.82	70.58	-880.16	-134.70	1,157.91	1,116.39	41.52	27.886	
13,600.00	12,515.67	13,138.07	12,130.70	25.15	19.43	70.58	-980.15	-133.84	1,157.91	1,115.06	42.85	27.023	
13,700.00	12,516.55	13,238.07	12,131.57	25.93	20.17	70.58	-1,080.15	-132.98	1,157.91	1,113.62	44.29	26.145	
13,800.00	12,517.42	13,338.07	12,132.45	26.76	20.99	70.58	-1,180.14	-132.12	1,157.91	1,112.08	45.83	25.266	
13,900.00	12,518.29	13,438.07	12,133.32	27.63	21.88	70.58	-1,280.13	-131.26	1,157.91	1,110.45	47.46	24.396	
14,000.00	12,519.17	13,538.07	12,134.19	28.53	22.82	70.58	-1,380.12	-130.40	1,157.91	1,108.73	49.18	23.544	
14,100.00	12,520.04	13,638.07	12,135.06	29.47	23.81	70.58	-1,480.12	-129.54	1,157.91	1,106.94	50.97	22.716	
14,200.00	12,520.91	13,738.07	12,135.93	30.44	24.84	70.58	-1,580.11	-128.68	1,157.92	1,105.08	52.83	21.916	
14,300.00	12,521.79	13,838.07	12,136.80	31.44	25.91	70.58	-1,680.10	-127.81	1,157.92	1,103.16	54.76	21.147	
14,400.00	12,522.66	13,938.07	12,137.67	32.46	27.00	70.58	-1,780.09	-126.95	1,157.92	1,101.19	56.73	20.411	
14,500.00	12,523.53	14,038.07	12,138.54	33.51	28.12	70.58	-1,880.09	-126.09	1,157.92	1,099.16	58.75	19.708	
14,600.00	12,524.41	14,138.07	12,139.42	34.58	29.26	70.58	-1,980.08	-125.23	1,157.92	1,097.10	60.82	19.038	
14,700.00	12,525.28	14,238.07	12,140.29	35.67	30.42	70.58	-2,080.07	-124.37	1,157.92	1,094.99	62.93	18.400	
14,800.00	12,526.16	14,338.07	12,141.16	36.78	31.60	70.58	-2,180.06	-123.51	1,157.92	1,092.85	65.07	17.794	
14,900.00	12,527.03	14,438.07	12,142.03	37.90	32.79	70.58	-2,280.06	-122.65	1,157.92	1,090.67	67.25	17.219	
15,000.00	12,527.90	14,538.07	12,142.90	39.04	34.00	70.58	-2,380.05	-121.79	1,157.92	1,088.47	69.45	16.672	
15,100.00	12,528.78	14,638.07	12,143.77	40.20	35.22	70.58	-2,480.04	-120.93	1,157.92	1,086.24	71.68	16.153	
15,200.00	12,529.65	14,738.07	12,144.64	41.37	36.45	70.58	-2,580.03	-120.07	1,157.93	1,083.99	73.94	15.661	
15,300.00	12,530.52	14,838.07	12,145.51	42.55	37.69	70.58	-2,680.03	-119.20	1,157.93	1,081.71	76.22	15.193	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 135H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	12,531.40	14,938.07	12,146.39	43.74	38.93	70.58	-2,780.02	-118.34	1,157.93	1,079.41	78.51	14.748	
15,500.00	12,532.27	15,038.07	12,147.26	44.94	40.19	70.58	-2,880.01	-117.48	1,157.93	1,077.10	80.83	14.326	
15,600.00	12,533.14	15,138.07	12,148.13	46.15	41.45	70.58	-2,980.00	-116.62	1,157.93	1,074.77	83.16	13.924	
15,700.00	12,534.02	15,238.07	12,149.00	47.37	42.72	70.58	-3,080.00	-115.76	1,157.93	1,072.42	85.51	13.542	
15,800.00	12,534.89	15,338.07	12,149.87	48.59	44.00	70.58	-3,179.99	-114.90	1,157.93	1,070.06	87.87	13.178	
15,900.00	12,535.76	15,438.07	12,150.74	49.83	45.28	70.58	-3,279.98	-114.04	1,157.93	1,067.69	90.25	12.831	
16,000.00	12,536.64	15,538.07	12,151.61	51.07	46.57	70.58	-3,379.97	-113.18	1,157.93	1,065.30	92.63	12.500	
16,100.00	12,537.51	15,638.07	12,152.48	52.32	47.86	70.58	-3,479.97	-112.32	1,157.93	1,062.90	95.03	12.185	
16,200.00	12,538.39	15,738.07	12,153.36	53.57	49.16	70.58	-3,579.96	-111.46	1,157.93	1,060.49	97.44	11.883	
16,300.00	12,539.26	15,838.07	12,154.23	54.83	50.46	70.58	-3,679.95	-110.60	1,157.94	1,058.08	99.86	11.596	
16,400.00	12,540.13	15,938.07	12,155.10	56.09	51.76	70.58	-3,779.94	-109.73	1,157.94	1,055.65	102.29	11.320	
16,500.00	12,541.01	16,038.07	12,155.97	57.36	53.07	70.58	-3,879.94	-108.87	1,157.94	1,053.21	104.72	11.057	
16,600.00	12,541.88	16,138.07	12,156.84	58.64	54.38	70.58	-3,979.93	-108.01	1,157.94	1,050.77	107.17	10.805	
16,700.00	12,542.75	16,238.07	12,157.71	59.91	55.69	70.58	-4,079.92	-107.15	1,157.94	1,048.32	109.62	10.563	
16,800.00	12,543.63	16,338.07	12,158.58	61.20	57.01	70.58	-4,179.91	-106.29	1,157.94	1,045.87	112.08	10.332	
16,900.00	12,544.50	16,438.07	12,159.45	62.48	58.32	70.58	-4,279.91	-105.43	1,157.94	1,043.40	114.54	10.110	
17,000.00	12,545.37	16,538.07	12,160.33	63.77	59.64	70.58	-4,379.90	-104.57	1,157.94	1,040.93	117.01	9.896	
17,100.00	12,546.25	16,638.07	12,161.20	65.06	60.97	70.58	-4,479.89	-103.71	1,157.94	1,038.46	119.48	9.691	
17,200.00	12,547.12	16,738.07	12,162.07	66.36	62.29	70.58	-4,579.88	-102.85	1,157.94	1,035.98	121.96	9.494	
17,300.00	12,547.99	16,838.07	12,162.94	67.66	63.62	70.58	-4,679.88	-101.99	1,157.95	1,033.50	124.45	9.304	
17,400.00	12,548.87	16,938.07	12,163.81	68.96	64.95	70.58	-4,779.87	-101.12	1,157.95	1,031.01	126.94	9.122	
17,500.00	12,549.74	17,038.07	12,164.68	70.26	66.28	70.58	-4,879.86	-100.26	1,157.95	1,028.51	129.43	8.946	
17,600.00	12,550.62	17,138.07	12,165.55	71.57	67.61	70.58	-4,979.85	-99.40	1,157.95	1,026.02	131.93	8.777	
17,700.00	12,551.49	17,238.07	12,166.43	72.88	68.94	70.58	-5,079.85	-98.54	1,157.95	1,023.51	134.44	8.613	
17,800.00	12,552.36	17,338.07	12,167.30	74.19	70.27	70.58	-5,179.84	-97.68	1,157.95	1,021.01	136.94	8.456	
17,900.00	12,553.24	17,438.07	12,168.17	75.50	71.61	70.58	-5,279.83	-96.82	1,157.95	1,018.50	139.45	8.304	
18,000.00	12,554.11	17,538.07	12,169.04	76.81	72.95	70.58	-5,379.82	-95.96	1,157.95	1,015.99	141.96	8.157	
18,100.00	12,554.98	17,638.07	12,169.91	78.13	74.29	70.58	-5,479.82	-95.10	1,157.95	1,013.47	144.48	8.015	
18,200.00	12,555.86	17,738.07	12,170.78	79.45	75.63	70.58	-5,579.81	-94.24	1,157.95	1,010.96	147.00	7.877	
18,300.00	12,556.73	17,838.07	12,171.65	80.77	76.97	70.58	-5,679.80	-93.38	1,157.95	1,008.44	149.52	7.745	
18,400.00	12,557.60	17,938.07	12,172.52	82.09	78.31	70.58	-5,779.79	-92.52	1,157.96	1,005.91	152.04	7.616	
18,500.00	12,558.48	18,038.07	12,173.40	83.42	79.65	70.58	-5,879.79	-91.65	1,157.96	1,003.39	154.57	7.491	
18,600.00	12,559.35	18,138.07	12,174.27	84.74	80.99	70.58	-5,979.78	-90.79	1,157.96	1,000.86	157.10	7.371	
18,700.00	12,560.23	18,238.07	12,175.14	86.07	82.34	70.58	-6,079.77	-89.93	1,157.96	998.33	159.63	7.254	
18,800.00	12,561.10	18,338.07	12,176.01	87.40	83.68	70.58	-6,179.76	-89.07	1,157.96	995.79	162.16	7.141	
18,900.00	12,561.97	18,438.07	12,176.88	88.72	85.03	70.57	-6,279.76	-88.21	1,157.96	993.26	164.70	7.031	
19,000.00	12,562.85	18,538.07	12,177.75	90.05	86.38	70.57	-6,379.75	-87.35	1,157.96	990.72	167.24	6.924	
19,100.00	12,563.72	18,638.07	12,178.62	91.39	87.72	70.57	-6,479.74	-86.49	1,157.96	988.18	169.78	6.820	
19,200.00	12,564.59	18,738.07	12,179.49	92.72	89.07	70.57	-6,579.73	-85.63	1,157.96	985.64	172.32	6.720	
19,300.00	12,565.47	18,838.07	12,180.37	94.05	90.42	70.57	-6,679.73	-84.77	1,157.96	983.10	174.86	6.622	
19,400.00	12,566.34	18,938.07	12,181.24	95.39	91.77	70.57	-6,779.72	-83.91	1,157.97	980.56	177.41	6.527	
19,500.00	12,567.21	19,038.07	12,182.11	96.72	93.12	70.57	-6,879.71	-83.04	1,157.97	978.01	179.95	6.435	
19,600.00	12,568.09	19,138.07	12,182.98	98.06	94.47	70.57	-6,979.70	-82.18	1,157.97	975.47	182.50	6.345	
19,700.00	12,568.96	19,238.07	12,183.85	99.40	95.82	70.57	-7,079.70	-81.32	1,157.97	972.92	185.05	6.258	
19,800.00	12,569.83	19,338.07	12,184.72	100.73	97.17	70.57	-7,179.69	-80.46	1,157.97	970.37	187.60	6.172	
19,900.00	12,570.71	19,438.07	12,185.59	102.07	98.52	70.57	-7,279.68	-79.60	1,157.97	967.82	190.15	6.090	
20,000.00	12,571.58	19,538.07	12,186.46	103.41	99.88	70.57	-7,379.67	-78.74	1,157.97	965.26	192.71	6.009	
20,100.00	12,572.46	19,638.07	12,187.34	104.75	101.23	70.57	-7,479.67	-77.88	1,157.97	962.71	195.26	5.930	
20,200.00	12,573.33	19,738.07	12,188.21	106.10	102.58	70.57	-7,579.66	-77.02	1,157.97	960.15	197.82	5.854	
20,300.00	12,574.20	19,838.07	12,189.08	107.44	103.94	70.57	-7,679.65	-76.16	1,157.97	957.60	200.38	5.779	
20,400.00	12,575.08	19,938.07	12,189.95	108.78	105.29	70.57	-7,779.64	-75.30	1,157.97	955.04	202.93	5.706	
20,500.00	12,575.95	20,038.07	12,190.82	110.12	106.65	70.57	-7,879.64	-74.44	1,157.98	952.48	205.49	5.635	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 135H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,576.82	20,138.07	12,191.69	111.47	108.00	70.57	-7,979.63	-73.57	1,157.98	949.92	208.05	5.566	
20,700.00	12,577.70	20,238.07	12,192.56	112.81	109.36	70.57	-8,079.62	-72.71	1,157.98	947.36	210.61	5.498	
20,800.00	12,578.57	20,338.07	12,193.43	114.16	110.71	70.57	-8,179.61	-71.85	1,157.98	944.80	213.18	5.432	
20,900.00	12,579.44	20,438.07	12,194.31	115.51	112.07	70.57	-8,279.61	-70.99	1,157.98	942.24	215.74	5.368	
21,000.00	12,580.32	20,538.07	12,195.18	116.85	113.43	70.57	-8,379.60	-70.13	1,157.98	939.68	218.30	5.304	
21,100.00	12,581.19	20,638.07	12,196.05	118.20	114.78	70.57	-8,479.59	-69.27	1,157.98	937.11	220.87	5.243	
21,200.00	12,582.06	20,738.07	12,196.92	119.55	116.14	70.57	-8,579.58	-68.41	1,157.98	934.55	223.43	5.183	
21,300.00	12,582.94	20,838.07	12,197.79	120.89	117.50	70.57	-8,679.58	-67.55	1,157.98	931.98	226.00	5.124	
21,400.00	12,583.81	20,938.07	12,198.66	122.24	118.86	70.57	-8,779.57	-66.69	1,157.98	929.42	228.57	5.066	
21,500.00	12,584.69	21,038.07	12,199.53	123.59	120.21	70.57	-8,879.56	-65.83	1,157.99	926.85	231.14	5.010	
21,600.00	12,585.56	21,138.07	12,200.40	124.94	121.57	70.57	-8,979.55	-64.96	1,157.99	924.28	233.70	4.955	
21,700.00	12,586.43	21,238.07	12,201.28	126.29	122.93	70.57	-9,079.55	-64.10	1,157.99	921.71	236.27	4.901	
21,800.00	12,587.31	21,338.07	12,202.15	127.64	124.29	70.57	-9,179.54	-63.24	1,157.99	919.15	238.84	4.848	
21,900.00	12,588.18	21,438.07	12,203.02	128.99	125.65	70.57	-9,279.53	-62.38	1,157.99	916.58	241.41	4.797	
22,000.00	12,589.05	21,538.07	12,203.89	130.34	127.01	70.57	-9,379.52	-61.52	1,157.99	914.01	243.99	4.746	
22,100.00	12,589.93	21,638.07	12,204.76	131.70	128.37	70.57	-9,479.52	-60.66	1,157.99	911.43	246.56	4.697	
22,200.00	12,590.80	21,738.07	12,205.63	133.05	129.73	70.57	-9,579.51	-59.80	1,157.99	908.86	249.13	4.648	
22,300.00	12,591.67	21,838.07	12,206.50	134.40	131.09	70.57	-9,679.50	-58.94	1,157.99	906.29	251.70	4.601	
22,400.00	12,592.55	21,938.07	12,207.37	135.75	132.45	70.57	-9,779.49	-58.08	1,157.99	903.72	254.28	4.554	
22,500.00	12,593.42	22,038.07	12,208.25	137.11	133.81	70.57	-9,879.49	-57.22	1,158.00	901.14	256.85	4.508	
22,600.00	12,594.30	22,138.07	12,209.12	138.46	135.17	70.57	-9,979.48	-56.36	1,158.00	898.57	259.43	4.464	
22,700.00	12,595.17	22,238.07	12,209.99	139.81	136.53	70.57	-10,079.47	-55.49	1,158.00	896.00	262.00	4.420	
22,800.00	12,596.04	22,338.07	12,210.86	141.17	137.89	70.57	-10,179.46	-54.63	1,158.00	893.42	264.58	4.377	
22,807.56	12,596.11	22,345.63	12,210.93	141.27	137.99	70.57	-10,187.02	-54.57	1,158.00	893.23	264.77	4.374	
22,875.30	12,596.70	22,411.61	12,211.50	142.19	138.89	70.57	-10,253.00	-54.00	1,158.00	891.52	266.48	4.345	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 137H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	1.00	0.50	0.50	135.00	-25.00	25.00	35.37				
100.00	100.00	99.00	100.00	0.98	0.97	135.00	-25.00	25.00	35.36	33.40	1.95	18.085	
200.00	200.00	199.00	200.00	1.56	1.56	135.00	-25.00	25.00	35.36	32.24	3.12	11.346	
300.00	300.00	299.00	300.00	1.98	1.98	135.00	-25.00	25.00	35.36	31.40	3.96	8.932	CC
400.00	400.00	398.51	399.50	2.33	2.41	133.27	-24.70	26.23	36.03	31.36	4.68	7.707	ES
500.00	500.00	497.87	498.79	2.63	2.77	128.42	-23.77	29.98	38.28	32.97	5.31	7.207	
600.00	600.00	596.98	597.68	2.91	3.11	121.56	-22.24	36.20	42.55	36.65	5.90	7.207	
700.00	700.00	696.31	696.65	3.16	3.25	114.45	-20.21	44.44	48.93	42.62	6.32	7.746	
800.00	800.00	795.93	795.89	3.40	3.49	108.93	-18.13	52.87	56.04	49.23	6.82	8.221	
900.00	900.00	895.55	895.13	3.62	3.73	104.67	-16.05	61.30	63.55	56.26	7.29	8.716	
1,000.00	1,000.00	995.17	994.37	3.76	3.96	9.33	-13.97	69.73	71.29	63.62	7.67	9.295	
1,100.00	1,099.98	1,094.93	1,093.75	4.00	4.19	6.80	-11.89	78.17	77.45	69.31	8.14	9.512	
1,200.00	1,199.88	1,194.82	1,193.26	4.24	4.41	4.79	-9.81	86.63	81.14	72.54	8.60	9.433	
1,300.00	1,299.63	1,294.78	1,292.84	4.46	4.63	3.06	-7.72	95.09	82.30	73.25	9.05	9.092	
1,400.00	1,399.25	1,394.75	1,392.43	4.60	4.85	1.41	-5.63	103.54	81.90	72.49	9.41	8.707	
1,500.00	1,498.87	1,494.72	1,492.02	4.78	5.06	-0.25	-3.55	112.00	81.54	71.74	9.80	8.319	
1,600.00	1,598.49	1,594.69	1,591.61	4.96	5.27	-1.93	-1.46	120.46	81.26	71.06	10.20	7.969	
1,700.00	1,698.11	1,694.66	1,691.20	5.14	5.47	-3.62	0.62	128.92	81.05	70.46	10.59	7.655	
1,800.00	1,797.73	1,794.63	1,790.79	5.32	5.68	-5.32	2.71	137.38	80.90	69.93	10.98	7.371	
1,900.00	1,897.34	1,894.60	1,890.38	5.49	5.88	-7.02	4.79	145.84	80.83	69.47	11.36	7.114	
1,951.30	1,948.45	1,945.89	1,941.47	5.59	5.98	-7.90	5.86	150.18	80.82	69.26	11.56	6.992	
2,000.00	1,996.96	1,994.58	1,989.97	5.67	6.08	-8.72	6.88	154.30	80.83	69.08	11.75	6.882	
2,100.00	2,096.58	2,094.55	2,089.56	5.85	6.28	-10.43	8.97	162.76	80.90	68.77	12.13	6.671	
2,200.00	2,196.20	2,194.52	2,189.15	6.04	6.49	-12.12	11.05	171.22	81.04	68.52	12.52	6.472	
2,300.00	2,295.72	2,292.67	2,286.84	6.23	6.70	-7.31	13.33	180.47	81.08	68.16	12.92	6.277	
2,400.00	2,394.97	2,390.58	2,384.01	6.43	6.92	-4.15	16.20	192.10	81.17	67.84	13.33	6.088	
2,500.00	2,493.89	2,488.49	2,480.84	6.64	7.15	-1.89	19.66	206.15	81.31	67.56	13.75	5.912	
2,600.00	2,592.40	2,586.40	2,577.28	6.85	7.38	-0.03	23.72	222.60	81.47	67.30	14.17	5.750	
2,700.00	2,690.45	2,684.31	2,673.24	7.07	7.61	1.72	28.36	241.44	81.64	67.06	14.58	5.598	
2,800.00	2,787.96	2,782.21	2,768.67	7.28	7.84	3.53	33.59	262.67	81.84	66.84	15.00	5.457	
2,900.00	2,884.87	2,880.25	2,863.64	7.49	8.03	5.47	39.42	286.29	82.06	66.69	15.36	5.341	
3,000.00	2,981.46	2,980.24	2,960.21	7.68	8.23	6.64	45.61	311.42	82.19	66.42	15.76	5.213	
3,100.00	3,078.05	3,080.22	3,056.79	7.87	8.45	7.81	51.81	336.55	82.35	66.17	16.18	5.089	
3,200.00	3,174.64	3,180.21	3,153.37	8.06	8.66	8.97	58.00	361.69	82.55	65.95	16.60	4.972	
3,300.00	3,271.24	3,280.19	3,249.94	8.26	8.89	10.13	64.20	386.82	82.78	65.75	17.02	4.862	
3,400.00	3,367.83	3,380.18	3,346.52	8.51	9.12	11.27	70.39	411.95	83.04	65.59	17.45	4.759	
3,500.00	3,464.42	3,480.16	3,443.10	8.80	9.37	12.42	76.59	437.08	83.34	65.46	17.88	4.661	
3,600.00	3,561.01	3,580.15	3,539.68	9.09	9.64	13.55	82.78	462.21	83.67	65.36	18.31	4.569	
3,700.00	3,657.60	3,680.14	3,636.25	9.38	9.94	14.67	88.98	487.34	84.04	65.29	18.75	4.482	
3,800.00	3,754.20	3,780.12	3,732.83	9.68	10.24	15.78	95.17	512.48	84.43	65.24	19.19	4.400	
3,900.00	3,850.79	3,880.11	3,829.41	9.98	10.55	16.89	101.36	537.61	84.86	65.22	19.64	4.322	
4,000.00	3,947.38	3,980.09	3,925.99	10.28	10.87	17.98	107.56	562.74	85.32	65.23	20.09	4.248	
4,100.00	4,043.97	4,080.08	4,022.56	10.59	11.18	19.06	113.75	587.87	85.80	65.26	20.54	4.177	
4,200.00	4,140.56	4,180.07	4,119.14	10.90	11.50	20.12	119.95	613.00	86.32	65.32	21.00	4.110	
4,300.00	4,237.16	4,280.05	4,215.72	11.21	11.82	21.18	126.14	638.13	86.87	65.40	21.47	4.046	
4,400.00	4,333.75	4,380.04	4,312.30	11.52	12.15	22.22	132.34	663.27	87.45	65.50	21.95	3.984	
4,500.00	4,430.34	4,480.02	4,408.87	11.84	12.47	23.24	138.53	688.40	88.05	65.62	22.43	3.926	
4,600.00	4,526.93	4,580.01	4,505.45	12.16	12.80	24.25	144.73	713.53	88.69	65.77	22.92	3.870	
4,700.00	4,623.53	4,679.99	4,602.03	12.48	13.13	25.25	150.92	738.66	89.35	65.94	23.41	3.816	
4,800.00	4,720.12	4,779.98	4,698.61	12.80	13.46	26.23	157.12	763.79	90.03	66.12	23.91	3.765	
4,900.00	4,816.71	4,879.97	4,795.18	13.12	13.79	27.20	163.31	788.92	90.75	66.33	24.42	3.716	
5,000.00	4,913.30	4,979.95	4,891.76	13.45	14.13	28.15	169.51	814.06	91.49	66.55	24.94	3.669	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 137H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,009.89	5,079.94	4,988.34	13.78	14.46	29.08	175.70	839.19	92.25	66.79	25.46	3.623	
5,200.00	5,106.49	5,179.92	5,084.91	14.10	14.79	30.00	181.90	864.32	93.04	67.04	25.99	3.580	
5,300.00	5,203.08	5,279.91	5,181.49	14.43	15.13	30.91	188.09	889.45	93.85	67.32	26.53	3.538	
5,400.00	5,299.67	5,379.90	5,278.07	14.75	15.47	31.80	194.29	914.58	94.69	67.63	27.06	3.499	
5,500.00	5,396.65	5,479.87	5,374.63	15.07	15.80	32.20	200.48	939.71	96.84	69.25	27.59	3.510	
5,600.00	5,494.23	5,579.77	5,471.13	15.36	16.14	31.80	206.67	964.82	101.21	73.15	28.06	3.607	
5,700.00	5,592.35	5,679.52	5,567.48	15.62	16.48	30.73	212.85	989.89	107.83	79.35	28.48	3.786	
5,800.00	5,690.94	5,779.07	5,663.64	15.86	16.82	29.16	219.02	1,014.92	116.76	87.90	28.85	4.047	
5,900.00	5,789.93	5,878.34	5,759.52	16.07	17.15	27.30	225.17	1,039.87	128.07	98.88	29.19	4.387	
6,000.00	5,889.26	5,979.48	5,857.35	16.25	17.48	25.34	231.31	1,064.78	141.37	111.83	29.54	4.786	
6,100.00	5,988.86	6,082.19	5,957.32	16.41	17.79	23.62	236.95	1,087.67	154.86	124.96	29.90	5.179	
6,200.00	6,088.66	6,185.32	6,058.29	16.53	18.08	22.13	241.97	1,108.02	168.34	138.08	30.25	5.564	
6,300.00	6,188.59	6,288.85	6,160.19	16.64	18.34	20.82	246.35	1,125.78	181.77	151.19	30.58	5.943	
6,400.00	6,288.58	6,392.80	6,262.96	16.71	18.57	92.07	250.08	1,140.90	195.14	164.31	30.83	6.330	
6,500.00	6,388.58	6,497.36	6,366.72	16.76	18.77	91.09	253.15	1,153.37	206.99	175.95	31.04	6.669	
6,600.00	6,488.58	6,602.54	6,471.42	16.82	18.94	90.40	255.55	1,163.13	216.24	185.01	31.23	6.924	
6,700.00	6,588.58	6,708.21	6,576.84	16.88	19.08	89.95	257.27	1,170.11	222.84	191.43	31.41	7.095	
6,800.00	6,688.58	6,814.19	6,682.73	16.94	19.19	89.69	258.30	1,174.27	226.77	195.20	31.56	7.184	
6,900.00	6,788.58	6,920.05	6,788.58	17.00	19.26	89.61	258.62	1,175.57	228.00	196.32	31.67	7.198	
7,000.00	6,888.58	7,020.05	6,888.58	17.05	19.31	89.61	258.62	1,175.57	228.00	196.22	31.78	7.175	
7,100.00	6,988.58	7,120.05	6,988.58	17.11	19.36	89.61	258.62	1,175.57	228.00	196.11	31.89	7.150	
7,200.00	7,088.58	7,220.05	7,088.58	17.17	19.41	89.61	258.62	1,175.57	228.00	196.00	32.00	7.125	
7,300.00	7,188.58	7,320.05	7,188.58	17.23	19.46	89.61	258.62	1,175.57	228.00	195.88	32.11	7.100	
7,400.00	7,288.58	7,420.05	7,288.58	17.29	19.51	89.61	258.62	1,175.57	228.00	195.77	32.22	7.076	
7,500.00	7,388.58	7,520.05	7,388.58	17.35	19.56	89.61	258.62	1,175.57	228.00	195.66	32.34	7.051	
7,600.00	7,488.58	7,620.05	7,488.58	17.41	19.61	89.61	258.62	1,175.57	228.00	195.55	32.45	7.026	
7,700.00	7,588.58	7,720.05	7,588.58	17.47	19.66	89.61	258.62	1,175.57	228.00	195.43	32.56	7.002	
7,800.00	7,688.58	7,820.05	7,688.58	17.53	19.72	89.61	258.62	1,175.57	228.00	195.32	32.68	6.978	
7,900.00	7,788.58	7,920.05	7,788.58	17.59	19.77	89.61	258.62	1,175.57	228.00	195.21	32.79	6.953	
8,000.00	7,888.58	8,020.05	7,888.58	17.65	19.82	89.61	258.62	1,175.57	228.00	195.09	32.90	6.929	
8,100.00	7,988.58	8,120.05	7,988.58	17.71	19.87	89.61	258.62	1,175.57	228.00	194.98	33.02	6.905	
8,200.00	8,088.58	8,220.05	8,088.58	17.77	19.93	89.61	258.62	1,175.57	228.00	194.86	33.13	6.881	
8,300.00	8,188.58	8,320.05	8,188.58	17.83	19.98	89.61	258.62	1,175.57	228.00	194.74	33.25	6.857	
8,400.00	8,288.58	8,420.05	8,288.58	17.89	20.03	89.61	258.62	1,175.57	228.00	194.63	33.37	6.833	
8,500.00	8,388.58	8,520.05	8,388.58	17.95	20.09	89.61	258.62	1,175.57	228.00	194.51	33.48	6.809	
8,600.00	8,488.58	8,620.05	8,488.58	18.02	20.14	89.61	258.62	1,175.57	228.00	194.40	33.60	6.786	
8,700.00	8,588.58	8,720.05	8,588.58	18.08	20.19	89.61	258.62	1,175.57	228.00	194.28	33.72	6.762	
8,800.00	8,688.58	8,820.05	8,688.58	18.14	20.25	89.61	258.62	1,175.57	228.00	194.16	33.84	6.738	
8,900.00	8,788.58	8,920.05	8,788.58	18.20	20.30	89.61	258.62	1,175.57	228.00	194.04	33.95	6.715	
9,000.00	8,888.58	9,020.05	8,888.58	18.26	20.36	89.61	258.62	1,175.57	228.00	193.92	34.07	6.692	
9,100.00	8,988.58	9,120.05	8,988.58	18.32	20.41	89.61	258.62	1,175.57	228.00	193.80	34.19	6.668	
9,200.00	9,088.58	9,220.05	9,088.58	18.39	20.47	89.61	258.62	1,175.57	228.00	193.69	34.31	6.645	
9,300.00	9,188.58	9,320.05	9,188.58	18.45	20.52	89.61	258.62	1,175.57	228.00	193.57	34.43	6.622	
9,400.00	9,288.58	9,420.05	9,288.58	18.51	20.58	89.61	258.62	1,175.57	228.00	193.45	34.55	6.599	
9,500.00	9,388.58	9,520.05	9,388.58	18.57	20.63	89.61	258.62	1,175.57	228.00	193.33	34.67	6.576	
9,600.00	9,488.58	9,620.05	9,488.58	18.64	20.69	89.61	258.62	1,175.57	228.00	193.21	34.79	6.554	
9,700.00	9,588.58	9,720.05	9,588.58	18.70	20.74	89.61	258.62	1,175.57	228.00	193.08	34.91	6.531	
9,800.00	9,688.58	9,820.05	9,688.58	18.76	20.80	89.61	258.62	1,175.57	228.00	192.96	35.03	6.508	
9,900.00	9,788.58	9,920.05	9,788.58	18.83	20.85	89.61	258.62	1,175.57	228.00	192.84	35.15	6.486	
10,000.00	9,888.58	10,020.05	9,888.58	18.89	20.91	89.61	258.62	1,175.57	228.00	192.72	35.28	6.463	
10,100.00	9,988.58	10,120.05	9,988.58	18.95	20.97	89.61	258.62	1,175.57	228.00	192.60	35.40	6.441	
10,200.00	10,088.58	10,220.05	10,088.58	19.02	21.02	89.61	258.62	1,175.57	228.00	192.47	35.52	6.419	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 137H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,188.58	10,320.05	10,188.58	19.08	21.08	89.61	258.62	1,175.57	228.00	192.35	35.64	6.397	
10,400.00	10,288.58	10,420.05	10,288.58	19.15	21.14	89.61	258.62	1,175.57	228.00	192.23	35.77	6.375	
10,500.00	10,388.58	10,520.05	10,388.58	19.21	21.19	89.61	258.62	1,175.57	228.00	192.11	35.89	6.353	
10,600.00	10,488.58	10,620.05	10,488.58	19.27	21.25	89.61	258.62	1,175.57	228.00	191.98	36.01	6.331	
10,700.00	10,588.58	10,720.05	10,588.58	19.34	21.31	89.61	258.62	1,175.57	228.00	191.86	36.14	6.309	
10,800.00	10,688.58	10,820.05	10,688.58	19.40	21.36	89.61	258.62	1,175.57	228.00	191.73	36.26	6.287	
10,900.00	10,788.58	10,920.05	10,788.58	19.47	21.42	89.61	258.62	1,175.57	228.00	191.61	36.39	6.266	
11,000.00	10,888.58	11,020.05	10,888.58	19.53	21.48	89.61	258.62	1,175.57	228.00	191.48	36.51	6.244	
11,100.00	10,988.58	11,120.05	10,988.58	19.60	21.54	89.61	258.62	1,175.57	228.00	191.36	36.64	6.223	
11,200.00	11,088.58	11,220.05	11,088.58	19.66	21.60	89.61	258.62	1,175.57	228.00	191.23	36.76	6.202	
11,300.00	11,188.58	11,320.05	11,188.58	19.73	21.65	89.61	258.62	1,175.57	228.00	191.11	36.89	6.181	
11,400.00	11,288.58	11,420.05	11,288.58	19.79	21.71	89.61	258.62	1,175.57	228.00	190.98	37.02	6.159	
11,500.00	11,388.58	11,520.05	11,388.58	19.86	21.77	89.61	258.62	1,175.57	228.00	190.85	37.14	6.138	
11,600.00	11,488.58	11,620.05	11,488.58	19.92	21.83	89.61	258.62	1,175.57	228.00	190.73	37.27	6.118	
11,607.38	11,495.96	11,627.43	11,495.96	19.93	21.83	89.61	258.62	1,175.57	228.00	190.72	37.28	6.116	
11,700.00	11,588.58	11,719.98	11,588.50	19.99	21.88	89.86	257.64	1,175.58	228.00	190.63	37.37	6.101	
11,800.00	11,688.58	11,817.61	11,685.00	20.05	21.93	93.36	243.68	1,175.70	228.54	191.03	37.50	6.094	
11,900.00	11,788.58	11,908.12	11,771.16	20.12	21.97	100.13	216.28	1,175.93	232.62	194.77	37.85	6.145	
12,000.00	11,888.58	11,988.37	11,843.12	20.19	22.00	108.42	180.91	1,176.24	245.26	206.56	38.70	6.338	
12,100.00	11,988.51	12,058.50	11,901.44	20.25	22.03	-61.84	142.02	1,176.57	269.66	229.52	40.14	6.717	
12,200.00	12,086.82	12,125.05	11,951.99	20.31	22.07	-53.18	98.80	1,176.95	299.74	257.95	41.79	7.172	
12,300.00	12,180.57	12,189.65	11,995.95	20.35	22.12	-46.40	51.52	1,177.35	330.95	287.50	43.45	7.616	
12,400.00	12,266.93	12,250.00	12,031.97	20.39	22.19	-41.35	3.13	1,177.77	360.70	315.56	45.14	7.991	
12,500.00	12,343.26	12,314.85	12,064.77	20.44	22.29	-37.40	-52.77	1,178.25	387.23	340.64	46.60	8.310	
12,600.00	12,407.24	12,376.11	12,089.77	20.52	22.41	-34.62	-108.66	1,178.73	409.48	361.46	48.03	8.526	
12,700.00	12,456.94	12,436.79	12,108.52	20.67	22.56	-32.69	-166.34	1,179.23	426.68	377.35	49.33	8.649	
12,800.00	12,490.84	12,500.00	12,121.45	20.88	22.75	-31.46	-228.18	1,179.76	438.36	387.90	50.46	8.687	
12,900.00	12,507.91	12,557.16	12,127.21	21.18	22.96	-30.90	-285.03	1,180.25	444.18	392.66	51.52	8.622	
13,000.00	12,510.43	12,640.96	12,128.45	21.56	23.29	-30.83	-368.81	1,180.97	444.86	392.77	52.09	8.540	
13,100.00	12,511.30	12,740.96	12,129.33	22.01	23.76	-30.83	-468.80	1,181.84	444.86	392.34	52.52	8.471	
13,200.00	12,512.18	12,840.96	12,130.20	22.52	24.28	-30.83	-568.79	1,182.70	444.86	391.88	52.98	8.396	
13,300.00	12,513.05	12,940.96	12,131.07	23.10	24.85	-30.83	-668.78	1,183.56	444.86	391.36	53.50	8.315	
13,400.00	12,513.92	13,040.96	12,131.94	23.73	25.48	-30.83	-768.78	1,184.42	444.86	390.81	54.06	8.230	
13,500.00	12,514.80	13,140.96	12,132.81	24.41	26.15	-30.83	-868.77	1,185.28	444.87	390.21	54.65	8.140	
13,600.00	12,515.67	13,240.96	12,133.68	25.15	26.86	-30.83	-968.76	1,186.14	444.87	389.58	55.29	8.046	
13,700.00	12,516.55	13,340.96	12,134.56	25.93	27.62	-30.83	-1,068.75	1,187.00	444.87	388.90	55.97	7.948	
13,800.00	12,517.42	13,440.96	12,135.43	26.76	28.41	-30.83	-1,168.75	1,187.86	444.87	388.19	56.69	7.848	
13,900.00	12,518.29	13,540.96	12,136.30	27.63	29.24	-30.83	-1,268.74	1,188.73	444.87	387.44	57.44	7.745	
14,000.00	12,519.17	13,640.96	12,137.17	28.53	30.11	-30.83	-1,368.73	1,189.59	444.88	386.65	58.22	7.641	
14,100.00	12,520.04	13,740.96	12,138.04	29.47	31.01	-30.83	-1,468.72	1,190.45	444.88	385.84	59.04	7.535	
14,200.00	12,520.91	13,840.96	12,138.91	30.44	31.94	-30.83	-1,568.72	1,191.31	444.88	384.99	59.89	7.428	
14,300.00	12,521.79	13,940.96	12,139.79	31.44	32.89	-30.83	-1,668.71	1,192.17	444.88	384.11	60.78	7.320	
14,400.00	12,522.66	14,040.96	12,140.66	32.46	33.88	-30.83	-1,768.70	1,193.03	444.88	383.20	61.69	7.212	
14,500.00	12,523.53	14,140.96	12,141.53	33.51	34.88	-30.83	-1,868.69	1,193.89	444.88	382.26	62.63	7.104	
14,600.00	12,524.41	14,240.96	12,142.40	34.58	35.91	-30.83	-1,968.69	1,194.75	444.89	381.30	63.59	6.996	
14,700.00	12,525.28	14,340.96	12,143.27	35.67	36.96	-30.83	-2,068.68	1,195.62	444.89	380.31	64.58	6.889	
14,800.00	12,526.16	14,440.96	12,144.14	36.78	38.03	-30.83	-2,168.67	1,196.48	444.89	379.29	65.60	6.782	
14,900.00	12,527.03	14,540.96	12,145.02	37.90	39.12	-30.83	-2,268.66	1,197.34	444.89	378.25	66.64	6.676	
15,000.00	12,527.90	14,640.96	12,145.89	39.04	40.22	-30.83	-2,368.66	1,198.20	444.89	377.19	67.70	6.572	
15,100.00	12,528.78	14,740.96	12,146.76	40.20	41.34	-30.83	-2,468.65	1,199.06	444.89	376.11	68.78	6.468	
15,200.00	12,529.65	14,840.96	12,147.63	41.37	42.48	-30.83	-2,568.64	1,199.92	444.90	375.01	69.88	6.366	
15,300.00	12,530.52	14,940.96	12,148.50	42.55	43.62	-30.83	-2,668.63	1,200.78	444.90	373.89	71.01	6.266	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 137H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	12,531.40	15,040.96	12,149.37	43.74	44.78	-30.83	-2,768.63	1,201.65	444.90	372.75	72.15	6.167	
15,500.00	12,532.27	15,140.96	12,150.25	44.94	45.95	-30.83	-2,868.62	1,202.51	444.90	371.60	73.30	6.069	
15,600.00	12,533.14	15,240.96	12,151.12	46.15	47.13	-30.83	-2,968.61	1,203.37	444.90	370.43	74.48	5.974	
15,700.00	12,534.02	15,340.96	12,151.99	47.37	48.32	-30.83	-3,068.60	1,204.23	444.91	369.24	75.67	5.880	
15,800.00	12,534.89	15,440.96	12,152.86	48.59	49.52	-30.83	-3,168.60	1,205.09	444.91	368.03	76.87	5.787	
15,900.00	12,535.76	15,540.96	12,153.73	49.83	50.73	-30.83	-3,268.59	1,205.95	444.91	366.81	78.09	5.697	
16,000.00	12,536.64	15,640.96	12,154.60	51.07	51.95	-30.83	-3,368.58	1,206.81	444.91	365.58	79.33	5.608	
16,100.00	12,537.51	15,740.96	12,155.47	52.32	53.17	-30.83	-3,468.57	1,207.67	444.91	364.34	80.58	5.522	
16,200.00	12,538.39	15,840.96	12,156.35	53.57	54.40	-30.83	-3,568.57	1,208.54	444.91	363.08	81.84	5.437	
16,300.00	12,539.26	15,940.96	12,157.22	54.83	55.63	-30.83	-3,668.56	1,209.40	444.92	361.81	83.11	5.354	
16,400.00	12,540.13	16,040.96	12,158.09	56.09	56.88	-30.83	-3,768.55	1,210.26	444.92	360.53	84.39	5.272	
16,500.00	12,541.01	16,140.96	12,158.96	57.36	58.13	-30.83	-3,868.54	1,211.12	444.92	359.24	85.68	5.193	
16,600.00	12,541.88	16,240.96	12,159.83	58.64	59.38	-30.83	-3,968.54	1,211.98	444.92	357.93	86.99	5.115	
16,700.00	12,542.75	16,340.96	12,160.70	59.91	60.64	-30.83	-4,068.53	1,212.84	444.92	356.62	88.30	5.039	
16,800.00	12,543.63	16,440.96	12,161.58	61.20	61.90	-30.83	-4,168.52	1,213.70	444.92	355.30	89.63	4.964	
16,900.00	12,544.50	16,540.96	12,162.45	62.48	63.17	-30.83	-4,268.51	1,214.56	444.93	353.97	90.96	4.891	
17,000.00	12,545.37	16,640.96	12,163.32	63.77	64.44	-30.83	-4,368.51	1,215.43	444.93	352.63	92.30	4.820	
17,100.00	12,546.25	16,740.96	12,164.19	65.06	65.71	-30.83	-4,468.50	1,216.29	444.93	351.28	93.65	4.751	
17,200.00	12,547.12	16,840.96	12,165.06	66.36	66.99	-30.83	-4,568.49	1,217.15	444.93	349.92	95.01	4.683	
17,300.00	12,547.99	16,940.96	12,165.93	67.66	68.28	-30.83	-4,668.48	1,218.01	444.93	348.56	96.38	4.617	
17,400.00	12,548.87	17,040.96	12,166.81	68.96	69.56	-30.83	-4,768.48	1,218.87	444.94	347.19	97.75	4.552	
17,500.00	12,549.74	17,140.96	12,167.68	70.26	70.85	-30.83	-4,868.47	1,219.73	444.94	345.81	99.13	4.488	
17,600.00	12,550.62	17,240.96	12,168.55	71.57	72.14	-30.83	-4,968.46	1,220.59	444.94	344.42	100.52	4.427	
17,700.00	12,551.49	17,340.96	12,169.42	72.88	73.44	-30.83	-5,068.45	1,221.45	444.94	343.03	101.91	4.366	
17,800.00	12,552.36	17,440.96	12,170.29	74.19	74.74	-30.83	-5,168.45	1,222.32	444.94	341.63	103.31	4.307	
17,900.00	12,553.24	17,540.96	12,171.16	75.50	76.04	-30.83	-5,268.44	1,223.18	444.94	340.23	104.72	4.249	
18,000.00	12,554.11	17,640.96	12,172.04	76.81	77.34	-30.83	-5,368.43	1,224.04	444.95	338.82	106.13	4.193	
18,100.00	12,554.98	17,740.96	12,172.91	78.13	78.65	-30.83	-5,468.42	1,224.90	444.95	337.40	107.54	4.137	
18,200.00	12,555.86	17,840.96	12,173.78	79.45	79.95	-30.83	-5,568.42	1,225.76	444.95	335.98	108.97	4.083	
18,300.00	12,556.73	17,940.96	12,174.65	80.77	81.26	-30.83	-5,668.41	1,226.62	444.95	334.56	110.39	4.031	
18,400.00	12,557.60	18,040.96	12,175.52	82.09	82.57	-30.83	-5,768.40	1,227.48	444.95	333.13	111.82	3.979	
18,500.00	12,558.48	18,140.96	12,176.39	83.42	83.89	-30.83	-5,868.39	1,228.35	444.95	331.69	113.26	3.929	
18,600.00	12,559.35	18,240.96	12,177.27	84.74	85.20	-30.82	-5,968.39	1,229.21	444.96	330.25	114.70	3.879	
18,700.00	12,560.23	18,340.96	12,178.14	86.07	86.52	-30.82	-6,068.38	1,230.07	444.96	328.81	116.15	3.831	
18,800.00	12,561.10	18,440.96	12,179.01	87.40	87.83	-30.82	-6,168.37	1,230.93	444.96	327.36	117.60	3.784	
18,900.00	12,561.97	18,540.96	12,179.88	88.72	89.15	-30.82	-6,268.36	1,231.79	444.96	325.91	119.05	3.738	
19,000.00	12,562.85	18,640.96	12,180.75	90.05	90.48	-30.82	-6,368.36	1,232.65	444.96	324.45	120.51	3.692	
19,100.00	12,563.72	18,740.96	12,181.62	91.39	91.80	-30.82	-6,468.35	1,233.51	444.97	322.99	121.97	3.648	
19,200.00	12,564.59	18,840.96	12,182.50	92.72	93.12	-30.82	-6,568.34	1,234.37	444.97	321.53	123.44	3.605	
19,300.00	12,565.47	18,940.96	12,183.37	94.05	94.45	-30.82	-6,668.33	1,235.24	444.97	320.06	124.90	3.562	
19,400.00	12,566.34	19,040.96	12,184.24	95.39	95.77	-30.82	-6,768.33	1,236.10	444.97	318.59	126.38	3.521	
19,500.00	12,567.21	19,140.96	12,185.11	96.72	97.10	-30.82	-6,868.32	1,236.96	444.97	317.12	127.85	3.480	
19,600.00	12,568.09	19,240.96	12,185.98	98.06	98.43	-30.82	-6,968.31	1,237.82	444.97	315.64	129.33	3.441	
19,700.00	12,568.96	19,340.96	12,186.85	99.40	99.76	-30.82	-7,068.30	1,238.68	444.98	314.16	130.81	3.402	
19,800.00	12,569.83	19,440.96	12,187.72	100.73	101.09	-30.82	-7,168.30	1,239.54	444.98	312.68	132.30	3.363	
19,900.00	12,570.71	19,540.96	12,188.60	102.07	102.42	-30.82	-7,268.29	1,240.40	444.98	311.20	133.78	3.326	
20,000.00	12,571.58	19,640.96	12,189.47	103.41	103.76	-30.82	-7,368.28	1,241.26	444.98	309.71	135.27	3.290	
20,100.00	12,572.46	19,740.96	12,190.34	104.75	105.09	-30.82	-7,468.27	1,242.13	444.98	308.22	136.77	3.254	
20,200.00	12,573.33	19,840.96	12,191.21	106.10	106.43	-30.82	-7,568.27	1,242.99	444.98	306.72	138.26	3.218	
20,300.00	12,574.20	19,940.96	12,192.08	107.44	107.76	-30.82	-7,668.26	1,243.85	444.99	305.23	139.76	3.184	
20,400.00	12,575.08	20,040.96	12,192.95	108.78	109.10	-30.82	-7,768.25	1,244.71	444.99	303.73	141.26	3.150	
20,500.00	12,575.95	20,140.96	12,193.83	110.12	110.44	-30.82	-7,868.24	1,245.57	444.99	302.23	142.76	3.117	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 137H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Offset Well Error: 0.50 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,576.82	20,240.96	12,194.70	111.47	111.77	-30.82	-7,968.24	1,246.43	444.99	300.73	144.27	3.085	
20,700.00	12,577.70	20,340.96	12,195.57	112.81	113.11	-30.82	-8,068.23	1,247.29	444.99	299.22	145.77	3.053	
20,800.00	12,578.57	20,440.96	12,196.44	114.16	114.45	-30.82	-8,168.22	1,248.15	445.00	297.71	147.28	3.021	
20,900.00	12,579.44	20,540.96	12,197.31	115.51	115.79	-30.82	-8,268.21	1,249.02	445.00	296.21	148.79	2.991	
21,000.00	12,580.32	20,640.96	12,198.18	116.85	117.13	-30.82	-8,368.21	1,249.88	445.00	294.69	150.30	2.961	
21,100.00	12,581.19	20,740.96	12,199.06	118.20	118.48	-30.82	-8,468.20	1,250.74	445.00	293.18	151.82	2.931	
21,200.00	12,582.06	20,840.96	12,199.93	119.55	119.82	-30.82	-8,568.19	1,251.60	445.00	291.67	153.34	2.902	
21,300.00	12,582.94	20,940.96	12,200.80	120.89	121.16	-30.82	-8,668.18	1,252.46	445.00	290.15	154.85	2.874	
21,400.00	12,583.81	21,040.96	12,201.67	122.24	122.50	-30.82	-8,768.18	1,253.32	445.01	288.63	156.37	2.846	
21,500.00	12,584.69	21,140.96	12,202.54	123.59	123.85	-30.82	-8,868.17	1,254.18	445.01	287.11	157.90	2.818	
21,600.00	12,585.56	21,240.96	12,203.41	124.94	125.19	-30.82	-8,968.16	1,255.05	445.01	285.59	159.42	2.791	
21,700.00	12,586.43	21,340.96	12,204.29	126.29	126.54	-30.82	-9,068.15	1,255.91	445.01	284.07	160.95	2.765	
21,800.00	12,587.31	21,440.96	12,205.16	127.64	127.88	-30.82	-9,168.15	1,256.77	445.01	282.54	162.47	2.739	
21,900.00	12,588.18	21,540.96	12,206.03	128.99	129.23	-30.82	-9,268.14	1,257.63	445.01	281.01	164.00	2.713	
22,000.00	12,589.05	21,640.96	12,206.90	130.34	130.58	-30.82	-9,368.13	1,258.49	445.02	279.49	165.53	2.688	
22,100.00	12,589.93	21,740.96	12,207.77	131.70	131.93	-30.82	-9,468.12	1,259.35	445.02	277.96	167.06	2.664	
22,200.00	12,590.80	21,840.96	12,208.64	133.05	133.27	-30.82	-9,568.12	1,260.21	445.02	276.43	168.59	2.640	
22,300.00	12,591.67	21,940.96	12,209.52	134.40	134.62	-30.82	-9,668.11	1,261.07	445.02	274.89	170.13	2.616	
22,400.00	12,592.55	22,040.96	12,210.39	135.75	135.97	-30.82	-9,768.10	1,261.94	445.02	273.36	171.66	2.592	
22,500.00	12,593.42	22,140.96	12,211.26	137.11	137.32	-30.82	-9,868.09	1,262.80	445.03	271.82	173.20	2.569	
22,600.00	12,594.30	22,240.96	12,212.13	138.46	138.67	-30.82	-9,968.09	1,263.66	445.03	270.29	174.74	2.547	
22,700.00	12,595.17	22,340.96	12,213.00	139.81	140.02	-30.82	-10,068.08	1,264.52	445.03	268.75	176.28	2.525	
22,800.00	12,596.04	22,440.96	12,213.87	141.17	141.37	-30.82	-10,168.07	1,265.38	445.03	267.21	177.82	2.503	
22,807.14	12,596.10	22,448.10	12,213.94	141.26	141.46	-30.82	-10,175.21	1,265.44	445.03	267.10	177.93	2.501	
22,875.30	12,596.70	22,512.90	12,214.50	142.19	142.34	-30.82	-10,240.00	1,266.00	445.04	265.85	179.20	2.484	SF

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

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 138H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	1.00	0.50	0.50	73.86	671.00	2,319.00	2,414.13				
100.00	100.00	99.00	100.00	0.98	0.97	73.86	671.00	2,319.00	2,414.13	2,412.17	1.95	1,234.891	
200.00	200.00	199.00	200.00	1.56	1.56	73.86	671.00	2,319.00	2,414.13	2,411.01	3.12	774.692	
300.00	300.00	299.00	300.00	1.98	1.98	73.86	671.00	2,319.00	2,414.13	2,410.17	3.96	609.924	
400.00	400.00	373.21	374.20	2.33	2.29	73.88	670.55	2,319.54	2,414.65	2,410.07	4.58	526.845	
500.00	500.00	447.10	448.06	2.63	2.58	73.92	669.18	2,321.17	2,416.26	2,411.13	5.13	470.840	
600.00	600.00	520.88	521.76	2.91	2.84	73.99	666.90	2,323.89	2,418.95	2,413.32	5.63	429.382	
700.00	700.00	600.00	600.69	3.16	3.10	74.09	663.43	2,328.02	2,422.74	2,416.63	6.11	396.225	
800.00	800.00	680.29	680.69	3.40	3.20	74.23	659.03	2,333.27	2,427.49	2,421.04	6.45	376.458	
900.00	900.00	779.91	779.93	3.62	3.43	74.40	653.45	2,339.92	2,432.41	2,425.51	6.90	352.492	
1,000.00	1,000.00	879.53	879.17	3.76	3.66	-17.43	647.86	2,346.57	2,437.31	2,430.04	7.28	334.984	
1,100.00	1,099.98	979.26	978.52	4.00	3.89	-17.26	642.28	2,353.23	2,440.53	2,432.79	7.74	315.152	
1,200.00	1,199.88	1,079.08	1,077.96	4.24	4.12	-17.12	636.69	2,359.89	2,441.27	2,433.07	8.20	297.812	
1,300.00	1,299.63	1,178.93	1,177.43	4.46	4.34	-17.01	631.09	2,366.56	2,439.51	2,430.87	8.64	282.358	
1,400.00	1,399.25	1,278.77	1,276.89	4.60	4.56	-16.90	625.50	2,373.23	2,436.21	2,427.22	8.99	271.019	
1,500.00	1,498.87	1,378.61	1,376.35	4.78	4.78	-16.79	619.90	2,379.89	2,432.89	2,423.50	9.39	259.226	
1,600.00	1,598.49	1,450.21	1,447.66	4.96	4.93	-16.71	615.87	2,384.96	2,430.01	2,420.30	9.71	250.143	
1,700.00	1,698.11	1,500.00	1,497.18	5.14	5.04	-16.65	613.02	2,389.21	2,428.69	2,418.70	9.99	243.060	
1,738.03	1,735.99	1,536.20	1,533.16	5.21	5.13	-16.61	610.92	2,392.71	2,428.53	2,418.39	10.14	239.443	
1,800.00	1,797.73	1,574.79	1,571.46	5.32	5.22	-16.55	608.65	2,396.82	2,428.83	2,418.49	10.34	234.952	
1,900.00	1,897.34	1,637.02	1,633.13	5.49	5.37	-16.46	604.94	2,404.25	2,430.57	2,419.92	10.65	228.151	
2,000.00	1,996.96	1,700.00	1,695.41	5.67	5.52	-16.36	601.12	2,412.79	2,433.88	2,422.91	10.97	221.843	
2,100.00	2,096.58	1,771.09	1,765.53	5.85	5.64	-16.24	596.72	2,423.66	2,438.77	2,427.51	11.27	216.431	
2,200.00	2,196.20	1,854.66	1,847.82	6.04	5.79	-16.09	591.50	2,437.21	2,444.62	2,433.02	11.61	210.622	
2,300.00	2,295.72	1,954.23	1,945.88	6.23	5.99	-9.64	585.29	2,453.35	2,449.37	2,437.35	12.02	203.740	
2,400.00	2,394.97	2,053.85	2,043.98	6.43	6.20	-5.22	579.07	2,469.50	2,451.59	2,439.14	12.45	196.853	
2,500.00	2,493.89	2,153.44	2,142.06	6.64	6.41	-2.11	572.85	2,485.64	2,451.29	2,438.40	12.89	190.167	
2,600.00	2,592.40	2,252.94	2,240.04	6.85	6.61	0.24	566.63	2,501.77	2,448.48	2,435.15	13.33	183.693	
2,700.00	2,690.45	2,352.27	2,337.86	7.07	6.82	2.09	560.43	2,517.87	2,443.17	2,429.40	13.77	177.429	
2,800.00	2,787.96	2,451.37	2,435.46	7.28	7.02	3.62	554.24	2,533.94	2,435.36	2,421.14	14.21	171.365	
2,900.00	2,884.87	2,550.17	2,532.76	7.49	7.23	4.92	548.08	2,549.96	2,425.07	2,410.42	14.65	165.530	
3,000.00	2,981.46	2,648.81	2,629.90	7.68	7.43	5.19	541.92	2,565.95	2,413.61	2,398.54	15.07	160.190	
3,100.00	3,078.05	2,747.44	2,727.03	7.87	7.64	5.48	535.76	2,581.94	2,402.20	2,386.72	15.49	155.122	
3,200.00	3,174.64	2,846.08	2,824.17	8.06	7.84	5.76	529.60	2,597.93	2,390.86	2,374.95	15.91	150.307	
3,300.00	3,271.24	2,944.72	2,921.30	8.26	8.05	6.05	523.44	2,613.92	2,379.58	2,363.25	16.33	145.727	
3,400.00	3,367.83	3,043.35	3,018.44	8.51	8.27	6.34	517.28	2,629.91	2,368.35	2,351.60	16.75	141.388	
3,500.00	3,464.42	3,141.99	3,115.58	8.80	8.51	6.63	511.12	2,645.90	2,357.19	2,340.01	17.18	137.231	
3,600.00	3,561.01	3,240.62	3,212.71	9.09	8.74	6.93	504.96	2,661.89	2,346.09	2,328.49	17.60	133.276	
3,700.00	3,657.60	3,339.26	3,309.85	9.38	8.98	7.23	498.81	2,677.87	2,335.06	2,317.03	18.03	129.504	
3,800.00	3,754.20	3,437.89	3,406.98	9.68	9.22	7.53	492.65	2,693.86	2,324.08	2,305.62	18.46	125.902	
3,900.00	3,850.79	3,536.53	3,504.12	9.98	9.46	7.83	486.49	2,709.85	2,313.18	2,294.29	18.89	122.460	
4,000.00	3,947.38	3,635.16	3,601.26	10.28	9.70	8.14	480.33	2,725.84	2,302.34	2,283.02	19.32	119.169	
4,100.00	4,043.97	3,733.80	3,698.39	10.59	9.93	8.45	474.17	2,741.83	2,291.56	2,271.81	19.75	116.018	
4,200.00	4,140.56	3,832.44	3,795.53	10.90	10.17	8.76	468.01	2,757.82	2,280.86	2,260.67	20.18	113.001	
4,300.00	4,237.16	3,931.07	3,892.66	11.21	10.41	9.08	461.85	2,773.81	2,270.22	2,249.60	20.62	110.110	
4,400.00	4,333.75	4,029.71	3,989.80	11.52	10.65	9.40	455.70	2,789.80	2,259.65	2,238.60	21.05	107.336	
4,500.00	4,430.34	4,128.34	4,086.94	11.84	10.89	9.72	449.54	2,805.79	2,249.16	2,227.67	21.49	104.674	
4,600.00	4,526.93	4,226.98	4,184.07	12.16	11.13	10.04	443.38	2,821.78	2,238.73	2,216.81	21.92	102.117	
4,700.00	4,623.53	4,325.61	4,281.21	12.48	11.37	10.37	437.22	2,837.77	2,228.38	2,206.02	22.36	99.660	
4,800.00	4,720.12	4,424.25	4,378.34	12.80	11.61	10.70	431.06	2,853.76	2,218.10	2,195.31	22.80	97.297	
4,900.00	4,816.71	4,522.89	4,475.48	13.12	11.85	11.03	424.90	2,869.75	2,207.90	2,184.67	23.24	95.022	
5,000.00	4,913.30	4,621.52	4,572.61	13.45	12.09	11.37	418.74	2,885.74	2,197.78	2,174.10	23.67	92.833	

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

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 138H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,009.89	4,720.16	4,669.75	13.78	12.34	11.71	412.58	2,901.73	2,187.73	2,163.61	24.11	90.724	
5,200.00	5,106.49	4,818.79	4,766.89	14.10	12.58	12.05	406.43	2,917.72	2,177.75	2,153.20	24.55	88.690	
5,300.00	5,203.08	4,917.43	4,864.02	14.43	12.82	12.40	400.27	2,933.71	2,167.86	2,142.87	25.00	86.729	
5,400.00	5,299.67	5,016.06	4,961.16	14.75	13.06	12.74	394.11	2,949.70	2,158.06	2,132.63	25.43	84.872	
5,500.00	5,396.65	5,114.88	5,058.47	15.07	13.30	13.06	387.94	2,965.72	2,149.82	2,123.94	25.88	83.064	
5,600.00	5,494.23	5,213.94	5,156.02	15.36	13.54	13.37	381.75	2,981.78	2,144.20	2,117.86	26.33	81.433	
5,700.00	5,592.35	5,313.18	5,253.76	15.62	13.79	13.67	375.56	2,997.87	2,141.19	2,114.41	26.77	79.972	
5,765.48	5,656.86	5,378.24	5,317.83	15.78	13.95	13.87	371.49	3,008.41	2,140.63	2,113.57	27.06	79.107	CC
5,800.00	5,690.94	5,412.54	5,351.61	15.86	14.03	13.97	369.35	3,013.97	2,140.78	2,113.57	27.21	78.674	
5,900.00	5,789.93	5,511.95	5,449.50	16.07	14.28	14.26	363.15	3,030.09	2,142.98	2,115.34	27.64	77.535	
6,000.00	5,889.26	5,611.33	5,547.38	16.25	14.52	14.55	356.94	3,046.20	2,147.76	2,119.70	28.06	76.548	
6,100.00	5,988.86	5,710.63	5,645.16	16.41	14.76	14.82	350.74	3,062.30	2,155.11	2,126.64	28.47	75.709	
6,200.00	6,088.66	5,809.76	5,742.79	16.53	15.01	15.09	344.55	3,078.37	2,165.01	2,136.15	28.86	75.016	
6,300.00	6,188.59	5,908.68	5,840.20	16.64	15.25	15.34	338.37	3,094.40	2,177.47	2,148.23	29.24	74.471	
6,400.00	6,288.58	6,007.30	5,937.32	16.71	15.49	88.01	332.22	3,110.39	2,192.44	2,162.89	29.54	74.217	
6,500.00	6,388.58	6,105.77	6,034.30	16.76	15.74	88.19	326.07	3,126.35	2,208.47	2,178.65	29.81	74.080	
6,600.00	6,488.58	6,204.25	6,131.28	16.82	15.98	88.36	319.92	3,142.32	2,224.52	2,194.44	30.08	73.946	
6,700.00	6,588.58	6,302.73	6,228.27	16.88	16.22	88.53	313.77	3,158.28	2,240.59	2,210.24	30.35	73.815	
6,800.00	6,688.58	6,401.21	6,325.25	16.94	16.46	88.70	307.62	3,174.25	2,256.68	2,226.06	30.63	73.686	
6,900.00	6,788.58	6,499.69	6,422.23	17.00	16.70	88.87	301.47	3,190.21	2,272.79	2,241.89	30.90	73.560	
7,000.00	6,888.58	6,598.17	6,519.21	17.05	16.95	89.03	295.32	3,206.18	2,288.92	2,257.75	31.17	73.436	
7,100.00	6,988.58	6,805.25	6,723.91	17.11	17.40	89.32	284.14	3,235.22	2,303.06	2,271.41	31.65	72.772	
7,200.00	7,088.58	7,032.51	6,950.13	17.17	17.77	89.52	276.46	3,255.16	2,311.81	2,279.73	32.08	72.070	
7,300.00	7,188.58	7,261.53	7,178.98	17.23	17.99	89.59	273.62	3,262.51	2,315.01	2,282.67	32.34	71.580	
7,400.00	7,288.58	7,371.13	7,288.58	17.29	18.03	89.59	273.61	3,262.55	2,315.03	2,282.60	32.43	71.393	
7,500.00	7,388.58	7,471.13	7,388.58	17.35	18.06	89.59	273.61	3,262.55	2,315.03	2,282.51	32.52	71.188	
7,600.00	7,488.58	7,571.13	7,488.58	17.41	18.10	89.59	273.61	3,262.55	2,315.03	2,282.42	32.61	70.983	
7,700.00	7,588.58	7,671.13	7,588.58	17.47	18.14	89.59	273.61	3,262.55	2,315.03	2,282.32	32.71	70.778	
7,800.00	7,688.58	7,771.13	7,688.58	17.53	18.17	89.59	273.61	3,262.55	2,315.03	2,282.23	32.80	70.573	
7,900.00	7,788.58	7,871.13	7,788.58	17.59	18.21	89.59	273.61	3,262.55	2,315.03	2,282.13	32.90	70.368	
8,000.00	7,888.58	7,971.13	7,888.58	17.65	18.25	89.59	273.61	3,262.55	2,315.03	2,282.03	32.99	70.163	
8,100.00	7,988.58	8,071.13	7,988.58	17.71	18.29	89.59	273.61	3,262.55	2,315.03	2,281.94	33.09	69.959	
8,200.00	8,088.58	8,171.13	8,088.58	17.77	18.33	89.59	273.61	3,262.55	2,315.03	2,281.84	33.19	69.754	
8,300.00	8,188.58	8,271.13	8,188.58	17.83	18.36	89.59	273.61	3,262.55	2,315.03	2,281.74	33.29	69.550	
8,400.00	8,288.58	8,371.13	8,288.58	17.89	18.40	89.59	273.61	3,262.55	2,315.03	2,281.65	33.38	69.346	
8,500.00	8,388.58	8,471.13	8,388.58	17.95	18.44	89.59	273.61	3,262.55	2,315.03	2,281.55	33.48	69.142	
8,600.00	8,488.58	8,571.13	8,488.58	18.02	18.48	89.59	273.61	3,262.55	2,315.03	2,281.45	33.58	68.938	
8,700.00	8,588.58	8,671.13	8,588.58	18.08	18.52	89.59	273.61	3,262.55	2,315.03	2,281.35	33.68	68.734	
8,800.00	8,688.58	8,771.13	8,688.58	18.14	18.56	89.59	273.61	3,262.55	2,315.03	2,281.25	33.78	68.531	
8,900.00	8,788.58	8,871.13	8,788.58	18.20	18.60	89.59	273.61	3,262.55	2,315.03	2,281.15	33.88	68.328	
9,000.00	8,888.58	8,971.13	8,888.58	18.26	18.64	89.59	273.61	3,262.55	2,315.03	2,281.05	33.98	68.126	
9,100.00	8,988.58	9,071.13	8,988.58	18.32	18.68	89.59	273.61	3,262.55	2,315.03	2,280.95	34.08	67.923	
9,200.00	9,088.58	9,171.13	9,088.58	18.39	18.73	89.59	273.61	3,262.55	2,315.03	2,280.84	34.18	67.721	
9,300.00	9,188.58	9,271.13	9,188.58	18.45	18.77	89.59	273.61	3,262.55	2,315.03	2,280.74	34.29	67.519	
9,400.00	9,288.58	9,371.13	9,288.58	18.51	18.81	89.59	273.61	3,262.55	2,315.03	2,280.64	34.39	67.318	
9,500.00	9,388.58	9,471.13	9,388.58	18.57	18.85	89.59	273.61	3,262.55	2,315.03	2,280.54	34.49	67.117	
9,600.00	9,488.58	9,571.13	9,488.58	18.64	18.89	89.59	273.61	3,262.55	2,315.03	2,280.43	34.60	66.916	
9,700.00	9,588.58	9,671.13	9,588.58	18.70	18.94	89.59	273.61	3,262.55	2,315.03	2,280.33	34.70	66.715	
9,800.00	9,688.58	9,771.13	9,688.58	18.76	18.98	89.59	273.61	3,262.55	2,315.03	2,280.22	34.80	66.515	
9,900.00	9,788.58	9,871.13	9,788.58	18.83	19.02	89.59	273.61	3,262.55	2,315.03	2,280.12	34.91	66.316	
10,000.00	9,888.58	9,971.13	9,888.58	18.89	19.06	89.59	273.61	3,262.55	2,315.03	2,280.01	35.01	66.116	
10,100.00	9,988.58	10,071.13	9,988.58	18.95	19.11	89.59	273.61	3,262.55	2,315.03	2,279.91	35.12	65.917	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 138H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,200.00	10,088.58	10,171.13	10,088.58	19.02	19.15	89.59	273.61	3,262.55	2,315.03	2,279.80	35.23	65.719	
10,300.00	10,188.58	10,271.13	10,188.58	19.08	19.20	89.59	273.61	3,262.55	2,315.03	2,279.70	35.33	65.521	
10,400.00	10,288.58	10,371.13	10,288.58	19.15	19.24	89.59	273.61	3,262.55	2,315.03	2,279.59	35.44	65.323	
10,500.00	10,388.58	10,471.13	10,388.58	19.21	19.29	89.59	273.61	3,262.55	2,315.03	2,279.48	35.55	65.126	
10,600.00	10,488.58	10,571.13	10,488.58	19.27	19.33	89.59	273.61	3,262.55	2,315.03	2,279.37	35.65	64.929	
10,700.00	10,588.58	10,671.13	10,588.58	19.34	19.38	89.59	273.61	3,262.55	2,315.03	2,279.27	35.76	64.733	
10,800.00	10,688.58	10,771.13	10,688.58	19.40	19.42	89.59	273.61	3,262.55	2,315.03	2,279.16	35.87	64.537	
10,900.00	10,788.58	10,871.13	10,788.58	19.47	19.47	89.59	273.61	3,262.55	2,315.03	2,279.05	35.98	64.342	
11,000.00	10,888.58	10,971.13	10,888.58	19.53	19.51	89.59	273.61	3,262.55	2,315.03	2,278.94	36.09	64.147	
11,100.00	10,988.58	11,071.13	10,988.58	19.60	19.56	89.59	273.61	3,262.55	2,315.03	2,278.83	36.20	63.953	
11,200.00	11,088.58	11,171.13	11,088.58	19.66	19.60	89.59	273.61	3,262.55	2,315.03	2,278.72	36.31	63.759	
11,300.00	11,188.58	11,271.13	11,188.58	19.73	19.65	89.59	273.61	3,262.55	2,315.03	2,278.61	36.42	63.566	
11,400.00	11,288.58	11,371.13	11,288.58	19.79	19.70	89.59	273.61	3,262.55	2,315.03	2,278.50	36.53	63.373	
11,500.00	11,388.58	11,471.13	11,388.58	19.86	19.74	89.59	273.61	3,262.55	2,315.03	2,278.39	36.64	63.181	
11,501.96	11,390.54	11,473.09	11,390.54	19.86	19.75	89.59	273.61	3,262.55	2,315.03	2,278.39	36.64	63.177	
11,600.00	11,488.58	11,570.83	11,488.26	19.92	19.79	89.61	272.64	3,262.56	2,315.03	2,278.30	36.74	63.019	
11,700.00	11,588.58	11,667.80	11,584.13	19.99	19.94	89.96	258.87	3,262.68	2,315.11	2,278.25	36.86	62.804	
11,800.00	11,688.58	11,757.78	11,669.85	20.05	20.12	90.63	231.80	3,262.93	2,315.56	2,278.52	37.04	62.513	
11,900.00	11,788.58	11,837.69	11,741.60	20.12	20.33	91.49	196.78	3,263.25	2,316.93	2,279.67	37.26	62.180	
12,000.00	11,888.58	11,906.56	11,799.02	20.19	20.54	92.43	158.84	3,263.59	2,319.82	2,282.31	37.51	61.843	
12,100.00	11,988.51	11,966.05	11,844.66	20.25	20.76	-85.89	120.72	3,263.94	2,324.67	2,286.93	37.74	61.604	
12,200.00	12,086.82	12,023.30	11,884.61	20.31	21.00	-84.47	79.75	3,264.31	2,330.69	2,292.74	37.94	61.424	
12,300.00	12,180.57	12,079.65	11,919.77	20.35	21.27	-83.10	35.73	3,264.71	2,337.27	2,299.10	38.17	61.232	
12,400.00	12,266.93	12,135.35	11,950.09	20.39	21.58	-81.83	-10.96	3,265.14	2,343.93	2,305.49	38.44	60.980	
12,500.00	12,343.26	12,200.00	11,979.42	20.44	21.97	-80.62	-68.53	3,265.66	2,350.25	2,311.44	38.81	60.565	
12,600.00	12,407.24	12,250.00	11,997.54	20.52	22.30	-79.72	-115.11	3,266.08	2,355.74	2,316.52	39.22	60.058	
12,700.00	12,456.94	12,300.00	12,011.53	20.67	22.66	-79.01	-163.10	3,266.52	2,360.16	2,320.39	39.76	59.353	
12,800.00	12,490.84	12,350.00	12,021.28	20.88	23.04	-78.52	-212.12	3,266.96	2,363.23	2,322.79	40.44	58.442	
12,900.00	12,507.91	12,408.81	12,027.24	21.18	23.51	-78.27	-270.60	3,267.50	2,364.77	2,323.49	41.28	57.288	
13,000.00	12,510.43	12,488.05	12,028.33	21.56	24.18	-78.24	-349.82	3,268.21	2,364.98	2,322.65	42.33	55.870	
13,100.00	12,511.30	12,588.05	12,029.04	22.01	25.06	-78.23	-449.82	3,269.12	2,365.06	2,321.44	43.62	54.214	
13,200.00	12,512.18	12,688.05	12,029.75	22.52	25.98	-78.23	-549.81	3,270.03	2,365.14	2,320.10	45.04	52.508	
13,300.00	12,513.05	12,788.05	12,030.46	23.10	26.94	-78.23	-649.80	3,270.94	2,365.22	2,318.65	46.57	50.784	
13,400.00	12,513.92	12,888.05	12,031.17	23.73	27.93	-78.22	-749.80	3,271.85	2,365.30	2,317.09	48.21	49.064	
13,500.00	12,514.80	12,988.05	12,031.88	24.41	28.94	-78.22	-849.79	3,272.76	2,365.38	2,315.45	49.94	47.369	
13,600.00	12,515.67	13,088.05	12,032.59	25.15	29.98	-78.22	-949.78	3,273.67	2,365.46	2,313.72	51.75	45.713	
13,700.00	12,516.55	13,188.05	12,033.29	25.93	31.04	-78.21	-1,049.77	3,274.57	2,365.54	2,311.91	53.63	44.107	
13,800.00	12,517.42	13,288.05	12,034.00	26.76	32.12	-78.21	-1,149.77	3,275.48	2,365.62	2,310.04	55.59	42.558	
13,900.00	12,518.29	13,388.05	12,034.71	27.63	33.22	-78.20	-1,249.76	3,276.39	2,365.70	2,308.10	57.60	41.071	
14,000.00	12,519.17	13,488.05	12,035.42	28.53	34.34	-78.20	-1,349.75	3,277.30	2,365.78	2,306.11	59.67	39.649	
14,100.00	12,520.04	13,588.05	12,036.13	29.47	35.48	-78.20	-1,449.75	3,278.21	2,365.86	2,304.08	61.79	38.291	
14,200.00	12,520.91	13,688.05	12,036.84	30.44	36.62	-78.19	-1,549.74	3,279.12	2,365.94	2,302.00	63.95	36.998	
14,300.00	12,521.79	13,788.05	12,037.55	31.44	37.79	-78.19	-1,649.73	3,280.03	2,366.02	2,299.87	66.15	35.768	
14,400.00	12,522.66	13,888.05	12,038.26	32.46	38.96	-78.19	-1,749.73	3,280.94	2,366.10	2,297.72	68.39	34.599	
14,500.00	12,523.53	13,988.05	12,038.97	33.51	40.14	-78.18	-1,849.72	3,281.84	2,366.18	2,295.53	70.66	33.489	
14,600.00	12,524.41	14,088.05	12,039.68	34.58	41.34	-78.18	-1,949.71	3,282.75	2,366.26	2,293.31	72.95	32.435	
14,700.00	12,525.28	14,188.05	12,040.38	35.67	42.54	-78.18	-2,049.71	3,283.66	2,366.34	2,291.06	75.28	31.434	
14,800.00	12,526.16	14,288.05	12,041.09	36.78	43.76	-78.17	-2,149.70	3,284.57	2,366.42	2,288.80	77.63	30.484	
14,900.00	12,527.03	14,388.05	12,041.80	37.90	44.98	-78.17	-2,249.69	3,285.48	2,366.50	2,286.51	80.00	29.582	
15,000.00	12,527.90	14,488.05	12,042.51	39.04	46.21	-78.16	-2,349.69	3,286.39	2,366.58	2,284.20	82.39	28.725	
15,100.00	12,528.78	14,588.05	12,043.22	40.20	47.44	-78.16	-2,449.68	3,287.30	2,366.66	2,281.87	84.80	27.910	
15,200.00	12,529.65	14,688.05	12,043.93	41.37	48.69	-78.16	-2,549.67	3,288.20	2,366.74	2,279.52	87.22	27.135	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 138H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,300.00	12,530.52	14,788.05	12,044.64	42.55	49.94	-78.15	-2,649.67	3,289.11	2,366.82	2,277.16	89.66	26.397	
15,400.00	12,531.40	14,888.05	12,045.35	43.74	51.19	-78.15	-2,749.66	3,290.02	2,366.90	2,274.79	92.12	25.694	
15,500.00	12,532.27	14,988.05	12,046.06	44.94	52.45	-78.15	-2,849.65	3,290.93	2,366.98	2,272.40	94.58	25.025	
15,600.00	12,533.14	15,088.05	12,046.77	46.15	53.72	-78.14	-2,949.65	3,291.84	2,367.07	2,270.00	97.06	24.387	
15,700.00	12,534.02	15,188.05	12,047.48	47.37	54.99	-78.14	-3,049.64	3,292.75	2,367.15	2,267.59	99.55	23.778	
15,800.00	12,534.89	15,288.05	12,048.18	48.59	56.26	-78.14	-3,149.63	3,293.66	2,367.23	2,265.17	102.05	23.196	
15,900.00	12,535.76	15,388.05	12,048.89	49.83	57.54	-78.13	-3,249.63	3,294.56	2,367.31	2,262.74	104.56	22.640	
16,000.00	12,536.64	15,488.05	12,049.60	51.07	58.82	-78.13	-3,349.62	3,295.47	2,367.39	2,260.30	107.08	22.108	
16,100.00	12,537.51	15,588.05	12,050.31	52.32	60.11	-78.12	-3,449.61	3,296.38	2,367.47	2,257.86	109.61	21.599	
16,200.00	12,538.39	15,688.05	12,051.02	53.57	61.40	-78.12	-3,549.61	3,297.29	2,367.55	2,255.40	112.14	21.112	
16,300.00	12,539.26	15,788.05	12,051.73	54.83	62.69	-78.12	-3,649.60	3,298.20	2,367.63	2,252.94	114.68	20.645	
16,400.00	12,540.13	15,888.05	12,052.44	56.09	63.99	-78.11	-3,749.59	3,299.11	2,367.71	2,250.48	117.23	20.197	
16,500.00	12,541.01	15,988.05	12,053.15	57.36	65.28	-78.11	-3,849.58	3,300.02	2,367.79	2,248.00	119.78	19.767	
16,600.00	12,541.88	16,088.05	12,053.86	58.64	66.58	-78.11	-3,949.58	3,300.92	2,367.87	2,245.53	122.34	19.354	
16,700.00	12,542.75	16,188.05	12,054.57	59.91	67.89	-78.10	-4,049.57	3,301.83	2,367.95	2,243.04	124.91	18.958	
16,800.00	12,543.63	16,288.05	12,055.28	61.20	69.19	-78.10	-4,149.56	3,302.74	2,368.03	2,240.55	127.48	18.576	
16,900.00	12,544.50	16,388.05	12,055.98	62.48	70.50	-78.09	-4,249.56	3,303.65	2,368.11	2,238.06	130.05	18.209	
17,000.00	12,545.37	16,488.04	12,056.69	63.77	71.81	-78.09	-4,349.55	3,304.56	2,368.19	2,235.56	132.63	17.856	
17,100.00	12,546.25	16,588.04	12,057.40	65.06	73.13	-78.09	-4,449.54	3,305.47	2,368.27	2,233.06	135.21	17.515	
17,200.00	12,547.12	16,688.04	12,058.11	66.36	74.44	-78.08	-4,549.54	3,306.38	2,368.35	2,230.55	137.80	17.187	
17,300.00	12,547.99	16,788.04	12,058.82	67.66	75.76	-78.08	-4,649.53	3,307.28	2,368.43	2,228.04	140.39	16.870	
17,400.00	12,548.87	16,888.04	12,059.53	68.96	77.07	-78.08	-4,749.52	3,308.19	2,368.51	2,225.53	142.98	16.565	
17,500.00	12,549.74	16,988.04	12,060.24	70.26	78.39	-78.07	-4,849.52	3,309.10	2,368.59	2,223.01	145.58	16.270	
17,600.00	12,550.62	17,088.04	12,060.95	71.57	79.72	-78.07	-4,949.51	3,310.01	2,368.67	2,220.49	148.18	15.985	
17,700.00	12,551.49	17,188.04	12,061.66	72.88	81.04	-78.07	-5,049.50	3,310.92	2,368.75	2,217.97	150.79	15.709	
17,800.00	12,552.36	17,288.04	12,062.37	74.19	82.36	-78.06	-5,149.50	3,311.83	2,368.83	2,215.44	153.39	15.443	
17,900.00	12,553.24	17,388.04	12,063.08	75.50	83.69	-78.06	-5,249.49	3,312.74	2,368.91	2,212.91	156.00	15.185	
18,000.00	12,554.11	17,488.04	12,063.78	76.81	85.02	-78.05	-5,349.48	3,313.64	2,368.99	2,210.38	158.61	14.936	
18,100.00	12,554.98	17,588.04	12,064.49	78.13	86.34	-78.05	-5,449.48	3,314.55	2,369.07	2,207.85	161.23	14.694	
18,200.00	12,555.86	17,688.04	12,065.20	79.45	87.67	-78.05	-5,549.47	3,315.46	2,369.15	2,205.31	163.84	14.460	
18,300.00	12,556.73	17,788.04	12,065.91	80.77	89.00	-78.04	-5,649.46	3,316.37	2,369.23	2,202.77	166.46	14.233	
18,400.00	12,557.60	17,888.04	12,066.62	82.09	90.34	-78.04	-5,749.46	3,317.28	2,369.32	2,200.23	169.08	14.013	
18,500.00	12,558.48	17,988.04	12,067.33	83.42	91.67	-78.04	-5,849.45	3,318.19	2,369.40	2,197.69	171.70	13.799	
18,600.00	12,559.35	18,088.04	12,068.04	84.74	93.00	-78.03	-5,949.44	3,319.10	2,369.48	2,195.15	174.33	13.592	
18,700.00	12,560.23	18,188.04	12,068.75	86.07	94.34	-78.03	-6,049.44	3,320.00	2,369.56	2,192.60	176.95	13.391	
18,800.00	12,561.10	18,288.04	12,069.46	87.40	95.67	-78.03	-6,149.43	3,320.91	2,369.64	2,190.06	179.58	13.195	
18,900.00	12,561.97	18,388.04	12,070.17	88.72	97.01	-78.02	-6,249.42	3,321.82	2,369.72	2,187.51	182.21	13.005	
19,000.00	12,562.85	18,488.04	12,070.88	90.05	98.35	-78.02	-6,349.42	3,322.73	2,369.80	2,184.96	184.84	12.821	
19,100.00	12,563.72	18,588.04	12,071.58	91.39	99.69	-78.01	-6,449.41	3,323.64	2,369.88	2,182.41	187.47	12.641	
19,200.00	12,564.59	18,688.04	12,072.29	92.72	101.03	-78.01	-6,549.40	3,324.55	2,369.96	2,179.85	190.11	12.466	
19,300.00	12,565.47	18,788.04	12,073.00	94.05	102.37	-78.01	-6,649.39	3,325.46	2,370.04	2,177.30	192.74	12.296	
19,400.00	12,566.34	18,888.04	12,073.71	95.39	103.71	-78.00	-6,749.39	3,326.36	2,370.12	2,174.74	195.38	12.131	
19,500.00	12,567.21	18,988.04	12,074.42	96.72	105.05	-78.00	-6,849.38	3,327.27	2,370.20	2,172.19	198.02	11.970	
19,600.00	12,568.09	19,088.04	12,075.13	98.06	106.39	-78.00	-6,949.37	3,328.18	2,370.28	2,169.63	200.65	11.813	
19,700.00	12,568.96	19,188.04	12,075.84	99.40	107.74	-77.99	-7,049.37	3,329.09	2,370.36	2,167.07	203.29	11.660	
19,800.00	12,569.83	19,288.04	12,076.55	100.73	109.08	-77.99	-7,149.36	3,330.00	2,370.44	2,164.51	205.94	11.511	
19,900.00	12,570.71	19,388.04	12,077.26	102.07	110.42	-77.99	-7,249.35	3,330.91	2,370.52	2,161.95	208.58	11.365	
20,000.00	12,571.58	19,488.04	12,077.97	103.41	111.77	-77.98	-7,349.35	3,331.82	2,370.60	2,159.38	211.22	11.223	
20,100.00	12,572.46	19,588.04	12,078.67	104.75	113.11	-77.98	-7,449.34	3,332.72	2,370.68	2,156.82	213.86	11.085	
20,200.00	12,573.33	19,688.04	12,079.38	106.10	114.46	-77.97	-7,549.33	3,333.63	2,370.77	2,154.26	216.51	10.950	
20,300.00	12,574.20	19,788.04	12,080.09	107.44	115.81	-77.97	-7,649.33	3,334.54	2,370.85	2,151.69	219.16	10.818	
20,400.00	12,575.08	19,888.04	12,080.80	108.78	117.15	-77.97	-7,749.32	3,335.45	2,370.93	2,149.12	221.80	10.689	

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

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 138H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,500.00	12,575.95	19,988.04	12,081.51	110.12	118.50	-77.96	-7,849.31	3,336.36	2,371.01	2,146.56	224.45	10.564	
20,600.00	12,576.82	20,088.04	12,082.22	111.47	119.85	-77.96	-7,949.31	3,337.27	2,371.09	2,143.99	227.10	10.441	
20,700.00	12,577.70	20,188.04	12,082.93	112.81	121.20	-77.96	-8,049.30	3,338.18	2,371.17	2,141.42	229.75	10.321	
20,800.00	12,578.57	20,288.04	12,083.64	114.16	122.55	-77.95	-8,149.29	3,339.08	2,371.25	2,138.85	232.40	10.203	
20,900.00	12,579.44	20,388.04	12,084.35	115.51	123.90	-77.95	-8,249.29	3,339.99	2,371.33	2,136.28	235.05	10.089	
21,000.00	12,580.32	20,488.04	12,085.06	116.85	125.24	-77.95	-8,349.28	3,340.90	2,371.41	2,133.71	237.70	9.977	
21,100.00	12,581.19	20,588.04	12,085.77	118.20	126.60	-77.94	-8,449.27	3,341.81	2,371.49	2,131.14	240.35	9.867	
21,200.00	12,582.06	20,688.04	12,086.47	119.55	127.95	-77.94	-8,549.27	3,342.72	2,371.57	2,128.57	243.00	9.759	
21,300.00	12,582.94	20,788.04	12,087.18	120.89	129.30	-77.93	-8,649.26	3,343.63	2,371.65	2,126.00	245.66	9.654	
21,400.00	12,583.81	20,888.04	12,087.89	122.24	130.65	-77.93	-8,749.25	3,344.54	2,371.73	2,123.42	248.31	9.551	
21,500.00	12,584.69	20,988.04	12,088.60	123.59	132.00	-77.93	-8,849.25	3,345.44	2,371.81	2,120.85	250.97	9.451	
21,600.00	12,585.56	21,088.04	12,089.31	124.94	133.35	-77.92	-8,949.24	3,346.35	2,371.90	2,118.28	253.62	9.352	
21,700.00	12,586.43	21,188.04	12,090.02	126.29	134.70	-77.92	-9,049.23	3,347.26	2,371.98	2,115.70	256.28	9.256	
21,800.00	12,587.31	21,288.04	12,090.73	127.64	136.06	-77.92	-9,149.23	3,348.17	2,372.06	2,113.13	258.93	9.161	
21,900.00	12,588.18	21,388.04	12,091.44	128.99	137.41	-77.91	-9,249.22	3,349.08	2,372.14	2,110.55	261.59	9.068	
22,000.00	12,589.05	21,488.04	12,092.15	130.34	138.76	-77.91	-9,349.21	3,349.99	2,372.22	2,107.97	264.25	8.977	
22,100.00	12,589.93	21,588.04	12,092.86	131.70	140.12	-77.91	-9,449.20	3,350.90	2,372.30	2,105.40	266.90	8.888	
22,200.00	12,590.80	21,688.04	12,093.57	133.05	141.47	-77.90	-9,549.20	3,351.80	2,372.38	2,102.82	269.56	8.801	
22,300.00	12,591.67	21,788.04	12,094.27	134.40	142.83	-77.90	-9,649.19	3,352.71	2,372.46	2,100.24	272.22	8.715	
22,400.00	12,592.55	21,888.04	12,094.98	135.75	144.18	-77.89	-9,749.18	3,353.62	2,372.54	2,097.66	274.88	8.631	
22,500.00	12,593.42	21,988.04	12,095.69	137.11	145.54	-77.89	-9,849.18	3,354.53	2,372.62	2,095.09	277.54	8.549	
22,600.00	12,594.30	22,088.04	12,096.40	138.46	146.89	-77.89	-9,949.17	3,355.44	2,372.70	2,092.51	280.20	8.468	
22,700.00	12,595.17	22,188.04	12,097.11	139.81	148.25	-77.88	-10,049.16	3,356.35	2,372.78	2,089.93	282.86	8.389	
22,800.00	12,596.04	22,288.04	12,097.82	141.17	149.60	-77.88	-10,149.16	3,357.26	2,372.87	2,087.35	285.52	8.311	
22,875.30	12,596.70	22,363.34	12,098.35	142.19	150.62	-77.88	-10,224.45	3,357.94	2,372.93	2,085.41	287.52	8.253	ES, SF

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

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 151H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.50	0.50	172.30	-185.00	25.00	186.68				
100.00	100.00	100.00	100.00	0.98	0.98	172.30	-185.00	25.00	186.68	184.72	1.96	95.140	
200.00	200.00	200.00	200.00	1.56	1.56	172.30	-185.00	25.00	186.68	183.56	3.12	59.791	
300.00	300.00	300.00	300.00	1.98	1.98	172.30	-185.00	25.00	186.68	182.72	3.96	47.114	
400.00	400.00	400.00	400.00	2.33	2.33	172.30	-185.00	25.00	186.68	182.02	4.66	40.070	
500.00	500.00	500.00	500.00	2.63	2.63	172.30	-185.00	25.00	186.68	181.41	5.27	35.430	
600.00	600.00	602.65	602.63	2.91	2.98	172.66	-184.43	23.74	185.97	180.13	5.84	31.828	
700.00	700.00	705.15	705.05	3.16	3.30	173.76	-182.72	19.99	183.88	177.51	6.37	28.888	
800.00	800.00	807.35	807.02	3.40	3.58	175.63	-179.88	13.75	180.54	173.70	6.84	26.404	
900.00	900.00	907.56	906.86	3.62	3.71	178.09	-176.30	5.88	176.53	169.35	7.18	24.574	
1,000.00	1,000.00	1,007.18	1,006.09	3.76	3.94	88.70	-172.70	-2.02	172.82	165.29	7.54	22.933	
1,100.00	1,099.98	1,106.63	1,105.17	4.00	4.15	92.04	-169.11	-9.91	169.54	161.60	7.93	21.369	
1,200.00	1,199.88	1,205.84	1,204.00	4.24	4.37	96.37	-165.53	-17.78	167.11	158.79	8.32	20.078	
1,300.00	1,299.63	1,305.42	1,303.06	4.46	4.62	102.13	-161.36	-26.95	165.91	157.20	8.70	19.066	
1,316.21	1,315.78	1,321.44	1,318.97	4.49	4.66	103.21	-160.59	-28.65	165.88	157.12	8.76	18.945	CC, ES
1,400.00	1,399.25	1,403.73	1,400.58	4.60	4.87	109.20	-156.19	-38.31	166.74	157.70	9.04	18.444	
1,500.00	1,498.87	1,500.91	1,496.62	4.78	5.11	116.85	-150.06	-51.77	170.35	160.91	9.44	18.047	
1,600.00	1,598.49	1,596.87	1,591.06	4.96	5.34	124.73	-143.02	-67.25	177.51	167.66	9.85	18.015	
1,700.00	1,698.11	1,692.49	1,684.80	5.14	5.48	132.44	-135.20	-84.43	188.67	178.45	10.21	18.476	
1,800.00	1,797.73	1,788.51	1,778.89	5.32	5.67	139.31	-127.27	-101.84	203.11	192.47	10.64	19.092	
1,900.00	1,897.34	1,884.53	1,872.98	5.49	5.87	145.24	-119.35	-119.26	220.18	209.11	11.06	19.899	
2,000.00	1,996.96	1,980.54	1,967.07	5.67	6.07	150.31	-111.42	-136.67	239.29	227.81	11.48	20.839	
2,100.00	2,096.58	2,076.56	2,061.16	5.85	6.27	154.63	-103.49	-154.09	260.01	248.12	11.89	21.862	
2,200.00	2,196.20	2,172.57	2,155.25	6.04	6.48	158.32	-95.57	-171.50	281.98	269.68	12.30	22.918	
2,300.00	2,295.72	2,268.34	2,249.10	6.23	6.68	167.77	-87.66	-188.88	306.09	293.37	12.72	24.070	
2,400.00	2,394.97	2,363.52	2,342.37	6.43	6.89	174.65	-79.81	-206.14	333.41	320.27	13.14	25.373	
2,500.00	2,493.89	2,458.05	2,435.00	6.64	7.10	179.75	-72.00	-223.29	363.68	350.12	13.56	26.820	
2,600.00	2,592.40	2,551.86	2,526.94	6.85	7.32	-176.34	-64.26	-240.30	396.70	382.72	13.98	28.384	
2,700.00	2,690.45	2,644.90	2,618.10	7.07	7.55	-173.29	-56.58	-257.18	432.31	417.92	14.39	30.046	
2,800.00	2,787.96	2,737.09	2,708.45	7.28	7.78	-170.86	-48.97	-273.90	470.37	455.58	14.80	31.791	
2,900.00	2,884.87	2,828.37	2,797.90	7.49	8.02	-168.93	-41.43	-290.46	510.80	495.60	15.20	33.603	
3,000.00	2,981.46	2,919.20	2,886.90	7.68	8.25	-168.36	-33.93	-306.93	552.37	536.79	15.58	35.455	
3,100.00	3,078.05	3,010.02	2,975.90	7.87	8.49	-167.87	-26.44	-323.41	593.97	578.01	15.96	37.216	
3,200.00	3,174.64	3,100.85	3,064.91	8.06	8.72	-167.44	-18.94	-339.88	635.61	619.27	16.34	38.890	
3,300.00	3,271.24	3,191.67	3,153.91	8.26	8.96	-167.07	-11.44	-356.35	677.28	660.55	16.73	40.483	
3,400.00	3,367.83	3,282.49	3,242.91	8.51	9.20	-166.74	-3.94	-372.83	718.96	701.85	17.12	42.000	
3,500.00	3,464.42	3,373.32	3,331.91	8.80	9.44	-166.45	3.56	-389.30	760.67	743.16	17.51	43.445	
3,600.00	3,561.01	3,464.14	3,420.91	9.09	9.68	-166.19	11.05	-405.78	802.38	784.48	17.90	44.822	
3,700.00	3,657.60	3,554.97	3,509.92	9.38	9.92	-165.95	18.55	-422.25	844.12	825.82	18.30	46.136	
3,800.00	3,754.20	3,645.79	3,598.92	9.68	10.16	-165.74	26.05	-438.73	885.86	867.16	18.69	47.390	
3,900.00	3,850.79	3,736.61	3,687.92	9.98	10.40	-165.54	33.55	-455.20	927.61	908.52	19.09	48.587	
4,000.00	3,947.38	3,827.44	3,776.92	10.28	10.65	-165.36	41.04	-471.67	969.37	949.87	19.49	49.732	
4,100.00	4,043.97	3,918.26	3,865.93	10.59	10.89	-165.20	48.54	-488.15	1,011.13	991.24	19.89	50.826	
4,200.00	4,140.56	4,009.09	3,954.93	10.90	11.13	-165.05	56.04	-504.62	1,052.90	1,032.61	20.30	51.873	
4,300.00	4,237.16	4,099.91	4,043.93	11.21	11.37	-164.91	63.54	-521.10	1,094.68	1,073.98	20.70	52.876	
4,400.00	4,333.75	4,190.73	4,132.93	11.52	11.62	-164.78	71.03	-537.57	1,136.46	1,115.35	21.11	53.836	
4,500.00	4,430.34	4,281.56	4,221.93	11.84	11.86	-164.66	78.53	-554.04	1,178.25	1,156.73	21.52	54.757	
4,600.00	4,526.93	4,372.38	4,310.94	12.16	12.10	-164.55	86.03	-570.52	1,220.04	1,198.11	21.93	55.641	
4,700.00	4,623.53	4,463.21	4,399.94	12.48	12.35	-164.44	93.53	-586.99	1,261.84	1,239.50	22.34	56.489	
4,800.00	4,720.12	4,554.03	4,488.94	12.80	12.59	-164.35	101.03	-603.47	1,303.63	1,280.88	22.75	57.303	
4,900.00	4,816.71	4,644.85	4,577.94	13.12	12.84	-164.25	108.52	-619.94	1,345.43	1,322.27	23.16	58.085	
5,000.00	4,913.30	4,735.68	4,666.95	13.45	13.08	-164.17	116.02	-636.42	1,387.24	1,363.66	23.58	58.837	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 151H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,009.89	4,826.50	4,755.95	13.78	13.33	-164.09	123.52	-652.89	1,429.04	1,405.05	23.99	59.561	
5,200.00	5,106.49	4,917.33	4,844.95	14.10	13.57	-164.01	131.02	-669.36	1,470.85	1,446.44	24.41	60.257	
5,300.00	5,203.08	5,008.15	4,933.95	14.43	13.82	-163.94	138.51	-685.84	1,512.66	1,487.84	24.83	60.928	
5,400.00	5,299.67	5,098.98	5,022.96	14.75	14.06	-163.89	146.01	-702.31	1,554.47	1,529.23	25.24	61.596	
5,500.00	5,396.65	5,190.40	5,112.54	15.07	14.31	-163.99	153.56	-718.90	1,594.93	1,569.27	25.67	62.142	
5,600.00	5,494.23	5,282.79	5,203.08	15.36	14.56	-164.05	161.19	-735.65	1,633.09	1,607.00	26.09	62.588	
5,700.00	5,592.35	5,376.08	5,294.51	15.62	14.81	-164.08	168.89	-752.58	1,668.92	1,642.40	26.52	62.937	
5,800.00	5,690.94	5,470.22	5,386.76	15.86	15.07	-164.08	176.66	-769.65	1,702.39	1,675.45	26.94	63.196	
5,900.00	5,789.93	5,565.14	5,479.77	16.07	15.33	-164.05	184.49	-786.87	1,733.49	1,706.14	27.36	63.370	
6,000.00	5,889.26	5,660.77	5,573.48	16.25	15.59	-163.99	192.39	-804.22	1,762.21	1,734.44	27.77	63.466	
6,100.00	5,988.86	5,757.05	5,667.83	16.41	15.85	-163.90	200.34	-821.68	1,788.52	1,760.35	28.17	63.490	
6,200.00	6,088.66	5,853.91	5,762.75	16.53	16.11	-163.78	208.33	-839.25	1,812.43	1,783.86	28.57	63.446	
6,300.00	6,188.59	5,986.02	5,892.37	16.64	16.46	-163.56	218.90	-862.46	1,833.48	1,804.40	29.09	63.038	
6,400.00	6,288.58	6,160.96	6,065.14	16.71	16.85	-90.84	230.21	-887.32	1,848.65	1,818.99	29.66	62.334	
6,500.00	6,388.58	6,338.35	6,241.44	16.76	17.17	-90.58	238.33	-905.15	1,858.66	1,828.51	30.14	61.663	
6,600.00	6,488.58	6,517.20	6,419.90	16.82	17.41	-90.43	243.07	-915.56	1,864.46	1,833.91	30.55	61.022	
6,700.00	6,588.58	6,685.92	6,588.58	16.88	17.53	-90.39	244.37	-918.43	1,866.05	1,835.24	30.81	60.568	
6,800.00	6,688.58	6,785.92	6,688.58	16.94	17.59	-90.39	244.37	-918.43	1,866.05	1,835.13	30.92	60.349	
6,900.00	6,788.58	6,885.92	6,788.58	17.00	17.65	-90.39	244.37	-918.43	1,866.05	1,835.02	31.04	60.121	
7,000.00	6,888.58	6,985.92	6,888.58	17.05	17.71	-90.39	244.37	-918.43	1,866.05	1,834.90	31.16	59.894	
7,100.00	6,988.58	7,085.92	6,988.58	17.11	17.76	-90.39	244.37	-918.43	1,866.05	1,834.78	31.27	59.668	
7,200.00	7,088.58	7,185.92	7,088.58	17.17	17.82	-90.39	244.37	-918.43	1,866.05	1,834.66	31.39	59.443	
7,300.00	7,188.58	7,285.92	7,188.58	17.23	17.88	-90.39	244.37	-918.43	1,866.05	1,834.54	31.51	59.219	
7,400.00	7,288.58	7,385.92	7,288.58	17.29	17.94	-90.39	244.37	-918.43	1,866.05	1,834.42	31.63	58.995	
7,500.00	7,388.58	7,485.92	7,388.58	17.35	18.00	-90.39	244.37	-918.43	1,866.05	1,834.30	31.75	58.773	
7,600.00	7,488.58	7,585.92	7,488.58	17.41	18.06	-90.39	244.37	-918.43	1,866.05	1,834.18	31.87	58.552	
7,700.00	7,588.58	7,685.92	7,588.58	17.47	18.12	-90.39	244.37	-918.43	1,866.05	1,834.06	31.99	58.331	
7,800.00	7,688.58	7,785.92	7,688.58	17.53	18.18	-90.39	244.37	-918.43	1,866.05	1,833.94	32.11	58.112	
7,900.00	7,788.58	7,885.92	7,788.58	17.59	18.24	-90.39	244.37	-918.43	1,866.05	1,833.82	32.23	57.893	
8,000.00	7,888.58	7,985.92	7,888.58	17.65	18.30	-90.39	244.37	-918.43	1,866.05	1,833.70	32.35	57.676	
8,100.00	7,988.58	8,085.92	7,988.58	17.71	18.37	-90.39	244.37	-918.43	1,866.05	1,833.58	32.48	57.459	
8,200.00	8,088.58	8,185.92	8,088.58	17.77	18.43	-90.39	244.37	-918.43	1,866.05	1,833.45	32.60	57.244	
8,300.00	8,188.58	8,285.92	8,188.58	17.83	18.49	-90.39	244.37	-918.43	1,866.05	1,833.33	32.72	57.029	
8,400.00	8,288.58	8,385.92	8,288.58	17.89	18.55	-90.39	244.37	-918.43	1,866.05	1,833.21	32.84	56.816	
8,500.00	8,388.58	8,485.92	8,388.58	17.95	18.61	-90.39	244.37	-918.43	1,866.05	1,833.09	32.97	56.603	
8,600.00	8,488.58	8,585.92	8,488.58	18.02	18.67	-90.39	244.37	-918.43	1,866.05	1,832.96	33.09	56.392	
8,700.00	8,588.58	8,685.92	8,588.58	18.08	18.73	-90.39	244.37	-918.43	1,866.05	1,832.84	33.21	56.181	
8,800.00	8,688.58	8,785.92	8,688.58	18.14	18.80	-90.39	244.37	-918.43	1,866.05	1,832.71	33.34	55.972	
8,900.00	8,788.58	8,885.92	8,788.58	18.20	18.86	-90.39	244.37	-918.43	1,866.05	1,832.59	33.46	55.763	
9,000.00	8,888.58	8,985.92	8,888.58	18.26	18.92	-90.39	244.37	-918.43	1,866.05	1,832.46	33.59	55.555	
9,100.00	8,988.58	9,085.92	8,988.58	18.32	18.98	-90.39	244.37	-918.43	1,866.05	1,832.34	33.71	55.349	
9,200.00	9,088.58	9,185.92	9,088.58	18.39	19.04	-90.39	244.37	-918.43	1,866.05	1,832.21	33.84	55.143	
9,300.00	9,188.58	9,285.92	9,188.58	18.45	19.11	-90.39	244.37	-918.43	1,866.05	1,832.09	33.97	54.939	
9,400.00	9,288.58	9,385.92	9,288.58	18.51	19.17	-90.39	244.37	-918.43	1,866.05	1,831.96	34.09	54.735	
9,500.00	9,388.58	9,485.92	9,388.58	18.57	19.23	-90.39	244.37	-918.43	1,866.05	1,831.83	34.22	54.533	
9,600.00	9,488.58	9,585.92	9,488.58	18.64	19.30	-90.39	244.37	-918.43	1,866.05	1,831.71	34.35	54.331	
9,700.00	9,588.58	9,685.92	9,588.58	18.70	19.36	-90.39	244.37	-918.43	1,866.05	1,831.58	34.47	54.131	
9,800.00	9,688.58	9,785.92	9,688.58	18.76	19.42	-90.39	244.37	-918.43	1,866.05	1,831.45	34.60	53.931	
9,900.00	9,788.58	9,885.92	9,788.58	18.83	19.49	-90.39	244.37	-918.43	1,866.05	1,831.32	34.73	53.733	
10,000.00	9,888.58	9,985.92	9,888.58	18.89	19.55	-90.39	244.37	-918.43	1,866.05	1,831.20	34.86	53.535	
10,100.00	9,988.58	10,085.92	9,988.58	18.95	19.61	-90.39	244.37	-918.43	1,866.05	1,831.07	34.98	53.339	
10,200.00	10,088.58	10,185.92	10,088.58	19.02	19.68	-90.39	244.37	-918.43	1,866.05	1,830.94	35.11	53.143	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 151H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,188.58	10,285.92	10,188.58	19.08	19.74	-90.39	244.37	-918.43	1,866.05	1,830.81	35.24	52.949	
10,400.00	10,288.58	10,385.92	10,288.58	19.15	19.80	-90.39	244.37	-918.43	1,866.05	1,830.68	35.37	52.755	
10,500.00	10,388.58	10,485.92	10,388.58	19.21	19.87	-90.39	244.37	-918.43	1,866.05	1,830.55	35.50	52.563	
10,600.00	10,488.58	10,585.92	10,488.58	19.27	19.93	-90.39	244.37	-918.43	1,866.05	1,830.42	35.63	52.371	
10,700.00	10,588.58	10,685.92	10,588.58	19.34	20.00	-90.39	244.37	-918.43	1,866.05	1,830.29	35.76	52.181	
10,800.00	10,688.58	10,785.92	10,688.58	19.40	20.06	-90.39	244.37	-918.43	1,866.05	1,830.16	35.89	51.991	
10,900.00	10,788.58	10,885.92	10,788.58	19.47	20.13	-90.39	244.37	-918.43	1,866.05	1,830.03	36.02	51.803	
11,000.00	10,888.58	10,985.92	10,888.58	19.53	20.19	-90.39	244.37	-918.43	1,866.05	1,829.90	36.15	51.615	
11,100.00	10,988.58	11,085.92	10,988.58	19.60	20.26	-90.39	244.37	-918.43	1,866.05	1,829.77	36.28	51.429	
11,200.00	11,088.58	11,185.98	11,088.64	19.66	20.31	-90.39	244.27	-918.43	1,866.05	1,829.65	36.40	51.267	
11,251.40	11,139.98	11,237.44	11,139.98	19.70	20.33	-90.49	241.01	-918.40	1,866.05	1,829.63	36.42	51.243	
11,300.00	11,188.58	11,285.20	11,187.19	19.73	20.34	-90.71	233.87	-918.34	1,866.06	1,829.65	36.41	51.245	
11,400.00	11,288.58	11,378.23	11,276.68	19.79	20.35	-91.48	208.82	-918.12	1,866.37	1,829.99	36.38	51.308	
11,500.00	11,388.58	11,461.36	11,352.29	19.86	20.35	-92.54	174.45	-917.83	1,867.59	1,831.28	36.31	51.429	
11,600.00	11,488.58	11,533.19	11,413.03	19.92	20.33	-93.71	136.21	-917.50	1,870.52	1,834.25	36.26	51.580	
11,700.00	11,588.58	11,600.00	11,464.83	19.99	20.33	-95.00	94.08	-917.14	1,875.91	1,839.67	36.24	51.764	
11,800.00	11,688.58	11,650.00	11,500.20	20.05	20.34	-96.07	58.75	-916.83	1,884.37	1,848.07	36.30	51.908	
11,900.00	11,788.58	11,688.18	11,525.06	20.12	20.34	-96.95	29.78	-916.58	1,896.37	1,859.90	36.46	52.008	
12,000.00	11,888.58	11,724.38	11,546.79	20.19	20.36	-97.83	0.84	-916.33	1,912.24	1,875.54	36.70	52.108	
12,100.00	11,988.51	11,750.00	11,561.05	20.25	20.38	80.97	-20.44	-916.15	1,931.84	1,894.86	36.99	52.228	
12,200.00	12,086.82	11,800.00	11,586.06	20.31	20.42	77.73	-63.71	-915.78	1,952.95	1,915.74	37.21	52.488	
12,300.00	12,180.57	11,824.87	11,597.08	20.35	20.45	75.15	-86.01	-915.59	1,974.07	1,936.50	37.57	52.546	
12,400.00	12,266.93	11,850.00	11,607.21	20.39	20.48	72.72	-109.00	-915.39	1,994.40	1,956.45	37.95	52.549	
12,500.00	12,343.26	11,900.00	11,624.34	20.44	20.56	70.23	-155.96	-914.98	2,012.71	1,974.42	38.29	52.568	
12,600.00	12,407.24	11,950.00	11,637.30	20.52	20.66	68.21	-204.23	-914.57	2,028.50	1,989.84	38.66	52.474	
12,700.00	12,456.94	11,977.68	11,642.65	20.67	20.72	66.85	-231.38	-914.33	2,040.80	2,001.72	39.07	52.230	
12,800.00	12,490.84	12,017.38	11,648.03	20.88	20.82	65.85	-270.71	-914.00	2,049.34	2,009.88	39.46	51.934	
12,900.00	12,507.91	12,057.31	11,650.67	21.18	20.93	65.35	-310.54	-913.65	2,053.71	2,013.89	39.83	51.565	
13,000.00	12,510.43	12,137.72	11,651.52	21.56	21.19	65.28	-390.94	-912.96	2,054.25	2,014.00	40.25	51.033	
13,100.00	12,511.30	12,237.72	11,652.39	22.01	21.57	65.28	-490.93	-912.10	2,054.25	2,013.41	40.85	50.292	
13,200.00	12,512.18	12,337.72	11,653.25	22.52	22.01	65.28	-590.93	-911.24	2,054.26	2,012.67	41.58	49.399	
13,300.00	12,513.05	12,437.72	11,654.12	23.10	22.50	65.28	-690.92	-910.38	2,054.26	2,011.80	42.46	48.382	
13,400.00	12,513.92	12,537.72	11,654.98	23.73	23.05	65.28	-790.91	-909.52	2,054.26	2,010.80	43.46	47.266	
13,500.00	12,514.80	12,637.72	11,655.85	24.41	23.65	65.28	-890.90	-908.66	2,054.27	2,009.68	44.58	46.076	
13,600.00	12,515.67	12,737.72	11,656.72	25.15	24.30	65.28	-990.90	-907.80	2,054.27	2,008.45	45.82	44.836	
13,700.00	12,516.55	12,837.72	11,657.58	25.93	25.00	65.28	-1,090.89	-906.94	2,054.27	2,007.12	47.15	43.567	
13,800.00	12,517.42	12,937.72	11,658.45	26.76	25.75	65.28	-1,190.88	-906.08	2,054.28	2,005.70	48.58	42.285	
13,900.00	12,518.29	13,037.72	11,659.31	27.63	26.54	65.28	-1,290.87	-905.21	2,054.28	2,004.18	50.10	41.007	
14,000.00	12,519.17	13,137.72	11,660.18	28.53	27.37	65.28	-1,390.87	-904.35	2,054.28	2,002.59	51.69	39.743	
14,100.00	12,520.04	13,237.72	11,661.05	29.47	28.24	65.28	-1,490.86	-903.49	2,054.29	2,000.93	53.35	38.503	
14,200.00	12,520.91	13,337.72	11,661.91	30.44	29.15	65.28	-1,590.85	-902.63	2,054.29	1,999.21	55.08	37.295	
14,300.00	12,521.79	13,437.72	11,662.78	31.44	30.09	65.28	-1,690.84	-901.77	2,054.29	1,997.42	56.87	36.122	
14,400.00	12,522.66	13,537.72	11,663.64	32.46	31.06	65.28	-1,790.84	-900.91	2,054.30	1,995.59	58.71	34.990	
14,500.00	12,523.53	13,637.72	11,664.51	33.51	32.06	65.28	-1,890.83	-900.05	2,054.30	1,993.70	60.60	33.898	
14,600.00	12,524.41	13,737.72	11,665.38	34.58	33.08	65.28	-1,990.82	-899.19	2,054.31	1,991.77	62.54	32.850	
14,700.00	12,525.28	13,837.72	11,666.24	35.67	34.13	65.28	-2,090.82	-898.33	2,054.31	1,989.80	64.51	31.845	
14,800.00	12,526.16	13,937.72	11,667.11	36.78	35.20	65.28	-2,190.81	-897.47	2,054.31	1,987.79	66.52	30.882	
14,900.00	12,527.03	14,037.72	11,667.97	37.90	36.29	65.28	-2,290.80	-896.61	2,054.32	1,985.75	68.57	29.961	
15,000.00	12,527.90	14,137.72	11,668.84	39.04	37.40	65.28	-2,390.79	-895.75	2,054.32	1,983.68	70.64	29.081	
15,100.00	12,528.78	14,237.72	11,669.71	40.20	38.53	65.28	-2,490.79	-894.89	2,054.32	1,981.58	72.74	28.241	
15,200.00	12,529.65	14,337.72	11,670.57	41.37	39.67	65.28	-2,590.78	-894.03	2,054.33	1,979.46	74.87	27.438	
15,300.00	12,530.52	14,437.72	11,671.44	42.55	40.82	65.28	-2,690.77	-893.16	2,054.33	1,977.31	77.02	26.672	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 151H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	12,531.40	14,537.72	11,672.30	43.74	41.99	65.28	-2,790.76	-892.30	2,054.33	1,975.14	79.20	25.940	
15,500.00	12,532.27	14,637.72	11,673.17	44.94	43.17	65.28	-2,890.76	-891.44	2,054.34	1,972.95	81.39	25.241	
15,600.00	12,533.14	14,737.72	11,674.04	46.15	44.36	65.28	-2,990.75	-890.58	2,054.34	1,970.74	83.60	24.573	
15,700.00	12,534.02	14,837.72	11,674.90	47.37	45.56	65.28	-3,090.74	-889.72	2,054.34	1,968.52	85.83	23.936	
15,800.00	12,534.89	14,937.72	11,675.77	48.59	46.78	65.28	-3,190.73	-888.86	2,054.35	1,966.28	88.07	23.326	
15,900.00	12,535.76	15,037.72	11,676.63	49.83	47.99	65.28	-3,290.73	-888.00	2,054.35	1,964.02	90.33	22.743	
16,000.00	12,536.64	15,137.72	11,677.50	51.07	49.22	65.28	-3,390.72	-887.14	2,054.36	1,961.75	92.60	22.185	
16,100.00	12,537.51	15,237.72	11,678.37	52.32	50.46	65.28	-3,490.71	-886.28	2,054.36	1,959.47	94.88	21.651	
16,200.00	12,538.39	15,337.72	11,679.23	53.57	51.70	65.28	-3,590.70	-885.42	2,054.36	1,957.18	97.18	21.140	
16,300.00	12,539.26	15,437.72	11,680.10	54.83	52.95	65.28	-3,690.70	-884.56	2,054.37	1,954.88	99.49	20.650	
16,400.00	12,540.13	15,537.72	11,680.96	56.09	54.20	65.28	-3,790.69	-883.70	2,054.37	1,952.57	101.80	20.180	
16,500.00	12,541.01	15,637.72	11,681.83	57.36	55.46	65.28	-3,890.68	-882.84	2,054.37	1,950.25	104.13	19.730	
16,600.00	12,541.88	15,737.72	11,682.70	58.64	56.73	65.28	-3,990.67	-881.97	2,054.38	1,947.92	106.46	19.297	
16,700.00	12,542.75	15,837.72	11,683.56	59.91	58.00	65.28	-4,090.67	-881.11	2,054.38	1,945.58	108.80	18.882	
16,800.00	12,543.63	15,937.72	11,684.43	61.20	59.27	65.28	-4,190.66	-880.25	2,054.38	1,943.23	111.15	18.483	
16,900.00	12,544.50	16,037.72	11,685.29	62.48	60.55	65.28	-4,290.65	-879.39	2,054.39	1,940.88	113.51	18.099	
17,000.00	12,545.37	16,137.72	11,686.16	63.77	61.83	65.28	-4,390.64	-878.53	2,054.39	1,938.52	115.87	17.730	
17,100.00	12,546.25	16,237.72	11,687.03	65.06	63.12	65.28	-4,490.64	-877.67	2,054.39	1,936.15	118.24	17.374	
17,200.00	12,547.12	16,337.72	11,687.89	66.36	64.41	65.28	-4,590.63	-876.81	2,054.40	1,933.78	120.62	17.032	
17,300.00	12,547.99	16,437.72	11,688.76	67.66	65.70	65.28	-4,690.62	-875.95	2,054.40	1,931.40	123.00	16.703	
17,400.00	12,548.87	16,537.72	11,689.62	68.96	66.99	65.28	-4,790.61	-875.09	2,054.40	1,929.02	125.39	16.385	
17,500.00	12,549.74	16,637.72	11,690.49	70.26	68.29	65.27	-4,890.61	-874.23	2,054.41	1,926.63	127.78	16.078	
17,600.00	12,550.62	16,737.72	11,691.36	71.57	69.60	65.27	-4,990.60	-873.37	2,054.41	1,924.24	130.17	15.782	
17,700.00	12,551.49	16,837.72	11,692.22	72.88	70.90	65.27	-5,090.59	-872.51	2,054.42	1,921.84	132.57	15.496	
17,800.00	12,552.36	16,937.72	11,693.09	74.19	72.21	65.27	-5,190.58	-871.65	2,054.42	1,919.44	134.98	15.220	
17,900.00	12,553.24	17,037.72	11,693.95	75.50	73.52	65.27	-5,290.58	-870.79	2,054.42	1,917.03	137.39	14.953	
18,000.00	12,554.11	17,137.72	11,694.82	76.81	74.83	65.27	-5,390.57	-869.92	2,054.43	1,914.63	139.80	14.695	
18,100.00	12,554.98	17,237.72	11,695.69	78.13	76.14	65.27	-5,490.56	-869.06	2,054.43	1,912.21	142.22	14.446	
18,200.00	12,555.86	17,337.72	11,696.55	79.45	77.46	65.27	-5,590.55	-868.20	2,054.43	1,909.80	144.64	14.204	
18,300.00	12,556.73	17,437.72	11,697.42	80.77	78.77	65.27	-5,690.55	-867.34	2,054.44	1,907.38	147.06	13.970	
18,400.00	12,557.60	17,537.72	11,698.28	82.09	80.09	65.27	-5,790.54	-866.48	2,054.44	1,904.95	149.49	13.743	
18,500.00	12,558.48	17,637.72	11,699.15	83.42	81.41	65.27	-5,890.53	-865.62	2,054.44	1,902.53	151.92	13.524	
18,600.00	12,559.35	17,737.72	11,700.02	84.74	82.74	65.27	-5,990.52	-864.76	2,054.45	1,900.10	154.35	13.311	
18,700.00	12,560.23	17,837.72	11,700.88	86.07	84.06	65.27	-6,090.52	-863.90	2,054.45	1,897.67	156.78	13.104	
18,800.00	12,561.10	17,937.72	11,701.75	87.40	85.38	65.27	-6,190.51	-863.04	2,054.45	1,895.24	159.22	12.903	
18,900.00	12,561.97	18,037.72	11,702.61	88.72	86.71	65.27	-6,290.50	-862.18	2,054.46	1,892.80	161.66	12.709	
19,000.00	12,562.85	18,137.72	11,703.48	90.05	88.04	65.27	-6,390.49	-861.32	2,054.46	1,890.36	164.10	12.520	
19,100.00	12,563.72	18,237.72	11,704.35	91.39	89.37	65.27	-6,490.49	-860.46	2,054.47	1,887.92	166.54	12.336	
19,200.00	12,564.59	18,337.72	11,705.21	92.72	90.70	65.27	-6,590.48	-859.60	2,054.47	1,885.48	168.99	12.157	
19,300.00	12,565.47	18,437.72	11,706.08	94.05	92.03	65.27	-6,690.47	-858.74	2,054.47	1,883.04	171.44	11.984	
19,400.00	12,566.34	18,537.72	11,706.94	95.39	93.36	65.27	-6,790.46	-857.87	2,054.48	1,880.59	173.89	11.815	
19,500.00	12,567.21	18,637.72	11,707.81	96.72	94.70	65.27	-6,890.46	-857.01	2,054.48	1,878.14	176.34	11.651	
19,600.00	12,568.09	18,737.72	11,708.68	98.06	96.03	65.27	-6,990.45	-856.15	2,054.48	1,875.69	178.79	11.491	
19,700.00	12,568.96	18,837.72	11,709.54	99.40	97.37	65.27	-7,090.44	-855.29	2,054.49	1,873.24	181.25	11.335	
19,800.00	12,569.83	18,937.72	11,710.41	100.73	98.71	65.27	-7,190.44	-854.43	2,054.49	1,870.79	183.71	11.184	
19,900.00	12,570.71	19,037.72	11,711.27	102.07	100.04	65.27	-7,290.43	-853.57	2,054.49	1,868.33	186.16	11.036	
20,000.00	12,571.58	19,137.72	11,712.14	103.41	101.38	65.27	-7,390.42	-852.71	2,054.50	1,865.87	188.62	10.892	
20,100.00	12,572.46	19,237.72	11,713.01	104.75	102.72	65.27	-7,490.41	-851.85	2,054.50	1,863.42	191.09	10.752	
20,200.00	12,573.33	19,337.72	11,713.87	106.10	104.06	65.27	-7,590.41	-850.99	2,054.50	1,860.96	193.55	10.615	
20,300.00	12,574.20	19,437.72	11,714.74	107.44	105.40	65.27	-7,690.40	-850.13	2,054.51	1,858.50	196.01	10.481	
20,400.00	12,575.08	19,537.72	11,715.60	108.78	106.75	65.27	-7,790.39	-849.27	2,054.51	1,856.03	198.48	10.351	
20,500.00	12,575.95	19,637.72	11,716.47	110.12	108.09	65.27	-7,890.38	-848.41	2,054.52	1,853.57	200.95	10.224	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 151H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,576.82	19,737.72	11,717.34	111.47	109.43	65.27	-7,990.38	-847.55	2,054.52	1,851.11	203.41	10.100	
20,700.00	12,577.70	19,837.72	11,718.20	112.81	110.77	65.27	-8,090.37	-846.68	2,054.52	1,848.64	205.88	9.979	
20,800.00	12,578.57	19,937.72	11,719.07	114.16	112.12	65.27	-8,190.36	-845.82	2,054.53	1,846.17	208.35	9.861	
20,900.00	12,579.44	20,037.72	11,719.93	115.51	113.46	65.27	-8,290.35	-844.96	2,054.53	1,843.70	210.82	9.745	
21,000.00	12,580.32	20,137.72	11,720.80	116.85	114.81	65.27	-8,390.35	-844.10	2,054.53	1,841.24	213.30	9.632	
21,100.00	12,581.19	20,237.72	11,721.67	118.20	116.16	65.27	-8,490.34	-843.24	2,054.54	1,838.77	215.77	9.522	
21,200.00	12,582.06	20,337.72	11,722.53	119.55	117.50	65.27	-8,590.33	-842.38	2,054.54	1,836.30	218.25	9.414	
21,300.00	12,582.94	20,437.72	11,723.40	120.89	118.85	65.27	-8,690.32	-841.52	2,054.54	1,833.82	220.72	9.308	
21,400.00	12,583.81	20,537.72	11,724.26	122.24	120.20	65.27	-8,790.32	-840.66	2,054.55	1,831.35	223.20	9.205	
21,500.00	12,584.69	20,637.72	11,725.13	123.59	121.55	65.27	-8,890.31	-839.80	2,054.55	1,828.88	225.67	9.104	
21,600.00	12,585.56	20,737.72	11,726.00	124.94	122.90	65.27	-8,990.30	-838.94	2,054.55	1,826.40	228.15	9.005	
21,700.00	12,586.43	20,837.72	11,726.86	126.29	124.24	65.27	-9,090.29	-838.08	2,054.56	1,823.93	230.63	8.908	
21,800.00	12,587.31	20,937.72	11,727.73	127.64	125.59	65.27	-9,190.29	-837.22	2,054.56	1,821.45	233.11	8.814	
21,900.00	12,588.18	21,037.72	11,728.59	128.99	126.94	65.27	-9,290.28	-836.36	2,054.57	1,818.97	235.59	8.721	
22,000.00	12,589.05	21,137.72	11,729.46	130.34	128.30	65.27	-9,390.27	-835.50	2,054.57	1,816.50	238.07	8.630	
22,100.00	12,589.93	21,237.72	11,730.33	131.70	129.65	65.27	-9,490.26	-834.63	2,054.57	1,814.02	240.55	8.541	
22,200.00	12,590.80	21,337.72	11,731.19	133.05	131.00	65.27	-9,590.26	-833.77	2,054.58	1,811.54	243.04	8.454	
22,300.00	12,591.67	21,437.72	11,732.06	134.40	132.35	65.27	-9,690.25	-832.91	2,054.58	1,809.06	245.52	8.368	
22,400.00	12,592.55	21,537.72	11,732.92	135.75	133.70	65.27	-9,790.24	-832.05	2,054.58	1,806.58	248.00	8.284	
22,500.00	12,593.42	21,637.72	11,733.79	137.11	135.05	65.27	-9,890.23	-831.19	2,054.59	1,804.10	250.49	8.202	
22,600.00	12,594.30	21,737.72	11,734.66	138.46	136.41	65.27	-9,990.23	-830.33	2,054.59	1,801.62	252.97	8.122	
22,700.00	12,595.17	21,837.72	11,735.52	139.81	137.76	65.27	-10,090.22	-829.47	2,054.59	1,799.13	255.46	8.043	
22,800.00	12,596.04	21,937.72	11,736.39	141.17	139.11	65.27	-10,190.21	-828.61	2,054.60	1,796.65	257.95	7.965	
22,806.13	12,596.10	21,943.85	11,736.44	141.25	139.20	65.27	-10,196.34	-828.56	2,054.60	1,796.50	258.10	7.961	
22,875.30	12,596.70	22,008.51	11,737.00	142.19	140.07	65.26	-10,261.00	-828.00	2,054.60	1,794.83	259.77	7.909	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 152H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	1.00	0.50	0.50	90.00	0.00	25.00	25.02				
100.00	100.00	99.00	100.00	0.98	0.97	90.00	0.00	25.00	25.00	23.05	1.95	12.788	
200.00	200.00	199.00	200.00	1.56	1.56	90.00	0.00	25.00	25.00	21.88	3.12	8.022	
300.00	300.00	299.00	300.00	1.98	1.98	90.00	0.00	25.00	25.00	21.04	3.96	6.316	CC, ES
400.00	400.00	398.44	399.43	2.33	2.41	88.44	0.71	26.05	26.07	21.36	4.71	5.533	
500.00	500.00	497.75	498.66	2.63	2.78	84.42	2.86	29.25	29.42	24.04	5.37	5.473	SF
600.00	600.00	596.79	597.49	2.91	3.11	79.46	6.43	34.56	35.24	29.27	5.98	5.894	
700.00	700.00	696.10	696.43	3.16	3.25	74.97	11.17	41.60	43.22	36.84	6.38	6.773	
800.00	800.00	795.72	795.68	3.40	3.50	71.83	16.01	48.80	51.54	44.67	6.87	7.503	
900.00	900.00	895.34	894.92	3.62	3.74	69.57	20.86	56.01	59.98	52.64	7.34	8.175	
1,000.00	1,000.00	994.96	994.16	3.76	3.97	-24.14	25.71	63.21	68.44	60.73	7.71	8.877	
1,100.00	1,099.98	1,094.69	1,093.51	4.00	4.20	-26.02	30.56	70.42	75.35	67.18	8.17	9.220	
1,200.00	1,199.88	1,194.52	1,192.96	4.24	4.42	-28.45	35.41	77.64	80.02	71.40	8.62	9.284	
1,300.00	1,299.63	1,294.39	1,292.45	4.46	4.64	-31.55	40.27	84.86	82.58	73.53	9.05	9.123	
1,400.00	1,399.25	1,394.24	1,391.92	4.60	4.86	-35.10	45.13	92.09	84.04	74.64	9.40	8.942	
1,500.00	1,498.87	1,494.10	1,491.40	4.78	5.07	-38.53	49.99	99.31	85.78	76.00	9.78	8.767	
1,600.00	1,598.49	1,593.95	1,590.87	4.96	5.28	-41.81	54.85	106.53	87.82	77.66	10.17	8.639	
1,700.00	1,698.11	1,693.81	1,690.35	5.14	5.49	-44.93	59.70	113.75	90.14	79.59	10.54	8.552	
1,800.00	1,797.73	1,793.66	1,789.83	5.32	5.69	-47.89	64.56	120.97	92.70	81.79	10.91	8.498	
1,900.00	1,897.34	1,893.52	1,889.30	5.49	5.90	-50.68	69.42	128.19	95.51	84.23	11.27	8.472	
2,000.00	1,996.96	1,993.37	1,988.78	5.67	6.10	-53.30	74.28	135.41	98.52	86.89	11.63	8.470	
2,100.00	2,096.58	2,093.23	2,088.25	5.85	6.30	-55.77	79.14	142.63	101.73	89.75	11.99	8.487	
2,200.00	2,196.20	2,193.09	2,187.73	6.04	6.51	-58.08	83.99	149.85	105.12	92.77	12.35	8.509	
2,300.00	2,295.72	2,290.77	2,284.95	6.23	6.71	-54.01	89.26	157.69	108.51	95.80	12.70	8.542	
2,400.00	2,394.97	2,388.08	2,381.53	6.43	6.94	-52.01	95.88	167.52	112.14	99.06	13.07	8.578	
2,500.00	2,493.89	2,485.33	2,477.73	6.64	7.17	-51.33	103.86	179.38	116.04	102.60	13.45	8.629	
2,600.00	2,592.40	2,583.69	2,574.65	6.85	7.33	-51.52	113.18	193.24	120.03	106.26	13.77	8.714	
2,700.00	2,690.45	2,683.46	2,672.91	7.07	7.52	-52.80	122.85	207.61	122.57	108.41	14.16	8.657	
2,800.00	2,787.96	2,783.15	2,771.09	7.28	7.73	-55.15	132.51	221.97	123.53	108.98	14.55	8.488	
2,900.00	2,884.87	2,882.68	2,869.11	7.49	7.93	-58.61	142.16	236.31	123.26	108.32	14.95	8.245	
2,979.63	2,961.78	2,961.87	2,947.09	7.64	8.10	-62.51	149.84	247.72	122.98	107.70	15.27	8.053	
3,000.00	2,981.46	2,982.12	2,967.04	7.68	8.14	-63.51	151.80	250.64	122.99	107.64	15.35	8.010	
3,100.00	3,078.05	3,081.56	3,064.96	7.87	8.34	-68.39	161.44	264.96	123.64	107.86	15.78	7.837	
3,200.00	3,174.64	3,181.00	3,162.89	8.06	8.55	-73.20	171.07	279.29	125.17	108.96	16.21	7.720	
3,300.00	3,271.24	3,280.43	3,260.82	8.26	8.76	-77.85	180.71	293.61	127.57	110.90	16.67	7.653	
3,400.00	3,367.83	3,379.87	3,358.74	8.51	8.96	-82.31	190.35	307.94	130.79	113.65	17.14	7.632	
3,500.00	3,464.42	3,479.31	3,456.67	8.80	9.17	-86.53	199.99	322.27	134.77	117.15	17.62	7.650	
3,600.00	3,561.01	3,578.75	3,554.60	9.09	9.37	-90.49	209.63	336.59	139.43	121.33	18.10	7.703	
3,700.00	3,657.60	3,678.18	3,652.52	9.38	9.58	-94.18	219.27	350.92	144.73	126.14	18.59	7.785	
3,800.00	3,754.20	3,778.07	3,751.04	9.68	9.79	-97.95	228.46	364.58	150.46	131.39	19.07	7.888	
3,900.00	3,850.79	3,877.58	3,849.58	9.98	10.01	-102.35	236.20	376.10	156.61	137.08	19.54	8.017	
4,000.00	3,947.38	3,976.44	3,947.80	10.28	10.22	-107.26	242.48	385.42	163.66	143.70	19.96	8.198	
4,100.00	4,043.97	4,074.54	4,045.51	10.59	10.42	-112.55	247.30	392.59	172.11	151.75	20.36	8.453	
4,200.00	4,140.56	4,171.74	4,142.52	10.90	10.61	-118.03	250.70	397.64	182.43	161.71	20.72	8.803	
4,300.00	4,237.16	4,267.94	4,238.65	11.21	10.78	-123.55	252.70	400.61	195.04	173.99	21.06	9.262	
4,400.00	4,333.75	4,363.05	4,333.75	11.52	10.89	-128.92	253.35	401.58	210.27	188.93	21.34	9.854	
4,500.00	4,430.34	4,459.64	4,430.34	11.84	10.96	-133.91	253.35	401.58	227.74	206.13	21.61	10.540	
4,600.00	4,526.93	4,556.24	4,526.93	12.16	11.04	-138.18	253.35	401.58	246.69	224.80	21.89	11.267	
4,700.00	4,623.53	4,652.83	4,623.53	12.48	11.12	-141.84	253.35	401.58	266.81	244.63	22.18	12.028	
4,800.00	4,720.12	4,749.42	4,720.12	12.80	11.20	-144.99	253.35	401.58	287.85	265.38	22.47	12.810	
4,900.00	4,816.71	4,846.01	4,816.71	13.12	11.28	-147.71	253.35	401.58	309.63	286.87	22.76	13.605	
5,000.00	4,913.30	4,942.61	4,913.30	13.45	11.36	-150.08	253.35	401.58	332.00	308.95	23.05	14.404	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 152H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,009.89	5,039.20	5,009.89	13.78	11.44	-152.15	253.35	401.58	354.84	331.50	23.34	15.203	
5,200.00	5,106.49	5,135.79	5,106.49	14.10	11.52	-153.97	253.35	401.58	378.08	354.45	23.63	15.998	
5,300.00	5,203.08	5,232.38	5,203.08	14.43	11.60	-155.58	253.35	401.58	401.64	377.72	23.93	16.787	
5,400.00	5,299.67	5,328.98	5,299.67	14.75	11.68	-157.03	253.35	401.58	425.46	401.25	24.21	17.574	
5,500.00	5,396.65	5,425.95	5,396.65	15.07	11.76	-158.37	253.35	401.58	448.13	423.62	24.51	18.281	
5,600.00	5,494.23	5,523.53	5,494.23	15.36	11.84	-159.46	253.35	401.58	468.59	443.77	24.81	18.884	
5,700.00	5,592.35	5,621.65	5,592.35	15.62	11.92	-160.35	253.35	401.58	486.74	461.63	25.11	19.385	
5,800.00	5,690.94	5,720.24	5,690.94	15.86	12.01	-161.07	253.35	401.58	502.54	477.14	25.40	19.785	
5,900.00	5,789.93	5,819.24	5,789.93	16.07	12.09	-161.64	253.35	401.58	515.94	490.25	25.69	20.087	
6,000.00	5,889.26	5,918.57	5,889.26	16.25	12.17	-162.08	253.35	401.58	526.90	500.94	25.96	20.294	
6,100.00	5,988.86	6,018.17	5,988.86	16.41	12.25	-162.42	253.35	401.58	535.41	509.18	26.23	20.410	
6,200.00	6,088.66	6,117.96	6,088.66	16.53	12.34	-162.65	253.35	401.58	541.43	514.94	26.49	20.439	
6,300.00	6,188.59	6,217.89	6,188.59	16.64	12.42	-162.78	253.35	401.58	544.97	518.23	26.73	20.385	
6,400.00	6,288.58	6,317.88	6,288.58	16.71	12.50	-90.39	253.35	401.58	546.01	519.11	26.90	20.295	
6,500.00	6,388.58	6,417.88	6,388.58	16.76	12.59	-90.39	253.35	401.58	546.01	518.97	27.04	20.189	
6,600.00	6,488.58	6,517.88	6,488.58	16.82	12.67	-90.39	253.35	401.58	546.01	518.83	27.19	20.084	
6,700.00	6,588.58	6,617.88	6,588.58	16.88	12.75	-90.39	253.35	401.58	546.01	518.68	27.33	19.980	
6,800.00	6,688.58	6,717.88	6,688.58	16.94	12.84	-90.39	253.35	401.58	546.01	518.54	27.47	19.877	
6,900.00	6,788.58	6,817.88	6,788.58	17.00	12.92	-90.39	253.35	401.58	546.01	518.40	27.61	19.775	
7,000.00	6,888.58	6,917.88	6,888.58	17.05	13.00	-90.39	253.35	401.58	546.01	518.26	27.75	19.673	
7,100.00	6,988.58	7,017.88	6,988.58	17.11	13.08	-90.39	253.35	401.58	546.01	518.12	27.90	19.573	
7,200.00	7,088.58	7,117.88	7,088.58	17.17	13.17	-90.39	253.35	401.58	546.01	517.97	28.04	19.473	
7,300.00	7,188.58	7,217.88	7,188.58	17.23	13.25	-90.39	253.35	401.58	546.01	517.83	28.18	19.374	
7,400.00	7,288.58	7,317.88	7,288.58	17.29	13.33	-90.39	253.35	401.58	546.01	517.69	28.33	19.276	
7,500.00	7,388.58	7,417.88	7,388.58	17.35	13.42	-90.39	253.35	401.58	546.01	517.54	28.47	19.179	
7,600.00	7,488.58	7,517.88	7,488.58	17.41	13.50	-90.39	253.35	401.58	546.01	517.40	28.61	19.083	
7,700.00	7,588.58	7,617.88	7,588.58	17.47	13.58	-90.39	253.35	401.58	546.01	517.26	28.76	18.988	
7,800.00	7,688.58	7,717.88	7,688.58	17.53	13.67	-90.39	253.35	401.58	546.01	517.11	28.90	18.894	
7,900.00	7,788.58	7,817.88	7,788.58	17.59	13.75	-90.39	253.35	401.58	546.01	516.97	29.04	18.800	
8,000.00	7,888.58	7,917.88	7,888.58	17.65	13.83	-90.39	253.35	401.58	546.01	516.83	29.19	18.707	
8,100.00	7,988.58	8,017.88	7,988.58	17.71	13.91	-90.39	253.35	401.58	546.01	516.68	29.33	18.615	
8,200.00	8,088.58	8,117.88	8,088.58	17.77	14.00	-90.39	253.35	401.58	546.01	516.54	29.48	18.524	
8,300.00	8,188.58	8,217.88	8,188.58	17.83	14.08	-90.39	253.35	401.58	546.01	516.39	29.62	18.433	
8,400.00	8,288.58	8,317.88	8,288.58	17.89	14.16	-90.39	253.35	401.58	546.01	516.25	29.77	18.344	
8,500.00	8,388.58	8,417.88	8,388.58	17.95	14.25	-90.39	253.35	401.58	546.01	516.10	29.91	18.255	
8,600.00	8,488.58	8,517.88	8,488.58	18.02	14.33	-90.39	253.35	401.58	546.01	515.96	30.06	18.167	
8,700.00	8,588.58	8,617.88	8,588.58	18.08	14.41	-90.39	253.35	401.58	546.01	515.81	30.20	18.079	
8,800.00	8,688.58	8,717.88	8,688.58	18.14	14.50	-90.39	253.35	401.58	546.01	515.67	30.35	17.992	
8,900.00	8,788.58	8,817.88	8,788.58	18.20	14.58	-90.39	253.35	401.58	546.01	515.52	30.49	17.907	
9,000.00	8,888.58	8,917.88	8,888.58	18.26	14.66	-90.39	253.35	401.58	546.01	515.37	30.64	17.821	
9,100.00	8,988.58	9,017.88	8,988.58	18.32	14.74	-90.39	253.35	401.58	546.01	515.23	30.78	17.737	
9,200.00	9,088.58	9,117.88	9,088.58	18.39	14.83	-90.39	253.35	401.58	546.01	515.08	30.93	17.653	
9,300.00	9,188.58	9,217.88	9,188.58	18.45	14.91	-90.39	253.35	401.58	546.01	514.94	31.08	17.570	
9,400.00	9,288.58	9,317.88	9,288.58	18.51	14.99	-90.39	253.35	401.58	546.01	514.79	31.22	17.488	
9,500.00	9,388.58	9,417.88	9,388.58	18.57	15.08	-90.39	253.35	401.58	546.01	514.64	31.37	17.406	
9,600.00	9,488.58	9,517.88	9,488.58	18.64	15.16	-90.39	253.35	401.58	546.01	514.50	31.52	17.325	
9,700.00	9,588.58	9,617.88	9,588.58	18.70	15.24	-90.39	253.35	401.58	546.01	514.35	31.66	17.245	
9,800.00	9,688.58	9,717.88	9,688.58	18.76	15.32	-90.39	253.35	401.58	546.01	514.20	31.81	17.165	
9,900.00	9,788.58	9,817.88	9,788.58	18.83	15.41	-90.39	253.35	401.58	546.01	514.06	31.96	17.086	
10,000.00	9,888.58	9,917.88	9,888.58	18.89	15.49	-90.39	253.35	401.58	546.01	513.91	32.10	17.008	
10,100.00	9,988.58	10,017.88	9,988.58	18.95	15.57	-90.39	253.35	401.58	546.01	513.76	32.25	16.930	
10,200.00	10,088.58	10,117.88	10,088.58	19.02	15.66	-90.39	253.35	401.58	546.01	513.61	32.40	16.853	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 152H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,188.58	10,217.88	10,188.58	19.08	15.74	-90.39	253.35	401.58	546.01	513.47	32.55	16.777	
10,400.00	10,288.58	10,317.88	10,288.58	19.15	15.82	-90.39	253.35	401.58	546.01	513.32	32.69	16.701	
10,500.00	10,388.58	10,417.88	10,388.58	19.21	15.91	-90.39	253.35	401.58	546.01	513.17	32.84	16.626	
10,600.00	10,488.58	10,517.88	10,488.58	19.27	15.99	-90.39	253.35	401.58	546.01	513.02	32.99	16.551	
10,700.00	10,588.58	10,617.88	10,588.58	19.34	16.07	-90.39	253.35	401.58	546.01	512.87	33.14	16.477	
10,800.00	10,688.58	10,717.88	10,688.58	19.40	16.15	-90.39	253.35	401.58	546.01	512.73	33.29	16.404	
10,900.00	10,788.58	10,817.88	10,788.58	19.47	16.24	-90.39	253.35	401.58	546.01	512.58	33.43	16.331	
11,000.00	10,888.58	10,917.88	10,888.58	19.53	16.32	-90.39	253.35	401.58	546.01	512.43	33.58	16.259	
11,100.00	10,988.58	11,017.88	10,988.58	19.60	16.40	-90.39	253.35	401.58	546.01	512.28	33.73	16.187	
11,200.00	11,088.58	11,117.90	11,088.60	19.66	16.49	-90.40	253.23	401.58	546.01	512.14	33.88	16.118	
11,221.94	11,110.52	11,139.84	11,110.52	19.68	16.50	-90.49	252.37	401.59	546.01	512.12	33.89	16.111	
11,300.00	11,188.58	11,216.69	11,186.70	19.73	16.53	-91.50	242.75	401.67	546.10	512.20	33.90	16.110	
11,400.00	11,288.58	11,309.30	11,275.78	19.79	16.57	-94.12	217.76	401.89	547.26	513.38	33.88	16.152	
11,500.00	11,388.58	11,392.09	11,351.09	19.86	16.62	-97.68	183.54	402.18	551.61	517.68	33.93	16.257	
11,600.00	11,488.58	11,463.68	11,411.65	19.92	16.68	-101.57	145.47	402.51	561.67	527.48	34.19	16.426	
11,700.00	11,588.58	11,524.40	11,458.97	19.99	16.73	-105.36	107.46	402.84	579.59	544.78	34.81	16.649	
11,800.00	11,688.58	11,575.47	11,495.46	20.05	16.77	-108.80	71.77	403.14	606.66	570.84	35.83	16.932	
11,900.00	11,788.58	11,618.38	11,523.57	20.12	16.82	-111.81	39.36	403.42	643.22	606.05	37.17	17.303	
12,000.00	11,888.58	11,650.00	11,542.70	20.19	16.85	-114.06	14.18	403.64	688.84	650.08	38.76	17.773	
12,100.00	11,988.51	11,686.27	11,562.88	20.25	16.90	60.96	-15.94	403.90	741.65	701.40	40.25	18.425	
12,200.00	12,086.82	11,719.66	11,579.74	20.31	16.94	53.76	-44.76	404.15	795.05	753.33	41.71	19.060	
12,300.00	12,180.57	11,750.00	11,593.58	20.35	16.99	47.88	-71.75	404.38	845.86	802.74	43.12	19.617	
12,400.00	12,266.93	11,800.00	11,613.22	20.39	17.07	42.61	-117.72	404.78	892.19	847.95	44.24	20.166	
12,500.00	12,343.26	11,829.74	11,622.97	20.44	17.13	39.08	-145.81	405.02	932.47	887.08	45.40	20.541	
12,600.00	12,407.24	11,868.46	11,633.46	20.52	17.21	36.29	-183.07	405.34	965.88	919.55	46.33	20.850	
12,700.00	12,456.94	11,900.00	11,640.12	20.67	17.28	34.40	-213.90	405.60	991.61	944.50	47.11	21.050	
12,800.00	12,490.84	11,950.00	11,647.19	20.88	17.41	33.07	-263.38	406.03	1,008.91	961.26	47.65	21.173	
12,900.00	12,507.91	12,001.28	11,649.94	21.18	17.56	32.46	-314.57	406.47	1,017.87	969.82	48.04	21.187	
13,000.00	12,510.43	12,066.40	11,650.51	21.56	17.78	32.41	-379.68	407.03	1,018.65	970.43	48.22	21.123	
13,100.00	12,511.30	12,166.40	11,651.38	22.01	18.20	32.41	-479.67	407.89	1,018.65	970.22	48.43	21.032	
13,200.00	12,512.18	12,266.40	11,652.26	22.52	18.70	32.41	-579.66	408.75	1,018.65	969.95	48.70	20.918	
13,300.00	12,513.05	12,366.40	11,653.14	23.10	19.28	32.41	-679.66	409.61	1,018.65	969.63	49.02	20.782	
13,400.00	12,513.92	12,466.40	11,654.01	23.73	19.94	32.41	-779.65	410.47	1,018.64	969.26	49.39	20.625	
13,500.00	12,514.80	12,566.40	11,654.89	24.41	20.68	32.41	-879.64	411.34	1,018.64	968.83	49.81	20.449	
13,600.00	12,515.67	12,666.40	11,655.77	25.15	21.49	32.41	-979.63	412.20	1,018.64	968.35	50.29	20.255	
13,700.00	12,516.55	12,766.40	11,656.64	25.93	22.35	32.41	-1,079.63	413.06	1,018.64	967.82	50.82	20.046	
13,800.00	12,517.42	12,866.40	11,657.52	26.76	23.27	32.41	-1,179.62	413.92	1,018.64	967.25	51.39	19.822	
13,900.00	12,518.29	12,966.40	11,658.39	27.63	24.23	32.41	-1,279.61	414.78	1,018.63	966.62	52.01	19.585	
14,000.00	12,519.17	13,066.40	11,659.27	28.53	25.23	32.41	-1,379.60	415.64	1,018.63	965.96	52.67	19.338	
14,100.00	12,520.04	13,166.40	11,660.15	29.47	26.27	32.41	-1,479.60	416.50	1,018.63	965.25	53.38	19.082	
14,200.00	12,520.91	13,266.40	11,661.02	30.44	27.33	32.41	-1,579.59	417.36	1,018.63	964.49	54.13	18.817	
14,300.00	12,521.79	13,366.40	11,661.90	31.44	28.43	32.41	-1,679.58	418.22	1,018.62	963.70	54.92	18.547	
14,400.00	12,522.66	13,466.40	11,662.78	32.46	29.54	32.41	-1,779.57	419.08	1,018.62	962.87	55.75	18.272	
14,500.00	12,523.53	13,566.40	11,663.65	33.51	30.68	32.41	-1,879.57	419.95	1,018.62	962.01	56.61	17.993	
14,600.00	12,524.41	13,666.40	11,664.53	34.58	31.84	32.41	-1,979.56	420.81	1,018.62	961.11	57.51	17.712	
14,700.00	12,525.28	13,766.40	11,665.41	35.67	33.02	32.41	-2,079.55	421.67	1,018.62	960.17	58.44	17.430	
14,800.00	12,526.16	13,866.40	11,666.28	36.78	34.21	32.41	-2,179.54	422.53	1,018.61	959.21	59.40	17.147	
14,900.00	12,527.03	13,966.40	11,667.16	37.90	35.41	32.41	-2,279.54	423.39	1,018.61	958.21	60.40	16.865	
15,000.00	12,527.90	14,066.40	11,668.03	39.04	36.62	32.41	-2,379.53	424.25	1,018.61	957.19	61.42	16.585	
15,100.00	12,528.78	14,166.40	11,668.91	40.20	37.85	32.41	-2,479.52	425.11	1,018.61	956.14	62.47	16.307	
15,200.00	12,529.65	14,266.40	11,669.79	41.37	39.09	32.41	-2,579.51	425.97	1,018.60	955.06	63.54	16.031	
15,300.00	12,530.52	14,366.40	11,670.66	42.55	40.33	32.41	-2,679.51	426.83	1,018.60	953.96	64.64	15.758	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 152H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	12,531.40	14,466.40	11,671.54	43.74	41.58	32.41	-2,779.50	427.69	1,018.60	952.84	65.76	15.490	
15,500.00	12,532.27	14,566.40	11,672.42	44.94	42.84	32.42	-2,879.49	428.55	1,018.60	951.69	66.90	15.225	
15,600.00	12,533.14	14,666.40	11,673.29	46.15	44.11	32.42	-2,979.48	429.42	1,018.59	950.53	68.07	14.964	
15,700.00	12,534.02	14,766.40	11,674.17	47.37	45.38	32.42	-3,079.48	430.28	1,018.59	949.34	69.25	14.708	
15,800.00	12,534.89	14,866.40	11,675.05	48.59	46.66	32.42	-3,179.47	431.14	1,018.59	948.13	70.46	14.457	
15,900.00	12,535.76	14,966.40	11,675.92	49.83	47.94	32.42	-3,279.46	432.00	1,018.59	946.91	71.68	14.210	
16,000.00	12,536.64	15,066.40	11,676.80	51.07	49.23	32.42	-3,379.45	432.86	1,018.59	945.67	72.92	13.969	
16,100.00	12,537.51	15,166.40	11,677.68	52.32	50.52	32.42	-3,479.45	433.72	1,018.58	944.41	74.17	13.732	
16,200.00	12,538.39	15,266.40	11,678.55	53.57	51.82	32.42	-3,579.44	434.58	1,018.58	943.14	75.44	13.501	
16,300.00	12,539.26	15,366.40	11,679.43	54.83	53.12	32.42	-3,679.43	435.44	1,018.58	941.85	76.73	13.275	
16,400.00	12,540.13	15,466.40	11,680.30	56.09	54.42	32.42	-3,779.42	436.30	1,018.58	940.55	78.03	13.054	
16,500.00	12,541.01	15,566.40	11,681.18	57.36	55.73	32.42	-3,879.41	437.16	1,018.57	939.23	79.34	12.838	
16,600.00	12,541.88	15,666.40	11,682.06	58.64	57.04	32.42	-3,979.41	438.03	1,018.57	937.91	80.67	12.627	
16,700.00	12,542.75	15,766.40	11,682.93	59.91	58.35	32.42	-4,079.40	438.89	1,018.57	936.57	82.00	12.421	
16,800.00	12,543.63	15,866.40	11,683.81	61.20	59.67	32.42	-4,179.39	439.75	1,018.57	935.22	83.35	12.220	
16,900.00	12,544.50	15,966.40	11,684.69	62.48	60.99	32.42	-4,279.38	440.61	1,018.57	933.85	84.71	12.024	
17,000.00	12,545.37	16,066.40	11,685.56	63.77	62.31	32.42	-4,379.38	441.47	1,018.56	932.48	86.08	11.833	
17,100.00	12,546.25	16,166.40	11,686.44	65.06	63.63	32.42	-4,479.37	442.33	1,018.56	931.10	87.46	11.646	
17,200.00	12,547.12	16,266.40	11,687.32	66.36	64.95	32.42	-4,579.36	443.19	1,018.56	929.71	88.85	11.464	
17,300.00	12,547.99	16,366.40	11,688.19	67.66	66.28	32.42	-4,679.35	444.05	1,018.56	928.31	90.25	11.286	
17,400.00	12,548.87	16,466.40	11,689.07	68.96	67.61	32.42	-4,779.35	444.91	1,018.55	926.90	91.65	11.113	
17,500.00	12,549.74	16,566.40	11,689.95	70.26	68.94	32.42	-4,879.34	445.77	1,018.55	925.48	93.07	10.944	
17,600.00	12,550.62	16,666.40	11,690.82	71.57	70.27	32.42	-4,979.33	446.64	1,018.55	924.06	94.49	10.779	
17,700.00	12,551.49	16,766.40	11,691.70	72.88	71.60	32.42	-5,079.32	447.50	1,018.55	922.63	95.92	10.619	
17,800.00	12,552.36	16,866.40	11,692.57	74.19	72.93	32.42	-5,179.32	448.36	1,018.54	921.19	97.36	10.462	
17,900.00	12,553.24	16,966.40	11,693.45	75.50	74.27	32.42	-5,279.31	449.22	1,018.54	919.74	98.80	10.309	
18,000.00	12,554.11	17,066.40	11,694.33	76.81	75.61	32.42	-5,379.30	450.08	1,018.54	918.29	100.25	10.160	
18,100.00	12,554.98	17,166.40	11,695.20	78.13	76.94	32.42	-5,479.29	450.94	1,018.54	916.83	101.71	10.014	
18,200.00	12,555.86	17,266.40	11,696.08	79.45	78.28	32.42	-5,579.29	451.80	1,018.54	915.36	103.17	9.872	
18,300.00	12,556.73	17,366.40	11,696.96	80.77	79.62	32.42	-5,679.28	452.66	1,018.53	913.89	104.64	9.734	
18,400.00	12,557.60	17,466.40	11,697.83	82.09	80.96	32.42	-5,779.27	453.52	1,018.53	912.41	106.12	9.598	
18,500.00	12,558.48	17,566.40	11,698.71	83.42	82.30	32.42	-5,879.26	454.38	1,018.53	910.93	107.60	9.466	
18,600.00	12,559.35	17,666.40	11,699.59	84.74	83.65	32.42	-5,979.26	455.24	1,018.53	909.45	109.08	9.337	
18,700.00	12,560.23	17,766.40	11,700.46	86.07	84.99	32.42	-6,079.25	456.11	1,018.52	907.95	110.57	9.212	
18,800.00	12,561.10	17,866.40	11,701.34	87.40	86.33	32.42	-6,179.24	456.97	1,018.52	906.46	112.06	9.089	
18,900.00	12,561.97	17,966.40	11,702.21	88.72	87.68	32.42	-6,279.23	457.83	1,018.52	904.96	113.56	8.969	
19,000.00	12,562.85	18,066.40	11,703.09	90.05	89.03	32.42	-6,379.23	458.69	1,018.52	903.45	115.06	8.852	
19,100.00	12,563.72	18,166.40	11,703.97	91.39	90.37	32.42	-6,479.22	459.55	1,018.51	901.94	116.57	8.737	
19,200.00	12,564.59	18,266.40	11,704.84	92.72	91.72	32.42	-6,579.21	460.41	1,018.51	900.43	118.08	8.625	
19,300.00	12,565.47	18,366.40	11,705.72	94.05	93.07	32.42	-6,679.20	461.27	1,018.51	898.91	119.60	8.516	
19,400.00	12,566.34	18,466.40	11,706.60	95.39	94.42	32.42	-6,779.20	462.13	1,018.51	897.39	121.12	8.409	
19,500.00	12,567.21	18,566.40	11,707.47	96.72	95.77	32.42	-6,879.19	462.99	1,018.51	895.87	122.64	8.305	
19,600.00	12,568.09	18,666.40	11,708.35	98.06	97.12	32.42	-6,979.18	463.85	1,018.50	894.34	124.16	8.203	
19,700.00	12,568.96	18,766.40	11,709.23	99.40	98.47	32.42	-7,079.17	464.72	1,018.50	892.81	125.69	8.103	
19,800.00	12,569.83	18,866.40	11,710.10	100.73	99.82	32.42	-7,179.17	465.58	1,018.50	891.28	127.22	8.006	
19,900.00	12,570.71	18,966.40	11,710.98	102.07	101.17	32.42	-7,279.16	466.44	1,018.50	889.74	128.76	7.910	
20,000.00	12,571.58	19,066.40	11,711.86	103.41	102.52	32.42	-7,379.15	467.30	1,018.49	888.20	130.30	7.817	
20,100.00	12,572.46	19,166.40	11,712.73	104.75	103.87	32.42	-7,479.14	468.16	1,018.49	886.65	131.84	7.725	
20,200.00	12,573.33	19,266.40	11,713.61	106.10	105.23	32.42	-7,579.14	469.02	1,018.49	885.11	133.38	7.636	
20,300.00	12,574.20	19,366.40	11,714.48	107.44	106.58	32.42	-7,679.13	469.88	1,018.49	883.56	134.93	7.548	
20,400.00	12,575.08	19,466.40	11,715.36	108.78	107.93	32.42	-7,779.12	470.74	1,018.49	882.01	136.48	7.463	
20,500.00	12,575.95	19,566.40	11,716.24	110.12	109.29	32.42	-7,879.11	471.60	1,018.48	880.46	138.03	7.379	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 152H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,576.82	19,666.40	11,717.11	111.47	110.64	32.42	-7,979.11	472.46	1,018.48	878.90	139.58	7.297	
20,700.00	12,577.70	19,766.40	11,717.99	112.81	112.00	32.42	-8,079.10	473.33	1,018.48	877.34	141.14	7.216	
20,800.00	12,578.57	19,866.40	11,718.87	114.16	113.35	32.42	-8,179.09	474.19	1,018.48	875.78	142.70	7.137	
20,900.00	12,579.44	19,966.40	11,719.74	115.51	114.71	32.42	-8,279.08	475.05	1,018.47	874.22	144.26	7.060	
21,000.00	12,580.32	20,066.40	11,720.62	116.85	116.06	32.42	-8,379.08	475.91	1,018.47	872.65	145.82	6.985	
21,100.00	12,581.19	20,166.40	11,721.50	118.20	117.42	32.42	-8,479.07	476.77	1,018.47	871.09	147.38	6.910	
21,200.00	12,582.06	20,266.40	11,722.37	119.55	118.78	32.42	-8,579.06	477.63	1,018.47	869.52	148.95	6.838	
21,300.00	12,582.94	20,366.40	11,723.25	120.89	120.13	32.42	-8,679.05	478.49	1,018.46	867.95	150.52	6.766	
21,400.00	12,583.81	20,466.40	11,724.13	122.24	121.49	32.42	-8,779.05	479.35	1,018.46	866.37	152.09	6.696	
21,500.00	12,584.69	20,566.40	11,725.00	123.59	122.85	32.42	-8,879.04	480.21	1,018.46	864.80	153.66	6.628	
21,600.00	12,585.56	20,666.40	11,725.88	124.94	124.20	32.42	-8,979.03	481.07	1,018.46	863.22	155.24	6.561	
21,700.00	12,586.43	20,766.40	11,726.75	126.29	125.56	32.42	-9,079.02	481.93	1,018.46	861.64	156.81	6.495	
21,800.00	12,587.31	20,866.40	11,727.63	127.64	126.92	32.42	-9,179.02	482.80	1,018.45	860.07	158.39	6.430	
21,900.00	12,588.18	20,966.40	11,728.51	128.99	128.28	32.42	-9,279.01	483.66	1,018.45	858.48	159.97	6.367	
22,000.00	12,589.05	21,066.40	11,729.38	130.34	129.64	32.42	-9,379.00	484.52	1,018.45	856.90	161.55	6.304	
22,100.00	12,589.93	21,166.40	11,730.26	131.70	131.00	32.42	-9,478.99	485.38	1,018.45	855.32	163.13	6.243	
22,200.00	12,590.80	21,266.40	11,731.14	133.05	132.36	32.42	-9,578.98	486.24	1,018.44	853.73	164.71	6.183	
22,300.00	12,591.67	21,366.40	11,732.01	134.40	133.72	32.42	-9,678.98	487.10	1,018.44	852.14	166.30	6.124	
22,400.00	12,592.55	21,466.40	11,732.89	135.75	135.08	32.42	-9,778.97	487.96	1,018.44	850.56	167.88	6.066	
22,500.00	12,593.42	21,566.40	11,733.77	137.11	136.44	32.42	-9,878.96	488.82	1,018.44	848.97	169.47	6.009	
22,600.00	12,594.30	21,666.40	11,734.64	138.46	137.80	32.42	-9,978.95	489.68	1,018.44	847.37	171.06	5.954	
22,700.00	12,595.17	21,766.40	11,735.52	139.81	139.16	32.42	-10,078.95	490.54	1,018.43	845.78	172.65	5.899	
22,800.00	12,596.04	21,866.40	11,736.39	141.17	140.52	32.42	-10,178.94	491.41	1,018.43	844.19	174.24	5.845	
22,866.92	12,596.63	21,933.32	11,736.98	142.07	141.43	32.42	-10,245.85	491.98	1,018.43	843.12	175.31	5.809	
22,875.30	12,596.70	21,935.47	11,737.00	142.19	141.45	32.42	-10,248.00	492.00	1,018.45	843.07	175.38	5.807	

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 156H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	0.00	0.50	0.50	70.29	831.00	2,319.00	2,463.40				
100.00	100.00	102.00	100.00	0.98	0.99	70.29	831.00	2,319.00	2,463.40	2,461.42	1.97	1,248.473	
200.00	200.00	202.00	200.00	1.56	1.57	70.29	831.00	2,319.00	2,463.40	2,460.27	3.13	786.888	
300.00	300.00	303.65	301.65	1.98	2.00	70.29	831.00	2,319.00	2,463.40	2,459.42	3.98	619.647	
400.00	400.00	486.22	484.15	2.33	2.72	70.36	826.88	2,317.09	2,461.65	2,456.68	4.97	495.058	
500.00	500.00	652.37	649.87	2.63	3.15	70.55	816.31	2,312.19	2,456.63	2,450.96	5.67	433.247	
600.00	600.00	751.98	749.11	2.91	3.35	70.70	808.43	2,308.54	2,450.54	2,444.39	6.15	398.776	
700.00	700.00	851.60	848.35	3.16	3.59	70.85	800.55	2,304.89	2,444.46	2,437.82	6.64	368.278	
800.00	800.00	951.22	947.59	3.40	3.82	70.99	792.68	2,301.24	2,438.40	2,431.30	7.11	343.167	
900.00	900.00	1,050.84	1,046.83	3.62	4.05	71.14	784.80	2,297.58	2,432.36	2,424.80	7.55	322.051	
1,000.00	1,000.00	1,150.46	1,146.07	3.76	4.27	-20.72	776.92	2,293.93	2,426.28	2,418.37	7.91	306.842	
1,100.00	1,099.98	1,250.00	1,245.23	4.00	4.44	-20.62	769.05	2,290.28	2,418.56	2,410.25	8.31	291.063	
1,200.00	1,199.88	1,423.21	1,417.39	4.24	4.82	-20.42	751.92	2,282.34	2,406.92	2,398.04	8.88	271.012	
1,300.00	1,299.63	1,595.61	1,587.72	4.46	5.26	-20.14	727.86	2,271.19	2,389.80	2,380.29	9.51	251.410	
1,400.00	1,399.25	1,745.31	1,734.55	4.60	5.60	-19.74	701.41	2,258.92	2,368.33	2,358.37	9.96	237.701	
1,500.00	1,498.87	1,842.05	1,829.18	4.78	5.79	-19.44	683.17	2,250.47	2,346.12	2,335.77	10.35	226.620	
1,600.00	1,598.49	1,938.79	1,923.81	4.96	5.99	-19.13	664.93	2,242.01	2,323.98	2,313.21	10.76	215.918	
1,700.00	1,698.11	2,035.53	2,018.44	5.14	6.20	-18.82	646.69	2,233.55	2,301.90	2,290.72	11.18	205.972	
1,800.00	1,797.73	2,132.27	2,113.06	5.32	6.41	-18.50	628.44	2,225.09	2,279.88	2,268.29	11.59	196.706	
1,900.00	1,897.34	2,229.01	2,207.69	5.49	6.61	-18.18	610.20	2,216.63	2,257.94	2,245.93	12.01	188.059	
2,000.00	1,996.96	2,325.75	2,302.32	5.67	6.82	-17.84	591.96	2,208.18	2,236.07	2,223.65	12.42	180.000	
2,100.00	2,096.58	2,422.49	2,396.94	5.85	7.06	-17.51	573.72	2,199.72	2,214.27	2,201.42	12.85	172.359	
2,200.00	2,196.20	2,519.23	2,491.57	6.04	7.33	-17.16	555.48	2,191.26	2,192.55	2,179.28	13.27	165.178	
2,300.00	2,295.72	2,615.67	2,585.91	6.23	7.60	-10.46	537.29	2,182.83	2,169.75	2,156.04	13.71	158.253	
2,400.00	2,394.97	2,711.43	2,679.57	6.43	7.86	-5.77	519.23	2,174.45	2,144.55	2,130.39	14.16	151.410	
2,500.00	2,493.89	2,806.44	2,772.50	6.64	8.13	-2.37	501.32	2,166.15	2,116.98	2,102.36	14.62	144.807	
2,600.00	2,592.40	2,900.63	2,864.64	6.85	8.40	0.28	483.55	2,157.91	2,087.08	2,072.00	15.07	138.446	
2,700.00	2,690.45	2,993.94	2,955.91	7.07	8.66	2.46	465.96	2,149.75	2,054.86	2,039.33	15.53	132.314	
2,800.00	2,787.96	3,086.31	3,046.27	7.28	8.93	4.33	448.54	2,141.68	2,020.39	2,004.40	15.98	126.398	
2,900.00	2,884.87	3,177.67	3,135.63	7.49	9.19	6.00	431.31	2,133.69	1,983.69	1,967.25	16.44	120.690	
3,000.00	2,981.46	3,268.52	3,224.50	7.68	9.45	6.56	414.18	2,125.75	1,946.01	1,929.14	16.86	115.402	
3,100.00	3,078.05	3,359.38	3,313.37	7.87	9.71	7.14	397.05	2,117.80	1,908.49	1,891.20	17.29	110.359	
3,200.00	3,174.64	3,450.23	3,402.23	8.06	9.97	7.74	379.92	2,109.86	1,871.17	1,853.44	17.73	105.546	
3,300.00	3,271.24	3,541.08	3,491.10	8.26	10.23	8.36	362.78	2,101.92	1,834.03	1,815.86	18.17	100.952	
3,400.00	3,367.83	3,631.93	3,579.97	8.51	10.48	9.01	345.65	2,093.97	1,797.09	1,778.50	18.60	96.622	
3,500.00	3,464.42	3,700.00	3,646.60	8.80	10.64	9.51	333.02	2,088.11	1,760.65	1,741.68	18.97	92.794	
3,600.00	3,561.01	3,782.81	3,727.95	9.09	10.87	10.09	319.00	2,081.61	1,725.28	1,705.88	19.40	88.929	
3,700.00	3,657.60	3,857.03	3,801.14	9.38	11.05	10.58	307.79	2,076.42	1,691.10	1,671.30	19.80	85.397	
3,800.00	3,754.20	3,932.28	3,875.57	9.68	11.22	11.05	297.76	2,071.77	1,658.08	1,637.88	20.20	82.090	
3,900.00	3,850.79	4,000.00	3,942.72	9.98	11.37	11.45	289.86	2,068.11	1,626.22	1,605.64	20.57	79.040	
4,000.00	3,947.38	4,085.69	4,027.91	10.28	11.54	11.91	281.42	2,064.19	1,595.42	1,574.45	20.96	76.111	
4,100.00	4,043.97	4,163.76	4,105.68	10.59	11.67	12.30	275.24	2,061.33	1,565.74	1,544.42	21.33	73.422	
4,200.00	4,140.56	4,242.68	4,184.41	10.90	11.79	12.64	270.46	2,059.11	1,537.16	1,515.48	21.68	70.909	
4,300.00	4,237.16	4,322.38	4,264.03	11.21	11.89	12.94	267.14	2,057.57	1,509.64	1,487.62	22.02	68.564	
4,400.00	4,333.75	4,400.00	4,341.63	11.52	11.98	13.19	265.34	2,056.74	1,483.18	1,460.83	22.34	66.384	
4,500.00	4,430.34	4,488.72	4,430.34	11.84	12.00	13.42	264.94	2,056.55	1,457.70	1,435.11	22.59	64.536	
4,600.00	4,526.93	4,585.31	4,526.93	12.16	12.04	13.66	264.94	2,056.55	1,432.49	1,409.65	22.84	62.723	
4,700.00	4,623.53	4,681.90	4,623.53	12.48	12.07	13.91	264.94	2,056.55	1,407.30	1,384.21	23.10	60.933	
4,800.00	4,720.12	4,778.49	4,720.12	12.80	12.11	14.16	264.94	2,056.55	1,382.14	1,358.79	23.36	59.179	
4,900.00	4,816.71	4,875.09	4,816.71	13.12	12.15	14.43	264.94	2,056.55	1,357.01	1,333.39	23.62	57.460	
5,000.00	4,913.30	4,971.68	4,913.30	13.45	12.19	14.71	264.94	2,056.55	1,331.91	1,308.03	23.88	55.776	
5,100.00	5,009.89	5,068.27	5,009.89	13.78	12.23	15.00	264.94	2,056.55	1,306.83	1,282.69	24.14	54.125	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 156H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,106.49	5,164.86	5,106.49	14.10	12.27	15.29	264.94	2,056.55	1,281.79	1,257.38	24.41	52.508	
5,300.00	5,203.08	5,261.45	5,203.08	14.43	12.31	15.60	264.94	2,056.55	1,256.78	1,232.10	24.68	50.923	
5,400.00	5,299.67	5,358.05	5,299.67	14.75	12.35	15.92	264.94	2,056.55	1,231.82	1,206.88	24.94	49.391	
5,500.00	5,396.65	5,455.02	5,396.65	15.07	12.39	16.13	264.94	2,056.55	1,208.32	1,183.09	25.22	47.907	
5,600.00	5,494.23	5,552.60	5,494.23	15.36	12.43	16.34	264.94	2,056.55	1,187.30	1,161.80	25.50	46.562	
5,700.00	5,592.35	5,650.72	5,592.35	15.62	12.47	16.52	264.94	2,056.55	1,168.77	1,143.00	25.77	45.353	
5,800.00	5,690.94	5,749.31	5,690.94	15.86	12.52	16.69	264.94	2,056.55	1,152.74	1,126.70	26.03	44.276	
5,900.00	5,789.93	5,848.31	5,789.93	16.07	12.56	16.83	264.94	2,056.55	1,139.20	1,112.91	26.29	43.329	
6,000.00	5,889.26	5,947.64	5,889.26	16.25	12.60	16.95	264.94	2,056.55	1,128.16	1,101.62	26.54	42.509	
6,100.00	5,988.86	6,047.24	5,988.86	16.41	12.65	17.05	264.94	2,056.55	1,119.62	1,092.84	26.78	41.813	
6,200.00	6,088.66	6,147.03	6,088.66	16.53	12.69	17.12	264.94	2,056.55	1,113.58	1,086.58	27.00	41.242	
6,300.00	6,188.59	6,246.96	6,188.59	16.64	12.74	17.16	264.94	2,056.55	1,110.04	1,082.83	27.21	40.796	
6,400.00	6,288.58	6,346.95	6,288.58	16.71	12.78	89.59	264.94	2,056.55	1,109.00	1,081.66	27.34	40.561	
6,500.00	6,388.58	6,446.95	6,388.58	16.76	12.83	89.59	264.94	2,056.55	1,109.00	1,081.55	27.45	40.407	
6,600.00	6,488.58	6,546.95	6,488.58	16.82	12.87	89.59	264.94	2,056.55	1,109.00	1,081.45	27.55	40.253	
6,700.00	6,588.58	6,646.95	6,588.58	16.88	12.92	89.59	264.94	2,056.55	1,109.00	1,081.34	27.66	40.100	
6,800.00	6,688.58	6,746.95	6,688.58	16.94	12.97	89.59	264.94	2,056.55	1,109.00	1,081.24	27.76	39.947	
6,900.00	6,788.58	6,846.95	6,788.58	17.00	13.02	89.59	264.94	2,056.55	1,109.00	1,081.13	27.87	39.794	
7,000.00	6,888.58	6,946.95	6,888.58	17.05	13.06	89.59	264.94	2,056.55	1,109.00	1,081.02	27.98	39.642	
7,100.00	6,988.58	7,046.95	6,988.58	17.11	13.11	89.59	264.94	2,056.55	1,109.00	1,080.92	28.08	39.490	
7,200.00	7,088.58	7,146.95	7,088.58	17.17	13.16	89.59	264.94	2,056.55	1,109.00	1,080.81	28.19	39.339	
7,300.00	7,188.58	7,246.95	7,188.58	17.23	13.21	89.59	264.94	2,056.55	1,109.00	1,080.70	28.30	39.188	
7,400.00	7,288.58	7,346.95	7,288.58	17.29	13.26	89.59	264.94	2,056.55	1,109.00	1,080.59	28.41	39.037	
7,500.00	7,388.58	7,446.95	7,388.58	17.35	13.31	89.59	264.94	2,056.55	1,109.00	1,080.48	28.52	38.887	
7,600.00	7,488.58	7,546.95	7,488.58	17.41	13.36	89.59	264.94	2,056.55	1,109.00	1,080.37	28.63	38.737	
7,700.00	7,588.58	7,646.95	7,588.58	17.47	13.41	89.59	264.94	2,056.55	1,109.00	1,080.26	28.74	38.588	
7,800.00	7,688.58	7,746.95	7,688.58	17.53	13.46	89.59	264.94	2,056.55	1,109.00	1,080.15	28.85	38.439	
7,900.00	7,788.58	7,846.95	7,788.58	17.59	13.51	89.59	264.94	2,056.55	1,109.00	1,080.04	28.96	38.291	
8,000.00	7,888.58	7,946.95	7,888.58	17.65	13.56	89.59	264.94	2,056.55	1,109.00	1,079.92	29.07	38.143	
8,100.00	7,988.58	8,046.95	7,988.58	17.71	13.61	89.59	264.94	2,056.55	1,109.00	1,079.81	29.19	37.996	
8,200.00	8,088.58	8,146.95	8,088.58	17.77	13.66	89.59	264.94	2,056.55	1,109.00	1,079.70	29.30	37.849	
8,300.00	8,188.58	8,246.95	8,188.58	17.83	13.71	89.59	264.94	2,056.55	1,109.00	1,079.58	29.41	37.703	
8,400.00	8,288.58	8,346.95	8,288.58	17.89	13.77	89.59	264.94	2,056.55	1,109.00	1,079.47	29.53	37.558	
8,500.00	8,388.58	8,446.95	8,388.58	17.95	13.82	89.59	264.94	2,056.55	1,109.00	1,079.36	29.64	37.412	
8,600.00	8,488.58	8,546.95	8,488.58	18.02	13.87	89.59	264.94	2,056.55	1,109.00	1,079.24	29.76	37.268	
8,700.00	8,588.58	8,646.95	8,588.58	18.08	13.93	89.59	264.94	2,056.55	1,109.00	1,079.12	29.87	37.124	
8,800.00	8,688.58	8,746.95	8,688.58	18.14	13.98	89.59	264.94	2,056.55	1,109.00	1,079.01	29.99	36.980	
8,900.00	8,788.58	8,846.95	8,788.58	18.20	14.03	89.59	264.94	2,056.55	1,109.00	1,078.89	30.11	36.837	
9,000.00	8,888.58	8,946.95	8,888.58	18.26	14.09	89.59	264.94	2,056.55	1,109.00	1,078.78	30.22	36.695	
9,100.00	8,988.58	9,046.95	8,988.58	18.32	14.14	89.59	264.94	2,056.55	1,109.00	1,078.66	30.34	36.553	
9,200.00	9,088.58	9,146.95	9,088.58	18.39	14.20	89.59	264.94	2,056.55	1,109.00	1,078.54	30.46	36.412	
9,300.00	9,188.58	9,246.95	9,188.58	18.45	14.25	89.59	264.94	2,056.55	1,109.00	1,078.42	30.58	36.271	
9,400.00	9,288.58	9,346.95	9,288.58	18.51	14.31	89.59	264.94	2,056.55	1,109.00	1,078.30	30.69	36.131	
9,500.00	9,388.58	9,446.95	9,388.58	18.57	14.36	89.59	264.94	2,056.55	1,109.00	1,078.19	30.81	35.992	
9,600.00	9,488.58	9,546.95	9,488.58	18.64	14.42	89.59	264.94	2,056.55	1,109.00	1,078.07	30.93	35.853	
9,700.00	9,588.58	9,646.95	9,588.58	18.70	14.47	89.59	264.94	2,056.55	1,109.00	1,077.95	31.05	35.715	
9,800.00	9,688.58	9,746.95	9,688.58	18.76	14.53	89.59	264.94	2,056.55	1,109.00	1,077.83	31.17	35.577	
9,900.00	9,788.58	9,846.95	9,788.58	18.83	14.59	89.59	264.94	2,056.55	1,109.00	1,077.71	31.29	35.440	
10,000.00	9,888.58	9,946.95	9,888.58	18.89	14.64	89.59	264.94	2,056.55	1,109.00	1,077.58	31.41	35.304	
10,100.00	9,988.58	10,046.95	9,988.58	18.95	14.70	89.59	264.94	2,056.55	1,109.00	1,077.46	31.53	35.168	
10,200.00	10,088.58	10,146.95	10,088.58	19.02	14.76	89.59	264.94	2,056.55	1,109.00	1,077.34	31.66	35.033	
10,300.00	10,188.58	10,246.95	10,188.58	19.08	14.81	89.59	264.94	2,056.55	1,109.00	1,077.22	31.78	34.898	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 156H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,400.00	10,288.58	10,346.95	10,288.58	19.15	14.87	89.59	264.94	2,056.55	1,109.00	1,077.10	31.90	34.764	
10,500.00	10,388.58	10,446.95	10,388.58	19.21	14.93	89.59	264.94	2,056.55	1,109.00	1,076.97	32.02	34.631	
10,600.00	10,488.58	10,546.95	10,488.58	19.27	14.99	89.59	264.94	2,056.55	1,109.00	1,076.85	32.15	34.498	
10,700.00	10,588.58	10,646.95	10,588.58	19.34	15.05	89.59	264.94	2,056.55	1,109.00	1,076.73	32.27	34.366	
10,800.00	10,688.58	10,746.95	10,688.58	19.40	15.11	89.59	264.94	2,056.55	1,109.00	1,076.60	32.39	34.235	
10,900.00	10,788.58	10,846.95	10,788.58	19.47	15.16	89.59	264.94	2,056.55	1,109.00	1,076.48	32.52	34.104	
11,000.00	10,888.58	10,946.95	10,888.58	19.53	15.22	89.59	264.94	2,056.55	1,109.00	1,076.36	32.64	33.974	
11,100.00	10,988.58	11,046.95	10,988.58	19.60	15.28	89.59	264.94	2,056.55	1,109.00	1,076.23	32.76	33.849	
11,102.18	10,990.76	11,049.13	10,990.76	19.60	15.28	89.59	264.94	2,056.55	1,109.00	1,076.23	32.77	33.846	CC
11,200.00	11,088.58	11,146.51	11,088.03	19.66	15.35	89.75	261.89	2,056.58	1,109.01	1,076.13	32.88	33.731	ES
11,300.00	11,188.58	11,242.44	11,182.18	19.73	15.54	90.67	244.09	2,056.74	1,109.25	1,076.16	33.09	33.523	
11,400.00	11,288.58	11,330.28	11,264.69	19.79	15.77	92.21	214.22	2,057.01	1,110.52	1,077.11	33.41	33.239	
11,500.00	11,388.58	11,407.50	11,332.73	19.86	16.03	94.08	177.82	2,057.34	1,113.99	1,080.17	33.82	32.938	
11,600.00	11,488.58	11,473.64	11,386.66	19.92	16.30	96.04	139.60	2,057.69	1,120.95	1,086.62	34.33	32.655	
11,700.00	11,588.58	11,529.50	11,428.54	19.99	16.57	97.92	102.66	2,058.03	1,132.49	1,097.57	34.93	32.424	
11,800.00	11,688.58	11,576.48	11,460.83	20.05	16.84	99.63	68.56	2,058.34	1,149.43	1,113.80	35.63	32.260	
11,900.00	11,788.58	11,616.04	11,485.78	20.12	17.08	101.16	37.87	2,058.61	1,172.23	1,135.80	36.43	32.175	
12,000.00	11,888.58	11,650.00	11,505.47	20.19	17.31	102.52	10.21	2,058.87	1,201.11	1,163.79	37.33	32.178	
12,100.00	11,988.51	11,678.99	11,520.95	20.25	17.52	-73.93	-14.30	2,059.09	1,235.48	1,197.22	38.26	32.294	
12,200.00	12,086.82	11,700.00	11,531.39	20.31	17.68	-69.50	-32.53	2,059.25	1,271.48	1,232.31	39.16	32.465	
12,300.00	12,180.57	11,750.00	11,553.49	20.35	18.08	-64.51	-77.36	2,059.66	1,306.66	1,266.54	40.12	32.567	
12,400.00	12,266.93	11,779.21	11,564.56	20.39	18.34	-60.70	-104.39	2,059.91	1,339.63	1,298.62	41.01	32.668	
12,500.00	12,343.26	11,815.61	11,576.40	20.44	18.66	-57.36	-138.80	2,060.22	1,369.05	1,327.18	41.87	32.697	
12,600.00	12,407.24	11,850.00	11,585.57	20.52	18.98	-54.73	-171.94	2,060.52	1,393.81	1,351.13	42.69	32.651	
12,700.00	12,456.94	11,900.00	11,595.31	20.67	19.46	-52.63	-220.96	2,060.97	1,413.13	1,369.62	43.51	32.478	
12,800.00	12,490.84	11,929.19	11,599.01	20.88	19.75	-51.41	-249.91	2,061.23	1,426.17	1,381.95	44.22	32.250	
12,900.00	12,507.91	11,967.79	11,601.62	21.18	20.14	-50.77	-288.41	2,061.58	1,432.74	1,387.83	44.91	31.904	
13,000.00	12,510.43	12,041.51	11,602.25	21.56	20.91	-50.69	-362.13	2,062.25	1,433.65	1,387.97	45.67	31.389	
13,100.00	12,511.30	12,141.51	11,602.78	22.01	21.98	-50.68	-462.12	2,063.16	1,433.91	1,387.29	46.61	30.761	
13,200.00	12,512.18	12,241.51	11,603.30	22.52	23.09	-50.67	-562.12	2,064.07	1,434.16	1,386.53	47.64	30.107	
13,300.00	12,513.05	12,341.51	11,603.83	23.10	24.22	-50.66	-662.11	2,064.98	1,434.42	1,385.69	48.73	29.435	
13,400.00	12,513.92	12,441.51	11,604.35	23.73	25.38	-50.65	-762.10	2,065.89	1,434.68	1,384.78	49.90	28.751	
13,500.00	12,514.80	12,541.51	11,604.88	24.41	26.56	-50.64	-862.10	2,066.79	1,434.94	1,383.80	51.13	28.063	
13,600.00	12,515.67	12,641.51	11,605.40	25.15	27.75	-50.64	-962.09	2,067.70	1,435.20	1,382.77	52.43	27.374	
13,700.00	12,516.55	12,741.51	11,605.93	25.93	28.96	-50.63	-1,062.08	2,068.61	1,435.45	1,381.67	53.78	26.691	
13,800.00	12,517.42	12,841.51	11,606.45	26.76	30.19	-50.62	-1,162.08	2,069.52	1,435.71	1,380.52	55.19	26.016	
13,900.00	12,518.29	12,941.51	11,606.98	27.63	31.42	-50.61	-1,262.07	2,070.43	1,435.97	1,379.33	56.64	25.352	
14,000.00	12,519.17	13,041.51	11,607.50	28.53	32.67	-50.60	-1,362.07	2,071.34	1,436.23	1,378.09	58.14	24.702	
14,100.00	12,520.04	13,141.51	11,608.03	29.47	33.92	-50.59	-1,462.06	2,072.25	1,436.49	1,376.80	59.68	24.069	
14,200.00	12,520.91	13,241.50	11,608.55	30.44	35.19	-50.58	-1,562.05	2,073.16	1,436.74	1,375.48	61.26	23.452	
14,300.00	12,521.79	13,341.50	11,609.08	31.44	36.46	-50.57	-1,662.05	2,074.07	1,437.00	1,374.12	62.88	22.853	
14,400.00	12,522.66	13,441.50	11,609.60	32.46	37.74	-50.56	-1,762.04	2,074.97	1,437.26	1,372.73	64.53	22.272	
14,500.00	12,523.53	13,541.50	11,610.13	33.51	39.02	-50.55	-1,862.04	2,075.88	1,437.52	1,371.31	66.21	21.710	
14,600.00	12,524.41	13,641.50	11,610.65	34.58	40.31	-50.54	-1,962.03	2,076.79	1,437.78	1,369.85	67.92	21.168	
14,700.00	12,525.28	13,741.50	11,611.18	35.67	41.60	-50.53	-2,062.02	2,077.70	1,438.04	1,368.38	69.66	20.644	
14,800.00	12,526.16	13,841.50	11,611.70	36.78	42.90	-50.52	-2,162.02	2,078.61	1,438.29	1,366.87	71.42	20.139	
14,900.00	12,527.03	13,941.50	11,612.23	37.90	44.21	-50.51	-2,262.01	2,079.52	1,438.55	1,365.35	73.20	19.652	
15,000.00	12,527.90	14,041.50	11,612.75	39.04	45.51	-50.50	-2,362.00	2,080.43	1,438.81	1,363.80	75.01	19.182	
15,100.00	12,528.78	14,141.50	11,613.28	40.20	46.83	-50.49	-2,462.00	2,081.34	1,439.07	1,362.24	76.83	18.730	
15,200.00	12,529.65	14,241.50	11,613.80	41.37	48.14	-50.48	-2,561.99	2,082.25	1,439.33	1,360.65	78.67	18.295	
15,300.00	12,530.52	14,341.50	11,614.33	42.55	49.46	-50.47	-2,661.99	2,083.15	1,439.59	1,359.05	80.53	17.876	
15,400.00	12,531.40	14,441.50	11,614.85	43.74	50.78	-50.46	-2,761.98	2,084.06	1,439.84	1,357.44	82.41	17.473	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 156H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,500.00	12,532.27	14,541.50	11,615.38	44.94	52.10	-50.45	-2,861.97	2,084.97	1,440.10	1,355.81	84.29	17.084	
15,600.00	12,533.14	14,641.50	11,615.90	46.15	53.42	-50.45	-2,961.97	2,085.88	1,440.36	1,354.16	86.20	16.710	
15,700.00	12,534.02	14,741.50	11,616.43	47.37	54.75	-50.44	-3,061.96	2,086.79	1,440.62	1,352.51	88.11	16.350	
15,800.00	12,534.89	14,841.49	11,616.95	48.59	56.08	-50.43	-3,161.96	2,087.70	1,440.88	1,350.84	90.04	16.003	
15,900.00	12,535.76	14,941.49	11,617.48	49.83	57.41	-50.42	-3,261.95	2,088.61	1,441.14	1,349.16	91.98	15.668	
16,000.00	12,536.64	15,041.49	11,618.00	51.07	58.74	-50.41	-3,361.94	2,089.52	1,441.40	1,347.47	93.93	15.346	
16,100.00	12,537.51	15,141.49	11,618.53	52.32	60.08	-50.40	-3,461.94	2,090.43	1,441.66	1,345.77	95.88	15.035	
16,200.00	12,538.39	15,241.49	11,619.05	53.57	61.41	-50.39	-3,561.93	2,091.34	1,441.92	1,344.06	97.85	14.736	
16,300.00	12,539.26	15,341.49	11,619.58	54.83	62.75	-50.38	-3,661.93	2,092.24	1,442.17	1,342.35	99.83	14.447	
16,400.00	12,540.13	15,441.49	11,620.10	56.09	64.09	-50.37	-3,761.92	2,093.15	1,442.43	1,340.62	101.81	14.168	
16,500.00	12,541.01	15,541.49	11,620.63	57.36	65.43	-50.36	-3,861.91	2,094.06	1,442.69	1,338.89	103.80	13.899	
16,600.00	12,541.88	15,641.49	11,621.15	58.64	66.77	-50.35	-3,961.91	2,094.97	1,442.95	1,337.15	105.80	13.639	
16,700.00	12,542.75	15,741.49	11,621.68	59.91	68.11	-50.34	-4,061.90	2,095.88	1,443.21	1,335.41	107.80	13.387	
16,800.00	12,543.63	15,841.49	11,622.20	61.20	69.45	-50.33	-4,161.89	2,096.79	1,443.47	1,333.66	109.81	13.145	
16,900.00	12,544.50	15,941.49	11,622.73	62.48	70.80	-50.32	-4,261.89	2,097.70	1,443.73	1,331.90	111.83	12.910	
17,000.00	12,545.37	16,041.49	11,623.25	63.77	72.14	-50.31	-4,361.88	2,098.61	1,443.99	1,330.14	113.85	12.683	
17,100.00	12,546.25	16,141.49	11,623.78	65.06	73.49	-50.30	-4,461.88	2,099.52	1,444.25	1,328.37	115.88	12.463	
17,200.00	12,547.12	16,241.49	11,624.30	66.36	74.84	-50.29	-4,561.87	2,100.42	1,444.51	1,326.59	117.91	12.251	
17,300.00	12,547.99	16,341.49	11,624.83	67.66	76.18	-50.28	-4,661.86	2,101.33	1,444.77	1,324.82	119.95	12.045	
17,400.00	12,548.87	16,441.48	11,625.35	68.96	77.53	-50.28	-4,761.86	2,102.24	1,445.03	1,323.04	121.99	11.845	
17,500.00	12,549.74	16,541.48	11,625.88	70.26	78.88	-50.27	-4,861.85	2,103.15	1,445.29	1,321.25	124.04	11.652	
17,600.00	12,550.62	16,641.48	11,626.40	71.57	80.23	-50.26	-4,961.85	2,104.06	1,445.54	1,319.46	126.08	11.465	
17,700.00	12,551.49	16,741.48	11,626.93	72.88	81.58	-50.25	-5,061.84	2,104.97	1,445.80	1,317.67	128.14	11.283	
17,800.00	12,552.36	16,841.48	11,627.45	74.19	82.93	-50.24	-5,161.83	2,105.88	1,446.06	1,315.87	130.19	11.107	
17,900.00	12,553.24	16,941.48	11,627.98	75.50	84.28	-50.23	-5,261.83	2,106.79	1,446.32	1,314.07	132.25	10.936	
18,000.00	12,554.11	17,041.48	11,628.50	76.81	85.64	-50.22	-5,361.82	2,107.70	1,446.58	1,312.27	134.32	10.770	
18,100.00	12,554.98	17,141.48	11,629.03	78.13	86.99	-50.21	-5,461.81	2,108.60	1,446.84	1,310.46	136.38	10.609	
18,200.00	12,555.86	17,241.48	11,629.55	79.45	88.34	-50.20	-5,561.81	2,109.51	1,447.10	1,308.65	138.45	10.452	
18,300.00	12,556.73	17,341.48	11,630.08	80.77	89.70	-50.19	-5,661.80	2,110.42	1,447.36	1,306.84	140.52	10.300	
18,400.00	12,557.60	17,441.48	11,630.61	82.09	91.05	-50.18	-5,761.80	2,111.33	1,447.62	1,305.03	142.59	10.152	
18,500.00	12,558.48	17,541.48	11,631.13	83.42	92.40	-50.17	-5,861.79	2,112.24	1,447.88	1,303.21	144.67	10.008	
18,600.00	12,559.35	17,641.48	11,631.66	84.74	93.76	-50.16	-5,961.78	2,113.15	1,448.14	1,301.40	146.75	9.868	
18,700.00	12,560.23	17,741.48	11,632.18	86.07	95.12	-50.15	-6,061.78	2,114.06	1,448.40	1,299.58	148.83	9.732	
18,800.00	12,561.10	17,841.48	11,632.71	87.40	96.47	-50.14	-6,161.77	2,114.97	1,448.66	1,297.75	150.91	9.600	
18,900.00	12,561.97	17,941.48	11,633.23	88.72	97.83	-50.13	-6,261.77	2,115.88	1,448.92	1,295.93	152.99	9.471	
19,000.00	12,562.85	18,041.47	11,633.76	90.05	99.18	-50.12	-6,361.76	2,116.78	1,449.18	1,294.10	155.08	9.345	
19,100.00	12,563.72	18,141.47	11,634.28	91.39	100.54	-50.12	-6,461.75	2,117.69	1,449.44	1,292.28	157.17	9.222	
19,200.00	12,564.59	18,241.47	11,634.81	92.72	101.90	-50.11	-6,561.75	2,118.60	1,449.70	1,290.45	159.26	9.103	
19,300.00	12,565.47	18,341.47	11,635.33	94.05	103.26	-50.10	-6,661.74	2,119.51	1,449.96	1,288.62	161.35	8.987	
19,400.00	12,566.34	18,441.47	11,635.86	95.39	104.61	-50.09	-6,761.74	2,120.42	1,450.22	1,286.78	163.44	8.873	
19,500.00	12,567.21	18,541.47	11,636.38	96.72	105.97	-50.08	-6,861.73	2,121.33	1,450.48	1,284.95	165.53	8.763	
19,600.00	12,568.09	18,641.47	11,636.91	98.06	107.33	-50.07	-6,961.72	2,122.24	1,450.74	1,283.12	167.63	8.655	
19,700.00	12,568.96	18,741.47	11,637.43	99.40	108.69	-50.06	-7,061.72	2,123.15	1,451.00	1,281.28	169.72	8.549	
19,800.00	12,569.83	18,841.47	11,637.96	100.73	110.05	-50.05	-7,161.71	2,124.06	1,451.26	1,279.44	171.82	8.446	
19,900.00	12,570.71	18,941.47	11,638.48	102.07	111.41	-50.04	-7,261.70	2,124.96	1,451.52	1,277.60	173.92	8.346	
20,000.00	12,571.58	19,041.47	11,639.01	103.41	112.77	-50.03	-7,361.70	2,125.87	1,451.78	1,275.77	176.02	8.248	
20,100.00	12,572.46	19,141.47	11,639.53	104.75	114.13	-50.02	-7,461.69	2,126.78	1,452.05	1,273.93	178.12	8.152	
20,200.00	12,573.33	19,241.47	11,640.06	106.10	115.49	-50.01	-7,561.69	2,127.69	1,452.31	1,272.08	180.22	8.058	
20,300.00	12,574.20	19,341.47	11,640.58	107.44	116.85	-50.00	-7,661.68	2,128.60	1,452.57	1,270.24	182.32	7.967	
20,400.00	12,575.08	19,441.47	11,641.11	108.78	118.21	-49.99	-7,761.67	2,129.51	1,452.83	1,268.40	184.43	7.877	
20,500.00	12,575.95	19,541.47	11,641.63	110.12	119.57	-49.98	-7,861.67	2,130.42	1,453.09	1,266.56	186.53	7.790	
20,600.00	12,576.82	19,641.47	11,642.16	111.47	120.93	-49.98	-7,961.66	2,131.33	1,453.35	1,264.71	188.64	7.704	

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

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 156H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,700.00	12,577.70	19,741.46	11,642.68	112.81	122.29	-49.97	-8,061.66	2,132.24	1,453.61	1,262.87	190.74	7.621	
20,800.00	12,578.57	19,841.46	11,643.21	114.16	123.65	-49.96	-8,161.65	2,133.14	1,453.87	1,261.02	192.85	7.539	
20,900.00	12,579.44	19,941.46	11,643.73	115.51	125.01	-49.95	-8,261.64	2,134.05	1,454.13	1,259.17	194.96	7.459	
21,000.00	12,580.32	20,041.46	11,644.26	116.85	126.38	-49.94	-8,361.64	2,134.96	1,454.39	1,257.33	197.06	7.380	
21,100.00	12,581.19	20,141.46	11,644.78	118.20	127.74	-49.93	-8,461.63	2,135.87	1,454.65	1,255.48	199.17	7.303	
21,200.00	12,582.06	20,241.46	11,645.31	119.55	129.10	-49.92	-8,561.63	2,136.78	1,454.91	1,253.63	201.28	7.228	
21,300.00	12,582.94	20,341.46	11,645.83	120.89	130.46	-49.91	-8,661.62	2,137.69	1,455.17	1,251.78	203.39	7.155	
21,400.00	12,583.81	20,441.46	11,646.36	122.24	131.82	-49.90	-8,761.61	2,138.60	1,455.43	1,249.93	205.50	7.082	
21,500.00	12,584.69	20,541.46	11,646.88	123.59	133.19	-49.89	-8,861.61	2,139.51	1,455.70	1,248.09	207.61	7.012	
21,600.00	12,585.56	20,641.46	11,647.41	124.94	134.55	-49.88	-8,961.60	2,140.42	1,455.96	1,246.24	209.72	6.942	
21,700.00	12,586.43	20,741.46	11,647.93	126.29	135.91	-49.87	-9,061.59	2,141.33	1,456.22	1,244.39	211.83	6.874	
21,800.00	12,587.31	20,841.46	11,648.46	127.64	137.27	-49.86	-9,161.59	2,142.23	1,456.48	1,242.54	213.94	6.808	
21,900.00	12,588.18	20,941.46	11,648.98	128.99	138.64	-49.85	-9,261.58	2,143.14	1,456.74	1,240.69	216.06	6.742	
22,000.00	12,589.05	21,041.46	11,649.51	130.34	140.00	-49.85	-9,361.58	2,144.05	1,457.00	1,238.83	218.17	6.678	
22,100.00	12,589.93	21,141.46	11,650.03	131.70	141.36	-49.84	-9,461.57	2,144.96	1,457.26	1,236.98	220.28	6.616	
22,200.00	12,590.80	21,241.46	11,650.56	133.05	142.73	-49.83	-9,561.56	2,145.87	1,457.52	1,235.13	222.39	6.554	
22,300.00	12,591.67	21,341.45	11,651.08	134.40	144.09	-49.82	-9,661.56	2,146.78	1,457.79	1,233.28	224.51	6.493	
22,400.00	12,592.55	21,441.45	11,651.61	135.75	145.45	-49.81	-9,761.55	2,147.69	1,458.05	1,231.43	226.62	6.434	
22,500.00	12,593.42	21,541.45	11,652.13	137.11	146.82	-49.80	-9,861.55	2,148.60	1,458.31	1,229.58	228.73	6.376	
22,600.00	12,594.30	21,641.45	11,652.66	138.46	148.18	-49.79	-9,961.54	2,149.51	1,458.57	1,227.72	230.85	6.318	
22,700.00	12,595.17	21,741.45	11,653.18	139.81	149.55	-49.78	-10,061.53	2,150.41	1,458.83	1,225.87	232.96	6.262	
22,800.00	12,596.04	21,841.45	11,653.71	141.17	150.91	-49.77	-10,161.53	2,151.32	1,459.09	1,224.02	235.07	6.207	
22,875.30	12,596.70	21,915.93	11,654.10	142.19	151.93	-49.76	-10,236.00	2,152.00	1,459.29	1,222.63	236.66	6.166	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 211H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.50	0.50	180.00	-210.00	0.00	210.00				
100.00	100.00	100.00	100.00	0.98	0.98	180.00	-210.00	0.00	210.00	208.04	1.96	107.024	
200.00	200.00	200.00	200.00	1.56	1.56	180.00	-210.00	0.00	210.00	206.88	3.12	67.259	
300.00	300.00	300.00	300.00	1.98	1.98	180.00	-210.00	0.00	210.00	206.04	3.96	52.999	
400.00	400.00	402.15	402.14	2.33	2.42	-179.66	-209.47	-1.26	209.49	204.81	4.68	44.805	
500.00	500.00	504.16	504.06	2.63	2.80	-178.61	-207.89	-5.03	207.99	202.69	5.30	39.278	
600.00	600.00	605.87	605.54	2.91	3.12	-176.85	-205.26	-11.29	205.65	199.80	5.84	35.199	
700.00	700.00	705.99	705.29	3.16	3.27	-174.56	-201.92	-19.24	202.90	196.67	6.23	32.544	
800.00	800.00	805.61	804.53	3.40	3.52	-172.19	-198.56	-27.24	200.47	193.75	6.72	29.841	
900.00	900.00	905.23	903.77	3.62	3.76	-169.76	-195.20	-35.25	198.39	191.21	7.18	27.646	
1,000.00	1,000.00	1,004.84	1,003.00	3.76	3.99	100.73	-191.84	-43.25	196.68	189.15	7.54	26.094	
1,100.00	1,099.98	1,104.29	1,102.08	4.00	4.22	103.76	-188.48	-51.25	195.77	187.83	7.95	24.635	
1,123.58	1,123.55	1,127.70	1,125.40	4.06	4.27	104.58	-187.69	-53.13	195.73	187.69	8.04	24.342	CC, ES
1,200.00	1,199.88	1,203.45	1,200.86	4.24	4.43	107.51	-185.13	-59.21	196.19	187.84	8.34	23.514	
1,300.00	1,299.63	1,302.18	1,299.19	4.46	4.56	111.96	-181.68	-67.44	198.42	189.78	8.65	22.952	
1,400.00	1,399.25	1,400.00	1,396.38	4.60	4.82	117.29	-177.41	-77.61	202.84	193.84	9.00	22.535	
1,500.00	1,498.87	1,496.57	1,492.02	4.78	5.08	122.95	-172.25	-89.90	209.55	200.14	9.41	22.262	
1,600.00	1,598.49	1,592.09	1,586.26	4.96	5.32	128.76	-166.22	-104.24	219.05	209.22	9.83	22.273	
1,700.00	1,698.11	1,686.37	1,678.87	5.14	5.56	134.53	-159.39	-120.53	231.76	221.49	10.27	22.577	
1,800.00	1,797.73	1,779.32	1,769.72	5.32	5.79	140.08	-151.78	-138.64	247.92	237.22	10.70	23.172	
1,900.00	1,897.34	1,872.96	1,860.82	5.49	5.97	145.32	-143.40	-158.60	267.44	256.35	11.09	24.108	
2,000.00	1,996.96	1,967.92	1,953.16	5.67	6.17	149.97	-134.81	-179.05	289.14	277.63	11.52	25.103	
2,100.00	2,096.58	2,062.88	2,045.49	5.85	6.37	153.97	-126.23	-199.49	312.49	300.54	11.94	26.164	
2,200.00	2,196.20	2,157.85	2,137.83	6.04	6.58	157.43	-117.64	-219.94	337.13	324.76	12.37	27.259	
2,300.00	2,295.72	2,252.53	2,229.90	6.23	6.79	166.72	-109.08	-240.32	363.96	351.17	12.79	28.451	
2,400.00	2,394.97	2,346.56	2,321.32	6.43	7.01	173.52	-100.58	-260.56	394.04	380.82	13.23	29.790	
2,500.00	2,493.89	2,439.87	2,412.06	6.64	7.25	178.60	-92.15	-280.65	427.13	413.47	13.66	31.273	
2,600.00	2,592.40	2,532.40	2,502.03	6.85	7.50	-177.46	-83.78	-300.57	463.01	448.93	14.09	32.872	
2,700.00	2,690.45	2,624.08	2,591.18	7.07	7.77	-174.34	-75.49	-320.31	501.52	487.01	14.50	34.579	
2,800.00	2,787.96	2,714.86	2,679.45	7.28	8.03	-171.82	-67.28	-339.85	542.51	527.58	14.92	36.360	
2,900.00	2,884.87	2,804.67	2,766.77	7.49	8.30	-169.78	-59.17	-359.19	585.87	570.53	15.33	38.209	
3,000.00	2,981.46	2,893.98	2,853.62	7.68	8.56	-169.11	-51.09	-378.41	630.39	614.67	15.72	40.103	
3,100.00	3,078.05	2,983.30	2,940.47	7.87	8.83	-168.53	-43.02	-397.64	674.97	658.86	16.11	41.905	
3,200.00	3,174.64	3,072.62	3,027.31	8.06	9.10	-168.02	-34.94	-416.87	719.60	703.10	16.50	43.618	
3,300.00	3,271.24	3,161.93	3,114.16	8.26	9.37	-167.58	-26.87	-436.10	764.27	747.38	16.89	45.248	
3,400.00	3,367.83	3,251.25	3,201.01	8.51	9.64	-167.18	-18.79	-455.33	808.97	791.69	17.29	46.799	
3,500.00	3,464.42	3,340.57	3,287.86	8.80	9.91	-166.82	-10.72	-474.56	853.70	836.02	17.68	48.276	
3,600.00	3,561.01	3,429.88	3,374.71	9.09	10.18	-166.50	-2.64	-493.78	898.46	880.38	18.08	49.684	
3,700.00	3,657.60	3,519.20	3,461.55	9.38	10.46	-166.20	5.43	-513.01	943.24	924.75	18.49	51.027	
3,800.00	3,754.20	3,608.52	3,548.40	9.68	10.73	-165.94	13.50	-532.24	988.03	969.14	18.89	52.307	
3,900.00	3,850.79	3,697.83	3,635.25	9.98	11.01	-165.70	21.58	-551.47	1,032.84	1,013.55	19.29	53.530	
4,000.00	3,947.38	3,787.15	3,722.10	10.28	11.28	-165.47	29.65	-570.70	1,077.66	1,057.96	19.70	54.697	
4,100.00	4,043.97	3,876.46	3,808.94	10.59	11.56	-165.27	37.73	-589.93	1,122.50	1,102.39	20.11	55.813	
4,200.00	4,140.56	3,965.78	3,895.79	10.90	11.83	-165.08	45.80	-609.16	1,167.35	1,146.82	20.52	56.880	
4,300.00	4,237.16	4,055.10	3,982.64	11.21	12.11	-164.90	53.88	-628.38	1,212.20	1,191.27	20.94	57.902	
4,400.00	4,333.75	4,144.41	4,069.49	11.52	12.39	-164.74	61.95	-647.61	1,257.07	1,235.72	21.35	58.880	
4,500.00	4,430.34	4,233.73	4,156.33	11.84	12.66	-164.59	70.03	-666.84	1,301.94	1,280.17	21.77	59.817	
4,600.00	4,526.93	4,323.05	4,243.18	12.16	12.94	-164.45	78.10	-686.07	1,346.82	1,324.63	22.18	60.715	
4,700.00	4,623.53	4,412.36	4,330.03	12.48	13.22	-164.32	86.18	-705.30	1,391.70	1,369.10	22.60	61.577	
4,800.00	4,720.12	4,501.68	4,416.88	12.80	13.50	-164.19	94.25	-724.53	1,436.59	1,413.57	23.02	62.404	
4,900.00	4,816.71	4,591.00	4,503.72	13.12	13.78	-164.08	102.32	-743.75	1,481.48	1,458.04	23.44	63.198	
5,000.00	4,913.30	4,680.31	4,590.57	13.45	14.06	-163.97	110.40	-762.98	1,526.38	1,502.52	23.86	63.961	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 211H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,009.89	4,769.63	4,677.42	13.78	14.34	-163.86	118.47	-782.21	1,571.29	1,547.00	24.29	64.694	
5,200.00	5,106.49	4,858.95	4,764.27	14.10	14.62	-163.77	126.55	-801.44	1,616.19	1,591.48	24.71	65.400	
5,300.00	5,203.08	4,948.26	4,851.11	14.43	14.90	-163.67	134.62	-820.67	1,661.11	1,635.97	25.14	66.078	
5,400.00	5,299.67	5,037.58	4,937.97	14.75	15.18	-163.61	142.70	-839.90	1,706.01	1,680.46	25.56	66.755	
5,500.00	5,396.65	5,127.54	5,025.43	15.07	15.46	-163.71	150.83	-859.26	1,749.61	1,723.61	25.99	67.309	
5,600.00	5,494.23	5,218.53	5,113.91	15.36	15.75	-163.78	159.06	-878.85	1,790.93	1,764.50	26.43	67.765	
5,700.00	5,592.35	5,310.51	5,203.35	15.62	16.04	-163.82	167.37	-898.65	1,829.97	1,803.10	26.86	68.125	
5,800.00	5,690.94	5,403.40	5,293.67	15.86	16.33	-163.83	175.77	-918.65	1,866.68	1,839.39	27.29	68.397	
5,900.00	5,789.93	5,497.14	5,384.82	16.07	16.62	-163.80	184.24	-938.83	1,901.06	1,873.34	27.72	68.586	
6,000.00	5,889.26	5,591.68	5,476.74	16.25	16.92	-163.75	192.79	-959.18	1,933.09	1,904.95	28.14	68.699	
6,100.00	5,988.86	5,686.93	5,569.37	16.41	17.22	-163.68	201.40	-979.69	1,962.74	1,934.19	28.55	68.747	
6,200.00	6,088.66	5,860.35	5,738.75	16.53	17.73	-163.43	215.78	-1,013.92	1,988.37	1,959.10	29.27	67.931	
6,300.00	6,188.59	6,048.83	5,924.54	16.64	18.19	-163.20	228.01	-1,043.06	2,007.25	1,977.28	29.97	66.982	
6,400.00	6,288.58	6,241.06	6,115.40	16.71	18.55	-90.58	236.82	-1,064.04	2,019.16	1,988.64	30.52	66.161	
6,500.00	6,388.58	6,435.39	6,309.25	16.76	18.80	-90.43	241.94	-1,076.22	2,025.41	1,994.46	30.96	65.426	
6,600.00	6,488.58	6,614.76	6,488.58	16.82	18.96	-90.39	243.28	-1,079.42	2,027.05	1,995.83	31.22	64.927	
6,700.00	6,588.58	6,714.76	6,588.58	16.88	19.01	-90.39	243.28	-1,079.42	2,027.05	1,995.71	31.33	64.691	
6,800.00	6,688.58	6,814.76	6,688.58	16.94	19.06	-90.39	243.28	-1,079.42	2,027.05	1,995.60	31.45	64.456	
6,900.00	6,788.58	6,914.76	6,788.58	17.00	19.12	-90.39	243.28	-1,079.42	2,027.05	1,995.48	31.56	64.222	
7,000.00	6,888.58	7,014.76	6,888.58	17.05	19.17	-90.39	243.28	-1,079.42	2,027.05	1,995.37	31.68	63.989	
7,100.00	6,988.58	7,114.76	6,988.58	17.11	19.23	-90.39	243.28	-1,079.42	2,027.05	1,995.25	31.79	63.757	
7,200.00	7,088.58	7,214.76	7,088.58	17.17	19.28	-90.39	243.28	-1,079.42	2,027.05	1,995.14	31.91	63.525	
7,300.00	7,188.58	7,314.76	7,188.58	17.23	19.34	-90.39	243.28	-1,079.42	2,027.05	1,995.02	32.03	63.295	
7,400.00	7,288.58	7,414.76	7,288.58	17.29	19.39	-90.39	243.28	-1,079.42	2,027.05	1,994.90	32.14	63.065	
7,500.00	7,388.58	7,514.76	7,388.58	17.35	19.45	-90.39	243.28	-1,079.42	2,027.05	1,994.79	32.26	62.836	
7,600.00	7,488.58	7,614.76	7,488.58	17.41	19.50	-90.39	243.28	-1,079.42	2,027.05	1,994.67	32.38	62.608	
7,700.00	7,588.58	7,714.76	7,588.58	17.47	19.56	-90.39	243.28	-1,079.42	2,027.05	1,994.55	32.49	62.381	
7,800.00	7,688.58	7,814.76	7,688.58	17.53	19.61	-90.39	243.28	-1,079.42	2,027.05	1,994.43	32.61	62.155	
7,900.00	7,788.58	7,914.76	7,788.58	17.59	19.67	-90.39	243.28	-1,079.42	2,027.05	1,994.32	32.73	61.929	
8,000.00	7,888.58	8,014.76	7,888.58	17.65	19.72	-90.39	243.28	-1,079.42	2,027.05	1,994.20	32.85	61.705	
8,100.00	7,988.58	8,114.76	7,988.58	17.71	19.78	-90.39	243.28	-1,079.42	2,027.05	1,994.08	32.97	61.482	
8,200.00	8,088.58	8,214.76	8,088.58	17.77	19.84	-90.39	243.28	-1,079.42	2,027.05	1,993.96	33.09	61.259	
8,300.00	8,188.58	8,314.76	8,188.58	17.83	19.89	-90.39	243.28	-1,079.42	2,027.05	1,993.84	33.21	61.038	
8,400.00	8,288.58	8,414.76	8,288.58	17.89	19.95	-90.39	243.28	-1,079.42	2,027.05	1,993.72	33.33	60.817	
8,500.00	8,388.58	8,514.76	8,388.58	17.95	20.01	-90.39	243.28	-1,079.42	2,027.05	1,993.60	33.45	60.597	
8,600.00	8,488.58	8,614.76	8,488.58	18.02	20.07	-90.39	243.28	-1,079.42	2,027.05	1,993.47	33.57	60.378	
8,700.00	8,588.58	8,714.76	8,588.58	18.08	20.12	-90.39	243.28	-1,079.42	2,027.05	1,993.35	33.69	60.160	
8,800.00	8,688.58	8,814.76	8,688.58	18.14	20.18	-90.39	243.28	-1,079.42	2,027.05	1,993.23	33.82	59.944	
8,900.00	8,788.58	8,914.76	8,788.58	18.20	20.24	-90.39	243.28	-1,079.42	2,027.05	1,993.11	33.94	59.728	
9,000.00	8,888.58	9,014.76	8,888.58	18.26	20.30	-90.39	243.28	-1,079.42	2,027.05	1,992.99	34.06	59.513	
9,100.00	8,988.58	9,114.76	8,988.58	18.32	20.35	-90.39	243.28	-1,079.42	2,027.05	1,992.86	34.18	59.299	
9,200.00	9,088.58	9,214.76	9,088.58	18.39	20.41	-90.39	243.28	-1,079.42	2,027.05	1,992.74	34.31	59.086	
9,300.00	9,188.58	9,314.76	9,188.58	18.45	20.47	-90.39	243.28	-1,079.42	2,027.05	1,992.62	34.43	58.873	
9,400.00	9,288.58	9,414.76	9,288.58	18.51	20.53	-90.39	243.28	-1,079.42	2,027.05	1,992.49	34.55	58.662	
9,500.00	9,388.58	9,514.76	9,388.58	18.57	20.59	-90.39	243.28	-1,079.42	2,027.05	1,992.37	34.68	58.452	
9,600.00	9,488.58	9,614.76	9,488.58	18.64	20.65	-90.39	243.28	-1,079.42	2,027.05	1,992.24	34.80	58.243	
9,700.00	9,588.58	9,714.76	9,588.58	18.70	20.71	-90.39	243.28	-1,079.42	2,027.05	1,992.12	34.93	58.035	
9,800.00	9,688.58	9,814.76	9,688.58	18.76	20.76	-90.39	243.28	-1,079.42	2,027.05	1,991.99	35.05	57.827	
9,900.00	9,788.58	9,914.76	9,788.58	18.83	20.82	-90.39	243.28	-1,079.42	2,027.05	1,991.87	35.18	57.621	
10,000.00	9,888.58	10,014.76	9,888.58	18.89	20.88	-90.39	243.28	-1,079.42	2,027.05	1,991.74	35.30	57.416	
10,100.00	9,988.58	10,114.76	9,988.58	18.95	20.94	-90.39	243.28	-1,079.42	2,027.05	1,991.62	35.43	57.211	
10,200.00	10,088.58	10,214.76	10,088.58	19.02	21.00	-90.39	243.28	-1,079.42	2,027.05	1,991.49	35.56	57.008	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 211H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,188.58	10,314.76	10,188.58	19.08	21.06	-90.39	243.28	-1,079.42	2,027.05	1,991.36	35.68	56.805	
10,400.00	10,288.58	10,414.76	10,288.58	19.15	21.12	-90.39	243.28	-1,079.42	2,027.05	1,991.24	35.81	56.604	
10,500.00	10,388.58	10,514.76	10,388.58	19.21	21.18	-90.39	243.28	-1,079.42	2,027.05	1,991.11	35.94	56.403	
10,600.00	10,488.58	10,614.76	10,488.58	19.27	21.24	-90.39	243.28	-1,079.42	2,027.05	1,990.98	36.07	56.204	
10,700.00	10,588.58	10,714.76	10,588.58	19.34	21.30	-90.39	243.28	-1,079.42	2,027.05	1,990.85	36.19	56.005	
10,800.00	10,688.58	10,814.76	10,688.58	19.40	21.36	-90.39	243.28	-1,079.42	2,027.05	1,990.72	36.32	55.808	
10,900.00	10,788.58	10,914.76	10,788.58	19.47	21.43	-90.39	243.28	-1,079.42	2,027.05	1,990.60	36.45	55.611	
11,000.00	10,888.58	11,014.76	10,888.58	19.53	21.49	-90.39	243.28	-1,079.42	2,027.05	1,990.47	36.58	55.415	
11,100.00	10,988.58	11,114.76	10,988.58	19.60	21.55	-90.39	243.28	-1,079.42	2,027.05	1,990.34	36.71	55.221	
11,200.00	11,088.58	11,214.76	11,088.58	19.66	21.61	-90.39	243.28	-1,079.42	2,027.05	1,990.21	36.84	55.027	
11,300.00	11,188.58	11,314.76	11,188.58	19.73	21.67	-90.39	243.28	-1,079.42	2,027.05	1,990.08	36.97	54.834	
11,400.00	11,288.58	11,414.76	11,288.58	19.79	21.73	-90.39	243.28	-1,079.42	2,027.05	1,989.95	37.10	54.642	
11,500.00	11,388.58	11,514.76	11,388.58	19.86	21.79	-90.39	243.28	-1,079.42	2,027.05	1,989.82	37.23	54.451	
11,600.00	11,488.58	11,614.76	11,488.58	19.92	21.85	-90.39	243.28	-1,079.42	2,027.05	1,989.69	37.36	54.261	
11,700.00	11,588.58	11,714.76	11,588.58	19.99	21.92	-90.39	243.28	-1,079.42	2,027.05	1,989.56	37.49	54.072	
11,800.00	11,688.58	11,814.76	11,688.58	20.05	21.98	-90.39	243.28	-1,079.42	2,027.05	1,989.43	37.62	53.884	
11,900.00	11,788.58	11,914.76	11,788.58	20.12	22.04	-90.39	243.28	-1,079.42	2,027.05	1,989.30	37.75	53.697	
12,000.00	11,888.58	12,014.76	11,888.58	20.19	22.10	-90.39	243.28	-1,079.42	2,027.05	1,989.17	37.88	53.515	
12,100.00	11,988.51	12,115.09	11,988.84	20.25	22.14	90.11	241.02	-1,079.40	2,027.05	1,989.15	37.90	53.482	
12,200.00	12,086.82	12,215.75	12,087.81	20.31	22.16	90.11	223.35	-1,079.25	2,027.05	1,989.29	37.76	53.680	
12,300.00	12,180.57	12,316.41	12,182.16	20.35	22.14	90.11	188.65	-1,078.95	2,027.05	1,989.52	37.53	54.018	
12,400.00	12,266.93	12,417.06	12,268.99	20.39	22.11	90.10	138.01	-1,078.51	2,027.05	1,989.81	37.23	54.442	
12,500.00	12,343.26	12,517.66	12,345.59	20.44	22.07	90.09	73.00	-1,077.95	2,027.05	1,990.11	36.94	54.875	
12,600.00	12,407.24	12,618.20	12,409.63	20.52	22.06	90.08	-4.34	-1,077.29	2,027.05	1,990.34	36.71	55.220	
12,700.00	12,456.94	12,718.67	12,459.16	20.67	22.10	90.07	-91.60	-1,076.54	2,027.05	1,990.45	36.60	55.381	
12,800.00	12,490.84	12,819.05	12,492.67	20.88	22.20	90.05	-186.08	-1,075.72	2,027.05	1,990.38	36.67	55.278	
12,831.79	12,498.13	12,850.93	12,499.80	20.97	22.26	90.05	-217.15	-1,075.46	2,027.05	1,990.30	36.74	55.169	
12,900.00	12,507.91	12,919.33	12,509.20	21.18	22.39	90.04	-284.85	-1,074.87	2,027.05	1,990.11	36.94	54.873	
13,000.00	12,510.43	13,019.41	12,511.46	21.56	22.65	90.03	-384.88	-1,074.01	2,027.05	1,989.63	37.42	54.170	
13,100.00	12,511.30	13,119.41	12,512.34	22.01	22.98	90.03	-484.87	-1,073.15	2,027.05	1,988.94	38.11	53.191	
13,200.00	12,512.18	13,219.41	12,513.21	22.52	23.37	90.03	-584.86	-1,072.29	2,027.05	1,988.07	38.98	52.006	
13,300.00	12,513.05	13,319.41	12,514.08	23.10	23.82	90.03	-684.86	-1,071.43	2,027.05	1,987.03	40.01	50.658	
13,400.00	12,513.92	13,419.41	12,514.95	23.73	24.32	90.03	-784.85	-1,070.57	2,027.05	1,985.84	41.21	49.192	
13,500.00	12,514.80	13,519.41	12,515.83	24.41	24.88	90.03	-884.84	-1,069.71	2,027.05	1,984.51	42.54	47.648	
13,600.00	12,515.67	13,619.41	12,516.70	25.15	25.48	90.03	-984.83	-1,068.85	2,027.05	1,983.04	44.01	46.062	
13,700.00	12,516.55	13,719.41	12,517.57	25.93	26.14	90.03	-1,084.83	-1,067.99	2,027.05	1,981.46	45.59	44.463	
13,800.00	12,517.42	13,819.41	12,518.45	26.76	26.84	90.03	-1,184.82	-1,067.13	2,027.05	1,979.77	47.28	42.875	
13,900.00	12,518.29	13,919.41	12,519.32	27.63	27.58	90.03	-1,284.81	-1,066.27	2,027.05	1,977.99	49.06	41.316	
14,000.00	12,519.17	14,019.41	12,520.19	28.53	28.37	90.03	-1,384.80	-1,065.41	2,027.05	1,976.12	50.93	39.801	
14,100.00	12,520.04	14,119.41	12,521.07	29.47	29.19	90.03	-1,484.80	-1,064.55	2,027.05	1,974.18	52.87	38.337	
14,200.00	12,520.91	14,219.41	12,521.94	30.44	30.05	90.03	-1,584.79	-1,063.69	2,027.05	1,972.17	54.89	36.932	
14,300.00	12,521.79	14,319.41	12,522.81	31.44	30.95	90.03	-1,684.78	-1,062.83	2,027.05	1,970.09	56.96	35.587	
14,400.00	12,522.66	14,419.41	12,523.68	32.46	31.88	90.03	-1,784.77	-1,061.96	2,027.05	1,967.97	59.09	34.306	
14,500.00	12,523.53	14,519.41	12,524.56	33.51	32.84	90.03	-1,884.77	-1,061.10	2,027.05	1,965.79	61.26	33.087	
14,600.00	12,524.41	14,619.41	12,525.43	34.58	33.82	90.03	-1,984.76	-1,060.24	2,027.06	1,963.57	63.48	31.930	
14,700.00	12,525.28	14,719.41	12,526.30	35.67	34.83	90.03	-2,084.75	-1,059.38	2,027.06	1,961.31	65.74	30.833	
14,800.00	12,526.16	14,819.41	12,527.18	36.78	35.87	90.03	-2,184.74	-1,058.52	2,027.06	1,959.02	68.04	29.793	
14,900.00	12,527.03	14,919.41	12,528.05	37.90	36.92	90.03	-2,284.74	-1,057.66	2,027.06	1,956.69	70.36	28.808	
15,000.00	12,527.90	15,019.41	12,528.92	39.04	38.00	90.03	-2,384.73	-1,056.80	2,027.06	1,954.34	72.72	27.875	
15,100.00	12,528.78	15,119.41	12,529.80	40.20	39.09	90.03	-2,484.72	-1,055.94	2,027.06	1,951.96	75.10	26.991	
15,200.00	12,529.65	15,219.41	12,530.67	41.37	40.20	90.03	-2,584.71	-1,055.08	2,027.06	1,949.55	77.51	26.153	
15,300.00	12,530.52	15,319.41	12,531.54	42.55	41.33	90.03	-2,684.71	-1,054.22	2,027.06	1,947.13	79.93	25.359	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 211H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	12,531.40	15,419.41	12,532.42	43.74	42.47	90.03	-2,784.70	-1,053.36	2,027.06	1,944.68	82.38	24.606	
15,500.00	12,532.27	15,519.41	12,533.29	44.94	43.62	90.03	-2,884.69	-1,052.50	2,027.06	1,942.22	84.84	23.891	
15,600.00	12,533.14	15,619.41	12,534.16	46.15	44.79	90.03	-2,984.68	-1,051.64	2,027.06	1,939.73	87.33	23.213	
15,700.00	12,534.02	15,719.41	12,535.03	47.37	45.97	90.03	-3,084.68	-1,050.78	2,027.06	1,937.24	89.82	22.568	
15,800.00	12,534.89	15,819.41	12,535.91	48.59	47.15	90.03	-3,184.67	-1,049.92	2,027.06	1,934.73	92.33	21.954	
15,900.00	12,535.76	15,919.41	12,536.78	49.83	48.35	90.03	-3,284.66	-1,049.05	2,027.06	1,932.21	94.85	21.370	
16,000.00	12,536.64	16,019.41	12,537.65	51.07	49.56	90.03	-3,384.65	-1,048.19	2,027.06	1,929.67	97.39	20.814	
16,100.00	12,537.51	16,119.41	12,538.53	52.32	50.77	90.03	-3,484.65	-1,047.33	2,027.06	1,927.13	99.93	20.284	
16,200.00	12,538.39	16,219.41	12,539.40	53.57	52.00	90.03	-3,584.64	-1,046.47	2,027.06	1,924.57	102.49	19.778	
16,300.00	12,539.26	16,319.41	12,540.27	54.83	53.22	90.03	-3,684.63	-1,045.61	2,027.06	1,922.01	105.05	19.296	
16,400.00	12,540.13	16,419.41	12,541.15	56.09	54.46	90.03	-3,784.62	-1,044.75	2,027.06	1,919.44	107.63	18.834	
16,500.00	12,541.01	16,519.41	12,542.02	57.36	55.70	90.03	-3,884.62	-1,043.89	2,027.06	1,916.86	110.21	18.393	
16,600.00	12,541.88	16,619.41	12,542.89	58.64	56.95	90.03	-3,984.61	-1,043.03	2,027.07	1,914.27	112.80	17.971	
16,700.00	12,542.75	16,719.41	12,543.76	59.91	58.21	90.03	-4,084.60	-1,042.17	2,027.07	1,911.67	115.39	17.567	
16,800.00	12,543.63	16,819.41	12,544.64	61.20	59.47	90.03	-4,184.59	-1,041.31	2,027.07	1,909.07	117.99	17.179	
16,900.00	12,544.50	16,919.41	12,545.51	62.48	60.73	90.03	-4,284.59	-1,040.45	2,027.07	1,906.46	120.60	16.808	
17,000.00	12,545.37	17,019.41	12,546.38	63.77	62.00	90.03	-4,384.58	-1,039.59	2,027.07	1,903.85	123.22	16.451	
17,100.00	12,546.25	17,119.41	12,547.26	65.06	63.27	90.03	-4,484.57	-1,038.73	2,027.07	1,901.23	125.84	16.109	
17,200.00	12,547.12	17,219.41	12,548.13	66.36	64.55	90.03	-4,584.56	-1,037.87	2,027.07	1,898.61	128.46	15.780	
17,300.00	12,547.99	17,319.41	12,549.00	67.66	65.83	90.03	-4,684.56	-1,037.01	2,027.07	1,895.98	131.09	15.463	
17,400.00	12,548.87	17,419.41	12,549.88	68.96	67.11	90.03	-4,784.55	-1,036.15	2,027.07	1,893.35	133.72	15.159	
17,500.00	12,549.74	17,519.41	12,550.75	70.26	68.40	90.03	-4,884.54	-1,035.28	2,027.07	1,890.71	136.36	14.865	
17,600.00	12,550.62	17,619.41	12,551.62	71.57	69.69	90.03	-4,984.53	-1,034.42	2,027.07	1,888.07	139.00	14.583	
17,700.00	12,551.49	17,719.41	12,552.50	72.88	70.99	90.03	-5,084.53	-1,033.56	2,027.07	1,885.42	141.65	14.311	
17,800.00	12,552.36	17,819.41	12,553.37	74.19	72.28	90.03	-5,184.52	-1,032.70	2,027.07	1,882.77	144.30	14.048	
17,900.00	12,553.24	17,919.41	12,554.24	75.50	73.58	90.03	-5,284.51	-1,031.84	2,027.07	1,880.12	146.95	13.794	
18,000.00	12,554.11	18,019.41	12,555.11	76.81	74.88	90.03	-5,384.50	-1,030.98	2,027.07	1,877.47	149.60	13.550	
18,100.00	12,554.98	18,119.41	12,555.99	78.13	76.19	90.03	-5,484.50	-1,030.12	2,027.07	1,874.81	152.26	13.313	
18,200.00	12,555.86	18,219.41	12,556.86	79.45	77.50	90.03	-5,584.49	-1,029.26	2,027.07	1,872.15	154.92	13.084	
18,300.00	12,556.73	18,319.41	12,557.73	80.77	78.80	90.03	-5,684.48	-1,028.40	2,027.07	1,869.49	157.59	12.863	
18,400.00	12,557.60	18,419.41	12,558.61	82.09	80.11	90.03	-5,784.47	-1,027.54	2,027.07	1,866.82	160.26	12.649	
18,500.00	12,558.48	18,519.41	12,559.48	83.42	81.43	90.03	-5,884.47	-1,026.68	2,027.08	1,864.15	162.92	12.442	
18,600.00	12,559.35	18,619.41	12,560.35	84.74	82.74	90.03	-5,984.46	-1,025.82	2,027.08	1,861.48	165.60	12.241	
18,700.00	12,560.23	18,719.41	12,561.23	86.07	84.06	90.03	-6,084.45	-1,024.96	2,027.08	1,858.81	168.27	12.047	
18,800.00	12,561.10	18,819.41	12,562.10	87.40	85.38	90.03	-6,184.44	-1,024.10	2,027.08	1,856.13	170.94	11.858	
18,900.00	12,561.97	18,919.41	12,562.97	88.72	86.70	90.03	-6,284.44	-1,023.24	2,027.08	1,853.46	173.62	11.675	
19,000.00	12,562.85	19,019.41	12,563.84	90.05	88.02	90.03	-6,384.43	-1,022.37	2,027.08	1,850.78	176.30	11.498	
19,100.00	12,563.72	19,119.41	12,564.72	91.39	89.34	90.03	-6,484.42	-1,021.51	2,027.08	1,848.10	178.98	11.326	
19,200.00	12,564.59	19,219.41	12,565.59	92.72	90.67	90.03	-6,584.41	-1,020.65	2,027.08	1,845.41	181.67	11.158	
19,300.00	12,565.47	19,319.41	12,566.46	94.05	91.99	90.03	-6,684.41	-1,019.79	2,027.08	1,842.73	184.35	10.996	
19,400.00	12,566.34	19,419.41	12,567.34	95.39	93.32	90.03	-6,784.40	-1,018.93	2,027.08	1,840.04	187.04	10.838	
19,500.00	12,567.21	19,519.41	12,568.21	96.72	94.65	90.03	-6,884.39	-1,018.07	2,027.08	1,837.36	189.72	10.684	
19,600.00	12,568.09	19,619.41	12,569.08	98.06	95.97	90.03	-6,984.38	-1,017.21	2,027.08	1,834.67	192.41	10.535	
19,700.00	12,568.96	19,719.41	12,569.96	99.40	97.31	90.03	-7,084.38	-1,016.35	2,027.08	1,831.98	195.10	10.390	
19,800.00	12,569.83	19,819.41	12,570.83	100.73	98.64	90.03	-7,184.37	-1,015.49	2,027.08	1,829.29	197.80	10.248	
19,900.00	12,570.71	19,919.41	12,571.70	102.07	99.97	90.03	-7,284.36	-1,014.63	2,027.08	1,826.59	200.49	10.111	
20,000.00	12,571.58	20,019.41	12,572.58	103.41	101.30	90.03	-7,384.35	-1,013.77	2,027.08	1,823.90	203.18	9.977	
20,100.00	12,572.46	20,119.41	12,573.45	104.75	102.64	90.03	-7,484.35	-1,012.91	2,027.08	1,821.20	205.88	9.846	
20,200.00	12,573.33	20,219.41	12,574.32	106.10	103.97	90.03	-7,584.34	-1,012.05	2,027.08	1,818.51	208.58	9.719	
20,300.00	12,574.20	20,319.41	12,575.19	107.44	105.31	90.03	-7,684.33	-1,011.19	2,027.08	1,815.81	211.27	9.595	
20,400.00	12,575.08	20,419.41	12,576.07	108.78	106.65	90.03	-7,784.32	-1,010.33	2,027.08	1,813.11	213.97	9.474	
20,500.00	12,575.95	20,519.41	12,576.94	110.12	107.98	90.03	-7,884.32	-1,009.46	2,027.09	1,810.41	216.67	9.355	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 211H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,576.82	20,619.41	12,577.81	111.47	109.32	90.03	-7,984.31	-1,008.60	2,027.09	1,807.71	219.38	9.240	
20,700.00	12,577.70	20,719.41	12,578.69	112.81	110.66	90.03	-8,084.30	-1,007.74	2,027.09	1,805.01	222.08	9.128	
20,800.00	12,578.57	20,819.41	12,579.56	114.16	112.00	90.03	-8,184.29	-1,006.88	2,027.09	1,802.31	224.78	9.018	
20,900.00	12,579.44	20,919.41	12,580.43	115.51	113.34	90.03	-8,284.29	-1,006.02	2,027.09	1,799.60	227.48	8.911	
21,000.00	12,580.32	21,019.41	12,581.31	116.85	114.69	90.03	-8,384.28	-1,005.16	2,027.09	1,796.90	230.19	8.806	
21,100.00	12,581.19	21,119.41	12,582.18	118.20	116.03	90.03	-8,484.27	-1,004.30	2,027.09	1,794.19	232.89	8.704	
21,200.00	12,582.06	21,219.41	12,583.05	119.55	117.37	90.03	-8,584.26	-1,003.44	2,027.09	1,791.49	235.60	8.604	
21,300.00	12,582.94	21,319.41	12,583.92	120.89	118.72	90.03	-8,684.26	-1,002.58	2,027.09	1,788.78	238.31	8.506	
21,400.00	12,583.81	21,419.41	12,584.80	122.24	120.06	90.03	-8,784.25	-1,001.72	2,027.09	1,786.07	241.01	8.411	
21,500.00	12,584.69	21,519.41	12,585.67	123.59	121.40	90.03	-8,884.24	-1,000.86	2,027.09	1,783.37	243.72	8.317	
21,600.00	12,585.56	21,619.41	12,586.54	124.94	122.75	90.03	-8,984.23	-1,000.00	2,027.09	1,780.66	246.43	8.226	
21,700.00	12,586.43	21,719.41	12,587.42	126.29	124.10	90.03	-9,084.23	-999.14	2,027.09	1,777.95	249.14	8.136	
21,800.00	12,587.31	21,819.41	12,588.29	127.64	125.44	90.03	-9,184.22	-998.28	2,027.09	1,775.24	251.85	8.049	
21,900.00	12,588.18	21,919.41	12,589.16	128.99	126.79	90.03	-9,284.21	-997.42	2,027.09	1,772.53	254.56	7.963	
22,000.00	12,589.05	22,019.41	12,590.04	130.34	128.14	90.03	-9,384.20	-996.56	2,027.09	1,769.82	257.28	7.879	
22,100.00	12,589.93	22,119.41	12,590.91	131.70	129.48	90.03	-9,484.20	-995.69	2,027.09	1,767.11	259.99	7.797	
22,200.00	12,590.80	22,219.41	12,591.78	133.05	130.83	90.03	-9,584.19	-994.83	2,027.09	1,764.39	262.70	7.716	
22,300.00	12,591.67	22,319.41	12,592.66	134.40	132.18	90.03	-9,684.18	-993.97	2,027.09	1,761.68	265.41	7.637	
22,400.00	12,592.55	22,419.41	12,593.53	135.75	133.53	90.03	-9,784.17	-993.11	2,027.09	1,758.97	268.13	7.560	
22,500.00	12,593.42	22,519.41	12,594.40	137.11	134.88	90.03	-9,884.17	-992.25	2,027.10	1,756.25	270.84	7.484	
22,600.00	12,594.30	22,619.41	12,595.27	138.46	136.23	90.03	-9,984.16	-991.39	2,027.10	1,753.54	273.56	7.410	
22,700.00	12,595.17	22,719.41	12,596.15	139.81	137.58	90.03	-10,084.15	-990.53	2,027.10	1,750.82	276.27	7.337	
22,800.00	12,596.04	22,819.41	12,597.02	141.17	138.93	90.03	-10,184.14	-989.67	2,027.10	1,748.11	278.99	7.266	
22,875.30	12,596.70	22,894.71	12,597.68	142.19	139.95	90.03	-10,259.44	-989.02	2,027.10	1,746.06	281.03	7.213	SF

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

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 212H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	1.00	0.50	0.50	180.00	-25.00	0.00	25.02				
100.00	100.00	99.00	100.00	0.98	0.97	180.00	-25.00	0.00	25.00	23.05	1.95	12.788	
200.00	200.00	199.00	200.00	1.56	1.56	180.00	-25.00	0.00	25.00	21.88	3.12	8.022	
300.00	300.00	299.00	300.00	1.98	1.98	180.00	-25.00	0.00	25.00	21.04	3.96	6.316	
400.00	400.00	399.00	400.00	2.33	2.33	180.00	-25.00	0.00	25.00	20.34	4.66	5.370	
500.00	500.00	499.00	500.00	2.63	2.63	180.00	-25.00	0.00	25.00	19.73	5.27	4.747	
600.00	600.00	599.00	600.00	2.91	2.91	180.00	-25.00	0.00	25.00	19.18	5.82	4.297	
700.00	700.00	699.00	700.00	3.16	3.16	180.00	-25.00	0.00	25.00	18.67	6.33	3.953	
800.00	800.00	799.00	800.00	3.40	3.40	180.00	-25.00	0.00	25.00	18.20	6.80	3.677	
900.00	900.00	899.00	900.00	3.62	3.62	180.00	-25.00	0.00	25.00	17.75	7.25	3.451	
1,000.00	1,000.00	999.00	1,000.00	3.76	3.83	88.12	-25.00	0.00	25.00	17.40	7.59	3.292	
1,061.64	1,061.64	1,060.64	1,061.64	3.91	3.96	90.00	-25.00	0.00	24.98	17.15	7.84	3.189	CC
1,100.00	1,099.98	1,098.98	1,099.98	4.00	4.04	92.32	-25.00	0.00	25.01	17.02	7.99	3.131	ES
1,200.00	1,199.88	1,198.88	1,199.88	4.24	4.23	102.31	-25.00	0.00	25.57	17.21	8.37	3.056	
1,300.00	1,299.63	1,298.63	1,299.63	4.46	4.42	116.54	-25.00	0.00	27.95	19.19	8.76	3.189	
1,400.00	1,399.25	1,398.25	1,399.25	4.60	4.60	130.23	-25.00	0.00	32.78	23.67	9.11	3.598	
1,500.00	1,498.87	1,497.87	1,498.87	4.78	4.77	140.04	-25.00	0.00	38.99	29.50	9.49	4.108	
1,600.00	1,598.49	1,597.49	1,598.49	4.96	4.94	147.02	-25.00	0.00	46.02	36.16	9.86	4.669	
1,700.00	1,698.11	1,697.11	1,698.11	5.14	5.11	152.10	-25.00	0.00	53.55	43.34	10.21	5.243	
1,800.00	1,797.73	1,796.73	1,797.73	5.32	5.27	155.90	-25.00	0.00	61.39	50.83	10.56	5.813	
1,900.00	1,897.34	1,896.34	1,897.34	5.49	5.43	158.84	-25.00	0.00	69.44	58.54	10.90	6.369	
2,000.00	1,996.96	1,995.96	1,996.96	5.67	5.58	161.16	-25.00	0.00	77.64	66.40	11.24	6.907	
2,100.00	2,096.58	2,095.58	2,096.58	5.85	5.74	163.04	-25.00	0.00	85.94	74.36	11.57	7.425	
2,200.00	2,196.20	2,195.20	2,196.20	6.04	5.89	164.58	-25.00	0.00	94.31	82.40	11.91	7.918	
2,300.00	2,295.72	2,296.79	2,297.78	6.23	6.06	172.45	-24.07	0.80	102.96	90.68	12.27	8.389	
2,400.00	2,394.97	2,398.56	2,399.47	6.43	6.24	178.52	-21.08	3.35	112.11	99.47	12.64	8.868	
2,500.00	2,493.89	2,500.38	2,501.07	6.64	6.42	-176.54	-16.02	7.66	121.83	108.83	13.01	9.366	
2,600.00	2,592.40	2,602.24	2,602.50	6.85	6.59	-172.30	-8.90	13.74	132.18	118.81	13.37	9.888	
2,700.00	2,690.45	2,704.13	2,703.66	7.07	6.77	-168.50	0.27	21.56	143.21	129.48	13.72	10.437	
2,800.00	2,787.96	2,804.02	2,802.60	7.28	6.86	-165.25	10.76	30.51	155.41	141.40	14.02	11.089	
2,900.00	2,884.87	2,902.88	2,900.50	7.49	7.01	-162.90	21.22	39.44	170.02	155.65	14.37	11.834	
3,000.00	2,981.46	3,001.59	2,998.25	7.68	7.15	-162.02	31.67	48.36	185.81	171.11	14.70	12.638	
3,100.00	3,078.05	3,100.30	3,096.00	7.87	7.30	-161.28	42.12	57.27	201.64	186.60	15.04	13.403	
3,200.00	3,174.64	3,199.01	3,193.75	8.06	7.45	-160.65	52.56	66.19	217.50	202.11	15.39	14.132	
3,300.00	3,271.24	3,297.72	3,291.50	8.26	7.61	-160.10	63.01	75.10	233.37	217.63	15.74	14.825	
3,400.00	3,367.83	3,396.43	3,389.24	8.51	7.76	-159.62	73.46	84.02	249.27	233.17	16.10	15.485	
3,500.00	3,464.42	3,495.13	3,486.99	8.80	7.92	-159.20	83.90	92.93	265.18	248.72	16.46	16.112	
3,600.00	3,561.01	3,593.84	3,584.74	9.09	8.08	-158.83	94.35	101.85	281.11	264.28	16.82	16.709	
3,700.00	3,657.60	3,692.55	3,682.49	9.38	8.24	-158.49	104.80	110.76	297.04	279.85	17.19	17.278	
3,800.00	3,754.20	3,791.26	3,780.24	9.68	8.40	-158.19	115.24	119.68	312.98	295.42	17.56	17.819	
3,900.00	3,850.79	3,889.97	3,877.99	9.98	8.57	-157.92	125.69	128.59	328.93	310.99	17.94	18.335	
4,000.00	3,947.38	3,988.68	3,975.73	10.28	8.73	-157.68	136.14	137.51	344.89	326.57	18.32	18.827	
4,100.00	4,043.97	4,087.38	4,073.48	10.59	8.90	-157.46	146.58	146.43	360.85	342.15	18.70	19.296	
4,200.00	4,140.56	4,186.09	4,171.23	10.90	9.06	-157.25	157.03	155.34	376.82	357.73	19.09	19.743	
4,300.00	4,237.16	4,284.80	4,268.98	11.21	9.23	-157.06	167.48	164.26	392.79	373.32	19.47	20.170	
4,400.00	4,333.75	4,383.51	4,366.73	11.52	9.40	-156.89	177.93	173.17	408.77	388.90	19.86	20.578	
4,500.00	4,430.34	4,482.22	4,464.48	11.84	9.57	-156.73	188.37	182.09	424.75	404.49	20.26	20.968	
4,600.00	4,526.93	4,580.93	4,562.22	12.16	9.74	-156.58	198.82	191.00	440.73	420.08	20.65	21.341	
4,700.00	4,623.53	4,679.63	4,659.97	12.48	9.91	-156.44	209.27	199.92	456.71	435.67	21.05	21.698	
4,800.00	4,720.12	4,778.34	4,757.72	12.80	10.09	-156.31	219.71	208.83	472.70	451.25	21.45	22.040	
4,900.00	4,816.71	4,873.07	4,851.58	13.12	10.24	-156.24	229.45	217.14	488.93	467.11	21.82	22.412	
5,000.00	4,913.30	4,964.71	4,942.63	13.45	10.40	-156.36	237.33	223.86	506.40	484.21	22.18	22.828	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 212H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,009.89	5,055.80	5,033.36	13.78	10.57	-156.67	243.51	229.14	525.22	502.68	22.54	23.300	
5,200.00	5,106.49	5,146.27	5,123.62	14.10	10.73	-157.15	248.03	232.99	545.42	522.54	22.88	23.834	
5,300.00	5,203.08	5,236.00	5,213.28	14.43	10.88	-157.77	250.90	235.44	567.02	543.81	23.21	24.430	
5,400.00	5,299.67	5,324.92	5,302.18	14.75	11.00	-158.52	252.16	236.52	590.06	566.56	23.50	25.113	
5,500.00	5,396.65	5,419.39	5,396.65	15.07	11.07	-159.44	252.23	236.58	612.86	589.08	23.78	25.777	
5,600.00	5,494.23	5,516.97	5,494.23	15.36	11.16	-160.24	252.23	236.58	633.43	609.34	24.09	26.297	
5,700.00	5,592.35	5,615.09	5,592.35	15.62	11.25	-160.90	252.23	236.58	651.66	627.26	24.39	26.713	
5,800.00	5,690.94	5,713.68	5,690.94	15.86	11.35	-161.45	252.23	236.58	667.50	642.80	24.70	27.028	
5,900.00	5,789.93	5,812.68	5,789.93	16.07	11.44	-161.89	252.23	236.58	680.92	655.93	24.99	27.245	
6,000.00	5,889.26	5,912.01	5,889.26	16.25	11.53	-162.24	252.23	236.58	691.90	666.62	25.28	27.369	
6,100.00	5,988.86	6,011.60	5,988.86	16.41	11.63	-162.50	252.23	236.58	700.41	674.85	25.56	27.403	
6,200.00	6,088.66	6,111.40	6,088.66	16.53	11.72	-162.68	252.23	236.58	706.44	680.61	25.83	27.351	
6,300.00	6,188.59	6,211.33	6,188.59	16.64	11.81	-162.78	252.23	236.58	709.97	683.89	26.08	27.221	
6,400.00	6,288.58	6,311.32	6,288.58	16.71	11.90	-90.39	252.23	236.58	711.02	684.76	26.26	27.075	
6,500.00	6,388.58	6,411.32	6,388.58	16.76	12.00	-90.39	252.23	236.58	711.02	684.60	26.41	26.920	
6,600.00	6,488.58	6,511.32	6,488.58	16.82	12.09	-90.39	252.23	236.58	711.02	684.45	26.56	26.767	
6,700.00	6,588.58	6,611.32	6,588.58	16.88	12.18	-90.39	252.23	236.58	711.02	684.30	26.71	26.616	
6,800.00	6,688.58	6,711.32	6,688.58	16.94	12.27	-90.39	252.23	236.58	711.02	684.15	26.87	26.466	
6,900.00	6,788.58	6,811.32	6,788.58	17.00	12.37	-90.39	252.23	236.58	711.02	684.00	27.02	26.318	
7,000.00	6,888.58	6,911.32	6,888.58	17.05	12.46	-90.39	252.23	236.58	711.02	683.85	27.17	26.171	
7,100.00	6,988.58	7,011.32	6,988.58	17.11	12.55	-90.39	252.23	236.58	711.02	683.70	27.32	26.026	
7,200.00	7,088.58	7,111.32	7,088.58	17.17	12.64	-90.39	252.23	236.58	711.02	683.55	27.47	25.883	
7,300.00	7,188.58	7,211.32	7,188.58	17.23	12.73	-90.39	252.23	236.58	711.02	683.39	27.62	25.741	
7,400.00	7,288.58	7,311.32	7,288.58	17.29	12.82	-90.39	252.23	236.58	711.02	683.24	27.77	25.600	
7,500.00	7,388.58	7,411.32	7,388.58	17.35	12.91	-90.39	252.23	236.58	711.02	683.09	27.93	25.461	
7,600.00	7,488.58	7,511.32	7,488.58	17.41	13.01	-90.39	252.23	236.58	711.02	682.94	28.08	25.324	
7,700.00	7,588.58	7,611.32	7,588.58	17.47	13.10	-90.39	252.23	236.58	711.02	682.79	28.23	25.188	
7,800.00	7,688.58	7,711.32	7,688.58	17.53	13.19	-90.39	252.23	236.58	711.02	682.64	28.38	25.053	
7,900.00	7,788.58	7,811.32	7,788.58	17.59	13.28	-90.39	252.23	236.58	711.02	682.48	28.53	24.919	
8,000.00	7,888.58	7,911.32	7,888.58	17.65	13.37	-90.39	252.23	236.58	711.02	682.33	28.68	24.787	
8,100.00	7,988.58	8,011.32	7,988.58	17.71	13.46	-90.39	252.23	236.58	711.02	682.18	28.84	24.657	
8,200.00	8,088.58	8,111.32	8,088.58	17.77	13.55	-90.39	252.23	236.58	711.02	682.03	28.99	24.527	
8,300.00	8,188.58	8,211.32	8,188.58	17.83	13.64	-90.39	252.23	236.58	711.02	681.88	29.14	24.399	
8,400.00	8,288.58	8,311.32	8,288.58	17.89	13.73	-90.39	252.23	236.58	711.02	681.72	29.29	24.272	
8,500.00	8,388.58	8,411.32	8,388.58	17.95	13.82	-90.39	252.23	236.58	711.02	681.57	29.45	24.147	
8,600.00	8,488.58	8,511.32	8,488.58	18.02	13.91	-90.39	252.23	236.58	711.02	681.42	29.60	24.023	
8,700.00	8,588.58	8,611.32	8,588.58	18.08	14.00	-90.39	252.23	236.58	711.02	681.27	29.75	23.899	
8,800.00	8,688.58	8,711.32	8,688.58	18.14	14.09	-90.39	252.23	236.58	711.02	681.11	29.90	23.778	
8,900.00	8,788.58	8,811.32	8,788.58	18.20	14.18	-90.39	252.23	236.58	711.02	680.96	30.06	23.657	
9,000.00	8,888.58	8,911.32	8,888.58	18.26	14.27	-90.39	252.23	236.58	711.02	680.81	30.21	23.537	
9,100.00	8,988.58	9,011.32	8,988.58	18.32	14.36	-90.39	252.23	236.58	711.02	680.66	30.36	23.419	
9,200.00	9,088.58	9,111.32	9,088.58	18.39	14.45	-90.39	252.23	236.58	711.02	680.50	30.51	23.302	
9,300.00	9,188.58	9,211.32	9,188.58	18.45	14.54	-90.39	252.23	236.58	711.02	680.35	30.67	23.186	
9,400.00	9,288.58	9,311.32	9,288.58	18.51	14.63	-90.39	252.23	236.58	711.02	680.20	30.82	23.070	
9,500.00	9,388.58	9,411.32	9,388.58	18.57	14.72	-90.39	252.23	236.58	711.02	680.04	30.97	22.957	
9,600.00	9,488.58	9,511.32	9,488.58	18.64	14.81	-90.39	252.23	236.58	711.02	679.89	31.13	22.844	
9,700.00	9,588.58	9,611.32	9,588.58	18.70	14.90	-90.39	252.23	236.58	711.02	679.74	31.28	22.732	
9,800.00	9,688.58	9,711.32	9,688.58	18.76	14.98	-90.39	252.23	236.58	711.02	679.58	31.43	22.621	
9,900.00	9,788.58	9,811.32	9,788.58	18.83	15.07	-90.39	252.23	236.58	711.02	679.43	31.58	22.511	
10,000.00	9,888.58	9,911.32	9,888.58	18.89	15.16	-90.39	252.23	236.58	711.02	679.28	31.74	22.403	
10,100.00	9,988.58	10,011.32	9,988.58	18.95	15.25	-90.39	252.23	236.58	711.02	679.12	31.89	22.295	
10,200.00	10,088.58	10,111.32	10,088.58	19.02	15.34	-90.39	252.23	236.58	711.02	678.97	32.05	22.188	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 212H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,188.58	10,211.32	10,188.58	19.08	15.43	-90.39	252.23	236.58	711.02	678.82	32.20	22.082	
10,400.00	10,288.58	10,311.32	10,288.58	19.15	15.52	-90.39	252.23	236.58	711.02	678.66	32.35	21.977	
10,500.00	10,388.58	10,411.32	10,388.58	19.21	15.60	-90.39	252.23	236.58	711.02	678.51	32.51	21.873	
10,600.00	10,488.58	10,511.32	10,488.58	19.27	15.69	-90.39	252.23	236.58	711.02	678.36	32.66	21.771	
10,700.00	10,588.58	10,611.32	10,588.58	19.34	15.78	-90.39	252.23	236.58	711.02	678.20	32.81	21.669	
10,800.00	10,688.58	10,711.32	10,688.58	19.40	15.87	-90.39	252.23	236.58	711.02	678.05	32.97	21.567	
10,900.00	10,788.58	10,811.32	10,788.58	19.47	15.96	-90.39	252.23	236.58	711.02	677.90	33.12	21.467	
11,000.00	10,888.58	10,911.32	10,888.58	19.53	16.05	-90.39	252.23	236.58	711.02	677.74	33.28	21.368	
11,100.00	10,988.58	11,011.32	10,988.58	19.60	16.13	-90.39	252.23	236.58	711.02	677.59	33.43	21.269	
11,200.00	11,088.58	11,111.32	11,088.58	19.66	16.22	-90.39	252.23	236.58	711.02	677.43	33.58	21.172	
11,300.00	11,188.58	11,211.32	11,188.58	19.73	16.31	-90.39	252.23	236.58	711.02	677.28	33.74	21.075	
11,400.00	11,288.58	11,311.32	11,288.58	19.79	16.40	-90.39	252.23	236.58	711.02	677.12	33.89	20.979	
11,500.00	11,388.58	11,411.32	11,388.58	19.86	16.49	-90.39	252.23	236.58	711.02	676.97	34.05	20.884	
11,600.00	11,488.58	11,511.32	11,488.58	19.92	16.57	-90.39	252.23	236.58	711.02	676.82	34.20	20.790	
11,700.00	11,588.58	11,611.32	11,588.58	19.99	16.66	-90.39	252.23	236.58	711.02	676.66	34.35	20.696	
11,800.00	11,688.58	11,711.32	11,688.58	20.05	16.75	-90.39	252.23	236.58	711.02	676.51	34.51	20.604	
11,900.00	11,788.58	11,811.32	11,788.58	20.12	16.84	-90.39	252.23	236.58	711.02	676.35	34.66	20.512	
12,000.00	11,888.58	11,911.32	11,888.58	20.19	16.92	-90.39	252.23	236.58	711.02	676.20	34.82	20.422	
12,100.00	11,988.51	12,011.44	11,988.65	20.25	16.97	90.15	250.49	236.60	711.02	676.16	34.86	20.398	
12,200.00	12,086.82	12,111.87	12,087.58	20.31	17.02	90.24	233.95	236.74	711.02	676.30	34.72	20.476	
12,300.00	12,180.57	12,212.49	12,182.28	20.35	17.07	90.33	200.33	237.03	711.03	676.52	34.51	20.602	
12,400.00	12,266.93	12,313.29	12,269.80	20.39	17.12	90.41	150.59	237.46	711.03	676.77	34.26	20.754	
12,500.00	12,343.26	12,414.25	12,347.38	20.44	17.17	90.47	86.18	238.01	711.04	677.01	34.03	20.895	
12,600.00	12,407.24	12,515.34	12,412.53	20.52	17.23	90.52	9.06	238.67	711.05	677.16	33.89	20.983	
12,700.00	12,456.94	12,616.52	12,463.18	20.67	17.30	90.56	-78.37	239.43	711.05	677.15	33.90	20.974	
12,800.00	12,490.84	12,717.76	12,497.70	20.88	17.39	90.57	-173.40	240.24	711.05	676.93	34.12	20.839	
12,900.00	12,507.91	12,819.02	12,514.97	21.18	17.52	90.57	-273.04	241.10	711.05	676.48	34.57	20.566	
12,995.22	12,512.52	12,914.71	12,517.40	21.54	17.70	90.39	-368.67	241.93	711.03	675.83	35.20	20.197	
13,000.00	12,510.43	12,919.54	12,517.44	21.56	17.71	90.56	-373.50	241.97	711.05	675.81	35.25	20.174	
13,100.00	12,511.30	13,019.54	12,518.31	22.01	17.99	90.56	-473.49	242.83	711.05	674.92	36.13	19.680	
13,200.00	12,512.18	13,119.54	12,519.19	22.52	18.38	90.56	-573.49	243.69	711.05	673.85	37.20	19.116	
13,300.00	12,513.05	13,219.54	12,520.06	23.10	18.88	90.56	-673.48	244.55	711.05	672.62	38.43	18.503	
13,400.00	12,513.92	13,319.54	12,520.93	23.73	19.50	90.56	-773.47	245.41	711.05	671.24	39.81	17.860	
13,500.00	12,514.80	13,419.54	12,521.81	24.41	20.20	90.56	-873.46	246.27	711.05	669.72	41.33	17.203	
13,600.00	12,515.67	13,519.54	12,522.68	25.15	20.99	90.56	-973.46	247.13	711.05	668.08	42.97	16.547	
13,700.00	12,516.55	13,619.54	12,523.55	25.93	21.84	90.56	-1,073.45	247.99	711.05	666.33	44.72	15.900	
13,800.00	12,517.42	13,719.54	12,524.43	26.76	22.75	90.56	-1,173.44	248.86	711.05	664.49	46.56	15.270	
13,900.00	12,518.29	13,819.54	12,525.30	27.63	23.70	90.56	-1,273.43	249.72	711.05	662.56	48.49	14.663	
14,000.00	12,519.17	13,919.54	12,526.18	28.53	24.70	90.56	-1,373.43	250.58	711.05	660.56	50.50	14.081	
14,100.00	12,520.04	14,019.54	12,527.05	29.47	25.73	90.56	-1,473.42	251.44	711.05	658.49	52.57	13.527	
14,200.00	12,520.91	14,119.54	12,527.92	30.44	26.80	90.56	-1,573.41	252.30	711.05	656.36	54.70	13.000	
14,300.00	12,521.79	14,219.54	12,528.80	31.44	27.89	90.56	-1,673.40	253.16	711.05	654.18	56.88	12.502	
14,400.00	12,522.66	14,319.54	12,529.67	32.46	29.01	90.56	-1,773.40	254.02	711.05	651.95	59.10	12.030	
14,500.00	12,523.53	14,419.54	12,530.54	33.51	30.15	90.56	-1,873.39	254.88	711.05	649.68	61.37	11.586	
14,600.00	12,524.41	14,519.54	12,531.42	34.58	31.30	90.56	-1,973.38	255.74	711.05	647.37	63.68	11.166	
14,700.00	12,525.28	14,619.54	12,532.29	35.67	32.48	90.56	-2,073.37	256.60	711.05	645.04	66.02	10.770	
14,800.00	12,526.16	14,719.54	12,533.16	36.78	33.67	90.56	-2,173.37	257.47	711.05	642.67	68.39	10.397	
14,900.00	12,527.03	14,819.54	12,534.04	37.90	34.87	90.56	-2,273.36	258.33	711.05	640.27	70.78	10.046	
15,000.00	12,527.90	14,919.54	12,534.91	39.04	36.08	90.56	-2,373.35	259.19	711.05	637.85	73.20	9.713	
15,100.00	12,528.78	15,019.54	12,535.78	40.20	37.31	90.56	-2,473.34	260.05	711.05	635.41	75.64	9.400	
15,200.00	12,529.65	15,119.54	12,536.66	41.37	38.55	90.56	-2,573.34	260.91	711.05	632.95	78.11	9.104	
15,300.00	12,530.52	15,219.54	12,537.53	42.55	39.79	90.56	-2,673.33	261.77	711.06	630.47	80.58	8.824	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 212H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	12,531.40	15,319.54	12,538.40	43.74	41.04	90.56	-2,773.32	262.63	711.06	627.98	83.08	8.559	
15,500.00	12,532.27	15,419.54	12,539.28	44.94	42.30	90.56	-2,873.31	263.49	711.06	625.46	85.59	8.308	
15,600.00	12,533.14	15,519.54	12,540.15	46.15	43.57	90.56	-2,973.31	264.35	711.06	622.94	88.11	8.070	
15,700.00	12,534.02	15,619.54	12,541.02	47.37	44.84	90.56	-3,073.30	265.21	711.06	620.40	90.65	7.844	
15,800.00	12,534.89	15,719.54	12,541.90	48.59	46.12	90.56	-3,173.29	266.08	711.06	617.86	93.20	7.629	
15,900.00	12,535.76	15,819.54	12,542.77	49.83	47.41	90.56	-3,273.28	266.94	711.06	615.30	95.76	7.426	
16,000.00	12,536.64	15,919.54	12,543.64	51.07	48.70	90.56	-3,373.28	267.80	711.06	612.73	98.33	7.232	
16,100.00	12,537.51	16,019.54	12,544.52	52.32	49.99	90.56	-3,473.27	268.66	711.06	610.15	100.90	7.047	
16,200.00	12,538.39	16,119.54	12,545.39	53.57	51.28	90.56	-3,573.26	269.52	711.06	607.57	103.49	6.871	
16,300.00	12,539.26	16,219.54	12,546.26	54.83	52.59	90.56	-3,673.25	270.38	711.06	604.97	106.08	6.703	
16,400.00	12,540.13	16,319.54	12,547.14	56.09	53.89	90.56	-3,773.25	271.24	711.06	602.37	108.68	6.543	
16,500.00	12,541.01	16,419.54	12,548.01	57.36	55.20	90.56	-3,873.24	272.10	711.06	599.77	111.29	6.389	
16,600.00	12,541.88	16,519.54	12,548.88	58.64	56.51	90.56	-3,973.23	272.96	711.06	597.15	113.90	6.243	
16,700.00	12,542.75	16,619.54	12,549.76	59.91	57.82	90.56	-4,073.22	273.82	711.06	594.53	116.52	6.102	
16,800.00	12,543.63	16,719.54	12,550.63	61.20	59.14	90.56	-4,173.22	274.68	711.06	591.91	119.15	5.968	
16,900.00	12,544.50	16,819.54	12,551.50	62.48	60.45	90.56	-4,273.21	275.55	711.06	589.28	121.78	5.839	
17,000.00	12,545.37	16,919.54	12,552.38	63.77	61.77	90.56	-4,373.20	276.41	711.06	586.65	124.41	5.715	
17,100.00	12,546.25	17,019.54	12,553.25	65.06	63.10	90.56	-4,473.19	277.27	711.06	584.01	127.05	5.597	
17,200.00	12,547.12	17,119.54	12,554.12	66.36	64.42	90.56	-4,573.19	278.13	711.06	581.37	129.69	5.483	
17,300.00	12,547.99	17,219.54	12,555.00	67.66	65.75	90.56	-4,673.18	278.99	711.06	578.72	132.34	5.373	
17,400.00	12,548.87	17,319.54	12,555.87	68.96	67.08	90.56	-4,773.17	279.85	711.06	576.07	134.99	5.267	
17,500.00	12,549.74	17,419.54	12,556.74	70.26	68.41	90.56	-4,873.16	280.71	711.06	573.41	137.64	5.166	
17,600.00	12,550.62	17,519.54	12,557.62	71.57	69.74	90.56	-4,973.16	281.57	711.06	570.76	140.30	5.068	
17,700.00	12,551.49	17,619.54	12,558.49	72.88	71.07	90.56	-5,073.15	282.43	711.06	568.10	142.96	4.974	
17,800.00	12,552.36	17,719.54	12,559.36	74.19	72.40	90.56	-5,173.14	283.29	711.06	565.43	145.63	4.883	
17,900.00	12,553.24	17,819.54	12,560.24	75.50	73.74	90.56	-5,273.13	284.16	711.06	562.77	148.29	4.795	
18,000.00	12,554.11	17,919.54	12,561.11	76.81	75.08	90.56	-5,373.13	285.02	711.06	560.10	150.96	4.710	
18,100.00	12,554.98	18,019.54	12,561.98	78.13	76.41	90.56	-5,473.12	285.88	711.06	557.43	153.63	4.628	
18,200.00	12,555.86	18,119.54	12,562.86	79.45	77.75	90.56	-5,573.11	286.74	711.06	554.75	156.31	4.549	
18,300.00	12,556.73	18,219.54	12,563.73	80.77	79.09	90.56	-5,673.10	287.60	711.06	552.08	158.98	4.473	
18,400.00	12,557.60	18,319.54	12,564.60	82.09	80.43	90.56	-5,773.10	288.46	711.06	549.40	161.66	4.398	
18,500.00	12,558.48	18,419.54	12,565.48	83.42	81.78	90.56	-5,873.09	289.32	711.06	546.72	164.34	4.327	
18,600.00	12,559.35	18,519.54	12,566.35	84.74	83.12	90.56	-5,973.08	290.18	711.06	544.04	167.02	4.257	
18,700.00	12,560.23	18,619.54	12,567.22	86.07	84.46	90.56	-6,073.07	291.04	711.06	541.36	169.71	4.190	
18,800.00	12,561.10	18,719.54	12,568.10	87.40	85.81	90.56	-6,173.07	291.90	711.06	538.67	172.39	4.125	
18,900.00	12,561.97	18,819.54	12,568.97	88.72	87.15	90.56	-6,273.06	292.77	711.06	535.98	175.08	4.061	
19,000.00	12,562.85	18,919.54	12,569.85	90.05	88.50	90.56	-6,373.05	293.63	711.06	533.29	177.77	4.000	
19,100.00	12,563.72	19,019.54	12,570.72	91.39	89.85	90.56	-6,473.04	294.49	711.06	530.60	180.46	3.940	
19,200.00	12,564.59	19,119.54	12,571.59	92.72	91.19	90.56	-6,573.04	295.35	711.06	527.91	183.15	3.882	
19,300.00	12,565.47	19,219.54	12,572.47	94.05	92.54	90.56	-6,673.03	296.21	711.06	525.22	185.84	3.826	
19,400.00	12,566.34	19,319.54	12,573.34	95.39	93.89	90.56	-6,773.02	297.07	711.06	522.52	188.54	3.771	
19,500.00	12,567.21	19,419.54	12,574.21	96.72	95.24	90.56	-6,873.01	297.93	711.06	519.83	191.23	3.718	
19,600.00	12,568.09	19,519.54	12,575.09	98.06	96.59	90.56	-6,973.01	298.79	711.06	517.13	193.93	3.667	
19,700.00	12,568.96	19,619.54	12,575.96	99.40	97.94	90.56	-7,073.00	299.65	711.06	514.43	196.63	3.616	
19,800.00	12,569.83	19,719.54	12,576.83	100.73	99.29	90.56	-7,172.99	300.51	711.06	511.74	199.33	3.567	
19,900.00	12,570.71	19,819.54	12,577.71	102.07	100.64	90.56	-7,272.98	301.38	711.06	509.03	202.03	3.520	
20,000.00	12,571.58	19,919.54	12,578.58	103.41	101.99	90.56	-7,372.98	302.24	711.06	506.33	204.73	3.473	
20,100.00	12,572.46	20,019.54	12,579.45	104.75	103.35	90.56	-7,472.97	303.10	711.06	503.63	207.43	3.428	
20,200.00	12,573.33	20,119.54	12,580.33	106.10	104.70	90.56	-7,572.96	303.96	711.06	500.93	210.14	3.384	
20,300.00	12,574.20	20,219.54	12,581.20	107.44	106.05	90.56	-7,672.95	304.82	711.06	498.22	212.84	3.341	
20,400.00	12,575.08	20,319.54	12,582.07	108.78	107.41	90.56	-7,772.95	305.68	711.06	495.52	215.55	3.299	
20,500.00	12,575.95	20,419.54	12,582.95	110.12	108.76	90.56	-7,872.94	306.54	711.06	492.81	218.25	3.258	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 212H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,576.82	20,519.54	12,583.82	111.47	110.12	90.56	-7,972.93	307.40	711.06	490.11	220.96	3.218	
20,700.00	12,577.70	20,619.54	12,584.69	112.81	111.47	90.56	-8,072.92	308.26	711.06	487.40	223.67	3.179	
20,800.00	12,578.57	20,719.54	12,585.57	114.16	112.83	90.56	-8,172.92	309.12	711.06	484.69	226.37	3.141	
20,900.00	12,579.44	20,819.54	12,586.44	115.51	114.18	90.56	-8,272.91	309.99	711.06	481.98	229.08	3.104	
21,000.00	12,580.32	20,919.54	12,587.31	116.85	115.54	90.56	-8,372.90	310.85	711.07	479.27	231.79	3.068	
21,100.00	12,581.19	21,019.54	12,588.19	118.20	116.90	90.56	-8,472.89	311.71	711.07	476.56	234.50	3.032	
21,200.00	12,582.06	21,119.54	12,589.06	119.55	118.25	90.56	-8,572.89	312.57	711.07	473.85	237.22	2.998	
21,300.00	12,582.94	21,219.54	12,589.93	120.89	119.61	90.56	-8,672.88	313.43	711.07	471.14	239.93	2.964	
21,400.00	12,583.81	21,319.54	12,590.81	122.24	120.97	90.56	-8,772.87	314.29	711.07	468.43	242.64	2.931	
21,500.00	12,584.69	21,419.54	12,591.68	123.59	122.32	90.56	-8,872.86	315.15	711.07	465.71	245.35	2.898	
21,600.00	12,585.56	21,519.54	12,592.55	124.94	123.68	90.56	-8,972.86	316.01	711.07	463.00	248.07	2.866	
21,700.00	12,586.43	21,619.54	12,593.43	126.29	125.04	90.56	-9,072.85	316.87	711.07	460.29	250.78	2.835	
21,800.00	12,587.31	21,719.54	12,594.30	127.64	126.40	90.56	-9,172.84	317.73	711.07	457.57	253.50	2.805	
21,900.00	12,588.18	21,819.54	12,595.17	128.99	127.76	90.56	-9,272.83	318.59	711.07	454.86	256.21	2.775	
22,000.00	12,589.05	21,919.54	12,596.05	130.34	129.12	90.56	-9,372.83	319.46	711.07	452.14	258.93	2.746	
22,100.00	12,589.93	22,019.54	12,596.92	131.70	130.47	90.56	-9,472.82	320.32	711.07	449.42	261.64	2.718	
22,200.00	12,590.80	22,119.54	12,597.79	133.05	131.83	90.56	-9,572.81	321.18	711.07	446.71	264.36	2.690	
22,300.00	12,591.67	22,219.54	12,598.67	134.40	133.19	90.56	-9,672.80	322.04	711.07	443.99	267.08	2.662	
22,400.00	12,592.55	22,319.54	12,599.54	135.75	134.55	90.56	-9,772.80	322.90	711.07	441.27	269.80	2.636	
22,500.00	12,593.42	22,419.54	12,600.41	137.11	135.91	90.56	-9,872.79	323.76	711.07	438.55	272.51	2.609	
22,600.00	12,594.30	22,519.54	12,601.29	138.46	137.27	90.56	-9,972.78	324.62	711.07	435.84	275.23	2.584	
22,700.00	12,595.17	22,619.54	12,602.16	139.81	138.63	90.56	-10,072.77	325.48	711.07	433.12	277.95	2.558	
22,800.00	12,596.04	22,719.54	12,603.03	141.17	139.99	90.56	-10,172.77	326.34	711.07	430.40	280.67	2.533	
22,875.30	12,596.70	22,794.84	12,603.69	142.19	141.02	90.56	-10,248.06	326.99	711.07	428.35	282.72	2.515	SF

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

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 213H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	0.00	0.50	0.50	70.48	831.00	2,344.00	2,486.95				
100.00	100.00	101.00	100.00	0.98	0.99	70.48	831.00	2,344.00	2,486.95	2,484.98	1.97	1,263.916	
200.00	200.00	201.00	200.00	1.56	1.57	70.48	831.00	2,344.00	2,486.95	2,483.82	3.13	795.466	
300.00	300.00	301.00	300.00	1.98	1.98	70.48	831.00	2,344.00	2,486.95	2,482.98	3.97	627.101	
400.00	400.00	401.00	400.00	2.33	2.33	70.48	831.00	2,344.00	2,486.95	2,482.28	4.66	533.465	
500.00	500.00	501.71	500.71	2.63	2.64	70.48	831.00	2,344.00	2,486.95	2,481.67	5.27	471.568	
600.00	600.00	672.33	671.27	2.91	3.18	70.55	827.35	2,342.67	2,485.50	2,479.47	6.02	412.734	
700.00	700.00	838.59	837.15	3.16	3.57	70.75	816.91	2,338.87	2,481.22	2,474.61	6.61	375.116	
800.00	800.00	938.21	936.39	3.40	3.73	70.90	808.75	2,335.90	2,475.71	2,468.70	7.01	353.123	
900.00	900.00	1,037.83	1,035.63	3.62	3.94	71.06	800.59	2,332.93	2,470.21	2,462.76	7.44	331.843	
1,000.00	1,000.00	1,137.45	1,134.87	3.76	4.15	-20.79	792.43	2,329.96	2,464.68	2,456.89	7.79	316.560	
1,100.00	1,099.98	1,237.00	1,234.04	4.00	4.32	-20.69	784.28	2,327.00	2,457.50	2,449.32	8.19	300.175	
1,200.00	1,199.88	1,486.65	1,482.21	4.24	4.80	-20.44	761.62	2,312.72	2,445.31	2,436.45	8.86	275.983	
1,300.00	1,299.63	1,755.71	1,747.54	4.46	5.40	-20.28	731.68	2,280.09	2,423.75	2,414.10	9.65	251.143	
1,400.00	1,399.25	2,014.10	1,999.08	4.60	5.97	-20.05	697.65	2,232.03	2,394.05	2,383.74	10.31	232.226	
1,500.00	1,498.87	2,107.02	2,088.83	4.78	6.15	-19.96	684.52	2,211.88	2,361.20	2,350.53	10.67	221.324	
1,600.00	1,598.49	2,201.40	2,179.99	4.96	6.37	-19.86	671.18	2,191.42	2,328.36	2,317.31	11.05	210.727	
1,700.00	1,698.11	2,295.77	2,271.16	5.14	6.62	-19.76	657.84	2,170.95	2,295.52	2,284.09	11.43	200.797	
1,800.00	1,797.73	2,390.15	2,362.32	5.32	6.90	-19.66	644.51	2,150.48	2,262.68	2,250.87	11.81	191.516	
1,900.00	1,897.34	2,484.53	2,453.48	5.49	7.18	-19.56	631.17	2,130.02	2,229.86	2,217.66	12.20	182.781	
2,000.00	1,996.96	2,578.91	2,544.64	5.67	7.47	-19.45	617.83	2,109.55	2,197.04	2,184.45	12.59	174.558	
2,100.00	2,096.58	2,673.29	2,635.81	5.85	7.76	-19.34	604.49	2,089.08	2,164.23	2,151.25	12.97	166.808	
2,200.00	2,196.20	2,767.67	2,726.97	6.04	8.06	-19.22	591.16	2,068.62	2,131.42	2,118.05	13.37	159.414	
2,300.00	2,295.72	2,861.64	2,817.74	6.23	8.36	-12.73	577.88	2,048.24	2,097.50	2,083.73	13.77	152.274	
2,400.00	2,394.97	2,954.68	2,907.61	6.43	8.66	-8.27	564.73	2,028.06	2,061.17	2,046.98	14.19	145.212	
2,500.00	2,493.89	3,046.73	2,996.52	6.64	8.96	-5.09	551.72	2,008.10	2,022.47	2,007.85	14.61	138.387	
2,600.00	2,592.40	3,137.73	3,084.42	6.85	9.26	-2.68	538.86	1,988.37	1,981.41	1,966.38	15.03	131.797	
2,700.00	2,690.45	3,227.61	3,171.24	7.07	9.56	-0.75	526.16	1,968.88	1,938.05	1,922.59	15.45	125.431	
2,800.00	2,787.96	3,316.32	3,256.92	7.28	9.85	0.88	513.63	1,949.64	1,892.40	1,876.53	15.87	119.273	
2,900.00	2,884.87	3,403.79	3,341.41	7.49	10.15	2.28	501.27	1,930.67	1,844.50	1,828.23	16.28	113.306	
3,000.00	2,981.46	3,490.63	3,425.29	7.68	10.44	2.56	488.99	1,911.84	1,795.55	1,778.89	16.66	107.746	
3,100.00	3,078.05	3,577.48	3,509.18	7.87	10.73	2.86	476.72	1,893.01	1,746.63	1,729.58	17.05	102.418	
3,200.00	3,174.64	3,664.32	3,593.07	8.06	11.03	3.18	464.45	1,874.18	1,697.75	1,680.31	17.45	97.309	
3,300.00	3,271.24	3,751.17	3,676.95	8.26	11.32	3.51	452.18	1,855.34	1,648.91	1,631.07	17.84	92.409	
3,400.00	3,367.83	3,838.01	3,760.84	8.51	11.62	3.86	439.90	1,836.51	1,600.12	1,581.88	18.24	87.707	
3,500.00	3,464.42	3,924.86	3,844.72	8.80	11.92	4.24	427.63	1,817.68	1,551.38	1,532.73	18.65	83.193	
3,600.00	3,561.01	4,011.70	3,928.61	9.09	12.22	4.64	415.36	1,798.85	1,502.69	1,483.64	19.06	78.858	
3,700.00	3,657.60	4,098.55	4,012.49	9.38	12.52	5.06	403.09	1,780.01	1,454.06	1,434.60	19.47	74.693	
3,800.00	3,754.20	4,185.39	4,096.38	9.68	12.82	5.52	390.81	1,761.18	1,405.50	1,385.62	19.88	70.689	
3,900.00	3,850.79	4,272.24	4,180.27	9.98	13.12	6.00	378.54	1,742.35	1,357.01	1,336.71	20.30	66.838	
4,000.00	3,947.38	4,359.08	4,264.15	10.28	13.42	6.53	366.27	1,723.52	1,308.60	1,287.88	20.73	63.134	
4,100.00	4,043.97	4,445.93	4,348.04	10.59	13.73	7.09	354.00	1,704.68	1,260.29	1,239.13	21.16	59.568	
4,200.00	4,140.56	4,532.77	4,431.92	10.90	14.03	7.69	341.72	1,685.85	1,212.07	1,190.48	21.59	56.136	
4,300.00	4,237.16	4,614.96	4,511.31	11.21	14.31	8.31	330.13	1,668.06	1,164.02	1,141.99	22.03	52.833	
4,400.00	4,333.75	4,683.55	4,577.80	11.52	14.54	8.84	320.92	1,653.92	1,117.11	1,094.63	22.49	49.682	
4,500.00	4,430.34	4,753.48	4,645.88	11.84	14.76	9.39	312.20	1,640.55	1,071.81	1,048.87	22.94	46.724	
4,600.00	4,526.93	4,824.76	4,715.56	12.16	14.98	9.96	304.02	1,627.99	1,028.13	1,004.74	23.39	43.950	
4,700.00	4,623.53	4,900.00	4,789.41	12.48	15.19	10.56	296.15	1,615.91	986.14	962.29	23.85	41.350	
4,800.00	4,720.12	4,971.27	4,859.61	12.80	15.37	11.13	289.43	1,605.61	945.84	921.54	24.30	38.927	
4,900.00	4,816.71	5,046.47	4,933.92	13.12	15.54	11.73	283.12	1,595.92	907.28	882.54	24.74	36.666	
5,000.00	4,913.30	5,122.93	5,009.69	13.45	15.71	12.34	277.52	1,587.33	870.49	845.31	25.19	34.560	
5,100.00	5,009.89	5,200.00	5,086.25	13.78	15.86	12.95	272.72	1,579.96	835.50	809.88	25.62	32.605	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 213H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,106.49	5,279.52	5,165.41	14.10	15.99	13.56	268.65	1,573.71	802.32	776.27	26.05	30.797	
5,300.00	5,203.08	5,359.56	5,245.24	14.43	16.10	14.15	265.46	1,568.82	770.98	744.52	26.47	29.128	
5,400.00	5,299.67	5,440.72	5,326.29	14.75	16.20	14.72	263.16	1,565.29	741.51	714.65	26.86	27.603	
5,500.00	5,396.65	5,523.29	5,408.82	15.07	16.28	15.14	261.78	1,563.18	715.32	688.07	27.25	26.251	
5,600.00	5,494.23	5,608.70	5,494.23	15.36	16.34	15.50	261.38	1,562.56	693.47	665.89	27.58	25.147	
5,700.00	5,592.35	5,706.82	5,592.35	15.62	16.38	15.85	261.38	1,562.56	674.87	647.01	27.86	24.222	
5,800.00	5,690.94	5,805.41	5,690.94	15.86	16.41	16.18	261.38	1,562.56	658.79	630.65	28.14	23.412	
5,900.00	5,789.93	5,904.41	5,789.93	16.07	16.45	16.47	261.38	1,562.56	645.22	616.82	28.41	22.714	
6,000.00	5,889.26	6,003.74	5,889.26	16.25	16.49	16.72	261.38	1,562.56	634.17	605.50	28.66	22.125	
6,100.00	5,988.86	6,103.34	5,988.86	16.41	16.52	16.92	261.38	1,562.56	625.62	596.71	28.91	21.644	
6,200.00	6,088.66	6,203.13	6,088.66	16.53	16.56	17.06	261.38	1,562.56	619.58	590.45	29.13	21.268	
6,300.00	6,188.59	6,303.06	6,188.59	16.64	16.60	17.15	261.38	1,562.56	616.04	586.70	29.34	20.997	
6,400.00	6,288.58	6,403.05	6,288.58	16.71	16.64	89.60	261.38	1,562.56	615.00	585.53	29.47	20.871	
6,500.00	6,388.58	6,503.05	6,388.58	16.76	16.68	89.60	261.38	1,562.56	615.00	585.43	29.56	20.802	
6,600.00	6,488.58	6,603.05	6,488.58	16.82	16.71	89.60	261.38	1,562.56	615.00	585.33	29.66	20.733	
6,700.00	6,588.58	6,703.05	6,588.58	16.88	16.75	89.60	261.38	1,562.56	615.00	585.23	29.76	20.665	
6,800.00	6,688.58	6,803.05	6,688.58	16.94	16.79	89.60	261.38	1,562.56	615.00	585.13	29.86	20.596	
6,900.00	6,788.58	6,903.05	6,788.58	17.00	16.83	89.60	261.38	1,562.56	615.00	585.04	29.96	20.527	
7,000.00	6,888.58	7,003.05	6,888.58	17.05	16.87	89.60	261.38	1,562.56	615.00	584.93	30.06	20.459	
7,100.00	6,988.58	7,103.05	6,988.58	17.11	16.91	89.60	261.38	1,562.56	615.00	584.83	30.16	20.390	
7,200.00	7,088.58	7,203.05	7,088.58	17.17	16.95	89.60	261.38	1,562.56	615.00	584.73	30.26	20.322	
7,300.00	7,188.58	7,303.05	7,188.58	17.23	17.00	89.60	261.38	1,562.56	615.00	584.63	30.36	20.254	
7,400.00	7,288.58	7,403.05	7,288.58	17.29	17.04	89.60	261.38	1,562.56	615.00	584.53	30.47	20.186	
7,500.00	7,388.58	7,503.05	7,388.58	17.35	17.08	89.60	261.38	1,562.56	615.00	584.42	30.57	20.117	
7,600.00	7,488.58	7,603.05	7,488.58	17.41	17.12	89.60	261.38	1,562.56	615.00	584.32	30.67	20.050	
7,700.00	7,588.58	7,703.05	7,588.58	17.47	17.16	89.60	261.38	1,562.56	615.00	584.22	30.78	19.982	
7,800.00	7,688.58	7,803.05	7,688.58	17.53	17.21	89.60	261.38	1,562.56	615.00	584.11	30.88	19.914	
7,900.00	7,788.58	7,903.05	7,788.58	17.59	17.25	89.60	261.38	1,562.56	615.00	584.01	30.99	19.847	
8,000.00	7,888.58	8,003.05	7,888.58	17.65	17.29	89.60	261.38	1,562.56	615.00	583.90	31.09	19.779	
8,100.00	7,988.58	8,103.05	7,988.58	17.71	17.34	89.60	261.38	1,562.56	615.00	583.80	31.20	19.712	
8,200.00	8,088.58	8,203.05	8,088.58	17.77	17.38	89.60	261.38	1,562.56	615.00	583.69	31.31	19.645	
8,300.00	8,188.58	8,303.05	8,188.58	17.83	17.42	89.60	261.38	1,562.56	615.00	583.58	31.41	19.578	
8,400.00	8,288.58	8,403.05	8,288.58	17.89	17.47	89.60	261.38	1,562.56	615.00	583.48	31.52	19.512	
8,500.00	8,388.58	8,503.05	8,388.58	17.95	17.51	89.60	261.38	1,562.56	615.00	583.37	31.63	19.445	
8,600.00	8,488.58	8,603.05	8,488.58	18.02	17.56	89.60	261.38	1,562.56	615.00	583.26	31.74	19.379	
8,700.00	8,588.58	8,703.05	8,588.58	18.08	17.60	89.60	261.38	1,562.56	615.00	583.15	31.84	19.312	
8,800.00	8,688.58	8,803.05	8,688.58	18.14	17.65	89.60	261.38	1,562.56	615.00	583.04	31.95	19.246	
8,900.00	8,788.58	8,903.05	8,788.58	18.20	17.69	89.60	261.38	1,562.56	615.00	582.93	32.06	19.180	
9,000.00	8,888.58	9,003.05	8,888.58	18.26	17.74	89.60	261.38	1,562.56	615.00	582.82	32.17	19.115	
9,100.00	8,988.58	9,103.05	8,988.58	18.32	17.79	89.60	261.38	1,562.56	615.00	582.71	32.28	19.049	
9,200.00	9,088.58	9,203.05	9,088.58	18.39	17.83	89.60	261.38	1,562.56	615.00	582.60	32.40	18.984	
9,300.00	9,188.58	9,303.05	9,188.58	18.45	17.88	89.60	261.38	1,562.56	615.00	582.49	32.51	18.919	
9,400.00	9,288.58	9,403.05	9,288.58	18.51	17.93	89.60	261.38	1,562.56	615.00	582.38	32.62	18.854	
9,500.00	9,388.58	9,503.05	9,388.58	18.57	17.97	89.60	261.38	1,562.56	615.00	582.26	32.73	18.789	
9,600.00	9,488.58	9,603.05	9,488.58	18.64	18.02	89.60	261.38	1,562.56	615.00	582.15	32.84	18.725	
9,700.00	9,588.58	9,703.05	9,588.58	18.70	18.07	89.60	261.38	1,562.56	615.00	582.04	32.96	18.660	
9,800.00	9,688.58	9,803.05	9,688.58	18.76	18.12	89.60	261.38	1,562.56	615.00	581.92	33.07	18.596	
9,900.00	9,788.58	9,903.05	9,788.58	18.83	18.16	89.60	261.38	1,562.56	615.00	581.81	33.18	18.532	
10,000.00	9,888.58	10,003.05	9,888.58	18.89	18.21	89.60	261.38	1,562.56	615.00	581.70	33.30	18.469	
10,100.00	9,988.58	10,103.05	9,988.58	18.95	18.26	89.60	261.38	1,562.56	615.00	581.58	33.41	18.405	
10,200.00	10,088.58	10,203.05	10,088.58	19.02	18.31	89.60	261.38	1,562.56	615.00	581.47	33.53	18.342	
10,300.00	10,188.58	10,303.05	10,188.58	19.08	18.36	89.60	261.38	1,562.56	615.00	581.35	33.64	18.279	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 213H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,400.00	10,288.58	10,403.05	10,288.58	19.15	18.41	89.60	261.38	1,562.56	615.00	581.23	33.76	18.216	
10,500.00	10,388.58	10,503.05	10,388.58	19.21	18.46	89.60	261.38	1,562.56	615.00	581.12	33.88	18.154	
10,600.00	10,488.58	10,603.05	10,488.58	19.27	18.51	89.60	261.38	1,562.56	615.00	581.00	33.99	18.091	
10,700.00	10,588.58	10,703.05	10,588.58	19.34	18.56	89.60	261.38	1,562.56	615.00	580.88	34.11	18.029	
10,800.00	10,688.58	10,803.05	10,688.58	19.40	18.61	89.60	261.38	1,562.56	615.00	580.77	34.23	17.967	
10,900.00	10,788.58	10,903.05	10,788.58	19.47	18.66	89.60	261.38	1,562.56	615.00	580.65	34.35	17.906	
11,000.00	10,888.58	11,003.05	10,888.58	19.53	18.71	89.60	261.38	1,562.56	615.00	580.53	34.46	17.844	
11,100.00	10,988.58	11,103.05	10,988.58	19.60	18.76	89.60	261.38	1,562.56	615.00	580.41	34.58	17.783	
11,200.00	11,088.58	11,203.05	11,088.58	19.66	18.81	89.60	261.38	1,562.56	615.00	580.29	34.70	17.722	
11,300.00	11,188.58	11,303.05	11,188.58	19.73	18.86	89.60	261.38	1,562.56	615.00	580.17	34.82	17.661	
11,400.00	11,288.58	11,403.05	11,288.58	19.79	18.92	89.60	261.38	1,562.56	615.00	580.05	34.94	17.601	
11,500.00	11,388.58	11,503.05	11,388.58	19.86	18.97	89.60	261.38	1,562.56	615.00	579.93	35.06	17.541	
11,600.00	11,488.58	11,603.05	11,488.58	19.92	19.02	89.60	261.38	1,562.56	615.00	579.81	35.18	17.481	
11,700.00	11,588.58	11,703.05	11,588.58	19.99	19.07	89.60	261.38	1,562.56	615.00	579.69	35.30	17.421	
11,800.00	11,688.58	11,803.05	11,688.58	20.05	19.13	89.60	261.38	1,562.56	615.00	579.57	35.42	17.362	
11,900.00	11,788.58	11,903.05	11,788.58	20.12	19.18	89.60	261.38	1,562.56	615.00	579.45	35.54	17.302	
11,914.36	11,802.94	11,917.41	11,802.94	20.13	19.19	89.60	261.38	1,562.56	615.00	579.43	35.56	17.294	CC
12,000.00	11,888.58	12,003.04	11,888.56	20.19	19.23	89.60	261.34	1,562.56	615.00	579.33	35.66	17.245	
12,100.00	11,988.51	12,101.98	11,986.91	20.25	19.36	-89.21	251.69	1,562.65	615.06	579.29	35.76	17.198	
12,200.00	12,086.82	12,200.00	12,081.27	20.31	19.57	-88.35	225.61	1,562.88	615.26	579.36	35.90	17.138	
12,300.00	12,180.57	12,295.19	12,167.37	20.35	19.84	-87.56	185.26	1,563.24	615.59	579.50	36.09	17.057	
12,400.00	12,266.93	12,389.85	12,245.19	20.39	20.18	-86.84	131.56	1,563.73	615.99	579.63	36.36	16.940	
12,500.00	12,343.26	12,483.46	12,312.43	20.44	20.59	-86.21	66.59	1,564.31	616.43	579.68	36.74	16.776	
12,600.00	12,407.24	12,576.20	12,367.75	20.52	21.08	-85.69	-7.71	1,564.98	616.85	579.59	37.26	16.554	
12,700.00	12,456.94	12,668.26	12,410.11	20.67	21.66	-85.29	-89.34	1,565.71	617.22	579.27	37.95	16.266	
12,800.00	12,490.84	12,759.86	12,438.75	20.88	22.32	-85.03	-176.23	1,566.50	617.49	578.69	38.80	15.914	
12,900.00	12,507.91	12,850.00	12,453.07	21.18	23.05	-84.90	-265.13	1,567.30	617.64	577.83	39.81	15.515	
13,000.00	12,510.43	12,947.12	12,455.23	21.56	23.91	-84.87	-362.20	1,568.17	617.70	576.65	41.05	15.048	
13,100.00	12,511.30	13,047.12	12,455.76	22.01	24.84	-84.84	-462.19	1,569.07	617.77	575.30	42.47	14.546	
13,200.00	12,512.18	13,147.12	12,456.28	22.52	25.82	-84.81	-562.19	1,569.97	617.84	573.83	44.01	14.038	
13,300.00	12,513.05	13,247.12	12,456.81	23.10	26.83	-84.78	-662.18	1,570.87	617.91	572.25	45.66	13.532	
13,400.00	12,513.92	13,347.12	12,457.34	23.73	27.88	-84.75	-762.17	1,571.77	617.98	570.57	47.42	13.033	
13,500.00	12,514.80	13,447.12	12,457.86	24.41	28.95	-84.71	-862.17	1,572.67	618.05	568.79	49.26	12.547	
13,600.00	12,515.67	13,547.12	12,458.39	25.15	30.04	-84.68	-962.16	1,573.57	618.12	566.94	51.18	12.076	
13,700.00	12,516.55	13,647.12	12,458.92	25.93	31.16	-84.65	-1,062.16	1,574.46	618.19	565.01	53.18	11.625	
13,800.00	12,517.42	13,747.12	12,459.44	26.76	32.30	-84.62	-1,162.15	1,575.36	618.26	563.02	55.24	11.192	
13,900.00	12,518.29	13,847.11	12,459.97	27.63	33.45	-84.59	-1,262.14	1,576.26	618.33	560.98	57.36	10.780	
14,000.00	12,519.17	13,947.11	12,460.49	28.53	34.62	-84.56	-1,362.14	1,577.16	618.41	558.88	59.53	10.389	
14,100.00	12,520.04	14,047.11	12,461.02	29.47	35.80	-84.52	-1,462.13	1,578.06	618.48	556.73	61.74	10.017	
14,200.00	12,520.91	14,147.11	12,461.55	30.44	37.00	-84.49	-1,562.13	1,578.96	618.55	554.55	64.00	9.665	
14,300.00	12,521.79	14,247.11	12,462.07	31.44	38.20	-84.46	-1,662.12	1,579.86	618.62	552.33	66.29	9.332	
14,400.00	12,522.66	14,347.11	12,462.60	32.46	39.42	-84.43	-1,762.11	1,580.76	618.69	550.08	68.61	9.017	
14,500.00	12,523.53	14,447.11	12,463.13	33.51	40.65	-84.40	-1,862.11	1,581.66	618.76	547.79	70.97	8.719	
14,600.00	12,524.41	14,547.11	12,463.65	34.58	41.88	-84.37	-1,962.10	1,582.56	618.83	545.49	73.35	8.437	
14,700.00	12,525.28	14,647.11	12,464.18	35.67	43.12	-84.33	-2,062.10	1,583.46	618.91	543.15	75.75	8.170	
14,800.00	12,526.16	14,747.11	12,464.70	36.78	44.37	-84.30	-2,162.09	1,584.36	618.98	540.80	78.18	7.917	
14,900.00	12,527.03	14,847.11	12,465.23	37.90	45.63	-84.27	-2,262.08	1,585.26	619.05	538.43	80.63	7.678	
15,000.00	12,527.90	14,947.11	12,465.76	39.04	46.89	-84.24	-2,362.08	1,586.16	619.13	536.04	83.09	7.451	
15,100.00	12,528.78	15,047.11	12,466.28	40.20	48.16	-84.21	-2,462.07	1,587.06	619.20	533.63	85.57	7.236	
15,200.00	12,529.65	15,147.11	12,466.81	41.37	49.43	-84.18	-2,562.07	1,587.96	619.27	531.21	88.06	7.032	
15,300.00	12,530.52	15,247.11	12,467.33	42.55	50.71	-84.14	-2,662.06	1,588.86	619.34	528.77	90.57	6.838	
15,400.00	12,531.40	15,347.11	12,467.86	43.74	51.99	-84.11	-2,762.05	1,589.76	619.42	526.33	93.09	6.654	

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

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 213H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,500.00	12,532.27	15,447.11	12,468.39	44.94	53.28	-84.08	-2,862.05	1,590.65	619.49	523.87	95.62	6.479	
15,600.00	12,533.14	15,547.10	12,468.91	46.15	54.57	-84.05	-2,962.04	1,591.55	619.57	521.40	98.16	6.312	
15,700.00	12,534.02	15,647.10	12,469.44	47.37	55.86	-84.02	-3,062.04	1,592.45	619.64	518.93	100.71	6.153	
15,800.00	12,534.89	15,747.10	12,469.97	48.59	57.16	-83.99	-3,162.03	1,593.35	619.71	516.44	103.27	6.001	
15,900.00	12,535.76	15,847.10	12,470.49	49.83	58.46	-83.95	-3,262.02	1,594.25	619.79	513.95	105.84	5.856	
16,000.00	12,536.64	15,947.10	12,471.02	51.07	59.77	-83.92	-3,362.02	1,595.15	619.86	511.45	108.42	5.718	
16,100.00	12,537.51	16,047.10	12,471.54	52.32	61.07	-83.89	-3,462.01	1,596.05	619.94	508.94	111.00	5.585	
16,200.00	12,538.39	16,147.10	12,472.07	53.57	62.38	-83.86	-3,562.00	1,596.95	620.01	506.43	113.59	5.459	
16,300.00	12,539.26	16,247.10	12,472.60	54.83	63.69	-83.83	-3,662.00	1,597.85	620.09	503.91	116.18	5.337	
16,400.00	12,540.13	16,347.10	12,473.12	56.09	65.01	-83.80	-3,761.99	1,598.75	620.16	501.39	118.78	5.221	
16,500.00	12,541.01	16,447.10	12,473.65	57.36	66.32	-83.77	-3,861.99	1,599.65	620.24	498.86	121.38	5.110	
16,600.00	12,541.88	16,547.10	12,474.18	58.64	67.64	-83.73	-3,961.98	1,600.55	620.32	496.32	123.99	5.003	
16,700.00	12,542.75	16,647.10	12,474.70	59.91	68.96	-83.70	-4,061.97	1,601.45	620.39	493.79	126.61	4.900	
16,800.00	12,543.63	16,747.10	12,475.23	61.20	70.28	-83.67	-4,161.97	1,602.35	620.47	491.24	129.22	4.801	
16,900.00	12,544.50	16,847.10	12,475.75	62.48	71.61	-83.64	-4,261.96	1,603.25	620.54	488.70	131.85	4.707	
17,000.00	12,545.37	16,947.10	12,476.28	63.77	72.93	-83.61	-4,361.96	1,604.15	620.62	486.15	134.47	4.615	
17,100.00	12,546.25	17,047.10	12,476.81	65.06	74.26	-83.58	-4,461.95	1,605.05	620.70	483.60	137.10	4.527	
17,200.00	12,547.12	17,147.09	12,477.33	66.36	75.59	-83.55	-4,561.94	1,605.94	620.78	481.04	139.73	4.443	
17,300.00	12,547.99	17,247.09	12,477.86	67.66	76.92	-83.51	-4,661.94	1,606.84	620.85	478.49	142.37	4.361	
17,400.00	12,548.87	17,347.09	12,478.38	68.96	78.25	-83.48	-4,761.93	1,607.74	620.93	475.92	145.00	4.282	
17,500.00	12,549.74	17,447.09	12,478.91	70.26	79.58	-83.45	-4,861.93	1,608.64	621.01	473.36	147.65	4.206	
17,600.00	12,550.62	17,547.09	12,479.44	71.57	80.92	-83.42	-4,961.92	1,609.54	621.09	470.80	150.29	4.133	
17,700.00	12,551.49	17,647.09	12,479.96	72.88	82.25	-83.39	-5,061.91	1,610.44	621.16	468.23	152.93	4.062	
17,800.00	12,552.36	17,747.09	12,480.49	74.19	83.59	-83.36	-5,161.91	1,611.34	621.24	465.66	155.58	3.993	
17,900.00	12,553.24	17,847.09	12,481.02	75.50	84.92	-83.33	-5,261.90	1,612.24	621.32	463.09	158.23	3.927	
18,000.00	12,554.11	17,947.09	12,481.54	76.81	86.26	-83.29	-5,361.90	1,613.14	621.40	460.52	160.88	3.862	
18,100.00	12,554.98	18,047.09	12,482.07	78.13	87.60	-83.26	-5,461.89	1,614.04	621.48	457.94	163.53	3.800	
18,200.00	12,555.86	18,147.09	12,482.59	79.45	88.94	-83.23	-5,561.88	1,614.94	621.56	455.37	166.19	3.740	
18,300.00	12,556.73	18,247.09	12,483.12	80.77	90.28	-83.20	-5,661.88	1,615.84	621.63	452.79	168.84	3.682	
18,400.00	12,557.60	18,347.09	12,483.65	82.09	91.62	-83.17	-5,761.87	1,616.74	621.71	450.21	171.50	3.625	
18,500.00	12,558.48	18,447.09	12,484.17	83.42	92.96	-83.14	-5,861.87	1,617.64	621.79	447.63	174.16	3.570	
18,600.00	12,559.35	18,547.09	12,484.70	84.74	94.31	-83.11	-5,961.86	1,618.54	621.87	445.05	176.82	3.517	
18,700.00	12,560.23	18,647.09	12,485.22	86.07	95.65	-83.07	-6,061.85	1,619.44	621.95	442.47	179.48	3.465	
18,800.00	12,561.10	18,747.09	12,485.75	87.40	96.99	-83.04	-6,161.85	1,620.34	622.03	439.89	182.14	3.415	
18,900.00	12,561.97	18,847.08	12,486.28	88.72	98.34	-83.01	-6,261.84	1,621.24	622.11	437.31	184.81	3.366	
19,000.00	12,562.85	18,947.08	12,486.80	90.05	99.69	-82.98	-6,361.84	1,622.13	622.19	434.72	187.47	3.319	
19,100.00	12,563.72	19,047.08	12,487.33	91.39	101.03	-82.95	-6,461.83	1,623.03	622.27	432.14	190.14	3.273	
19,200.00	12,564.59	19,147.08	12,487.86	92.72	102.38	-82.92	-6,561.82	1,623.93	622.35	429.55	192.80	3.228	
19,300.00	12,565.47	19,247.08	12,488.38	94.05	103.73	-82.89	-6,661.82	1,624.83	622.43	426.96	195.47	3.184	
19,400.00	12,566.34	19,347.08	12,488.91	95.39	105.07	-82.85	-6,761.81	1,625.73	622.52	424.38	198.14	3.142	
19,500.00	12,567.21	19,447.08	12,489.43	96.72	106.42	-82.82	-6,861.81	1,626.63	622.60	421.79	200.81	3.100	
19,600.00	12,568.09	19,547.08	12,489.96	98.06	107.77	-82.79	-6,961.80	1,627.53	622.68	419.20	203.48	3.060	
19,700.00	12,568.96	19,647.08	12,490.49	99.40	109.12	-82.76	-7,061.79	1,628.43	622.76	416.61	206.15	3.021	
19,800.00	12,569.83	19,747.08	12,491.01	100.73	110.47	-82.73	-7,161.79	1,629.33	622.84	414.02	208.82	2.983	
19,900.00	12,570.71	19,847.08	12,491.54	102.07	111.82	-82.70	-7,261.78	1,630.23	622.92	411.43	211.49	2.945	
20,000.00	12,571.58	19,947.08	12,492.07	103.41	113.17	-82.67	-7,361.78	1,631.13	623.01	408.84	214.16	2.909	
20,100.00	12,572.46	20,047.08	12,492.59	104.75	114.53	-82.64	-7,461.77	1,632.03	623.09	406.25	216.84	2.874	
20,200.00	12,573.33	20,147.08	12,493.12	106.10	115.88	-82.60	-7,561.76	1,632.93	623.17	403.66	219.51	2.839	
20,300.00	12,574.20	20,247.08	12,493.64	107.44	117.23	-82.57	-7,661.76	1,633.83	623.25	401.07	222.18	2.805	
20,400.00	12,575.08	20,347.08	12,494.17	108.78	118.58	-82.54	-7,761.75	1,634.73	623.34	398.48	224.86	2.772	
20,500.00	12,575.95	20,447.07	12,494.70	110.12	119.94	-82.51	-7,861.75	1,635.63	623.42	395.89	227.53	2.740	
20,600.00	12,576.82	20,547.07	12,495.22	111.47	121.29	-82.48	-7,961.74	1,636.53	623.50	393.30	230.21	2.708	

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

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 213H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,700.00	12,577.70	20,647.07	12,495.75	112.81	122.64	-82.45	-8,061.73	1,637.42	623.59	390.71	232.88	2.678	
20,800.00	12,578.57	20,747.07	12,496.27	114.16	124.00	-82.42	-8,161.73	1,638.32	623.67	388.12	235.56	2.648	
20,900.00	12,579.44	20,847.07	12,496.80	115.51	125.35	-82.39	-8,261.72	1,639.22	623.75	385.52	238.23	2.618	
21,000.00	12,580.32	20,947.07	12,497.33	116.85	126.71	-82.36	-8,361.72	1,640.12	623.84	382.93	240.91	2.590	
21,100.00	12,581.19	21,047.07	12,497.85	118.20	128.06	-82.32	-8,461.71	1,641.02	623.92	380.34	243.58	2.561	
21,200.00	12,582.06	21,147.07	12,498.38	119.55	129.42	-82.29	-8,561.70	1,641.92	624.01	377.75	246.26	2.534	
21,300.00	12,582.94	21,247.07	12,498.91	120.89	130.77	-82.26	-8,661.70	1,642.82	624.09	375.16	248.93	2.507	
21,400.00	12,583.81	21,347.07	12,499.43	122.24	132.13	-82.23	-8,761.69	1,643.72	624.18	372.57	251.61	2.481	
21,500.00	12,584.69	21,447.07	12,499.96	123.59	133.48	-82.20	-8,861.68	1,644.62	624.26	369.97	254.29	2.455	
21,600.00	12,585.56	21,547.07	12,500.48	124.94	134.84	-82.17	-8,961.68	1,645.52	624.35	367.38	256.96	2.430	
21,700.00	12,586.43	21,647.07	12,501.01	126.29	136.20	-82.14	-9,061.67	1,646.42	624.43	364.79	259.64	2.405	
21,800.00	12,587.31	21,747.07	12,501.54	127.64	137.55	-82.11	-9,161.67	1,647.32	624.52	362.20	262.32	2.381	
21,900.00	12,588.18	21,847.07	12,502.06	128.99	138.91	-82.08	-9,261.66	1,648.22	624.60	359.61	264.99	2.357	
22,000.00	12,589.05	21,947.07	12,502.59	130.34	140.27	-82.04	-9,361.65	1,649.12	624.69	357.02	267.67	2.334	
22,100.00	12,589.93	22,047.06	12,503.12	131.70	141.63	-82.01	-9,461.65	1,650.02	624.78	354.43	270.35	2.311	
22,200.00	12,590.80	22,147.06	12,503.64	133.05	142.98	-81.98	-9,561.64	1,650.92	624.86	351.84	273.02	2.289	
22,300.00	12,591.67	22,247.06	12,504.17	134.40	144.34	-81.95	-9,661.64	1,651.82	624.95	349.25	275.70	2.267	
22,400.00	12,592.55	22,347.06	12,504.69	135.75	145.70	-81.92	-9,761.63	1,652.72	625.03	346.66	278.38	2.245	
22,500.00	12,593.42	22,447.06	12,505.22	137.11	147.06	-81.89	-9,861.62	1,653.61	625.12	344.07	281.06	2.224	
22,600.00	12,594.30	22,547.06	12,505.75	138.46	148.42	-81.86	-9,961.62	1,654.51	625.21	341.48	283.73	2.204	
22,700.00	12,595.17	22,647.06	12,506.27	139.81	149.78	-81.83	-10,061.61	1,655.41	625.30	338.89	286.41	2.183	
22,800.00	12,596.04	22,747.06	12,506.80	141.17	151.14	-81.80	-10,161.61	1,656.31	625.38	336.30	289.09	2.163	
22,875.30	12,596.70	22,822.36	12,507.19	142.19	152.15	-81.77	-10,236.90	1,656.99	625.45	334.38	291.07	2.149	ES, SF

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

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 214H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	1.00	0.50	0.50	74.03	671.00	2,344.00	2,438.15				
100.00	100.00	99.00	100.00	0.98	0.97	74.03	671.00	2,344.00	2,438.15	2,436.20	1.95	1,247.180	
200.00	200.00	199.00	200.00	1.56	1.56	74.03	671.00	2,344.00	2,438.15	2,435.03	3.12	782.402	
300.00	300.00	299.00	300.00	1.98	1.98	74.03	671.00	2,344.00	2,438.15	2,434.19	3.96	615.993	
400.00	400.00	365.27	366.27	2.33	2.26	74.03	670.81	2,344.52	2,438.83	2,434.26	4.57	533.290	
500.00	500.00	431.17	432.14	2.63	2.52	74.06	670.23	2,346.12	2,440.92	2,435.80	5.12	476.714	
600.00	600.00	500.00	500.91	2.91	2.77	74.10	669.21	2,348.92	2,444.40	2,438.77	5.63	434.192	
700.00	700.00	595.28	596.06	3.16	3.03	74.17	667.50	2,353.60	2,448.64	2,442.50	6.14	399.018	
800.00	800.00	695.14	695.78	3.40	3.28	74.24	665.72	2,358.52	2,452.88	2,446.26	6.62	370.277	
900.00	900.00	795.00	795.51	3.62	3.52	74.31	663.93	2,363.43	2,457.13	2,450.05	7.09	346.739	
1,000.00	1,000.00	894.87	895.24	3.76	3.75	-17.62	662.14	2,368.34	2,461.34	2,453.89	7.45	330.311	
1,100.00	1,099.98	994.80	995.03	4.00	3.97	-17.55	660.35	2,373.25	2,463.85	2,455.94	7.91	311.506	
1,200.00	1,199.88	1,094.79	1,094.88	4.24	4.19	-17.51	658.56	2,378.17	2,463.87	2,455.52	8.35	294.968	
1,300.00	1,299.63	1,194.75	1,194.71	4.46	4.40	-17.50	656.77	2,383.09	2,461.39	2,452.61	8.79	280.161	
1,400.00	1,399.25	1,294.67	1,294.49	4.60	4.61	-17.49	654.99	2,388.00	2,457.36	2,448.23	9.13	269.293	
1,500.00	1,498.87	1,394.58	1,394.27	4.78	4.81	-17.48	653.20	2,392.91	2,453.30	2,443.79	9.51	258.096	
1,600.00	1,598.49	1,494.50	1,494.05	4.96	5.02	-17.47	651.41	2,397.83	2,449.24	2,439.35	9.88	247.791	
1,700.00	1,698.11	1,573.71	1,573.11	5.14	5.19	-17.45	649.48	2,402.18	2,445.57	2,435.35	10.22	239.210	
1,800.00	1,797.73	1,651.36	1,650.51	5.32	5.37	-17.39	646.42	2,407.51	2,442.82	2,432.26	10.56	231.315	
1,900.00	1,897.34	1,728.92	1,727.70	5.49	5.54	-17.31	642.19	2,413.87	2,440.98	2,430.09	10.90	223.995	
2,000.00	1,996.96	1,800.00	1,798.28	5.67	5.71	-17.20	637.29	2,420.63	2,440.08	2,428.86	11.22	217.483	
2,047.15	2,043.93	1,842.78	1,840.70	5.76	5.79	-17.12	633.86	2,425.12	2,439.97	2,428.59	11.38	214.434	
2,100.00	2,096.58	1,883.75	1,881.24	5.85	5.87	-17.03	630.26	2,429.71	2,440.10	2,428.56	11.54	211.382	
2,200.00	2,196.20	1,983.07	1,979.47	6.04	6.05	-16.81	621.12	2,441.20	2,440.62	2,428.71	11.91	204.891	
2,300.00	2,295.72	2,082.61	2,077.91	6.23	6.25	-10.31	611.96	2,452.71	2,439.99	2,427.69	12.31	198.282	
2,400.00	2,394.97	2,182.04	2,176.25	6.43	6.44	-5.83	602.81	2,464.22	2,436.85	2,424.13	12.72	191.623	
2,500.00	2,493.89	2,281.30	2,274.43	6.64	6.64	-2.66	593.68	2,475.70	2,431.19	2,418.06	13.13	185.126	
2,600.00	2,592.40	2,380.32	2,372.36	6.85	6.84	-0.26	584.57	2,487.16	2,423.04	2,409.49	13.55	178.806	
2,700.00	2,690.45	2,479.04	2,469.99	7.07	7.03	1.66	575.48	2,498.58	2,412.40	2,398.43	13.97	172.666	
2,800.00	2,787.96	2,577.39	2,567.26	7.28	7.23	3.25	566.43	2,509.95	2,399.29	2,384.89	14.39	166.701	
2,900.00	2,884.87	2,675.29	2,664.08	7.49	7.43	4.61	557.42	2,521.28	2,383.73	2,368.92	14.81	160.933	
3,000.00	2,981.46	2,772.95	2,760.68	7.68	7.62	4.94	548.44	2,532.58	2,367.02	2,351.81	15.21	155.639	
3,100.00	3,078.05	2,870.62	2,857.27	7.87	7.82	5.27	539.45	2,543.88	2,350.39	2,334.79	15.61	150.595	
3,200.00	3,174.64	2,968.29	2,953.87	8.06	8.01	5.60	530.46	2,555.17	2,333.84	2,317.84	16.01	145.786	
3,300.00	3,271.24	3,065.95	3,050.46	8.26	8.21	5.94	521.48	2,566.47	2,317.38	2,300.96	16.41	141.198	
3,400.00	3,367.83	3,163.62	3,147.05	8.51	8.40	6.29	512.49	2,577.77	2,300.99	2,284.17	16.82	136.818	
3,500.00	3,464.42	3,261.29	3,243.65	8.80	8.60	6.64	503.50	2,589.07	2,284.69	2,267.46	17.23	132.635	
3,600.00	3,561.01	3,358.95	3,340.24	9.09	8.80	7.00	494.52	2,600.37	2,268.47	2,250.84	17.63	128.636	
3,700.00	3,657.60	3,456.62	3,436.83	9.38	8.99	7.36	485.53	2,611.67	2,252.35	2,234.30	18.05	124.812	
3,800.00	3,754.20	3,554.29	3,533.43	9.68	9.19	7.72	476.54	2,622.96	2,236.31	2,217.85	18.46	121.152	
3,900.00	3,850.79	3,651.95	3,630.02	9.98	9.39	8.09	467.56	2,634.26	2,220.36	2,201.49	18.87	117.647	
4,000.00	3,947.38	3,749.62	3,726.61	10.28	9.59	8.47	458.57	2,645.56	2,204.51	2,185.22	19.29	114.288	
4,100.00	4,043.97	3,847.29	3,823.21	10.59	9.78	8.85	449.58	2,656.86	2,188.76	2,169.05	19.71	111.068	
4,200.00	4,140.56	3,944.95	3,919.80	10.90	9.98	9.24	440.60	2,668.16	2,173.10	2,152.97	20.13	107.979	
4,300.00	4,237.16	4,042.62	4,016.40	11.21	10.18	9.63	431.61	2,679.46	2,157.54	2,137.00	20.55	105.013	
4,400.00	4,333.75	4,140.29	4,112.99	11.52	10.38	10.03	422.62	2,690.76	2,142.09	2,121.12	20.97	102.164	
4,500.00	4,430.34	4,237.95	4,209.58	11.84	10.58	10.43	413.64	2,702.05	2,126.74	2,105.35	21.39	99.427	
4,600.00	4,526.93	4,335.62	4,306.18	12.16	10.78	10.84	404.65	2,713.35	2,111.49	2,089.68	21.81	96.794	
4,700.00	4,623.53	4,433.29	4,402.77	12.48	10.98	11.25	395.66	2,724.65	2,096.36	2,074.12	22.24	94.261	
4,800.00	4,720.12	4,530.95	4,499.36	12.80	11.18	11.67	386.68	2,735.95	2,081.34	2,058.67	22.67	91.823	
4,900.00	4,816.71	4,628.62	4,595.96	13.12	11.38	12.10	377.69	2,747.25	2,066.43	2,043.33	23.10	89.475	
5,000.00	4,913.30	4,726.29	4,692.55	13.45	11.59	12.53	368.70	2,758.55	2,051.63	2,028.11	23.52	87.211	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 214H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,009.89	4,823.95	4,789.15	13.78	11.79	12.97	359.72	2,769.85	2,036.96	2,013.01	23.96	85.031	
5,200.00	5,106.49	4,921.62	4,885.74	14.10	11.99	13.42	350.73	2,781.14	2,022.41	1,998.02	24.39	82.927	
5,300.00	5,203.08	5,019.28	4,982.33	14.43	12.19	13.87	341.74	2,792.44	2,007.98	1,983.16	24.82	80.897	
5,400.00	5,299.67	5,116.95	5,078.93	14.75	12.40	14.32	332.76	2,803.74	1,993.69	1,968.45	25.25	78.970	
5,500.00	5,396.65	5,214.88	5,175.78	15.07	12.60	14.73	323.75	2,815.07	1,980.99	1,955.30	25.69	77.100	
5,600.00	5,494.23	5,313.19	5,273.01	15.36	12.81	15.13	314.70	2,826.44	1,970.93	1,944.79	26.14	75.408	
5,700.00	5,592.35	5,411.82	5,370.56	15.62	13.01	15.52	305.63	2,837.85	1,963.50	1,936.92	26.57	73.886	
5,800.00	5,690.94	5,513.98	5,471.59	15.86	13.23	15.92	296.23	2,849.66	1,958.69	1,931.67	27.02	72.501	
5,900.00	5,789.93	5,677.91	5,634.24	16.07	13.56	16.48	283.54	2,865.62	1,954.68	1,927.14	27.54	70.977	
6,000.00	5,889.26	5,842.60	5,798.36	16.25	13.85	16.87	275.17	2,876.14	1,949.93	1,921.94	28.00	69.642	
6,100.00	5,988.86	6,007.62	5,963.25	16.41	14.10	17.09	271.21	2,881.12	1,944.38	1,916.00	28.38	68.516	
6,200.00	6,088.66	6,133.03	6,088.66	16.53	14.15	17.14	270.87	2,881.55	1,938.60	1,910.02	28.58	67.831	
6,300.00	6,188.59	6,232.96	6,188.59	16.64	14.19	17.16	270.87	2,881.55	1,935.06	1,906.28	28.78	67.237	
6,400.00	6,288.58	6,332.95	6,288.58	16.71	14.23	89.59	270.87	2,881.55	1,934.02	1,905.12	28.90	66.912	
6,500.00	6,388.58	6,432.95	6,388.58	16.76	14.27	89.59	270.87	2,881.55	1,934.02	1,905.02	29.00	66.689	
6,600.00	6,488.58	6,532.95	6,488.58	16.82	14.30	89.59	270.87	2,881.55	1,934.02	1,904.92	29.10	66.466	
6,700.00	6,588.58	6,632.95	6,588.58	16.88	14.34	89.59	270.87	2,881.55	1,934.02	1,904.82	29.20	66.244	
6,800.00	6,688.58	6,732.95	6,688.58	16.94	14.38	89.59	270.87	2,881.55	1,934.02	1,904.73	29.29	66.022	
6,900.00	6,788.58	6,832.95	6,788.58	17.00	14.42	89.59	270.87	2,881.55	1,934.02	1,904.63	29.39	65.800	
7,000.00	6,888.58	6,932.95	6,888.58	17.05	14.46	89.59	270.87	2,881.55	1,934.02	1,904.53	29.49	65.578	
7,100.00	6,988.58	7,032.95	6,988.58	17.11	14.50	89.59	270.87	2,881.55	1,934.02	1,904.43	29.59	65.357	
7,200.00	7,088.58	7,132.95	7,088.58	17.17	14.54	89.59	270.87	2,881.55	1,934.02	1,904.33	29.69	65.136	
7,300.00	7,188.58	7,232.95	7,188.58	17.23	14.58	89.59	270.87	2,881.55	1,934.02	1,904.23	29.79	64.915	
7,400.00	7,288.58	7,332.95	7,288.58	17.29	14.62	89.59	270.87	2,881.55	1,934.02	1,904.12	29.89	64.694	
7,500.00	7,388.58	7,432.95	7,388.58	17.35	14.66	89.59	270.87	2,881.55	1,934.02	1,904.02	30.00	64.474	
7,600.00	7,488.58	7,532.95	7,488.58	17.41	14.71	89.59	270.87	2,881.55	1,934.02	1,903.92	30.10	64.254	
7,700.00	7,588.58	7,632.95	7,588.58	17.47	14.75	89.59	270.87	2,881.55	1,934.02	1,903.82	30.20	64.035	
7,800.00	7,688.58	7,732.95	7,688.58	17.53	14.79	89.59	270.87	2,881.55	1,934.02	1,903.71	30.31	63.816	
7,900.00	7,788.58	7,832.95	7,788.58	17.59	14.83	89.59	270.87	2,881.55	1,934.02	1,903.61	30.41	63.597	
8,000.00	7,888.58	7,932.95	7,888.58	17.65	14.88	89.59	270.87	2,881.55	1,934.02	1,903.50	30.52	63.379	
8,100.00	7,988.58	8,032.95	7,988.58	17.71	14.92	89.59	270.87	2,881.55	1,934.02	1,903.40	30.62	63.161	
8,200.00	8,088.58	8,132.95	8,088.58	17.77	14.96	89.59	270.87	2,881.55	1,934.02	1,903.29	30.73	62.944	
8,300.00	8,188.58	8,232.95	8,188.58	17.83	15.01	89.59	270.87	2,881.55	1,934.02	1,903.19	30.83	62.727	
8,400.00	8,288.58	8,332.95	8,288.58	17.89	15.05	89.59	270.87	2,881.55	1,934.02	1,903.08	30.94	62.511	
8,500.00	8,388.58	8,432.95	8,388.58	17.95	15.10	89.59	270.87	2,881.55	1,934.02	1,902.97	31.05	62.295	
8,600.00	8,488.58	8,532.95	8,488.58	18.02	15.14	89.59	270.87	2,881.55	1,934.02	1,902.87	31.15	62.080	
8,700.00	8,588.58	8,632.95	8,588.58	18.08	15.19	89.59	270.87	2,881.55	1,934.02	1,902.76	31.26	61.865	
8,800.00	8,688.58	8,732.95	8,688.58	18.14	15.23	89.59	270.87	2,881.55	1,934.02	1,902.65	31.37	61.651	
8,900.00	8,788.58	8,832.95	8,788.58	18.20	15.28	89.59	270.87	2,881.55	1,934.02	1,902.54	31.48	61.437	
9,000.00	8,888.58	8,932.95	8,888.58	18.26	15.33	89.59	270.87	2,881.55	1,934.02	1,902.43	31.59	61.224	
9,100.00	8,988.58	9,032.95	8,988.58	18.32	15.37	89.59	270.87	2,881.55	1,934.02	1,902.32	31.70	61.012	
9,200.00	9,088.58	9,132.95	9,088.58	18.39	15.42	89.59	270.87	2,881.55	1,934.02	1,902.21	31.81	60.800	
9,300.00	9,188.58	9,232.95	9,188.58	18.45	15.47	89.59	270.87	2,881.55	1,934.02	1,902.10	31.92	60.589	
9,400.00	9,288.58	9,332.95	9,288.58	18.51	15.51	89.59	270.87	2,881.55	1,934.02	1,901.99	32.03	60.378	
9,500.00	9,388.58	9,432.95	9,388.58	18.57	15.56	89.59	270.87	2,881.55	1,934.02	1,901.88	32.14	60.168	
9,600.00	9,488.58	9,532.95	9,488.58	18.64	15.61	89.59	270.87	2,881.55	1,934.02	1,901.76	32.26	59.959	
9,700.00	9,588.58	9,632.95	9,588.58	18.70	15.66	89.59	270.87	2,881.55	1,934.02	1,901.65	32.37	59.751	
9,800.00	9,688.58	9,732.95	9,688.58	18.76	15.70	89.59	270.87	2,881.55	1,934.02	1,901.54	32.48	59.543	
9,900.00	9,788.58	9,832.95	9,788.58	18.83	15.75	89.59	270.87	2,881.55	1,934.02	1,901.42	32.59	59.335	
10,000.00	9,888.58	9,932.95	9,888.58	18.89	15.80	89.59	270.87	2,881.55	1,934.02	1,901.31	32.71	59.129	
10,100.00	9,988.58	10,032.95	9,988.58	18.95	15.85	89.59	270.87	2,881.55	1,934.02	1,901.20	32.82	58.923	
10,200.00	10,088.58	10,132.95	10,088.58	19.02	15.90	89.59	270.87	2,881.55	1,934.02	1,901.08	32.94	58.718	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 214H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,188.58	10,232.95	10,188.58	19.08	15.95	89.59	270.87	2,881.55	1,934.02	1,900.97	33.05	58.513	
10,400.00	10,288.58	10,332.95	10,288.58	19.15	16.00	89.59	270.87	2,881.55	1,934.02	1,900.85	33.17	58.310	
10,500.00	10,388.58	10,432.95	10,388.58	19.21	16.05	89.59	270.87	2,881.55	1,934.02	1,900.74	33.28	58.106	
10,600.00	10,488.58	10,532.95	10,488.58	19.27	16.10	89.59	270.87	2,881.55	1,934.02	1,900.62	33.40	57.904	
10,700.00	10,588.58	10,632.95	10,588.58	19.34	16.15	89.59	270.87	2,881.55	1,934.02	1,900.50	33.52	57.703	
10,800.00	10,688.58	10,732.95	10,688.58	19.40	16.20	89.59	270.87	2,881.55	1,934.02	1,900.39	33.63	57.502	
10,900.00	10,788.58	10,832.95	10,788.58	19.47	16.26	89.59	270.87	2,881.55	1,934.02	1,900.27	33.75	57.302	
11,000.00	10,888.58	10,932.95	10,888.58	19.53	16.31	89.59	270.87	2,881.55	1,934.02	1,900.15	33.87	57.102	
11,100.00	10,988.58	11,032.95	10,988.58	19.60	16.36	89.59	270.87	2,881.55	1,934.02	1,900.03	33.99	56.904	
11,200.00	11,088.58	11,132.95	11,088.58	19.66	16.41	89.59	270.87	2,881.55	1,934.02	1,899.91	34.11	56.706	
11,300.00	11,188.58	11,232.95	11,188.58	19.73	16.46	89.59	270.87	2,881.55	1,934.02	1,899.79	34.23	56.509	
11,400.00	11,288.58	11,332.95	11,288.58	19.79	16.52	89.59	270.87	2,881.55	1,934.02	1,899.67	34.34	56.313	
11,500.00	11,388.58	11,432.95	11,388.58	19.86	16.57	89.59	270.87	2,881.55	1,934.02	1,899.56	34.46	56.117	
11,600.00	11,488.58	11,532.95	11,488.58	19.92	16.62	89.59	270.87	2,881.55	1,934.02	1,899.44	34.58	55.922	
11,700.00	11,588.58	11,632.95	11,588.58	19.99	16.68	89.59	270.87	2,881.55	1,934.02	1,899.31	34.70	55.728	
11,800.00	11,688.58	11,732.95	11,688.58	20.05	16.73	89.59	270.87	2,881.55	1,934.02	1,899.19	34.83	55.535	
11,900.00	11,788.58	11,832.95	11,788.58	20.12	16.78	89.59	270.87	2,881.55	1,934.02	1,899.08	34.94	55.349	
11,901.48	11,790.06	11,834.43	11,790.06	20.12	16.78	89.59	270.87	2,881.55	1,934.02	1,899.08	34.94	55.347	CC
12,000.00	11,888.58	11,932.45	11,888.00	20.19	16.82	89.66	268.41	2,881.57	1,934.03	1,898.98	35.05	55.186	
12,100.00	11,988.51	12,029.00	11,982.93	20.25	16.94	-89.40	251.44	2,881.73	1,934.14	1,899.00	35.14	55.044	
12,200.00	12,086.82	12,122.72	12,071.10	20.31	17.13	-88.91	219.96	2,882.01	1,934.40	1,899.17	35.23	54.904	
12,300.00	12,180.57	12,214.23	12,151.12	20.35	17.38	-88.46	175.77	2,882.41	1,934.78	1,899.42	35.36	54.714	
12,400.00	12,266.93	12,303.86	12,221.71	20.39	17.72	-88.05	120.69	2,882.91	1,935.23	1,899.67	35.55	54.433	
12,500.00	12,343.26	12,391.95	12,281.89	20.44	18.15	-87.70	56.48	2,883.50	1,935.70	1,899.85	35.84	54.003	
12,600.00	12,407.24	12,478.82	12,330.92	20.52	18.66	-87.41	-15.12	2,884.15	1,936.14	1,899.87	36.27	53.378	
12,700.00	12,456.94	12,564.77	12,368.24	20.67	19.25	-87.20	-92.46	2,884.85	1,936.52	1,899.66	36.87	52.530	
12,800.00	12,490.84	12,650.00	12,393.41	20.88	19.90	-87.05	-173.79	2,885.59	1,936.80	1,899.16	37.64	51.457	
12,900.00	12,507.91	12,735.07	12,406.25	21.18	20.62	-86.98	-257.81	2,886.35	1,936.95	1,898.35	38.60	50.181	
13,000.00	12,510.43	12,827.71	12,408.22	21.56	21.45	-86.98	-350.40	2,887.20	1,937.01	1,897.25	39.76	48.713	
13,100.00	12,511.30	12,927.71	12,408.74	22.01	22.40	-86.97	-450.40	2,888.10	1,937.08	1,895.95	41.13	47.096	
13,200.00	12,512.18	13,027.71	12,409.27	22.52	23.38	-86.96	-550.39	2,889.01	1,937.14	1,894.52	42.63	45.444	
13,300.00	12,513.05	13,127.71	12,409.79	23.10	24.40	-86.94	-650.38	2,889.92	1,937.21	1,892.97	44.24	43.787	
13,400.00	12,513.92	13,227.71	12,410.32	23.73	25.45	-86.93	-750.38	2,890.83	1,937.27	1,891.31	45.96	42.149	
13,500.00	12,514.80	13,327.71	12,410.84	24.41	26.52	-86.92	-850.37	2,891.74	1,937.34	1,889.56	47.78	40.548	
13,600.00	12,515.67	13,427.71	12,411.37	25.15	27.62	-86.91	-950.36	2,892.65	1,937.41	1,887.73	49.68	38.997	
13,700.00	12,516.55	13,527.71	12,411.89	25.93	28.74	-86.90	-1,050.36	2,893.56	1,937.47	1,885.81	51.66	37.505	
13,800.00	12,517.42	13,627.71	12,412.42	26.76	29.88	-86.89	-1,150.35	2,894.46	1,937.54	1,883.83	53.70	36.078	
13,900.00	12,518.29	13,727.71	12,412.94	27.63	31.04	-86.88	-1,250.35	2,895.37	1,937.61	1,881.79	55.81	34.717	
14,000.00	12,519.17	13,827.71	12,413.47	28.53	32.21	-86.87	-1,350.34	2,896.28	1,937.67	1,879.70	57.97	33.425	
14,100.00	12,520.04	13,927.71	12,413.99	29.47	33.40	-86.86	-1,450.33	2,897.19	1,937.74	1,877.56	60.18	32.199	
14,200.00	12,520.91	14,027.70	12,414.52	30.44	34.60	-86.85	-1,550.33	2,898.10	1,937.81	1,875.37	62.43	31.040	
14,300.00	12,521.79	14,127.70	12,415.04	31.44	35.81	-86.84	-1,650.32	2,899.01	1,937.87	1,873.15	64.72	29.943	
14,400.00	12,522.66	14,227.70	12,415.57	32.46	37.03	-86.83	-1,750.32	2,899.92	1,937.94	1,870.89	67.04	28.906	
14,500.00	12,523.53	14,327.70	12,416.09	33.51	38.26	-86.82	-1,850.31	2,900.83	1,938.01	1,868.61	69.40	27.926	
14,600.00	12,524.41	14,427.70	12,416.62	34.58	39.50	-86.81	-1,950.30	2,901.73	1,938.07	1,866.29	71.78	27.000	
14,700.00	12,525.28	14,527.70	12,417.14	35.67	40.75	-86.80	-2,050.30	2,902.64	1,938.14	1,863.95	74.19	26.125	
14,800.00	12,526.16	14,627.70	12,417.67	36.78	42.00	-86.79	-2,150.29	2,903.55	1,938.21	1,861.59	76.62	25.297	
14,900.00	12,527.03	14,727.70	12,418.19	37.90	43.26	-86.78	-2,250.28	2,904.46	1,938.27	1,859.20	79.07	24.514	
15,000.00	12,527.90	14,827.70	12,418.72	39.04	44.53	-86.77	-2,350.28	2,905.37	1,938.34	1,856.80	81.54	23.772	
15,100.00	12,528.78	14,927.70	12,419.24	40.20	45.81	-86.76	-2,450.27	2,906.28	1,938.41	1,854.38	84.02	23.070	
15,200.00	12,529.65	15,027.70	12,419.77	41.37	47.08	-86.75	-2,550.27	2,907.19	1,938.47	1,851.95	86.52	22.404	
15,300.00	12,530.52	15,127.70	12,420.29	42.55	48.37	-86.74	-2,650.26	2,908.09	1,938.54	1,849.50	89.04	21.772	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 214H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	12,531.40	15,227.70	12,420.82	43.74	49.65	-86.73	-2,750.25	2,909.00	1,938.61	1,847.04	91.57	21.171	
15,500.00	12,532.27	15,327.70	12,421.34	44.94	50.95	-86.72	-2,850.25	2,909.91	1,938.68	1,844.57	94.11	20.600	
15,600.00	12,533.14	15,427.70	12,421.87	46.15	52.24	-86.71	-2,950.24	2,910.82	1,938.74	1,842.08	96.66	20.057	
15,700.00	12,534.02	15,527.70	12,422.39	47.37	53.54	-86.70	-3,050.24	2,911.73	1,938.81	1,839.59	99.22	19.540	
15,800.00	12,534.89	15,627.69	12,422.92	48.59	54.84	-86.69	-3,150.23	2,912.64	1,938.88	1,837.09	101.79	19.048	
15,900.00	12,535.76	15,727.69	12,423.44	49.83	56.15	-86.68	-3,250.22	2,913.55	1,938.95	1,834.58	104.37	18.578	
16,000.00	12,536.64	15,827.69	12,423.97	51.07	57.46	-86.67	-3,350.22	2,914.46	1,939.01	1,832.06	106.96	18.129	
16,100.00	12,537.51	15,927.69	12,424.49	52.32	58.77	-86.66	-3,450.21	2,915.36	1,939.08	1,829.53	109.55	17.700	
16,200.00	12,538.39	16,027.69	12,425.02	53.57	60.08	-86.65	-3,550.21	2,916.27	1,939.15	1,827.00	112.15	17.291	
16,300.00	12,539.26	16,127.69	12,425.54	54.83	61.40	-86.64	-3,650.20	2,917.18	1,939.22	1,824.46	114.76	16.898	
16,400.00	12,540.13	16,227.69	12,426.07	56.09	62.72	-86.63	-3,750.19	2,918.09	1,939.28	1,821.91	117.37	16.523	
16,500.00	12,541.01	16,327.69	12,426.59	57.36	64.04	-86.62	-3,850.19	2,919.00	1,939.35	1,819.36	119.99	16.163	
16,600.00	12,541.88	16,427.69	12,427.12	58.64	65.36	-86.61	-3,950.18	2,919.91	1,939.42	1,816.81	122.61	15.817	
16,700.00	12,542.75	16,527.69	12,427.64	59.91	66.68	-86.60	-4,050.17	2,920.82	1,939.49	1,814.25	125.24	15.486	
16,800.00	12,543.63	16,627.69	12,428.17	61.20	68.01	-86.59	-4,150.17	2,921.72	1,939.56	1,811.68	127.87	15.168	
16,900.00	12,544.50	16,727.69	12,428.69	62.48	69.33	-86.58	-4,250.16	2,922.63	1,939.62	1,809.11	130.51	14.862	
17,000.00	12,545.37	16,827.69	12,429.22	63.77	70.66	-86.57	-4,350.16	2,923.54	1,939.69	1,806.54	133.15	14.568	
17,100.00	12,546.25	16,927.69	12,429.74	65.06	71.99	-86.56	-4,450.15	2,924.45	1,939.76	1,803.96	135.80	14.284	
17,200.00	12,547.12	17,027.69	12,430.27	66.36	73.33	-86.55	-4,550.14	2,925.36	1,939.83	1,801.38	138.44	14.012	
17,300.00	12,547.99	17,127.69	12,430.79	67.66	74.66	-86.54	-4,650.14	2,926.27	1,939.90	1,798.80	141.10	13.749	
17,400.00	12,548.87	17,227.68	12,431.32	68.96	75.99	-86.53	-4,750.13	2,927.18	1,939.97	1,796.22	143.75	13.495	
17,500.00	12,549.74	17,327.68	12,431.84	70.26	77.33	-86.52	-4,850.13	2,928.09	1,940.04	1,793.63	146.41	13.251	
17,600.00	12,550.62	17,427.68	12,432.37	71.57	78.67	-86.51	-4,950.12	2,928.99	1,940.10	1,791.03	149.07	13.015	
17,700.00	12,551.49	17,527.68	12,432.89	72.88	80.00	-86.50	-5,050.11	2,929.90	1,940.17	1,788.44	151.73	12.787	
17,800.00	12,552.36	17,627.68	12,433.42	74.19	81.34	-86.49	-5,150.11	2,930.81	1,940.24	1,785.84	154.40	12.567	
17,900.00	12,553.24	17,727.68	12,433.94	75.50	82.68	-86.48	-5,250.10	2,931.72	1,940.31	1,783.25	157.06	12.354	
18,000.00	12,554.11	17,827.68	12,434.47	76.81	84.02	-86.47	-5,350.10	2,932.63	1,940.38	1,780.64	159.73	12.148	
18,100.00	12,554.98	17,927.68	12,434.99	78.13	85.37	-86.45	-5,450.09	2,933.54	1,940.45	1,778.04	162.41	11.948	
18,200.00	12,555.86	18,027.68	12,435.52	79.45	86.71	-86.44	-5,550.08	2,934.45	1,940.52	1,775.44	165.08	11.755	
18,300.00	12,556.73	18,127.68	12,436.04	80.77	88.05	-86.43	-5,650.08	2,935.35	1,940.59	1,772.83	167.76	11.568	
18,400.00	12,557.60	18,227.68	12,436.57	82.09	89.40	-86.42	-5,750.07	2,936.26	1,940.65	1,770.22	170.43	11.387	
18,500.00	12,558.48	18,327.68	12,437.09	83.42	90.74	-86.41	-5,850.06	2,937.17	1,940.72	1,767.61	173.11	11.211	
18,600.00	12,559.35	18,427.68	12,437.62	84.74	92.09	-86.40	-5,950.06	2,938.08	1,940.79	1,765.00	175.80	11.040	
18,700.00	12,560.23	18,527.68	12,438.14	86.07	93.43	-86.39	-6,050.05	2,938.99	1,940.86	1,762.38	178.48	10.875	
18,800.00	12,561.10	18,627.68	12,438.67	87.40	94.78	-86.38	-6,150.05	2,939.90	1,940.93	1,759.77	181.16	10.714	
18,900.00	12,561.97	18,727.68	12,439.19	88.72	96.13	-86.37	-6,250.04	2,940.81	1,941.00	1,757.15	183.85	10.558	
19,000.00	12,562.85	18,827.67	12,439.72	90.05	97.47	-86.36	-6,350.03	2,941.72	1,941.07	1,754.54	186.53	10.406	
19,100.00	12,563.72	18,927.67	12,440.24	91.39	98.82	-86.35	-6,450.03	2,942.62	1,941.14	1,751.92	189.22	10.258	
19,200.00	12,564.59	19,027.67	12,440.77	92.72	100.17	-86.34	-6,550.02	2,943.53	1,941.21	1,749.30	191.91	10.115	
19,300.00	12,565.47	19,127.67	12,441.29	94.05	101.52	-86.33	-6,650.02	2,944.44	1,941.28	1,746.68	194.60	9.976	
19,400.00	12,566.34	19,227.67	12,441.82	95.39	102.87	-86.32	-6,750.01	2,945.35	1,941.35	1,744.05	197.29	9.840	
19,500.00	12,567.21	19,327.67	12,442.34	96.72	104.22	-86.31	-6,850.00	2,946.26	1,941.42	1,741.43	199.99	9.708	
19,600.00	12,568.09	19,427.67	12,442.87	98.06	105.58	-86.30	-6,950.00	2,947.17	1,941.49	1,738.81	202.68	9.579	
19,700.00	12,568.96	19,527.67	12,443.39	99.40	106.93	-86.29	-7,049.99	2,948.08	1,941.56	1,736.18	205.38	9.454	
19,800.00	12,569.83	19,627.67	12,443.92	100.73	108.28	-86.28	-7,149.98	2,948.98	1,941.63	1,733.56	208.07	9.332	
19,900.00	12,570.71	19,727.67	12,444.44	102.07	109.63	-86.27	-7,249.98	2,949.89	1,941.70	1,730.93	210.77	9.212	
20,000.00	12,571.58	19,827.67	12,444.97	103.41	110.98	-86.26	-7,349.97	2,950.80	1,941.77	1,728.30	213.47	9.096	
20,100.00	12,572.46	19,927.67	12,445.49	104.75	112.34	-86.25	-7,449.97	2,951.71	1,941.84	1,725.67	216.16	8.983	
20,200.00	12,573.33	20,027.67	12,446.02	106.10	113.69	-86.24	-7,549.96	2,952.62	1,941.91	1,723.05	218.86	8.873	
20,300.00	12,574.20	20,127.67	12,446.54	107.44	115.05	-86.23	-7,649.95	2,953.53	1,941.98	1,720.42	221.56	8.765	
20,400.00	12,575.08	20,227.67	12,447.07	108.78	116.40	-86.22	-7,749.95	2,954.44	1,942.05	1,717.78	224.26	8.660	
20,500.00	12,575.95	20,327.67	12,447.59	110.12	117.76	-86.21	-7,849.94	2,955.34	1,942.12	1,715.15	226.97	8.557	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 214H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,576.82	20,427.66	12,448.11	111.47	119.11	-86.20	-7,949.94	2,956.25	1,942.19	1,712.52	229.67	8.456	
20,700.00	12,577.70	20,527.66	12,448.64	112.81	120.47	-86.19	-8,049.93	2,957.16	1,942.26	1,709.89	232.37	8.358	
20,800.00	12,578.57	20,627.66	12,449.16	114.16	121.82	-86.18	-8,149.92	2,958.07	1,942.33	1,707.26	235.07	8.263	
20,900.00	12,579.44	20,727.66	12,449.69	115.51	123.18	-86.17	-8,249.92	2,958.98	1,942.40	1,704.62	237.78	8.169	
21,000.00	12,580.32	20,827.66	12,450.21	116.85	124.53	-86.16	-8,349.91	2,959.89	1,942.47	1,701.99	240.48	8.077	
21,100.00	12,581.19	20,927.66	12,450.74	118.20	125.89	-86.15	-8,449.91	2,960.80	1,942.54	1,699.36	243.19	7.988	
21,200.00	12,582.06	21,027.66	12,451.26	119.55	127.25	-86.14	-8,549.90	2,961.71	1,942.61	1,696.72	245.89	7.900	
21,300.00	12,582.94	21,127.66	12,451.79	120.89	128.60	-86.13	-8,649.89	2,962.61	1,942.69	1,694.09	248.60	7.814	
21,400.00	12,583.81	21,227.66	12,452.31	122.24	129.96	-86.12	-8,749.89	2,963.52	1,942.76	1,691.45	251.31	7.731	
21,500.00	12,584.69	21,327.66	12,452.84	123.59	131.32	-86.11	-8,849.88	2,964.43	1,942.83	1,688.81	254.01	7.648	
21,600.00	12,585.56	21,427.66	12,453.36	124.94	132.68	-86.10	-8,949.87	2,965.34	1,942.90	1,686.18	256.72	7.568	
21,700.00	12,586.43	21,527.66	12,453.89	126.29	134.04	-86.09	-9,049.87	2,966.25	1,942.97	1,683.54	259.43	7.489	
21,800.00	12,587.31	21,627.66	12,454.41	127.64	135.39	-86.08	-9,149.86	2,967.16	1,943.04	1,680.90	262.14	7.412	
21,900.00	12,588.18	21,727.66	12,454.94	128.99	136.75	-86.07	-9,249.86	2,968.07	1,943.11	1,678.26	264.85	7.337	
22,000.00	12,589.05	21,827.66	12,455.46	130.34	138.11	-86.06	-9,349.85	2,968.97	1,943.18	1,675.63	267.56	7.263	
22,100.00	12,589.93	21,927.66	12,455.99	131.70	139.47	-86.05	-9,449.84	2,969.88	1,943.26	1,672.99	270.27	7.190	
22,200.00	12,590.80	22,027.66	12,456.51	133.05	140.83	-86.04	-9,549.84	2,970.79	1,943.33	1,670.35	272.98	7.119	
22,300.00	12,591.67	22,127.65	12,457.04	134.40	142.19	-86.03	-9,649.83	2,971.70	1,943.40	1,667.71	275.69	7.049	
22,400.00	12,592.55	22,227.65	12,457.56	135.75	143.55	-86.02	-9,749.83	2,972.61	1,943.47	1,665.07	278.40	6.981	
22,500.00	12,593.42	22,327.65	12,458.09	137.11	144.91	-86.01	-9,849.82	2,973.52	1,943.54	1,662.43	281.11	6.914	
22,600.00	12,594.30	22,427.65	12,458.61	138.46	146.27	-86.00	-9,949.81	2,974.43	1,943.61	1,659.79	283.82	6.848	
22,700.00	12,595.17	22,527.65	12,459.14	139.81	147.63	-85.99	-10,049.81	2,975.34	1,943.68	1,657.15	286.53	6.783	
22,800.00	12,596.04	22,627.65	12,459.66	141.17	148.99	-85.98	-10,149.80	2,976.24	1,943.76	1,654.51	289.25	6.720	
22,875.30	12,596.70	22,702.95	12,460.06	142.19	150.01	-85.97	-10,225.10	2,976.93	1,943.81	1,652.52	291.29	6.673	ES, SF

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

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 215H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	1.00	0.50	0.50	180.00	-185.00	0.00	185.00				
100.00	100.00	99.00	100.00	0.98	0.97	180.00	-185.00	0.00	185.00	183.05	1.95	94.633	
200.00	200.00	199.00	200.00	1.56	1.56	180.00	-185.00	0.00	185.00	181.88	3.12	59.366	
300.00	300.00	299.00	300.00	1.98	1.98	180.00	-185.00	0.00	185.00	181.04	3.96	46.740	
400.00	400.00	402.75	403.74	2.33	2.42	-179.72	-183.95	-0.90	183.99	179.28	4.72	39.012	
500.00	500.00	506.39	507.29	2.63	2.81	-178.85	-180.77	-3.63	180.96	175.58	5.37	33.684	
600.00	600.00	609.72	610.38	2.91	3.13	-177.33	-175.48	-8.18	175.98	170.04	5.94	29.630	
700.00	700.00	710.13	710.42	3.16	3.29	-175.32	-168.90	-13.84	169.79	163.45	6.34	26.787	
800.00	800.00	809.75	809.66	3.40	3.54	-173.15	-162.32	-19.50	163.77	156.95	6.82	24.019	
900.00	900.00	909.37	908.90	3.62	3.78	-170.82	-155.74	-25.16	158.01	150.73	7.27	21.723	
1,000.00	1,000.00	1,008.99	1,008.13	3.76	4.01	99.71	-149.15	-30.82	152.53	144.90	7.63	19.985	
1,100.00	1,099.98	1,108.48	1,107.25	4.00	4.24	103.14	-142.58	-36.48	147.76	139.73	8.04	18.387	
1,200.00	1,199.88	1,207.83	1,206.22	4.24	4.47	107.75	-136.01	-42.12	144.31	135.88	8.43	17.113	
1,300.00	1,299.63	1,308.27	1,306.13	4.46	4.73	114.06	-128.27	-48.78	142.27	133.45	8.82	16.130	
1,365.32	1,364.71	1,373.26	1,370.63	4.55	4.90	119.05	-122.21	-53.99	141.86	132.82	9.04	15.689	CC, ES
1,400.00	1,399.25	1,407.56	1,404.61	4.60	4.98	121.92	-118.67	-57.04	142.08	132.93	9.15	15.526	
1,500.00	1,498.87	1,505.49	1,501.49	4.78	5.12	130.29	-107.77	-66.41	144.35	134.88	9.47	15.242	
1,600.00	1,598.49	1,603.14	1,598.06	4.96	5.33	138.27	-96.82	-75.82	149.69	139.82	9.88	15.157	
1,700.00	1,698.11	1,700.80	1,694.64	5.14	5.54	145.59	-85.88	-85.24	157.82	147.53	10.29	15.340	
1,800.00	1,797.73	1,798.45	1,791.22	5.32	5.75	152.12	-74.93	-94.65	168.33	157.63	10.70	15.728	
1,900.00	1,897.34	1,896.10	1,887.80	5.49	5.96	157.85	-63.98	-104.06	180.81	169.69	11.12	16.266	
2,000.00	1,996.96	1,993.75	1,984.37	5.67	6.17	162.81	-53.04	-113.48	194.88	183.35	11.53	16.909	
2,100.00	2,096.58	2,091.40	2,080.95	5.85	6.37	167.10	-42.09	-122.89	210.21	198.28	11.93	17.620	
2,200.00	2,196.20	2,189.05	2,177.53	6.04	6.58	170.79	-31.14	-132.30	226.57	214.23	12.34	18.363	
2,300.00	2,295.72	2,286.56	2,273.96	6.23	6.78	-179.74	-20.21	-141.70	244.83	232.08	12.75	19.204	
2,400.00	2,394.97	2,383.71	2,370.05	6.43	6.99	-172.96	-9.32	-151.07	266.01	252.84	13.17	20.201	
2,500.00	2,493.89	2,480.44	2,465.71	6.64	7.19	-168.07	1.52	-160.39	289.85	276.27	13.58	21.338	
2,600.00	2,592.40	2,576.68	2,560.90	6.85	7.39	-164.45	12.31	-169.67	316.15	302.16	13.99	22.591	
2,700.00	2,690.45	2,672.36	2,655.53	7.07	7.59	-161.74	23.04	-178.90	344.77	330.37	14.40	23.939	
2,800.00	2,787.96	2,767.43	2,749.55	7.28	7.79	-159.70	33.69	-188.06	375.61	360.81	14.81	25.367	
2,900.00	2,884.87	2,861.81	2,842.90	7.49	7.98	-158.18	44.27	-197.16	408.61	393.40	15.21	26.866	
3,000.00	2,981.46	2,955.84	2,935.89	7.68	8.18	-158.05	54.82	-206.22	442.63	427.05	15.59	28.394	
3,100.00	3,078.05	3,049.87	3,028.89	7.87	8.37	-157.94	65.36	-215.29	476.66	460.69	15.97	29.844	
3,200.00	3,174.64	3,143.90	3,121.88	8.06	8.56	-157.84	75.90	-224.35	510.69	494.34	16.36	31.222	
3,300.00	3,271.24	3,237.92	3,214.88	8.26	8.76	-157.75	86.44	-233.42	544.73	527.98	16.74	32.531	
3,400.00	3,367.83	3,331.95	3,307.87	8.51	8.95	-157.68	96.98	-242.48	578.76	561.62	17.14	33.776	
3,500.00	3,464.42	3,425.98	3,400.87	8.80	9.15	-157.61	107.52	-251.54	612.79	595.27	17.53	34.962	
3,600.00	3,561.01	3,520.01	3,493.86	9.09	9.34	-157.55	118.06	-260.61	646.83	628.91	17.92	36.091	
3,700.00	3,657.60	3,614.04	3,586.86	9.38	9.53	-157.49	128.60	-269.67	680.86	662.55	18.32	37.168	
3,800.00	3,754.20	3,708.06	3,679.85	9.68	9.73	-157.44	139.14	-278.74	714.90	696.18	18.72	38.196	
3,900.00	3,850.79	3,802.09	3,772.84	9.98	9.92	-157.40	149.68	-287.80	748.94	729.82	19.12	39.178	
4,000.00	3,947.38	3,896.12	3,865.84	10.28	10.11	-157.36	160.22	-296.87	782.97	763.45	19.52	40.116	
4,100.00	4,043.97	3,990.15	3,958.83	10.59	10.31	-157.32	170.76	-305.93	817.01	797.09	19.92	41.013	
4,200.00	4,140.56	4,084.18	4,051.83	10.90	10.50	-157.29	181.30	-315.00	851.05	830.72	20.33	41.871	
4,300.00	4,237.16	4,178.20	4,144.82	11.21	10.69	-157.25	191.84	-324.06	885.08	864.35	20.73	42.694	
4,400.00	4,333.75	4,272.23	4,237.82	11.52	10.88	-157.22	202.38	-333.12	919.12	897.98	21.14	43.482	
4,500.00	4,430.34	4,366.26	4,330.81	11.84	11.08	-157.20	212.92	-342.19	953.16	931.61	21.54	44.243	
4,600.00	4,526.93	4,474.63	4,438.11	12.16	11.30	-157.20	224.47	-352.11	986.73	964.72	22.01	44.836	
4,700.00	4,623.53	4,591.03	4,553.76	12.48	11.54	-157.35	234.38	-360.64	1,018.38	995.89	22.49	45.286	
4,800.00	4,720.12	4,708.90	4,671.23	12.80	11.78	-157.63	241.69	-366.93	1,047.99	1,025.04	22.94	45.675	
4,900.00	4,816.71	4,828.04	4,790.21	13.12	11.99	-158.04	246.29	-370.88	1,075.53	1,052.16	23.37	46.026	
5,000.00	4,913.30	4,948.23	4,910.38	13.45	12.16	-158.57	248.07	-372.41	1,101.02	1,077.28	23.74	46.387	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 215H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,009.89	5,047.75	5,009.89	13.78	12.23	-159.07	248.09	-372.43	1,125.28	1,101.26	24.01	46.859	
5,200.00	5,106.49	5,144.34	5,106.49	14.10	12.31	-159.53	248.09	-372.43	1,149.59	1,125.28	24.31	47.295	
5,300.00	5,203.08	5,240.93	5,203.08	14.43	12.39	-159.97	248.09	-372.43	1,173.97	1,149.37	24.60	47.722	
5,400.00	5,299.67	5,337.53	5,299.67	14.75	12.47	-160.40	248.09	-372.43	1,198.41	1,173.52	24.88	48.160	
5,500.00	5,396.65	5,434.50	5,396.65	15.07	12.54	-160.90	248.09	-372.43	1,221.50	1,196.31	25.19	48.496	
5,600.00	5,494.23	5,532.08	5,494.23	15.36	12.62	-161.33	248.09	-372.43	1,242.23	1,216.74	25.49	48.739	
5,700.00	5,592.35	5,630.20	5,592.35	15.62	12.70	-161.70	248.09	-372.43	1,260.55	1,234.77	25.78	48.893	
5,800.00	5,690.94	5,728.79	5,690.94	15.86	12.79	-162.01	248.09	-372.43	1,276.46	1,250.39	26.07	48.960	
5,900.00	5,789.93	5,827.79	5,789.93	16.07	12.87	-162.26	248.09	-372.43	1,289.92	1,263.56	26.35	48.945	
6,000.00	5,889.26	5,927.12	5,889.26	16.25	12.95	-162.47	248.09	-372.43	1,300.91	1,274.28	26.63	48.852	
6,100.00	5,988.86	6,026.71	5,988.86	16.41	13.03	-162.62	248.09	-372.43	1,309.43	1,282.53	26.90	48.684	
6,200.00	6,088.66	6,126.51	6,088.66	16.53	13.11	-162.73	248.09	-372.43	1,315.46	1,288.31	27.15	48.447	
6,300.00	6,188.59	6,226.44	6,188.59	16.64	13.19	-162.80	248.09	-372.43	1,319.00	1,291.60	27.39	48.149	
6,400.00	6,288.58	6,326.43	6,288.58	16.71	13.27	-90.39	248.09	-372.43	1,320.04	1,292.48	27.56	47.896	
6,500.00	6,388.58	6,426.43	6,388.58	16.76	13.36	-90.39	248.09	-372.43	1,320.04	1,292.34	27.70	47.655	
6,600.00	6,488.58	6,526.43	6,488.58	16.82	13.44	-90.39	248.09	-372.43	1,320.04	1,292.20	27.84	47.416	
6,700.00	6,588.58	6,626.43	6,588.58	16.88	13.52	-90.39	248.09	-372.43	1,320.04	1,292.06	27.98	47.179	
6,800.00	6,688.58	6,726.43	6,688.58	16.94	13.60	-90.39	248.09	-372.43	1,320.04	1,291.92	28.12	46.945	
6,900.00	6,788.58	6,826.43	6,788.58	17.00	13.68	-90.39	248.09	-372.43	1,320.04	1,291.78	28.26	46.712	
7,000.00	6,888.58	6,926.43	6,888.58	17.05	13.77	-90.39	248.09	-372.43	1,320.04	1,291.64	28.40	46.481	
7,100.00	6,988.58	7,026.43	6,988.58	17.11	13.85	-90.39	248.09	-372.43	1,320.04	1,291.50	28.54	46.252	
7,200.00	7,088.58	7,126.43	7,088.58	17.17	13.93	-90.39	248.09	-372.43	1,320.04	1,291.36	28.68	46.025	
7,300.00	7,188.58	7,226.43	7,188.58	17.23	14.01	-90.39	248.09	-372.43	1,320.04	1,291.22	28.82	45.800	
7,400.00	7,288.58	7,326.43	7,288.58	17.29	14.09	-90.39	248.09	-372.43	1,320.04	1,291.08	28.96	45.577	
7,500.00	7,388.58	7,426.43	7,388.58	17.35	14.18	-90.39	248.09	-372.43	1,320.04	1,290.94	29.10	45.355	
7,600.00	7,488.58	7,526.43	7,488.58	17.41	14.26	-90.39	248.09	-372.43	1,320.04	1,290.79	29.25	45.135	
7,700.00	7,588.58	7,626.43	7,588.58	17.47	14.34	-90.39	248.09	-372.43	1,320.04	1,290.65	29.39	44.918	
7,800.00	7,688.58	7,726.43	7,688.58	17.53	14.42	-90.39	248.09	-372.43	1,320.04	1,290.51	29.53	44.702	
7,900.00	7,788.58	7,826.43	7,788.58	17.59	14.50	-90.39	248.09	-372.43	1,320.04	1,290.37	29.67	44.487	
8,000.00	7,888.58	7,926.43	7,888.58	17.65	14.59	-90.39	248.09	-372.43	1,320.04	1,290.23	29.81	44.275	
8,100.00	7,988.58	8,026.43	7,988.58	17.71	14.67	-90.39	248.09	-372.43	1,320.04	1,290.08	29.96	44.064	
8,200.00	8,088.58	8,126.43	8,088.58	17.77	14.75	-90.39	248.09	-372.43	1,320.04	1,289.94	30.10	43.855	
8,300.00	8,188.58	8,226.43	8,188.58	17.83	14.83	-90.39	248.09	-372.43	1,320.04	1,289.80	30.24	43.648	
8,400.00	8,288.58	8,326.43	8,288.58	17.89	14.91	-90.39	248.09	-372.43	1,320.04	1,289.65	30.39	43.442	
8,500.00	8,388.58	8,426.43	8,388.58	17.95	15.00	-90.39	248.09	-372.43	1,320.04	1,289.51	30.53	43.238	
8,600.00	8,488.58	8,526.43	8,488.58	18.02	15.08	-90.39	248.09	-372.43	1,320.04	1,289.37	30.67	43.036	
8,700.00	8,588.58	8,626.43	8,588.58	18.08	15.16	-90.39	248.09	-372.43	1,320.04	1,289.22	30.82	42.835	
8,800.00	8,688.58	8,726.43	8,688.58	18.14	15.24	-90.39	248.09	-372.43	1,320.04	1,289.08	30.96	42.636	
8,900.00	8,788.58	8,826.43	8,788.58	18.20	15.33	-90.39	248.09	-372.43	1,320.04	1,288.94	31.10	42.439	
9,000.00	8,888.58	8,926.43	8,888.58	18.26	15.41	-90.39	248.09	-372.43	1,320.04	1,288.79	31.25	42.243	
9,100.00	8,988.58	9,026.43	8,988.58	18.32	15.49	-90.39	248.09	-372.43	1,320.04	1,288.65	31.39	42.048	
9,200.00	9,088.58	9,126.43	9,088.58	18.39	15.57	-90.39	248.09	-372.43	1,320.04	1,288.50	31.54	41.856	
9,300.00	9,188.58	9,226.43	9,188.58	18.45	15.65	-90.39	248.09	-372.43	1,320.04	1,288.36	31.68	41.665	
9,400.00	9,288.58	9,326.43	9,288.58	18.51	15.74	-90.39	248.09	-372.43	1,320.04	1,288.21	31.83	41.475	
9,500.00	9,388.58	9,426.43	9,388.58	18.57	15.82	-90.39	248.09	-372.43	1,320.04	1,288.07	31.97	41.287	
9,600.00	9,488.58	9,526.43	9,488.58	18.64	15.90	-90.39	248.09	-372.43	1,320.04	1,287.92	32.12	41.100	
9,700.00	9,588.58	9,626.43	9,588.58	18.70	15.98	-90.39	248.09	-372.43	1,320.04	1,287.78	32.26	40.915	
9,800.00	9,688.58	9,726.43	9,688.58	18.76	16.06	-90.39	248.09	-372.43	1,320.04	1,287.63	32.41	40.731	
9,900.00	9,788.58	9,826.43	9,788.58	18.83	16.15	-90.39	248.09	-372.43	1,320.04	1,287.49	32.55	40.549	
10,000.00	9,888.58	9,926.43	9,888.58	18.89	16.23	-90.39	248.09	-372.43	1,320.04	1,287.34	32.70	40.368	
10,100.00	9,988.58	10,026.43	9,988.58	18.95	16.31	-90.39	248.09	-372.43	1,320.04	1,287.19	32.85	40.189	
10,200.00	10,088.58	10,126.43	10,088.58	19.02	16.39	-90.39	248.09	-372.43	1,320.04	1,287.05	32.99	40.011	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 215H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,188.58	10,226.43	10,188.58	19.08	16.47	-90.39	248.09	-372.43	1,320.04	1,286.90	33.14	39.834	
10,400.00	10,288.58	10,326.43	10,288.58	19.15	16.56	-90.39	248.09	-372.43	1,320.04	1,286.76	33.28	39.659	
10,500.00	10,388.58	10,426.43	10,388.58	19.21	16.64	-90.39	248.09	-372.43	1,320.04	1,286.61	33.43	39.485	
10,600.00	10,488.58	10,526.43	10,488.58	19.27	16.72	-90.39	248.09	-372.43	1,320.04	1,286.46	33.58	39.312	
10,700.00	10,588.58	10,626.43	10,588.58	19.34	16.80	-90.39	248.09	-372.43	1,320.04	1,286.32	33.73	39.141	
10,800.00	10,688.58	10,726.43	10,688.58	19.40	16.89	-90.39	248.09	-372.43	1,320.04	1,286.17	33.87	38.971	
10,900.00	10,788.58	10,826.43	10,788.58	19.47	16.97	-90.39	248.09	-372.43	1,320.04	1,286.02	34.02	38.803	
11,000.00	10,888.58	10,926.43	10,888.58	19.53	17.05	-90.39	248.09	-372.43	1,320.04	1,285.87	34.17	38.636	
11,100.00	10,988.58	11,026.43	10,988.58	19.60	17.13	-90.39	248.09	-372.43	1,320.04	1,285.73	34.31	38.470	
11,200.00	11,088.58	11,126.43	11,088.58	19.66	17.21	-90.39	248.09	-372.43	1,320.04	1,285.58	34.46	38.305	
11,300.00	11,188.58	11,226.43	11,188.58	19.73	17.30	-90.39	248.09	-372.43	1,320.04	1,285.43	34.61	38.142	
11,400.00	11,288.58	11,326.43	11,288.58	19.79	17.38	-90.39	248.09	-372.43	1,320.04	1,285.28	34.76	37.979	
11,500.00	11,388.58	11,426.43	11,388.58	19.86	17.46	-90.39	248.09	-372.43	1,320.04	1,285.14	34.90	37.818	
11,600.00	11,488.58	11,526.43	11,488.58	19.92	17.54	-90.39	248.09	-372.43	1,320.04	1,284.99	35.05	37.659	
11,700.00	11,588.58	11,626.43	11,588.58	19.99	17.62	-90.39	248.09	-372.43	1,320.04	1,284.84	35.20	37.500	
11,800.00	11,688.58	11,726.43	11,688.58	20.05	17.71	-90.39	248.09	-372.43	1,320.04	1,284.69	35.35	37.343	
11,900.00	11,788.58	11,826.43	11,788.58	20.12	17.79	-90.39	248.09	-372.43	1,320.04	1,284.54	35.50	37.187	
12,000.00	11,888.58	11,926.43	11,888.58	20.19	17.87	-90.39	248.09	-372.43	1,320.04	1,284.40	35.64	37.036	
12,100.00	11,988.51	12,026.65	11,988.73	20.25	17.91	90.11	245.84	-372.41	1,320.04	1,284.37	35.67	37.009	
12,200.00	12,086.82	12,127.09	12,087.49	20.31	17.94	90.11	228.25	-372.26	1,320.04	1,284.53	35.51	37.172	
12,300.00	12,180.57	12,227.54	12,181.67	20.35	17.96	90.11	193.69	-371.96	1,320.04	1,284.79	35.26	37.443	
12,400.00	12,266.93	12,327.99	12,268.38	20.39	17.99	90.11	143.25	-371.53	1,320.04	1,285.10	34.94	37.782	
12,500.00	12,343.26	12,428.42	12,344.96	20.44	18.01	90.10	78.46	-370.97	1,320.04	1,285.42	34.62	38.129	
12,600.00	12,407.24	12,528.82	12,409.04	20.52	18.05	90.09	1.34	-370.31	1,320.04	1,285.67	34.37	38.408	
12,700.00	12,456.94	12,629.18	12,458.67	20.67	18.11	90.08	-85.73	-369.56	1,320.04	1,285.79	34.25	38.539	
12,800.00	12,490.84	12,729.49	12,492.36	20.88	18.19	90.07	-180.07	-368.74	1,320.04	1,285.72	34.32	38.458	
12,900.00	12,507.91	12,829.73	12,509.10	21.18	18.31	90.05	-278.77	-367.89	1,320.04	1,285.43	34.61	38.135	
12,943.84	12,510.89	12,873.62	12,510.96	21.34	18.38	90.00	-322.61	-367.52	1,320.04	1,285.22	34.82	37.911	
13,000.00	12,510.43	12,929.81	12,511.45	21.56	18.48	90.04	-378.80	-367.03	1,320.04	1,284.91	35.13	37.572	
13,100.00	12,511.30	13,029.81	12,512.32	22.01	18.69	90.04	-478.79	-366.17	1,320.04	1,284.17	35.87	36.800	
13,200.00	12,512.18	13,129.81	12,513.20	22.52	18.97	90.04	-578.78	-365.31	1,320.04	1,283.24	36.80	35.872	
13,300.00	12,513.05	13,229.81	12,514.07	23.10	19.32	90.04	-678.77	-364.45	1,320.04	1,282.14	37.90	34.827	
13,400.00	12,513.92	13,329.81	12,514.94	23.73	19.76	90.04	-778.77	-363.59	1,320.04	1,280.87	39.17	33.702	
13,500.00	12,514.80	13,429.81	12,515.82	24.41	20.28	90.04	-878.76	-362.73	1,320.04	1,279.46	40.58	32.529	
13,600.00	12,515.67	13,529.81	12,516.69	25.15	20.89	90.04	-978.75	-361.87	1,320.04	1,277.92	42.12	31.337	
13,700.00	12,516.55	13,629.81	12,517.56	25.93	21.59	90.04	-1,078.74	-361.01	1,320.04	1,276.26	43.79	30.148	
13,800.00	12,517.42	13,729.81	12,518.44	26.76	22.36	90.04	-1,178.74	-360.15	1,320.04	1,274.49	45.55	28.979	
13,900.00	12,518.29	13,829.81	12,519.31	27.63	23.19	90.04	-1,278.73	-359.28	1,320.04	1,272.63	47.41	27.843	
14,000.00	12,519.17	13,929.81	12,520.18	28.53	24.08	90.04	-1,378.72	-358.42	1,320.04	1,270.69	49.35	26.747	
14,100.00	12,520.04	14,029.81	12,521.06	29.47	25.01	90.04	-1,478.71	-357.56	1,320.04	1,268.67	51.37	25.698	
14,200.00	12,520.91	14,129.81	12,521.93	30.44	25.99	90.04	-1,578.71	-356.70	1,320.04	1,266.60	53.45	24.698	
14,300.00	12,521.79	14,229.81	12,522.80	31.44	27.01	90.04	-1,678.70	-355.84	1,320.04	1,264.46	55.58	23.748	
14,400.00	12,522.66	14,329.81	12,523.68	32.46	28.06	90.04	-1,778.69	-354.98	1,320.04	1,262.27	57.77	22.849	
14,500.00	12,523.53	14,429.81	12,524.55	33.51	29.14	90.04	-1,878.68	-354.12	1,320.04	1,260.04	60.01	21.998	
14,600.00	12,524.41	14,529.81	12,525.42	34.58	30.25	90.04	-1,978.68	-353.26	1,320.04	1,257.76	62.28	21.195	
14,700.00	12,525.28	14,629.81	12,526.30	35.67	31.38	90.04	-2,078.67	-352.40	1,320.04	1,255.45	64.59	20.437	
14,800.00	12,526.16	14,729.81	12,527.17	36.78	32.52	90.04	-2,178.66	-351.54	1,320.04	1,253.11	66.93	19.721	
14,900.00	12,527.03	14,829.81	12,528.04	37.90	33.69	90.04	-2,278.65	-350.68	1,320.04	1,250.74	69.31	19.047	
15,000.00	12,527.90	14,929.81	12,528.92	39.04	34.87	90.04	-2,378.65	-349.81	1,320.04	1,248.34	71.70	18.409	
15,100.00	12,528.78	15,029.81	12,529.79	40.20	36.06	90.04	-2,478.64	-348.95	1,320.05	1,245.92	74.13	17.808	
15,200.00	12,529.65	15,129.81	12,530.66	41.37	37.27	90.04	-2,578.63	-348.09	1,320.05	1,243.48	76.57	17.240	
15,300.00	12,530.52	15,229.81	12,531.54	42.55	38.49	90.04	-2,678.62	-347.23	1,320.05	1,241.01	79.03	16.702	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 215H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	12,531.40	15,329.81	12,532.41	43.74	39.71	90.04	-2,778.62	-346.37	1,320.05	1,238.53	81.51	16.194	
15,500.00	12,532.27	15,429.81	12,533.28	44.94	40.95	90.04	-2,878.61	-345.51	1,320.05	1,236.04	84.01	15.713	
15,600.00	12,533.14	15,529.81	12,534.16	46.15	42.20	90.04	-2,978.60	-344.65	1,320.05	1,233.52	86.52	15.257	
15,700.00	12,534.02	15,629.81	12,535.03	47.37	43.45	90.04	-3,078.59	-343.79	1,320.05	1,231.00	89.05	14.824	
15,800.00	12,534.89	15,729.81	12,535.90	48.59	44.71	90.04	-3,178.59	-342.93	1,320.05	1,228.46	91.58	14.414	
15,900.00	12,535.76	15,829.81	12,536.77	49.83	45.98	90.04	-3,278.58	-342.07	1,320.05	1,225.91	94.13	14.023	
16,000.00	12,536.64	15,929.81	12,537.65	51.07	47.25	90.04	-3,378.57	-341.21	1,320.05	1,223.36	96.69	13.652	
16,100.00	12,537.51	16,029.81	12,538.52	52.32	48.53	90.04	-3,478.56	-340.34	1,320.05	1,220.79	99.26	13.299	
16,200.00	12,538.39	16,129.81	12,539.39	53.57	49.81	90.04	-3,578.56	-339.48	1,320.05	1,218.21	101.84	12.962	
16,300.00	12,539.26	16,229.81	12,540.27	54.83	51.10	90.04	-3,678.55	-338.62	1,320.05	1,215.62	104.42	12.641	
16,400.00	12,540.13	16,329.81	12,541.14	56.09	52.39	90.04	-3,778.54	-337.76	1,320.05	1,213.03	107.02	12.335	
16,500.00	12,541.01	16,429.81	12,542.01	57.36	53.69	90.04	-3,878.53	-336.90	1,320.05	1,210.43	109.62	12.042	
16,600.00	12,541.88	16,529.81	12,542.89	58.64	54.99	90.04	-3,978.53	-336.04	1,320.05	1,207.82	112.22	11.763	
16,700.00	12,542.75	16,629.81	12,543.76	59.91	56.29	90.04	-4,078.52	-335.18	1,320.05	1,205.21	114.84	11.495	
16,800.00	12,543.63	16,729.81	12,544.63	61.20	57.60	90.04	-4,178.51	-334.32	1,320.05	1,202.59	117.46	11.239	
16,900.00	12,544.50	16,829.81	12,545.51	62.48	58.91	90.04	-4,278.50	-333.46	1,320.05	1,199.97	120.08	10.993	
17,000.00	12,545.37	16,929.81	12,546.38	63.77	60.22	90.04	-4,378.50	-332.60	1,320.05	1,197.34	122.71	10.757	
17,100.00	12,546.25	17,029.81	12,547.25	65.06	61.54	90.04	-4,478.49	-331.73	1,320.05	1,194.70	125.35	10.531	
17,200.00	12,547.12	17,129.81	12,548.13	66.36	62.85	90.04	-4,578.48	-330.87	1,320.05	1,192.07	127.98	10.314	
17,300.00	12,547.99	17,229.81	12,549.00	67.66	64.17	90.04	-4,678.47	-330.01	1,320.05	1,189.42	130.63	10.106	
17,400.00	12,548.87	17,329.81	12,549.87	68.96	65.49	90.04	-4,778.47	-329.15	1,320.05	1,186.78	133.27	9.905	
17,500.00	12,549.74	17,429.81	12,550.75	70.26	66.82	90.04	-4,878.46	-328.29	1,320.05	1,184.13	135.92	9.712	
17,600.00	12,550.62	17,529.81	12,551.62	71.57	68.14	90.04	-4,978.45	-327.43	1,320.05	1,181.47	138.58	9.526	
17,700.00	12,551.49	17,629.81	12,552.49	72.88	69.47	90.04	-5,078.44	-326.57	1,320.05	1,178.82	141.23	9.346	
17,800.00	12,552.36	17,729.81	12,553.37	74.19	70.80	90.04	-5,178.44	-325.71	1,320.05	1,176.16	143.90	9.174	
17,900.00	12,553.24	17,829.81	12,554.24	75.50	72.13	90.04	-5,278.43	-324.85	1,320.05	1,173.49	146.56	9.007	
18,000.00	12,554.11	17,929.81	12,555.11	76.81	73.46	90.04	-5,378.42	-323.99	1,320.05	1,170.83	149.22	8.846	
18,100.00	12,554.98	18,029.81	12,555.99	78.13	74.79	90.04	-5,478.41	-323.13	1,320.05	1,168.16	151.89	8.691	
18,200.00	12,555.86	18,129.81	12,556.86	79.45	76.13	90.04	-5,578.41	-322.26	1,320.05	1,165.49	154.56	8.541	
18,300.00	12,556.73	18,229.81	12,557.73	80.77	77.46	90.04	-5,678.40	-321.40	1,320.05	1,162.82	157.24	8.395	
18,400.00	12,557.60	18,329.81	12,558.61	82.09	78.80	90.04	-5,778.39	-320.54	1,320.05	1,160.14	159.91	8.255	
18,500.00	12,558.48	18,429.81	12,559.48	83.42	80.14	90.04	-5,878.38	-319.68	1,320.05	1,157.46	162.59	8.119	
18,600.00	12,559.35	18,529.81	12,560.35	84.74	81.48	90.04	-5,978.38	-318.82	1,320.05	1,154.78	165.27	7.987	
18,700.00	12,560.23	18,629.81	12,561.23	86.07	82.82	90.04	-6,078.37	-317.96	1,320.05	1,152.10	167.95	7.860	
18,800.00	12,561.10	18,729.81	12,562.10	87.40	84.16	90.04	-6,178.36	-317.10	1,320.05	1,149.42	170.64	7.736	
18,900.00	12,561.97	18,829.81	12,562.97	88.72	85.50	90.04	-6,278.35	-316.24	1,320.05	1,146.73	173.32	7.616	
19,000.00	12,562.85	18,929.81	12,563.85	90.05	86.84	90.04	-6,378.35	-315.38	1,320.05	1,144.05	176.01	7.500	
19,100.00	12,563.72	19,029.81	12,564.72	91.39	88.19	90.04	-6,478.34	-314.52	1,320.05	1,141.36	178.70	7.387	
19,200.00	12,564.59	19,129.81	12,565.59	92.72	89.53	90.04	-6,578.33	-313.66	1,320.05	1,138.67	181.39	7.278	
19,300.00	12,565.47	19,229.81	12,566.47	94.05	90.88	90.04	-6,678.32	-312.79	1,320.06	1,135.98	184.08	7.171	
19,400.00	12,566.34	19,329.81	12,567.34	95.39	92.22	90.04	-6,778.32	-311.93	1,320.06	1,133.28	186.77	7.068	
19,500.00	12,567.21	19,429.81	12,568.21	96.72	93.57	90.04	-6,878.31	-311.07	1,320.06	1,130.59	189.47	6.967	
19,600.00	12,568.09	19,529.81	12,569.08	98.06	94.92	90.04	-6,978.30	-310.21	1,320.06	1,127.89	192.16	6.870	
19,700.00	12,568.96	19,629.81	12,569.96	99.40	96.26	90.04	-7,078.29	-309.35	1,320.06	1,125.20	194.86	6.774	
19,800.00	12,569.83	19,729.81	12,570.83	100.73	97.61	90.04	-7,178.29	-308.49	1,320.06	1,122.50	197.56	6.682	
19,900.00	12,570.71	19,829.81	12,571.70	102.07	98.96	90.04	-7,278.28	-307.63	1,320.06	1,119.80	200.26	6.592	
20,000.00	12,571.58	19,929.81	12,572.58	103.41	100.31	90.04	-7,378.27	-306.77	1,320.06	1,117.10	202.96	6.504	
20,100.00	12,572.46	20,029.81	12,573.45	104.75	101.66	90.04	-7,478.26	-305.91	1,320.06	1,114.40	205.66	6.419	
20,200.00	12,573.33	20,129.81	12,574.32	106.10	103.01	90.04	-7,578.26	-305.05	1,320.06	1,111.70	208.36	6.335	
20,300.00	12,574.20	20,229.81	12,575.20	107.44	104.36	90.04	-7,678.25	-304.19	1,320.06	1,109.00	211.06	6.254	
20,400.00	12,575.08	20,329.81	12,576.07	108.78	105.72	90.04	-7,778.24	-303.32	1,320.06	1,106.29	213.77	6.175	
20,500.00	12,575.95	20,429.81	12,576.94	110.12	107.07	90.04	-7,878.23	-302.46	1,320.06	1,103.59	216.47	6.098	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 215H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,576.82	20,529.81	12,577.82	111.47	108.42	90.04	-7,978.23	-301.60	1,320.06	1,100.88	219.18	6.023	
20,700.00	12,577.70	20,629.81	12,578.69	112.81	109.77	90.04	-8,078.22	-300.74	1,320.06	1,098.17	221.88	5.949	
20,800.00	12,578.57	20,729.81	12,579.56	114.16	111.13	90.04	-8,178.21	-299.88	1,320.06	1,095.47	224.59	5.878	
20,900.00	12,579.44	20,829.81	12,580.44	115.51	112.48	90.04	-8,278.20	-299.02	1,320.06	1,092.76	227.30	5.808	
21,000.00	12,580.32	20,929.81	12,581.31	116.85	113.84	90.04	-8,378.20	-298.16	1,320.06	1,090.05	230.01	5.739	
21,100.00	12,581.19	21,029.81	12,582.18	118.20	115.19	90.04	-8,478.19	-297.30	1,320.06	1,087.34	232.72	5.672	
21,200.00	12,582.06	21,129.81	12,583.06	119.55	116.55	90.04	-8,578.18	-296.44	1,320.06	1,084.63	235.43	5.607	
21,300.00	12,582.94	21,229.81	12,583.93	120.89	117.90	90.04	-8,678.17	-295.58	1,320.06	1,081.92	238.14	5.543	
21,400.00	12,583.81	21,329.81	12,584.80	122.24	119.26	90.04	-8,778.17	-294.72	1,320.06	1,079.21	240.85	5.481	
21,500.00	12,584.69	21,429.81	12,585.68	123.59	120.61	90.04	-8,878.16	-293.85	1,320.06	1,076.50	243.56	5.420	
21,600.00	12,585.56	21,529.81	12,586.55	124.94	121.97	90.04	-8,978.15	-292.99	1,320.06	1,073.78	246.28	5.360	
21,700.00	12,586.43	21,629.81	12,587.42	126.29	123.33	90.04	-9,078.14	-292.13	1,320.06	1,071.07	248.99	5.302	
21,800.00	12,587.31	21,729.81	12,588.30	127.64	124.68	90.04	-9,178.14	-291.27	1,320.06	1,068.36	251.70	5.244	
21,900.00	12,588.18	21,829.81	12,589.17	128.99	126.04	90.04	-9,278.13	-290.41	1,320.06	1,065.64	254.42	5.189	
22,000.00	12,589.05	21,929.81	12,590.04	130.34	127.40	90.04	-9,378.12	-289.55	1,320.06	1,062.93	257.13	5.134	
22,100.00	12,589.93	22,029.81	12,590.92	131.70	128.75	90.04	-9,478.11	-288.69	1,320.06	1,060.21	259.85	5.080	
22,200.00	12,590.80	22,129.81	12,591.79	133.05	130.11	90.04	-9,578.11	-287.83	1,320.06	1,057.50	262.57	5.028	
22,300.00	12,591.67	22,229.81	12,592.66	134.40	131.47	90.04	-9,678.10	-286.97	1,320.06	1,054.78	265.28	4.976	
22,400.00	12,592.55	22,329.81	12,593.54	135.75	132.83	90.04	-9,778.09	-286.11	1,320.06	1,052.06	268.00	4.926	
22,500.00	12,593.42	22,429.81	12,594.41	137.11	134.19	90.04	-9,878.08	-285.25	1,320.06	1,049.34	270.72	4.876	
22,600.00	12,594.30	22,529.81	12,595.28	138.46	135.55	90.04	-9,978.08	-284.38	1,320.06	1,046.63	273.44	4.828	
22,700.00	12,595.17	22,629.81	12,596.16	139.81	136.91	90.04	-10,078.07	-283.52	1,320.06	1,043.91	276.15	4.780	
22,800.00	12,596.04	22,729.81	12,597.03	141.17	138.27	90.04	-10,178.06	-282.66	1,320.06	1,041.19	278.87	4.734	
22,875.30	12,596.70	22,805.11	12,597.69	142.19	139.29	90.04	-10,253.36	-282.01	1,320.06	1,039.14	280.92	4.699	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 216H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	0.00	0.50	0.50	69.20	881.00	2,319.00	2,480.71				
100.00	100.00	102.00	100.00	0.98	0.99	69.20	881.00	2,319.00	2,480.71	2,478.74	1.97	1,257.247	
200.00	200.00	202.00	200.00	1.56	1.57	69.20	881.00	2,319.00	2,480.71	2,477.58	3.13	792.419	
300.00	300.00	302.00	300.00	1.98	1.99	69.20	881.00	2,319.00	2,480.71	2,476.74	3.97	624.982	
400.00	400.00	402.00	400.00	2.33	2.34	69.20	881.00	2,319.00	2,480.71	2,476.05	4.66	531.780	
500.00	500.00	502.00	500.00	2.63	2.64	69.20	881.00	2,319.00	2,480.71	2,475.44	5.27	470.318	
600.00	600.00	602.00	600.00	2.91	2.92	69.20	881.00	2,319.00	2,480.71	2,474.88	5.83	425.858	
700.00	700.00	702.76	700.76	3.16	3.17	69.20	881.00	2,319.00	2,480.71	2,474.38	6.33	391.653	
800.00	800.00	840.77	838.73	3.40	3.55	69.25	878.41	2,318.80	2,479.91	2,473.03	6.88	360.377	
900.00	900.00	956.93	954.76	3.62	3.81	69.37	872.81	2,318.38	2,477.84	2,470.50	7.34	337.809	
1,000.00	1,000.00	1,056.80	1,054.49	3.76	4.00	-22.52	867.60	2,317.99	2,475.59	2,467.93	7.66	323.276	
1,100.00	1,099.98	1,156.64	1,154.19	4.00	4.18	-22.45	862.39	2,317.59	2,471.70	2,463.62	8.07	306.133	
1,200.00	1,199.88	1,258.54	1,255.95	4.24	4.32	-22.42	857.06	2,317.19	2,465.39	2,456.97	8.42	292.687	
1,300.00	1,299.63	1,394.58	1,391.64	4.46	4.57	-22.35	847.27	2,316.45	2,455.85	2,447.00	8.85	277.449	
1,400.00	1,399.25	1,508.61	1,505.08	4.60	4.70	-22.20	835.79	2,315.58	2,443.61	2,434.51	9.10	268.595	
1,500.00	1,498.87	1,607.64	1,603.57	4.78	4.89	-22.05	825.47	2,314.80	2,431.23	2,421.77	9.46	257.070	
1,600.00	1,598.49	1,706.68	1,702.07	4.96	5.08	-21.90	815.15	2,314.02	2,418.87	2,409.05	9.82	246.425	
1,700.00	1,698.11	1,805.72	1,800.56	5.14	5.26	-21.75	804.83	2,313.24	2,406.52	2,396.35	10.17	236.560	
1,800.00	1,797.73	1,904.76	1,899.06	5.32	5.45	-21.60	794.51	2,312.46	2,394.19	2,383.66	10.53	227.388	
1,900.00	1,897.34	2,003.79	1,997.55	5.49	5.63	-21.45	784.18	2,311.68	2,381.88	2,371.00	10.88	218.838	
2,000.00	1,996.96	2,102.83	2,096.05	5.67	5.82	-21.30	773.86	2,310.90	2,369.59	2,358.35	11.24	210.845	
2,100.00	2,096.58	2,201.87	2,194.54	5.85	6.00	-21.14	763.54	2,310.12	2,357.31	2,345.71	11.59	203.356	
2,200.00	2,196.20	2,300.90	2,293.04	6.04	6.19	-20.98	753.22	2,309.34	2,345.05	2,333.09	11.95	196.210	
2,300.00	2,295.72	2,399.77	2,391.36	6.23	6.37	-14.51	742.92	2,308.56	2,331.61	2,319.30	12.32	189.296	
2,400.00	2,394.97	2,498.24	2,489.29	6.43	6.55	-10.08	732.66	2,307.79	2,315.64	2,302.94	12.70	182.351	
2,500.00	2,493.89	2,596.23	2,586.74	6.64	6.74	-6.95	722.44	2,307.02	2,297.13	2,284.05	13.08	175.588	
2,600.00	2,592.40	2,693.68	2,683.66	6.85	6.92	-4.59	712.29	2,306.25	2,276.11	2,262.64	13.47	169.016	
2,700.00	2,690.45	2,790.53	2,779.98	7.07	7.10	-2.73	702.19	2,305.49	2,252.59	2,238.74	13.85	162.635	
2,800.00	2,787.96	2,886.70	2,875.63	7.28	7.27	-1.19	692.17	2,304.73	2,226.60	2,212.37	14.23	156.434	
2,900.00	2,884.87	2,982.14	2,970.54	7.49	7.45	0.12	682.23	2,303.98	2,198.15	2,183.54	14.61	150.420	
3,000.00	2,981.46	3,077.19	3,065.07	7.68	7.63	0.37	672.32	2,303.23	2,168.55	2,153.58	14.97	144.887	
3,100.00	3,078.05	3,172.25	3,159.61	7.87	7.80	0.64	662.41	2,302.48	2,138.98	2,123.66	15.32	139.596	
3,200.00	3,174.64	3,267.30	3,254.14	8.06	7.98	0.91	652.51	2,301.73	2,109.45	2,093.77	15.68	134.533	
3,300.00	3,271.24	3,362.35	3,348.67	8.26	8.15	1.19	642.60	2,300.98	2,079.98	2,063.94	16.04	129.685	
3,400.00	3,367.83	3,457.41	3,443.21	8.51	8.33	1.47	632.69	2,300.23	2,050.54	2,034.14	16.40	125.042	
3,500.00	3,464.42	3,552.46	3,537.74	8.80	8.50	1.77	622.79	2,299.48	2,021.16	2,004.40	16.76	120.590	
3,600.00	3,561.01	3,647.52	3,632.27	9.09	8.68	2.07	612.88	2,298.73	1,991.82	1,974.70	17.12	116.321	
3,700.00	3,657.60	3,742.57	3,726.81	9.38	8.85	2.38	602.98	2,297.99	1,962.54	1,945.06	17.49	112.225	
3,800.00	3,754.20	3,837.63	3,821.34	9.68	9.03	2.70	593.07	2,297.24	1,933.32	1,915.47	17.85	108.292	
3,900.00	3,850.79	3,932.68	3,915.88	9.98	9.20	3.03	583.16	2,296.49	1,904.15	1,885.93	18.22	104.513	
4,000.00	3,947.38	4,027.73	4,010.41	10.28	9.38	3.38	573.26	2,295.74	1,875.05	1,856.46	18.59	100.881	
4,100.00	4,043.97	4,122.79	4,104.94	10.59	9.55	3.73	563.35	2,294.99	1,846.00	1,827.05	18.96	97.388	
4,200.00	4,140.56	4,217.84	4,199.48	10.90	9.73	4.09	553.44	2,294.24	1,817.03	1,797.70	19.32	94.026	
4,300.00	4,237.16	4,312.90	4,294.01	11.21	9.90	4.47	543.54	2,293.49	1,788.12	1,768.43	19.70	90.790	
4,400.00	4,333.75	4,407.95	4,388.54	11.52	10.08	4.85	533.63	2,292.74	1,759.29	1,739.22	20.07	87.673	
4,500.00	4,430.34	4,503.01	4,483.08	11.84	10.25	5.25	523.73	2,291.99	1,730.54	1,710.10	20.44	84.669	
4,600.00	4,526.93	4,598.06	4,577.61	12.16	10.43	5.66	513.82	2,291.25	1,701.86	1,681.05	20.81	81.772	
4,700.00	4,623.53	4,693.11	4,672.14	12.48	10.60	6.09	503.91	2,290.50	1,673.27	1,652.09	21.19	78.978	
4,800.00	4,720.12	4,788.17	4,766.68	12.80	10.78	6.53	494.01	2,289.75	1,644.77	1,623.21	21.56	76.282	
4,900.00	4,816.71	4,883.22	4,861.21	13.12	10.95	6.99	484.10	2,289.00	1,616.37	1,594.43	21.94	73.678	
5,000.00	4,913.30	4,978.28	4,955.75	13.45	11.13	7.46	474.19	2,288.25	1,588.06	1,565.75	22.32	71.163	
5,100.00	5,009.89	5,073.33	5,050.28	13.78	11.30	7.95	464.29	2,287.50	1,559.86	1,537.17	22.69	68.733	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 216H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,106.49	5,168.39	5,144.81	14.10	11.48	8.46	454.38	2,286.75	1,531.77	1,508.70	23.07	66.383	
5,300.00	5,203.08	5,263.44	5,239.35	14.43	11.65	8.98	444.48	2,286.00	1,503.80	1,480.34	23.46	64.111	
5,400.00	5,299.67	5,358.50	5,333.88	14.75	11.82	9.52	434.57	2,285.26	1,475.96	1,452.13	23.83	61.940	
5,500.00	5,396.65	5,453.99	5,428.85	15.07	12.00	10.01	424.62	2,284.50	1,449.69	1,425.47	24.22	59.843	
5,600.00	5,494.23	5,550.18	5,524.52	15.36	12.18	10.50	414.59	2,283.75	1,426.06	1,401.44	24.62	57.927	
5,700.00	5,592.35	5,647.02	5,620.82	15.62	12.35	10.99	404.50	2,282.98	1,405.06	1,380.05	25.01	56.183	
5,800.00	5,690.94	5,744.41	5,717.69	15.86	12.53	11.49	394.35	2,282.22	1,386.71	1,361.32	25.39	54.606	
5,900.00	5,789.93	5,842.32	5,815.05	16.07	12.71	11.98	384.15	2,281.44	1,371.01	1,345.24	25.78	53.190	
6,000.00	5,889.26	5,940.65	5,912.85	16.25	12.89	12.47	373.90	2,280.67	1,357.97	1,331.82	26.15	51.930	
6,100.00	5,988.86	6,039.36	6,011.02	16.41	13.07	12.95	363.61	2,279.89	1,347.58	1,321.06	26.52	50.823	
6,200.00	6,088.66	6,138.36	6,109.48	16.53	13.26	13.42	353.29	2,279.11	1,339.83	1,312.96	26.87	49.864	
6,300.00	6,188.59	6,237.60	6,208.17	16.64	13.44	13.88	342.95	2,278.33	1,334.72	1,307.52	27.21	49.055	
6,400.00	6,288.58	6,337.00	6,307.03	16.71	13.62	86.75	332.59	2,277.55	1,332.24	1,304.77	27.47	48.496	
6,500.00	6,388.58	6,436.45	6,405.94	16.76	13.80	87.19	322.23	2,276.76	1,330.89	1,303.19	27.71	48.038	
6,600.00	6,488.58	6,535.90	6,504.84	16.82	13.99	87.64	311.86	2,275.98	1,329.63	1,301.69	27.94	47.590	
6,700.00	6,588.58	6,635.36	6,603.75	16.88	14.17	88.08	301.50	2,275.20	1,328.45	1,300.27	28.17	47.152	
6,800.00	6,688.58	6,734.81	6,702.66	16.94	14.35	88.53	291.14	2,274.41	1,327.34	1,298.94	28.40	46.734	
6,900.00	6,788.58	6,832.27	6,799.63	17.00	14.51	88.95	281.46	2,273.68	1,326.37	1,297.76	28.61	46.360	
7,000.00	6,888.58	6,928.92	6,896.00	17.05	14.69	89.26	274.14	2,273.13	1,325.68	1,296.86	28.82	45.998	
7,100.00	6,988.58	7,025.88	6,992.84	17.11	14.86	89.47	269.24	2,272.76	1,325.24	1,296.23	29.01	45.685	
7,200.00	7,088.58	7,123.04	7,089.96	17.17	15.00	89.58	266.79	2,272.57	1,325.03	1,295.87	29.16	45.435	
7,265.82	7,154.39	7,187.47	7,154.39	17.21	15.03	89.59	266.49	2,272.55	1,325.00	1,295.78	29.22	45.345	
7,300.00	7,188.58	7,221.66	7,188.58	17.23	15.03	89.59	266.49	2,272.55	1,325.00	1,295.76	29.24	45.310	
7,400.00	7,288.58	7,321.66	7,288.58	17.29	15.06	89.59	266.49	2,272.55	1,325.00	1,295.68	29.32	45.184	
7,500.00	7,388.58	7,421.66	7,388.58	17.35	15.08	89.59	266.49	2,272.55	1,325.00	1,295.60	29.41	45.057	
7,600.00	7,488.58	7,521.66	7,488.58	17.41	15.11	89.59	266.49	2,272.55	1,325.00	1,295.51	29.49	44.931	
7,700.00	7,588.58	7,621.66	7,588.58	17.47	15.13	89.59	266.49	2,272.55	1,325.00	1,295.43	29.57	44.804	
7,800.00	7,688.58	7,721.66	7,688.58	17.53	15.16	89.59	266.49	2,272.55	1,325.00	1,295.35	29.66	44.677	
7,900.00	7,788.58	7,821.66	7,788.58	17.59	15.18	89.59	266.49	2,272.55	1,325.00	1,295.26	29.74	44.550	
8,000.00	7,888.58	7,921.66	7,888.58	17.65	15.21	89.59	266.49	2,272.55	1,325.00	1,295.18	29.83	44.423	
8,100.00	7,988.58	8,021.66	7,988.58	17.71	15.24	89.59	266.49	2,272.55	1,325.00	1,295.09	29.91	44.295	
8,200.00	8,088.58	8,121.66	8,088.58	17.77	15.27	89.59	266.49	2,272.55	1,325.00	1,295.00	30.00	44.168	
8,300.00	8,188.58	8,221.66	8,188.58	17.83	15.29	89.59	266.49	2,272.55	1,325.00	1,294.92	30.09	44.040	
8,400.00	8,288.58	8,321.66	8,288.58	17.89	15.32	89.59	266.49	2,272.55	1,325.00	1,294.83	30.17	43.912	
8,500.00	8,388.58	8,421.66	8,388.58	17.95	15.35	89.59	266.49	2,272.55	1,325.00	1,294.74	30.26	43.784	
8,600.00	8,488.58	8,521.66	8,488.58	18.02	15.38	89.59	266.49	2,272.55	1,325.00	1,294.65	30.35	43.656	
8,700.00	8,588.58	8,621.66	8,588.58	18.08	15.41	89.59	266.49	2,272.55	1,325.00	1,294.56	30.44	43.527	
8,800.00	8,688.58	8,721.66	8,688.58	18.14	15.44	89.59	266.49	2,272.55	1,325.00	1,294.47	30.53	43.399	
8,900.00	8,788.58	8,821.66	8,788.58	18.20	15.47	89.59	266.49	2,272.55	1,325.00	1,294.38	30.62	43.271	
9,000.00	8,888.58	8,921.66	8,888.58	18.26	15.50	89.59	266.49	2,272.55	1,325.00	1,294.29	30.71	43.142	
9,100.00	8,988.58	9,021.66	8,988.58	18.32	15.53	89.59	266.49	2,272.55	1,325.00	1,294.20	30.80	43.014	
9,200.00	9,088.58	9,121.66	9,088.58	18.39	15.56	89.59	266.49	2,272.55	1,325.00	1,294.11	30.90	42.885	
9,300.00	9,188.58	9,221.66	9,188.58	18.45	15.59	89.59	266.49	2,272.55	1,325.00	1,294.01	30.99	42.757	
9,400.00	9,288.58	9,321.66	9,288.58	18.51	15.63	89.59	266.49	2,272.55	1,325.00	1,293.92	31.08	42.628	
9,500.00	9,388.58	9,421.66	9,388.58	18.57	15.66	89.59	266.49	2,272.55	1,325.00	1,293.83	31.18	42.500	
9,600.00	9,488.58	9,521.66	9,488.58	18.64	15.69	89.59	266.49	2,272.55	1,325.00	1,293.73	31.27	42.371	
9,700.00	9,588.58	9,621.66	9,588.58	18.70	15.72	89.59	266.49	2,272.55	1,325.00	1,293.64	31.37	42.243	
9,800.00	9,688.58	9,721.66	9,688.58	18.76	15.76	89.59	266.49	2,272.55	1,325.00	1,293.54	31.46	42.115	
9,900.00	9,788.58	9,821.66	9,788.58	18.83	15.79	89.59	266.49	2,272.55	1,325.00	1,293.45	31.56	41.986	
10,000.00	9,888.58	9,921.66	9,888.58	18.89	15.83	89.59	266.49	2,272.55	1,325.00	1,293.35	31.65	41.858	
10,100.00	9,988.58	10,021.66	9,988.58	18.95	15.86	89.59	266.49	2,272.55	1,325.00	1,293.25	31.75	41.730	
10,200.00	10,088.58	10,121.66	10,088.58	19.02	15.89	89.59	266.49	2,272.55	1,325.00	1,293.15	31.85	41.602	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 216H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,188.58	10,221.66	10,188.58	19.08	15.93	89.59	266.49	2,272.55	1,325.00	1,293.06	31.95	41.474	
10,400.00	10,288.58	10,321.66	10,288.58	19.15	15.97	89.59	266.49	2,272.55	1,325.00	1,292.96	32.05	41.346	
10,500.00	10,388.58	10,421.66	10,388.58	19.21	16.00	89.59	266.49	2,272.55	1,325.00	1,292.86	32.15	41.219	
10,600.00	10,488.58	10,521.66	10,488.58	19.27	16.04	89.59	266.49	2,272.55	1,325.00	1,292.76	32.25	41.091	
10,700.00	10,588.58	10,621.66	10,588.58	19.34	16.07	89.59	266.49	2,272.55	1,325.00	1,292.66	32.35	40.964	
10,800.00	10,688.58	10,721.66	10,688.58	19.40	16.11	89.59	266.49	2,272.55	1,325.00	1,292.56	32.45	40.837	
10,900.00	10,788.58	10,821.66	10,788.58	19.47	16.15	89.59	266.49	2,272.55	1,325.00	1,292.46	32.55	40.710	
11,000.00	10,888.58	10,921.66	10,888.58	19.53	16.19	89.59	266.49	2,272.55	1,325.00	1,292.35	32.65	40.583	
11,100.00	10,988.58	11,021.66	10,988.58	19.60	16.22	89.59	266.49	2,272.55	1,325.00	1,292.25	32.75	40.456	
11,200.00	11,088.58	11,121.66	11,088.58	19.66	16.26	89.59	266.49	2,272.55	1,325.00	1,292.15	32.85	40.330	
11,300.00	11,188.58	11,221.66	11,188.58	19.73	16.30	89.59	266.49	2,272.55	1,325.00	1,292.05	32.96	40.203	
11,400.00	11,288.58	11,321.66	11,288.58	19.79	16.34	89.59	266.49	2,272.55	1,325.00	1,291.94	33.06	40.077	
11,500.00	11,388.58	11,421.66	11,388.58	19.86	16.38	89.59	266.49	2,272.55	1,325.00	1,291.84	33.17	39.952	
11,600.00	11,488.58	11,521.66	11,488.58	19.92	16.42	89.59	266.49	2,272.55	1,325.00	1,291.73	33.27	39.826	
11,700.00	11,588.58	11,621.66	11,588.58	19.99	16.46	89.59	266.49	2,272.55	1,325.00	1,291.63	33.37	39.701	
11,800.00	11,688.58	11,721.66	11,688.58	20.05	16.50	89.59	266.49	2,272.55	1,325.00	1,291.52	33.48	39.575	
11,900.00	11,788.58	11,821.66	11,788.58	20.12	16.54	89.59	266.49	2,272.55	1,325.00	1,291.42	33.58	39.452	
11,903.47	11,792.05	11,825.13	11,792.05	20.12	16.54	89.59	266.49	2,272.55	1,325.00	1,291.42	33.59	39.448	CC
12,000.00	11,888.58	11,921.48	11,888.38	20.19	16.61	89.63	265.57	2,272.56	1,325.01	1,291.32	33.69	39.329	
12,100.00	11,988.51	12,019.23	11,985.04	20.25	16.86	-89.37	251.77	2,272.68	1,325.09	1,291.26	33.83	39.168	
12,200.00	12,086.82	12,114.66	12,075.80	20.31	17.13	-88.79	222.66	2,272.95	1,325.32	1,291.30	34.02	38.955	
12,300.00	12,180.57	12,208.19	12,158.86	20.35	17.39	-88.26	179.90	2,273.34	1,325.66	1,291.37	34.29	38.659	
12,400.00	12,266.93	12,300.00	12,232.59	20.39	17.64	-87.78	125.35	2,273.83	1,326.08	1,291.42	34.66	38.264	
12,500.00	12,343.26	12,390.61	12,295.89	20.44	17.86	-87.36	60.66	2,274.42	1,326.52	1,291.37	35.15	37.738	
12,600.00	12,407.24	12,480.04	12,347.62	20.52	18.05	-87.02	-12.19	2,275.08	1,326.94	1,291.15	35.79	37.073	
12,700.00	12,456.94	12,568.64	12,387.07	20.67	18.66	-86.76	-91.41	2,275.80	1,327.30	1,290.70	36.60	36.261	
12,800.00	12,490.84	12,656.66	12,413.72	20.88	19.50	-86.59	-175.21	2,276.56	1,327.57	1,289.98	37.59	35.315	
12,900.00	12,507.91	12,744.36	12,427.21	21.18	20.40	-86.51	-261.77	2,277.35	1,327.72	1,288.97	38.75	34.263	
13,000.00	12,510.43	12,838.46	12,429.23	21.56	21.41	-86.49	-355.82	2,278.21	1,327.78	1,287.68	40.11	33.105	
13,100.00	12,511.30	12,938.46	12,429.75	22.01	22.51	-86.48	-455.82	2,279.12	1,327.85	1,286.20	41.65	31.878	
13,200.00	12,512.18	13,038.46	12,430.28	22.52	23.64	-86.46	-555.81	2,280.02	1,327.92	1,284.61	43.31	30.659	
13,300.00	12,513.05	13,138.46	12,430.80	23.10	24.80	-86.45	-655.80	2,280.93	1,327.99	1,282.92	45.07	29.462	
13,400.00	12,513.92	13,238.46	12,431.33	23.73	25.98	-86.43	-755.80	2,281.84	1,328.06	1,281.13	46.93	28.299	
13,500.00	12,514.80	13,338.46	12,431.85	24.41	27.18	-86.42	-855.79	2,282.75	1,328.13	1,279.26	48.87	27.179	
13,600.00	12,515.67	13,438.46	12,432.38	25.15	28.39	-86.40	-955.79	2,283.66	1,328.20	1,277.32	50.88	26.106	
13,700.00	12,516.55	13,538.46	12,432.90	25.93	29.61	-86.39	-1,055.78	2,284.57	1,328.27	1,275.31	52.96	25.083	
13,800.00	12,517.42	13,638.46	12,433.43	26.76	30.85	-86.37	-1,155.77	2,285.48	1,328.34	1,273.25	55.09	24.111	
13,900.00	12,518.29	13,738.46	12,433.95	27.63	32.10	-86.36	-1,255.77	2,286.39	1,328.41	1,271.13	57.28	23.191	
14,000.00	12,519.17	13,838.45	12,434.48	28.53	33.35	-86.35	-1,355.76	2,287.29	1,328.48	1,268.96	59.52	22.320	
14,100.00	12,520.04	13,938.45	12,435.00	29.47	34.62	-86.33	-1,455.75	2,288.20	1,328.55	1,266.75	61.80	21.499	
14,200.00	12,520.91	14,038.45	12,435.53	30.44	35.89	-86.32	-1,555.75	2,289.11	1,328.62	1,264.51	64.11	20.723	
14,300.00	12,521.79	14,138.45	12,436.05	31.44	37.18	-86.30	-1,655.74	2,290.02	1,328.69	1,262.23	66.46	19.992	
14,400.00	12,522.66	14,238.45	12,436.58	32.46	38.46	-86.29	-1,755.74	2,290.93	1,328.76	1,259.92	68.84	19.302	
14,500.00	12,523.53	14,338.45	12,437.10	33.51	39.75	-86.27	-1,855.73	2,291.84	1,328.83	1,257.58	71.25	18.651	
14,600.00	12,524.41	14,438.45	12,437.63	34.58	41.05	-86.26	-1,955.72	2,292.75	1,328.90	1,255.22	73.68	18.037	
14,700.00	12,525.28	14,538.45	12,438.15	35.67	42.35	-86.24	-2,055.72	2,293.66	1,328.97	1,252.84	76.13	17.457	
14,800.00	12,526.16	14,638.45	12,438.68	36.78	43.66	-86.23	-2,155.71	2,294.57	1,329.04	1,250.44	78.60	16.910	
14,900.00	12,527.03	14,738.45	12,439.20	37.90	44.97	-86.21	-2,255.71	2,295.47	1,329.11	1,248.02	81.09	16.392	
15,000.00	12,527.90	14,838.45	12,439.73	39.04	46.28	-86.20	-2,355.70	2,296.38	1,329.18	1,245.59	83.59	15.901	
15,100.00	12,528.78	14,938.45	12,440.25	40.20	47.60	-86.18	-2,455.69	2,297.29	1,329.25	1,243.14	86.11	15.437	
15,200.00	12,529.65	15,038.45	12,440.78	41.37	48.92	-86.17	-2,555.69	2,298.20	1,329.32	1,240.68	88.64	14.997	
15,300.00	12,530.52	15,138.45	12,441.30	42.55	50.24	-86.15	-2,655.68	2,299.11	1,329.39	1,238.21	91.19	14.579	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 216H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	12,531.40	15,238.45	12,441.83	43.74	51.56	-86.14	-2,755.68	2,300.02	1,329.46	1,235.72	93.74	14.182	
15,500.00	12,532.27	15,338.45	12,442.35	44.94	52.89	-86.12	-2,855.67	2,300.93	1,329.54	1,233.23	96.31	13.805	
15,600.00	12,533.14	15,438.45	12,442.88	46.15	54.22	-86.11	-2,955.66	2,301.84	1,329.61	1,230.73	98.88	13.447	
15,700.00	12,534.02	15,538.44	12,443.40	47.37	55.55	-86.09	-3,055.66	2,302.75	1,329.68	1,228.21	101.46	13.105	
15,800.00	12,534.89	15,638.44	12,443.93	48.59	56.88	-86.08	-3,155.65	2,303.65	1,329.75	1,225.69	104.06	12.779	
15,900.00	12,535.76	15,738.44	12,444.45	49.83	58.22	-86.06	-3,255.64	2,304.56	1,329.82	1,223.17	106.65	12.468	
16,000.00	12,536.64	15,838.44	12,444.98	51.07	59.55	-86.05	-3,355.64	2,305.47	1,329.89	1,220.63	109.26	12.172	
16,100.00	12,537.51	15,938.44	12,445.50	52.32	60.89	-86.03	-3,455.63	2,306.38	1,329.96	1,218.09	111.87	11.888	
16,200.00	12,538.39	16,038.44	12,446.03	53.57	62.23	-86.02	-3,555.63	2,307.29	1,330.04	1,215.55	114.49	11.617	
16,300.00	12,539.26	16,138.44	12,446.55	54.83	63.57	-86.00	-3,655.62	2,308.20	1,330.11	1,213.00	117.11	11.358	
16,400.00	12,540.13	16,238.44	12,447.08	56.09	64.91	-85.99	-3,755.61	2,309.11	1,330.18	1,210.44	119.74	11.109	
16,500.00	12,541.01	16,338.44	12,447.60	57.36	66.25	-85.97	-3,855.61	2,310.02	1,330.25	1,207.88	122.37	10.871	
16,600.00	12,541.88	16,438.44	12,448.13	58.64	67.60	-85.96	-3,955.60	2,310.93	1,330.32	1,205.31	125.01	10.642	
16,700.00	12,542.75	16,538.44	12,448.65	59.91	68.94	-85.94	-4,055.60	2,311.83	1,330.40	1,202.75	127.65	10.422	
16,800.00	12,543.63	16,638.44	12,449.18	61.20	70.29	-85.93	-4,155.59	2,312.74	1,330.47	1,200.17	130.29	10.211	
16,900.00	12,544.50	16,738.44	12,449.70	62.48	71.63	-85.91	-4,255.58	2,313.65	1,330.54	1,197.60	132.94	10.008	
17,000.00	12,545.37	16,838.44	12,450.23	63.77	72.98	-85.90	-4,355.58	2,314.56	1,330.61	1,195.02	135.59	9.813	
17,100.00	12,546.25	16,938.44	12,450.75	65.06	74.33	-85.88	-4,455.57	2,315.47	1,330.69	1,192.44	138.25	9.625	
17,200.00	12,547.12	17,038.44	12,451.28	66.36	75.68	-85.87	-4,555.57	2,316.38	1,330.76	1,189.85	140.91	9.444	
17,300.00	12,547.99	17,138.43	12,451.80	67.66	77.03	-85.86	-4,655.56	2,317.29	1,330.83	1,187.26	143.57	9.270	
17,400.00	12,548.87	17,238.43	12,452.33	68.96	78.38	-85.84	-4,755.55	2,318.20	1,330.90	1,184.67	146.23	9.101	
17,500.00	12,549.74	17,338.43	12,452.85	70.26	79.73	-85.83	-4,855.55	2,319.11	1,330.98	1,182.08	148.90	8.939	
17,600.00	12,550.62	17,438.43	12,453.38	71.57	81.08	-85.81	-4,955.54	2,320.01	1,331.05	1,179.49	151.56	8.782	
17,700.00	12,551.49	17,538.43	12,453.90	72.88	82.43	-85.80	-5,055.53	2,320.92	1,331.12	1,176.89	154.23	8.631	
17,800.00	12,552.36	17,638.43	12,454.43	74.19	83.79	-85.78	-5,155.53	2,321.83	1,331.20	1,174.29	156.91	8.484	
17,900.00	12,553.24	17,738.43	12,454.95	75.50	85.14	-85.77	-5,255.52	2,322.74	1,331.27	1,171.69	159.58	8.342	
18,000.00	12,554.11	17,838.43	12,455.48	76.81	86.49	-85.75	-5,355.52	2,323.65	1,331.34	1,169.09	162.26	8.205	
18,100.00	12,554.98	17,938.43	12,456.00	78.13	87.85	-85.74	-5,455.51	2,324.56	1,331.42	1,166.48	164.93	8.072	
18,200.00	12,555.86	18,038.43	12,456.53	79.45	89.20	-85.72	-5,555.50	2,325.47	1,331.49	1,163.88	167.61	7.944	
18,300.00	12,556.73	18,138.43	12,457.05	80.77	90.56	-85.71	-5,655.50	2,326.38	1,331.56	1,161.27	170.29	7.819	
18,400.00	12,557.60	18,238.43	12,457.58	82.09	91.91	-85.69	-5,755.49	2,327.28	1,331.64	1,158.66	172.98	7.698	
18,500.00	12,558.48	18,338.43	12,458.10	83.42	93.27	-85.68	-5,855.49	2,328.19	1,331.71	1,156.05	175.66	7.581	
18,600.00	12,559.35	18,438.43	12,458.63	84.74	94.63	-85.66	-5,955.48	2,329.10	1,331.78	1,153.44	178.35	7.467	
18,700.00	12,560.23	18,538.43	12,459.15	86.07	95.98	-85.65	-6,055.47	2,330.01	1,331.86	1,150.83	181.03	7.357	
18,800.00	12,561.10	18,638.43	12,459.68	87.40	97.34	-85.63	-6,155.47	2,330.92	1,331.93	1,148.21	183.72	7.250	
18,900.00	12,561.97	18,738.42	12,460.20	88.72	98.70	-85.62	-6,255.46	2,331.83	1,332.01	1,145.60	186.41	7.146	
19,000.00	12,562.85	18,838.42	12,460.73	90.05	100.06	-85.60	-6,355.45	2,332.74	1,332.08	1,142.98	189.10	7.044	
19,100.00	12,563.72	18,938.42	12,461.25	91.39	101.41	-85.59	-6,455.45	2,333.65	1,332.15	1,140.37	191.79	6.946	
19,200.00	12,564.59	19,038.42	12,461.78	92.72	102.77	-85.57	-6,555.44	2,334.56	1,332.23	1,137.75	194.48	6.850	
19,300.00	12,565.47	19,138.42	12,462.30	94.05	104.13	-85.56	-6,655.44	2,335.46	1,332.30	1,135.13	197.17	6.757	
19,400.00	12,566.34	19,238.42	12,462.83	95.39	105.49	-85.54	-6,755.43	2,336.37	1,332.38	1,132.51	199.87	6.666	
19,500.00	12,567.21	19,338.42	12,463.35	96.72	106.85	-85.53	-6,855.42	2,337.28	1,332.45	1,129.89	202.56	6.578	
19,600.00	12,568.09	19,438.42	12,463.88	98.06	108.21	-85.51	-6,955.42	2,338.19	1,332.53	1,127.27	205.26	6.492	
19,700.00	12,568.96	19,538.42	12,464.40	99.40	109.57	-85.50	-7,055.41	2,339.10	1,332.60	1,124.65	207.95	6.408	
19,800.00	12,569.83	19,638.42	12,464.93	100.73	110.93	-85.49	-7,155.41	2,340.01	1,332.68	1,122.03	210.65	6.326	
19,900.00	12,570.71	19,738.42	12,465.45	102.07	112.29	-85.47	-7,255.40	2,340.92	1,332.75	1,119.40	213.35	6.247	
20,000.00	12,571.58	19,838.42	12,465.98	103.41	113.65	-85.46	-7,355.39	2,341.83	1,332.83	1,116.78	216.05	6.169	
20,100.00	12,572.46	19,938.42	12,466.50	104.75	115.01	-85.44	-7,455.39	2,342.74	1,332.90	1,114.16	218.75	6.093	
20,200.00	12,573.33	20,038.42	12,467.03	106.10	116.37	-85.43	-7,555.38	2,343.64	1,332.98	1,111.53	221.45	6.019	
20,300.00	12,574.20	20,138.42	12,467.55	107.44	117.73	-85.41	-7,655.38	2,344.55	1,333.05	1,108.91	224.15	5.947	
20,400.00	12,575.08	20,238.42	12,468.08	108.78	119.09	-85.40	-7,755.37	2,345.46	1,333.13	1,106.28	226.85	5.877	
20,500.00	12,575.95	20,338.41	12,468.60	110.12	120.46	-85.38	-7,855.36	2,346.37	1,333.20	1,103.65	229.55	5.808	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 216H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,576.82	20,438.41	12,469.13	111.47	121.82	-85.37	-7,955.36	2,347.28	1,333.28	1,101.03	232.25	5.741	
20,700.00	12,577.70	20,538.41	12,469.66	112.81	123.18	-85.35	-8,055.35	2,348.19	1,333.36	1,098.40	234.95	5.675	
20,800.00	12,578.57	20,638.41	12,470.18	114.16	124.54	-85.34	-8,155.34	2,349.10	1,333.43	1,095.77	237.66	5.611	
20,900.00	12,579.44	20,738.41	12,470.71	115.51	125.90	-85.32	-8,255.34	2,350.01	1,333.51	1,093.15	240.36	5.548	
21,000.00	12,580.32	20,838.41	12,471.23	116.85	127.27	-85.31	-8,355.33	2,350.92	1,333.58	1,090.52	243.06	5.487	
21,100.00	12,581.19	20,938.41	12,471.76	118.20	128.63	-85.29	-8,455.33	2,351.82	1,333.66	1,087.89	245.77	5.426	
21,200.00	12,582.06	21,038.41	12,472.28	119.55	129.99	-85.28	-8,555.32	2,352.73	1,333.74	1,085.26	248.47	5.368	
21,300.00	12,582.94	21,138.41	12,472.81	120.89	131.35	-85.26	-8,655.31	2,353.64	1,333.81	1,082.63	251.18	5.310	
21,400.00	12,583.81	21,238.41	12,473.33	122.24	132.72	-85.25	-8,755.31	2,354.55	1,333.89	1,080.00	253.88	5.254	
21,500.00	12,584.69	21,338.41	12,473.86	123.59	134.08	-85.23	-8,855.30	2,355.46	1,333.96	1,077.38	256.59	5.199	
21,600.00	12,585.56	21,438.41	12,474.38	124.94	135.44	-85.22	-8,955.30	2,356.37	1,334.04	1,074.75	259.30	5.145	
21,700.00	12,586.43	21,538.41	12,474.91	126.29	136.81	-85.20	-9,055.29	2,357.28	1,334.12	1,072.12	262.00	5.092	
21,800.00	12,587.31	21,638.41	12,475.43	127.64	138.17	-85.19	-9,155.28	2,358.19	1,334.19	1,069.49	264.71	5.040	
21,900.00	12,588.18	21,738.41	12,475.96	128.99	139.53	-85.18	-9,255.28	2,359.10	1,334.27	1,066.86	267.42	4.989	
22,000.00	12,589.05	21,838.41	12,476.48	130.34	140.90	-85.16	-9,355.27	2,360.00	1,334.35	1,064.22	270.12	4.940	
22,100.00	12,589.93	21,938.40	12,477.01	131.70	142.26	-85.15	-9,455.26	2,360.91	1,334.43	1,061.59	272.83	4.891	
22,200.00	12,590.80	22,038.40	12,477.53	133.05	143.62	-85.13	-9,555.26	2,361.82	1,334.50	1,058.96	275.54	4.843	
22,300.00	12,591.67	22,138.40	12,478.06	134.40	144.99	-85.12	-9,655.25	2,362.73	1,334.58	1,056.33	278.25	4.796	
22,400.00	12,592.55	22,238.40	12,478.58	135.75	146.35	-85.10	-9,755.25	2,363.64	1,334.66	1,053.70	280.96	4.750	
22,500.00	12,593.42	22,338.40	12,479.11	137.11	147.72	-85.09	-9,855.24	2,364.55	1,334.73	1,051.07	283.66	4.705	
22,600.00	12,594.30	22,438.40	12,479.63	138.46	149.08	-85.07	-9,955.23	2,365.46	1,334.81	1,048.44	286.37	4.661	
22,700.00	12,595.17	22,538.40	12,480.16	139.81	150.45	-85.06	-10,055.23	2,366.37	1,334.89	1,045.81	289.08	4.618	
22,800.00	12,596.04	22,638.40	12,480.68	141.17	151.81	-85.04	-10,155.22	2,367.27	1,334.97	1,043.18	291.79	4.575	
22,875.30	12,596.70	22,713.70	12,481.08	142.19	152.84	-85.03	-10,230.52	2,367.96	1,335.03	1,041.20	293.83	4.544	ES, SF

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

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 221H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.50	0.50	180.00	-235.00	0.00	235.00				
100.00	100.00	100.00	100.00	0.98	0.98	180.00	-235.00	0.00	235.00	233.04	1.96	119.765	
200.00	200.00	200.00	200.00	1.56	1.56	180.00	-235.00	0.00	235.00	231.88	3.12	75.266	
300.00	300.00	300.00	300.00	1.98	1.98	180.00	-235.00	0.00	235.00	231.04	3.96	59.309	
400.00	400.00	400.00	400.00	2.33	2.33	180.00	-235.00	0.00	235.00	230.34	4.66	50.442	
500.00	500.00	500.00	500.00	2.63	2.63	180.00	-235.00	0.00	235.00	229.73	5.27	44.600	
600.00	600.00	600.00	600.00	2.91	2.91	180.00	-235.00	0.00	235.00	229.18	5.82	40.377	
700.00	700.00	700.00	700.00	3.16	3.16	180.00	-235.00	0.00	235.00	228.67	6.33	37.139	
800.00	800.00	804.92	804.91	3.40	3.47	-179.77	-233.90	-0.93	233.95	227.10	6.85	34.173	
900.00	900.00	909.68	909.58	3.62	3.76	-179.08	-230.59	-3.70	230.82	223.49	7.33	31.495	
1,000.00	1,000.00	1,014.12	1,013.77	3.76	4.01	90.14	-225.11	-8.30	225.68	218.00	7.69	29.365	
1,100.00	1,099.98	1,114.46	1,113.73	4.00	4.14	92.24	-218.45	-13.89	219.38	211.38	8.00	27.420	
1,200.00	1,199.88	1,213.72	1,212.61	4.24	4.35	95.13	-211.82	-19.45	213.55	205.16	8.38	25.476	
1,300.00	1,299.63	1,312.68	1,311.19	4.46	4.55	98.85	-205.22	-24.99	208.63	199.88	8.75	23.831	
1,400.00	1,399.25	1,411.41	1,409.55	4.60	4.75	103.09	-198.62	-30.52	204.98	195.91	9.07	22.589	
1,500.00	1,498.87	1,510.14	1,507.91	4.78	4.94	107.44	-192.03	-36.06	202.52	193.08	9.44	21.461	
1,600.00	1,598.49	1,608.88	1,606.26	4.96	5.14	111.88	-185.44	-41.59	201.28	191.48	9.80	20.549	
1,649.36	1,647.66	1,657.61	1,654.81	5.05	5.23	114.08	-182.19	-44.32	201.13	191.16	9.97	20.173	CC
1,700.00	1,698.11	1,707.61	1,704.62	5.14	5.33	116.34	-178.85	-47.12	201.29	191.14	10.15	19.831	ES
1,800.00	1,797.73	1,806.34	1,802.98	5.32	5.52	120.78	-172.26	-52.65	202.54	192.04	10.50	19.283	
1,900.00	1,897.34	1,905.07	1,901.33	5.49	5.71	125.13	-165.66	-58.18	205.02	194.17	10.86	18.887	
2,000.00	1,996.96	2,003.80	1,999.69	5.67	5.90	129.36	-159.07	-63.71	208.68	197.48	11.21	18.622	
2,100.00	2,096.58	2,102.54	2,098.04	5.85	6.09	133.43	-152.48	-69.24	213.47	201.91	11.56	18.469	
2,200.00	2,196.20	2,201.27	2,196.40	6.04	6.29	137.30	-145.89	-74.77	219.30	207.37	11.93	18.389	
2,300.00	2,295.72	2,296.93	2,291.60	6.23	6.48	147.40	-139.11	-81.17	227.89	215.62	12.28	18.564	
2,400.00	2,394.97	2,391.19	2,385.18	6.43	6.68	155.64	-131.61	-89.65	241.54	228.88	12.66	19.080	
2,500.00	2,493.89	2,483.87	2,476.91	6.64	6.88	162.50	-123.44	-100.09	260.47	247.41	13.05	19.954	
2,600.00	2,592.40	2,574.72	2,566.49	6.85	7.08	168.34	-114.67	-112.34	284.74	271.29	13.45	21.169	
2,700.00	2,690.45	2,663.49	2,653.68	7.07	7.27	173.32	-105.39	-126.25	314.25	300.41	13.84	22.705	
2,800.00	2,787.96	2,753.74	2,741.99	7.28	7.45	177.64	-95.37	-141.94	348.52	334.28	14.24	24.478	
2,900.00	2,884.87	2,845.21	2,831.45	7.49	7.63	-178.78	-85.16	-157.99	386.07	371.42	14.65	26.361	
3,000.00	2,981.46	2,936.23	2,920.49	7.68	7.81	-176.76	-75.00	-173.95	425.29	410.27	15.02	28.310	
3,100.00	3,078.05	3,027.26	3,009.52	7.87	8.00	-175.08	-64.84	-189.92	464.89	449.49	15.40	30.185	
3,200.00	3,174.64	3,118.28	3,098.56	8.06	8.18	-173.66	-54.68	-205.89	504.78	489.00	15.78	31.986	
3,300.00	3,271.24	3,209.31	3,187.59	8.26	8.37	-172.45	-44.52	-221.86	544.90	528.73	16.16	33.711	
3,400.00	3,367.83	3,300.33	3,276.63	8.51	8.57	-171.40	-34.36	-237.82	585.19	568.64	16.55	35.363	
3,500.00	3,464.42	3,391.36	3,365.67	8.80	8.76	-170.48	-24.20	-253.79	625.63	608.70	16.94	36.942	
3,600.00	3,561.01	3,482.38	3,454.70	9.09	8.96	-169.67	-14.04	-269.76	666.19	648.87	17.33	38.452	
3,700.00	3,657.60	3,573.41	3,543.74	9.38	9.16	-168.96	-3.88	-285.72	706.85	689.13	17.72	39.896	
3,800.00	3,754.20	3,664.43	3,632.77	9.68	9.37	-168.33	6.28	-301.69	747.59	729.48	18.11	41.277	
3,900.00	3,850.79	3,755.46	3,721.81	9.98	9.58	-167.75	16.44	-317.66	788.40	769.89	18.51	42.597	
4,000.00	3,947.38	3,846.48	3,810.84	10.28	9.79	-167.24	26.60	-333.63	829.27	810.36	18.91	43.860	
4,100.00	4,043.97	3,937.51	3,899.88	10.59	10.01	-166.77	36.76	-349.59	870.19	850.88	19.31	45.068	
4,200.00	4,140.56	4,028.53	3,988.92	10.90	10.23	-166.35	46.92	-365.56	911.15	891.44	19.71	46.225	
4,300.00	4,237.16	4,119.56	4,077.95	11.21	10.46	-165.96	57.08	-381.53	952.15	932.04	20.12	47.332	
4,400.00	4,333.75	4,210.58	4,166.99	11.52	10.68	-165.60	67.24	-397.50	993.19	972.66	20.52	48.393	
4,500.00	4,430.34	4,301.61	4,256.02	11.84	10.91	-165.28	77.40	-413.46	1,034.25	1,013.32	20.93	49.409	
4,600.00	4,526.93	4,392.63	4,345.06	12.16	11.14	-164.97	87.56	-429.43	1,075.34	1,054.00	21.34	50.383	
4,700.00	4,623.53	4,483.66	4,434.10	12.48	11.38	-164.69	97.72	-445.40	1,116.46	1,094.70	21.76	51.318	
4,800.00	4,720.12	4,574.68	4,523.13	12.80	11.61	-164.43	107.88	-461.36	1,157.59	1,135.42	22.17	52.215	
4,900.00	4,816.71	4,665.71	4,612.17	13.12	11.85	-164.19	118.04	-477.33	1,198.74	1,176.16	22.59	53.076	
5,000.00	4,913.30	4,756.73	4,701.20	13.45	12.09	-163.96	128.20	-493.30	1,239.92	1,216.91	23.00	53.903	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 221H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,009.89	4,847.76	4,790.24	13.78	12.32	-163.75	138.36	-509.27	1,281.10	1,257.68	23.42	54.698	
5,200.00	5,106.49	4,938.79	4,879.28	14.10	12.56	-163.55	148.52	-525.23	1,322.30	1,298.46	23.84	55.462	
5,300.00	5,203.08	5,029.81	4,968.31	14.43	12.80	-163.36	158.68	-541.20	1,363.51	1,339.25	24.26	56.197	
5,400.00	5,299.67	5,120.84	5,057.35	14.75	13.04	-163.20	168.84	-557.17	1,404.73	1,380.05	24.68	56.926	
5,500.00	5,396.65	5,212.44	5,146.95	15.07	13.29	-163.20	179.07	-573.24	1,444.62	1,419.51	25.11	57.531	
5,600.00	5,494.23	5,304.97	5,237.46	15.36	13.54	-163.17	189.39	-589.47	1,482.21	1,456.67	25.54	58.032	
5,700.00	5,592.35	5,398.37	5,328.82	15.62	13.78	-163.11	199.82	-605.85	1,517.49	1,491.52	25.97	58.431	
5,800.00	5,690.94	5,534.73	5,462.59	15.86	14.12	-162.94	213.98	-628.10	1,549.32	1,522.76	26.57	58.318	
5,900.00	5,789.93	5,681.33	5,607.36	16.07	14.45	-162.81	226.34	-647.54	1,575.78	1,548.60	27.18	57.983	
6,000.00	5,889.26	5,831.38	5,756.35	16.25	14.72	-162.74	235.90	-662.56	1,596.65	1,568.91	27.74	57.554	
6,100.00	5,988.86	5,984.10	5,908.57	16.41	14.95	-162.72	242.39	-672.76	1,611.79	1,583.54	28.25	57.047	
6,200.00	6,088.66	6,138.62	6,062.97	16.53	15.13	-162.74	245.64	-677.86	1,621.10	1,592.40	28.70	56.494	
6,300.00	6,188.59	6,264.24	6,188.59	16.64	15.22	-162.80	246.00	-678.43	1,625.00	1,596.02	28.98	56.070	
6,400.00	6,288.58	6,364.24	6,288.58	16.71	15.29	-90.39	246.00	-678.43	1,626.05	1,596.91	29.13	55.815	
6,500.00	6,388.58	6,464.24	6,388.58	16.76	15.36	-90.39	246.00	-678.43	1,626.05	1,596.79	29.26	55.574	
6,600.00	6,488.58	6,564.24	6,488.58	16.82	15.43	-90.39	246.00	-678.43	1,626.05	1,596.66	29.39	55.335	
6,700.00	6,588.58	6,664.24	6,588.58	16.88	15.50	-90.39	246.00	-678.43	1,626.05	1,596.53	29.51	55.096	
6,800.00	6,688.58	6,764.24	6,688.58	16.94	15.57	-90.39	246.00	-678.43	1,626.05	1,596.41	29.64	54.860	
6,900.00	6,788.58	6,864.24	6,788.58	17.00	15.64	-90.39	246.00	-678.43	1,626.05	1,596.28	29.77	54.624	
7,000.00	6,888.58	6,964.24	6,888.58	17.05	15.71	-90.39	246.00	-678.43	1,626.05	1,596.15	29.90	54.390	
7,100.00	6,988.58	7,064.24	6,988.58	17.11	15.78	-90.39	246.00	-678.43	1,626.05	1,596.02	30.02	54.158	
7,200.00	7,088.58	7,164.24	7,088.58	17.17	15.85	-90.39	246.00	-678.43	1,626.05	1,595.89	30.15	53.926	
7,300.00	7,188.58	7,264.24	7,188.58	17.23	15.92	-90.39	246.00	-678.43	1,626.05	1,595.77	30.28	53.697	
7,400.00	7,288.58	7,364.24	7,288.58	17.29	15.99	-90.39	246.00	-678.43	1,626.05	1,595.64	30.41	53.468	
7,500.00	7,388.58	7,464.24	7,388.58	17.35	16.06	-90.39	246.00	-678.43	1,626.05	1,595.51	30.54	53.241	
7,600.00	7,488.58	7,564.24	7,488.58	17.41	16.13	-90.39	246.00	-678.43	1,626.05	1,595.38	30.67	53.015	
7,700.00	7,588.58	7,664.24	7,588.58	17.47	16.20	-90.39	246.00	-678.43	1,626.05	1,595.25	30.80	52.791	
7,800.00	7,688.58	7,764.24	7,688.58	17.53	16.27	-90.39	246.00	-678.43	1,626.05	1,595.12	30.93	52.568	
7,900.00	7,788.58	7,864.24	7,788.58	17.59	16.34	-90.39	246.00	-678.43	1,626.05	1,594.98	31.06	52.347	
8,000.00	7,888.58	7,964.24	7,888.58	17.65	16.42	-90.39	246.00	-678.43	1,626.05	1,594.85	31.19	52.126	
8,100.00	7,988.58	8,064.24	7,988.58	17.71	16.49	-90.39	246.00	-678.43	1,626.05	1,594.72	31.33	51.907	
8,200.00	8,088.58	8,164.24	8,088.58	17.77	16.56	-90.39	246.00	-678.43	1,626.05	1,594.59	31.46	51.690	
8,300.00	8,188.58	8,264.24	8,188.58	17.83	16.63	-90.39	246.00	-678.43	1,626.05	1,594.46	31.59	51.474	
8,400.00	8,288.58	8,364.24	8,288.58	17.89	16.70	-90.39	246.00	-678.43	1,626.05	1,594.33	31.72	51.259	
8,500.00	8,388.58	8,464.24	8,388.58	17.95	16.77	-90.39	246.00	-678.43	1,626.05	1,594.19	31.86	51.045	
8,600.00	8,488.58	8,564.24	8,488.58	18.02	16.85	-90.39	246.00	-678.43	1,626.05	1,594.06	31.99	50.833	
8,700.00	8,588.58	8,664.24	8,588.58	18.08	16.92	-90.39	246.00	-678.43	1,626.05	1,593.93	32.12	50.622	
8,800.00	8,688.58	8,764.24	8,688.58	18.14	16.99	-90.39	246.00	-678.43	1,626.05	1,593.79	32.25	50.413	
8,900.00	8,788.58	8,864.24	8,788.58	18.20	17.06	-90.39	246.00	-678.43	1,626.05	1,593.66	32.39	50.204	
9,000.00	8,888.58	8,964.24	8,888.58	18.26	17.13	-90.39	246.00	-678.43	1,626.05	1,593.53	32.52	49.997	
9,100.00	8,988.58	9,064.24	8,988.58	18.32	17.21	-90.39	246.00	-678.43	1,626.05	1,593.39	32.66	49.792	
9,200.00	9,088.58	9,164.24	9,088.58	18.39	17.28	-90.39	246.00	-678.43	1,626.05	1,593.26	32.79	49.587	
9,300.00	9,188.58	9,264.24	9,188.58	18.45	17.35	-90.39	246.00	-678.43	1,626.05	1,593.12	32.93	49.384	
9,400.00	9,288.58	9,364.24	9,288.58	18.51	17.42	-90.39	246.00	-678.43	1,626.05	1,592.99	33.06	49.183	
9,500.00	9,388.58	9,464.24	9,388.58	18.57	17.50	-90.39	246.00	-678.43	1,626.05	1,592.85	33.20	48.982	
9,600.00	9,488.58	9,564.24	9,488.58	18.64	17.57	-90.39	246.00	-678.43	1,626.05	1,592.72	33.33	48.783	
9,700.00	9,588.58	9,664.24	9,588.58	18.70	17.64	-90.39	246.00	-678.43	1,626.05	1,592.58	33.47	48.585	
9,800.00	9,688.58	9,764.24	9,688.58	18.76	17.71	-90.39	246.00	-678.43	1,626.05	1,592.44	33.60	48.388	
9,900.00	9,788.58	9,864.24	9,788.58	18.83	17.79	-90.39	246.00	-678.43	1,626.05	1,592.31	33.74	48.192	
10,000.00	9,888.58	9,964.24	9,888.58	18.89	17.86	-90.39	246.00	-678.43	1,626.05	1,592.17	33.88	47.998	
10,100.00	9,988.58	10,064.24	9,988.58	18.95	17.93	-90.39	246.00	-678.43	1,626.05	1,592.03	34.01	47.805	
10,200.00	10,088.58	10,164.24	10,088.58	19.02	18.01	-90.39	246.00	-678.43	1,626.05	1,591.90	34.15	47.613	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 221H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,188.58	10,264.24	10,188.58	19.08	18.08	-90.39	246.00	-678.43	1,626.05	1,591.76	34.29	47.423	
10,400.00	10,288.58	10,364.24	10,288.58	19.15	18.15	-90.39	246.00	-678.43	1,626.05	1,591.62	34.43	47.233	
10,500.00	10,388.58	10,464.24	10,388.58	19.21	18.23	-90.39	246.00	-678.43	1,626.05	1,591.48	34.56	47.045	
10,600.00	10,488.58	10,564.24	10,488.58	19.27	18.30	-90.39	246.00	-678.43	1,626.05	1,591.35	34.70	46.858	
10,700.00	10,588.58	10,664.24	10,588.58	19.34	18.37	-90.39	246.00	-678.43	1,626.05	1,591.21	34.84	46.673	
10,800.00	10,688.58	10,764.24	10,688.58	19.40	18.45	-90.39	246.00	-678.43	1,626.05	1,591.07	34.98	46.488	
10,900.00	10,788.58	10,864.24	10,788.58	19.47	18.52	-90.39	246.00	-678.43	1,626.05	1,590.93	35.12	46.304	
11,000.00	10,888.58	10,964.24	10,888.58	19.53	18.59	-90.39	246.00	-678.43	1,626.05	1,590.79	35.26	46.122	
11,100.00	10,988.58	11,064.24	10,988.58	19.60	18.67	-90.39	246.00	-678.43	1,626.05	1,590.65	35.39	45.941	
11,200.00	11,088.58	11,164.24	11,088.58	19.66	18.74	-90.39	246.00	-678.43	1,626.05	1,590.51	35.53	45.761	
11,300.00	11,188.58	11,264.24	11,188.58	19.73	18.82	-90.39	246.00	-678.43	1,626.05	1,590.37	35.67	45.582	
11,400.00	11,288.58	11,364.24	11,288.58	19.79	18.89	-90.39	246.00	-678.43	1,626.05	1,590.24	35.81	45.405	
11,500.00	11,388.58	11,464.24	11,388.58	19.86	18.96	-90.39	246.00	-678.43	1,626.05	1,590.10	35.95	45.228	
11,600.00	11,488.58	11,564.24	11,488.58	19.92	19.04	-90.39	246.00	-678.43	1,626.05	1,589.96	36.09	45.053	
11,700.00	11,588.58	11,664.24	11,588.58	19.99	19.11	-90.39	246.00	-678.43	1,626.05	1,589.82	36.23	44.878	
11,800.00	11,688.58	11,764.24	11,688.58	20.05	19.19	-90.39	246.00	-678.43	1,626.05	1,589.68	36.37	44.705	
11,900.00	11,788.58	11,864.24	11,788.58	20.12	19.26	-90.39	246.00	-678.43	1,626.05	1,589.53	36.51	44.533	
12,000.00	11,888.58	11,964.24	11,888.58	20.19	19.34	-90.39	246.00	-678.43	1,626.05	1,589.39	36.65	44.362	
12,000.00	11,888.58	11,964.24	11,888.58	20.19	19.34	-90.39	246.00	-678.43	1,626.05	1,589.39	36.65	44.362	
12,100.00	11,988.51	12,064.17	11,988.51	20.25	19.41	90.18	246.00	-678.43	1,626.05	1,589.32	36.74	44.262	
12,200.00	12,086.82	12,162.47	12,086.82	20.31	19.48	90.78	246.00	-678.43	1,626.21	1,589.45	36.76	44.242	
12,300.00	12,180.57	12,256.23	12,180.57	20.35	19.55	91.83	246.00	-678.43	1,627.05	1,590.31	36.74	44.286	
12,400.00	12,266.93	12,342.58	12,266.93	20.39	19.61	93.09	246.00	-678.43	1,629.59	1,592.91	36.69	44.421	
12,500.00	12,343.26	12,418.80	12,343.03	20.44	19.65	94.18	242.76	-678.74	1,635.10	1,598.54	36.56	44.722	
12,600.00	12,407.24	12,499.49	12,422.39	20.52	19.68	95.07	228.61	-680.10	1,644.27	1,607.89	36.38	45.191	
12,700.00	12,456.94	12,589.04	12,507.14	20.67	19.70	95.85	200.12	-682.85	1,657.09	1,620.88	36.21	45.765	
12,800.00	12,490.84	12,692.29	12,597.93	20.88	19.72	96.60	151.46	-687.53	1,673.27	1,637.17	36.10	46.345	
12,900.00	12,507.91	12,817.74	12,694.21	21.18	19.76	97.47	71.80	-695.20	1,692.17	1,655.99	36.18	46.766	
13,000.00	12,510.43	12,983.07	12,790.41	21.56	19.90	99.68	-61.34	-708.02	1,712.00	1,675.39	36.61	46.759	
13,100.00	12,511.30	13,209.66	12,852.95	22.01	20.32	101.55	-276.60	-728.75	1,727.48	1,690.02	37.46	46.121	
13,200.00	12,512.18	13,455.06	12,856.71	22.52	21.08	101.48	-521.32	-745.13	1,734.99	1,696.30	38.69	44.843	
13,300.00	12,513.05	13,612.78	12,858.09	23.10	21.69	101.47	-679.02	-745.43	1,735.65	1,695.73	39.92	43.475	
13,400.00	12,513.92	13,712.78	12,858.97	23.73	22.15	101.47	-779.02	-744.57	1,735.65	1,694.60	41.05	42.280	
13,500.00	12,514.80	13,812.78	12,859.85	24.41	22.66	101.47	-879.01	-743.71	1,735.65	1,693.33	42.32	41.011	
13,600.00	12,515.67	13,912.78	12,860.73	25.15	23.23	101.47	-979.00	-742.85	1,735.66	1,691.94	43.72	39.698	
13,700.00	12,516.55	14,012.78	12,861.60	25.93	23.86	101.47	-1,078.99	-741.99	1,735.66	1,690.42	45.24	38.367	
13,800.00	12,517.42	14,112.78	12,862.48	26.76	24.54	101.47	-1,178.99	-741.13	1,735.66	1,688.80	46.86	37.039	
13,900.00	12,518.29	14,212.78	12,863.36	27.63	25.28	101.47	-1,278.98	-740.27	1,735.66	1,687.08	48.58	35.729	
14,000.00	12,519.17	14,312.78	12,864.24	28.53	26.07	101.47	-1,378.97	-739.41	1,735.66	1,685.28	50.38	34.450	
14,100.00	12,520.04	14,412.78	12,865.12	29.47	26.91	101.47	-1,478.96	-738.55	1,735.66	1,683.40	52.26	33.211	
14,200.00	12,520.91	14,512.78	12,865.99	30.44	27.79	101.47	-1,578.96	-737.68	1,735.67	1,681.45	54.21	32.017	
14,300.00	12,521.79	14,612.78	12,866.87	31.44	28.71	101.47	-1,678.95	-736.82	1,735.67	1,679.45	56.22	30.872	
14,400.00	12,522.66	14,712.78	12,867.75	32.46	29.66	101.47	-1,778.94	-735.96	1,735.67	1,677.38	58.29	29.777	
14,500.00	12,523.53	14,812.78	12,868.63	33.51	30.65	101.47	-1,878.93	-735.10	1,735.67	1,675.27	60.40	28.734	
14,600.00	12,524.41	14,912.78	12,869.50	34.58	31.67	101.47	-1,978.93	-734.24	1,735.67	1,673.11	62.56	27.742	
14,700.00	12,525.28	15,012.78	12,870.38	35.67	32.71	101.47	-2,078.92	-733.38	1,735.67	1,670.91	64.76	26.800	
14,800.00	12,526.16	15,112.78	12,871.26	36.78	33.78	101.47	-2,178.91	-732.52	1,735.68	1,668.67	67.00	25.905	
14,900.00	12,527.03	15,212.78	12,872.14	37.90	34.88	101.47	-2,278.90	-731.66	1,735.68	1,666.41	69.27	25.057	
15,000.00	12,527.90	15,312.78	12,873.02	39.04	35.99	101.47	-2,378.90	-730.80	1,735.68	1,664.11	71.57	24.252	
15,100.00	12,528.78	15,412.78	12,873.89	40.20	37.12	101.47	-2,478.89	-729.94	1,735.68	1,661.79	73.89	23.489	
15,200.00	12,529.65	15,512.78	12,874.77	41.37	38.26	101.47	-2,578.88	-729.08	1,735.68	1,659.44	76.24	22.765	
15,300.00	12,530.52	15,612.78	12,875.65	42.55	39.42	101.47	-2,678.87	-728.22	1,735.68	1,657.07	78.61	22.078	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 221H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	12,531.40	15,712.78	12,876.53	43.74	40.60	101.47	-2,778.87	-727.36	1,735.69	1,654.68	81.01	21.427	
15,500.00	12,532.27	15,812.78	12,877.41	44.94	41.78	101.47	-2,878.86	-726.50	1,735.69	1,652.27	83.42	20.808	
15,600.00	12,533.14	15,912.78	12,878.28	46.15	42.98	101.47	-2,978.85	-725.64	1,735.69	1,649.85	85.84	20.220	
15,700.00	12,534.02	16,012.78	12,879.16	47.37	44.19	101.47	-3,078.84	-724.78	1,735.69	1,647.41	88.28	19.660	
15,800.00	12,534.89	16,112.78	12,880.04	48.59	45.41	101.47	-3,178.84	-723.92	1,735.69	1,644.95	90.74	19.128	
15,900.00	12,535.76	16,212.78	12,880.92	49.83	46.63	101.47	-3,278.83	-723.06	1,735.69	1,642.48	93.21	18.621	
16,000.00	12,536.64	16,312.78	12,881.80	51.07	47.87	101.47	-3,378.82	-722.20	1,735.70	1,640.00	95.69	18.139	
16,100.00	12,537.51	16,412.78	12,882.67	52.32	49.11	101.47	-3,478.81	-721.34	1,735.70	1,637.51	98.18	17.678	
16,200.00	12,538.39	16,512.78	12,883.55	53.57	50.36	101.47	-3,578.81	-720.48	1,735.70	1,635.01	100.69	17.239	
16,300.00	12,539.26	16,612.78	12,884.43	54.83	51.62	101.47	-3,678.80	-719.62	1,735.70	1,632.50	103.20	16.819	
16,400.00	12,540.13	16,712.78	12,885.31	56.09	52.88	101.47	-3,778.79	-718.76	1,735.70	1,629.98	105.72	16.418	
16,500.00	12,541.01	16,812.78	12,886.18	57.36	54.14	101.47	-3,878.78	-717.90	1,735.70	1,627.46	108.25	16.034	
16,600.00	12,541.88	16,912.78	12,887.06	58.64	55.41	101.47	-3,978.78	-717.04	1,735.71	1,624.92	110.79	15.667	
16,700.00	12,542.75	17,012.78	12,887.94	59.91	56.69	101.47	-4,078.77	-716.18	1,735.71	1,622.38	113.33	15.316	
16,800.00	12,543.63	17,112.78	12,888.82	61.20	57.97	101.47	-4,178.76	-715.32	1,735.71	1,619.83	115.88	14.978	
16,900.00	12,544.50	17,212.78	12,889.70	62.48	59.26	101.47	-4,278.75	-714.46	1,735.71	1,617.27	118.44	14.655	
17,000.00	12,545.37	17,312.78	12,890.57	63.77	60.55	101.47	-4,378.75	-713.59	1,735.71	1,614.71	121.00	14.345	
17,100.00	12,546.25	17,412.78	12,891.45	65.06	61.84	101.47	-4,478.74	-712.73	1,735.71	1,612.15	123.57	14.047	
17,200.00	12,547.12	17,512.78	12,892.33	66.36	63.13	101.47	-4,578.73	-711.87	1,735.72	1,609.57	126.14	13.760	
17,300.00	12,547.99	17,612.78	12,893.21	67.66	64.43	101.47	-4,678.72	-711.01	1,735.72	1,607.00	128.72	13.484	
17,400.00	12,548.87	17,712.78	12,894.09	68.96	65.73	101.47	-4,778.72	-710.15	1,735.72	1,604.42	131.30	13.219	
17,500.00	12,549.74	17,812.78	12,894.96	70.26	67.04	101.47	-4,878.71	-709.29	1,735.72	1,601.83	133.89	12.964	
17,600.00	12,550.62	17,912.78	12,895.84	71.57	68.35	101.47	-4,978.70	-708.43	1,735.72	1,599.24	136.48	12.718	
17,700.00	12,551.49	18,012.78	12,896.72	72.88	69.65	101.47	-5,078.69	-707.57	1,735.72	1,596.65	139.08	12.480	
17,800.00	12,552.36	18,112.78	12,897.60	74.19	70.97	101.47	-5,178.69	-706.71	1,735.73	1,594.05	141.67	12.252	
17,900.00	12,553.24	18,212.78	12,898.48	75.50	72.28	101.47	-5,278.68	-705.85	1,735.73	1,591.45	144.28	12.031	
18,000.00	12,554.11	18,312.78	12,899.35	76.81	73.60	101.47	-5,378.67	-704.99	1,735.73	1,588.85	146.88	11.817	
18,100.00	12,554.98	18,412.78	12,900.23	78.13	74.92	101.47	-5,478.66	-704.13	1,735.73	1,586.24	149.49	11.611	
18,200.00	12,555.86	18,512.78	12,901.11	79.45	76.24	101.47	-5,578.65	-703.27	1,735.73	1,583.63	152.10	11.412	
18,300.00	12,556.73	18,612.78	12,901.99	80.77	77.56	101.47	-5,678.65	-702.41	1,735.73	1,581.02	154.71	11.219	
18,400.00	12,557.60	18,712.78	12,902.86	82.09	78.88	101.47	-5,778.64	-701.55	1,735.74	1,578.40	157.33	11.032	
18,500.00	12,558.48	18,812.78	12,903.74	83.42	80.21	101.47	-5,878.63	-700.69	1,735.74	1,575.79	159.95	10.852	
18,600.00	12,559.35	18,912.78	12,904.62	84.74	81.53	101.47	-5,978.62	-699.83	1,735.74	1,573.17	162.57	10.677	
18,700.00	12,560.23	19,012.78	12,905.50	86.07	82.86	101.47	-6,078.62	-698.97	1,735.74	1,570.55	165.19	10.507	
18,800.00	12,561.10	19,112.78	12,906.38	87.40	84.19	101.47	-6,178.61	-698.11	1,735.74	1,567.92	167.82	10.343	
18,900.00	12,561.97	19,212.78	12,907.25	88.72	85.52	101.47	-6,278.60	-697.25	1,735.74	1,565.30	170.45	10.183	
19,000.00	12,562.85	19,312.78	12,908.13	90.05	86.85	101.47	-6,378.59	-696.39	1,735.74	1,562.67	173.08	10.029	
19,100.00	12,563.72	19,412.78	12,909.01	91.39	88.19	101.47	-6,478.59	-695.53	1,735.75	1,560.04	175.71	9.879	
19,200.00	12,564.59	19,512.78	12,909.89	92.72	89.52	101.47	-6,578.58	-694.67	1,735.75	1,557.41	178.34	9.733	
19,300.00	12,565.47	19,612.78	12,910.77	94.05	90.85	101.48	-6,678.57	-693.81	1,735.75	1,554.77	180.98	9.591	
19,400.00	12,566.34	19,712.78	12,911.64	95.39	92.19	101.48	-6,778.56	-692.95	1,735.75	1,552.14	183.61	9.453	
19,500.00	12,567.21	19,812.78	12,912.52	96.72	93.53	101.48	-6,878.56	-692.09	1,735.75	1,549.50	186.25	9.319	
19,600.00	12,568.09	19,912.78	12,913.40	98.06	94.87	101.48	-6,978.55	-691.23	1,735.75	1,546.86	188.89	9.189	
19,700.00	12,568.96	20,012.78	12,914.28	99.40	96.21	101.48	-7,078.54	-690.37	1,735.76	1,544.22	191.53	9.062	
19,800.00	12,569.83	20,112.78	12,915.16	100.73	97.55	101.48	-7,178.53	-689.50	1,735.76	1,541.58	194.18	8.939	
19,900.00	12,570.71	20,212.78	12,916.03	102.07	98.89	101.48	-7,278.53	-688.64	1,735.76	1,538.94	196.82	8.819	
20,000.00	12,571.58	20,312.78	12,916.91	103.41	100.23	101.48	-7,378.52	-687.78	1,735.76	1,536.30	199.46	8.702	
20,100.00	12,572.46	20,412.78	12,917.79	104.75	101.57	101.48	-7,478.51	-686.92	1,735.76	1,533.65	202.11	8.588	
20,200.00	12,573.33	20,512.78	12,918.67	106.10	102.91	101.48	-7,578.50	-686.06	1,735.76	1,531.01	204.76	8.477	
20,300.00	12,574.20	20,612.78	12,919.54	107.44	104.26	101.48	-7,678.50	-685.20	1,735.77	1,528.36	207.41	8.369	
20,400.00	12,575.08	20,712.78	12,920.42	108.78	105.60	101.48	-7,778.49	-684.34	1,735.77	1,525.71	210.06	8.263	
20,500.00	12,575.95	20,812.78	12,921.30	110.12	106.95	101.48	-7,878.48	-683.48	1,735.77	1,523.06	212.71	8.160	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 221H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,576.82	20,912.78	12,922.18	111.47	108.29	101.48	-7,978.47	-682.62	1,735.77	1,520.41	215.36	8.060	
20,700.00	12,577.70	21,012.78	12,923.06	112.81	109.64	101.48	-8,078.47	-681.76	1,735.77	1,517.76	218.01	7.962	
20,800.00	12,578.57	21,112.78	12,923.93	114.16	110.99	101.48	-8,178.46	-680.90	1,735.77	1,515.11	220.67	7.866	
20,900.00	12,579.44	21,212.78	12,924.81	115.51	112.33	101.48	-8,278.45	-680.04	1,735.78	1,512.46	223.32	7.773	
21,000.00	12,580.32	21,312.78	12,925.69	116.85	113.68	101.48	-8,378.44	-679.18	1,735.78	1,509.80	225.98	7.681	
21,100.00	12,581.19	21,412.78	12,926.57	118.20	115.03	101.48	-8,478.44	-678.32	1,735.78	1,507.15	228.63	7.592	
21,200.00	12,582.06	21,512.78	12,927.45	119.55	116.38	101.48	-8,578.43	-677.46	1,735.78	1,504.49	231.29	7.505	
21,300.00	12,582.94	21,612.78	12,928.32	120.89	117.73	101.48	-8,678.42	-676.60	1,735.78	1,501.84	233.95	7.420	
21,400.00	12,583.81	21,712.78	12,929.20	122.24	119.08	101.48	-8,778.41	-675.74	1,735.78	1,499.18	236.61	7.336	
21,500.00	12,584.69	21,812.78	12,930.08	123.59	120.43	101.48	-8,878.41	-674.88	1,735.79	1,496.52	239.26	7.255	
21,600.00	12,585.56	21,912.78	12,930.96	124.94	121.78	101.48	-8,978.40	-674.02	1,735.79	1,493.86	241.92	7.175	
21,700.00	12,586.43	22,012.78	12,931.84	126.29	123.13	101.48	-9,078.39	-673.16	1,735.79	1,491.20	244.59	7.097	
21,800.00	12,587.31	22,112.78	12,932.71	127.64	124.48	101.48	-9,178.38	-672.30	1,735.79	1,488.54	247.25	7.020	
21,900.00	12,588.18	22,212.78	12,933.59	128.99	125.84	101.48	-9,278.38	-671.44	1,735.79	1,485.88	249.91	6.946	
22,000.00	12,589.05	22,312.78	12,934.47	130.34	127.19	101.48	-9,378.37	-670.58	1,735.79	1,483.22	252.57	6.872	
22,100.00	12,589.93	22,412.78	12,935.35	131.70	128.54	101.48	-9,478.36	-669.72	1,735.80	1,480.56	255.23	6.801	
22,200.00	12,590.80	22,512.78	12,936.22	133.05	129.90	101.48	-9,578.35	-668.86	1,735.80	1,477.90	257.90	6.731	
22,300.00	12,591.67	22,612.78	12,937.10	134.40	131.25	101.48	-9,678.35	-668.00	1,735.80	1,475.24	260.56	6.662	
22,400.00	12,592.55	22,712.78	12,937.98	135.75	132.60	101.48	-9,778.34	-667.14	1,735.80	1,472.57	263.23	6.594	
22,500.00	12,593.42	22,812.78	12,938.86	137.11	133.96	101.48	-9,878.33	-666.28	1,735.80	1,469.91	265.89	6.528	
22,600.00	12,594.30	22,912.78	12,939.74	138.46	135.31	101.48	-9,978.32	-665.42	1,735.80	1,467.24	268.56	6.463	
22,700.00	12,595.17	23,012.78	12,940.61	139.81	136.67	101.48	-10,078.31	-664.55	1,735.81	1,464.58	271.23	6.400	
22,800.00	12,596.04	23,112.78	12,941.49	141.17	138.01	101.48	-10,178.31	-663.69	1,735.81	1,461.93	273.87	6.338	
22,875.30	12,596.70	23,188.08	12,942.15	142.19	138.93	101.48	-10,253.60	-663.05	1,735.81	1,460.04	275.77	6.294	SF

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 222H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	1.00	0.50	0.50	180.00	-50.00	0.00	50.01				
100.00	100.00	99.00	100.00	0.98	0.97	180.00	-50.00	0.00	50.00	48.05	1.95	25.576	
200.00	200.00	199.00	200.00	1.56	1.56	180.00	-50.00	0.00	50.00	46.88	3.12	16.045	
300.00	300.00	299.00	300.00	1.98	1.98	180.00	-50.00	0.00	50.00	46.04	3.96	12.632	
400.00	400.00	399.00	400.00	2.33	2.33	180.00	-50.00	0.00	50.00	45.34	4.66	10.740	
500.00	500.00	499.00	500.00	2.63	2.63	180.00	-50.00	0.00	50.00	44.73	5.27	9.495	
600.00	600.00	599.00	600.00	2.91	2.91	180.00	-50.00	0.00	50.00	44.18	5.82	8.595	
700.00	700.00	699.00	700.00	3.16	3.16	180.00	-50.00	0.00	50.00	43.67	6.33	7.905	
800.00	800.00	799.00	800.00	3.40	3.40	180.00	-50.00	0.00	50.00	43.20	6.80	7.354	
900.00	900.00	899.00	900.00	3.62	3.62	180.00	-50.00	0.00	50.00	42.75	7.25	6.901	
1,000.00	1,000.00	999.00	1,000.00	3.76	3.83	88.06	-50.00	0.00	50.00	42.40	7.59	6.584	
1,095.46	1,095.44	1,094.44	1,095.44	3.99	4.03	90.00	-50.00	0.00	49.97	42.00	7.97	6.271	CC
1,100.00	1,099.98	1,098.98	1,099.98	4.00	4.04	90.16	-50.00	0.00	49.97	41.98	7.99	6.257	
1,200.00	1,199.88	1,198.88	1,199.88	4.24	4.23	95.24	-50.00	0.00	50.18	41.81	8.37	5.998	ES
1,300.00	1,299.63	1,298.63	1,299.63	4.46	4.42	103.08	-50.00	0.00	51.31	42.57	8.74	5.871	
1,400.00	1,399.25	1,398.25	1,399.25	4.60	4.60	112.08	-50.00	0.00	53.95	44.88	9.07	5.950	
1,500.00	1,498.87	1,497.87	1,498.87	4.78	4.77	120.08	-50.00	0.00	57.80	48.37	9.44	6.125	
1,600.00	1,598.49	1,598.63	1,599.62	4.96	4.98	126.24	-49.84	1.26	61.74	51.93	9.81	6.291	
1,700.00	1,698.11	1,699.74	1,700.64	5.14	5.17	130.10	-49.36	5.18	64.27	54.10	10.18	6.316	
1,800.00	1,797.73	1,801.02	1,801.71	5.32	5.36	132.23	-48.56	11.77	64.98	54.45	10.53	6.172	
1,900.00	1,897.34	1,901.44	1,901.76	5.49	5.44	133.20	-47.51	20.32	64.16	53.37	10.79	5.947	
2,000.00	1,996.96	2,001.43	2,001.37	5.67	5.60	134.12	-46.44	28.97	63.25	52.13	11.12	5.687	
2,100.00	2,096.58	2,101.42	2,100.98	5.85	5.75	135.06	-45.38	37.62	62.35	50.90	11.46	5.443	
2,200.00	2,196.20	2,201.42	2,200.59	6.04	5.91	136.03	-44.32	46.27	61.47	49.67	11.80	5.209	
2,300.00	2,295.72	2,303.02	2,301.70	6.23	6.08	143.61	-42.37	56.07	60.47	48.32	12.15	4.977	
2,400.00	2,394.97	2,404.58	2,402.50	6.43	6.27	149.79	-38.66	67.90	59.39	46.86	12.53	4.740	
2,500.00	2,493.89	2,506.10	2,502.92	6.64	6.46	155.35	-33.21	81.76	58.31	45.39	12.92	4.512	
2,600.00	2,592.40	2,607.57	2,602.88	6.85	6.66	160.85	-26.02	97.62	57.32	43.99	13.33	4.300	
2,700.00	2,690.45	2,708.88	2,702.20	7.07	6.86	166.58	-17.10	115.45	56.56	42.81	13.75	4.114	
2,715.13	2,705.24	2,723.99	2,716.99	7.10	6.88	167.46	-15.66	118.24	56.53	42.72	13.81	4.093	
2,800.00	2,787.96	2,808.77	2,799.92	7.28	7.02	172.22	-7.57	133.90	57.59	43.42	14.16	4.066	
2,900.00	2,884.87	2,908.61	2,897.57	7.49	7.19	177.13	1.97	152.33	61.54	46.97	14.58	4.222	
3,000.00	2,981.46	3,008.39	2,995.18	7.68	7.37	-179.62	11.49	170.75	67.00	52.04	14.96	4.478	
3,100.00	3,078.05	3,108.18	3,092.78	7.87	7.54	-176.87	21.02	189.17	72.65	57.30	15.35	4.733	
3,200.00	3,174.64	3,207.96	3,190.39	8.06	7.72	-174.51	30.55	207.60	78.43	62.70	15.74	4.984	
3,300.00	3,271.24	3,307.75	3,287.99	8.26	7.90	-172.49	40.08	226.02	84.33	68.21	16.13	5.229	
3,400.00	3,367.83	3,407.53	3,385.60	8.51	8.08	-170.73	49.61	244.44	90.32	73.80	16.52	5.467	
3,500.00	3,464.42	3,507.32	3,483.20	8.80	8.31	-169.19	59.13	262.86	96.39	79.47	16.92	5.697	
3,600.00	3,561.01	3,607.10	3,580.81	9.09	8.54	-167.83	68.66	281.29	102.52	85.19	17.32	5.918	
3,700.00	3,657.60	3,706.89	3,678.41	9.38	8.77	-166.63	78.19	299.71	108.69	90.96	17.73	6.130	
3,800.00	3,754.20	3,806.67	3,776.02	9.68	9.00	-165.56	87.72	318.13	114.91	96.77	18.14	6.334	
3,900.00	3,850.79	3,906.45	3,873.62	9.98	9.24	-164.59	97.24	336.55	121.17	102.61	18.56	6.529	
4,000.00	3,947.38	4,006.24	3,971.23	10.28	9.48	-163.73	106.77	354.98	127.46	108.48	18.98	6.715	
4,100.00	4,043.97	4,106.02	4,068.83	10.59	9.72	-162.94	116.30	373.40	133.77	114.37	19.41	6.894	
4,200.00	4,140.56	4,205.81	4,166.44	10.90	9.97	-162.22	125.83	391.82	140.11	120.27	19.83	7.064	
4,300.00	4,237.16	4,305.59	4,264.04	11.21	10.22	-161.57	135.35	410.24	146.46	126.20	20.27	7.227	
4,400.00	4,333.75	4,405.38	4,361.65	11.52	10.46	-160.97	144.88	428.67	152.84	132.13	20.70	7.382	
4,500.00	4,430.34	4,505.16	4,459.25	11.84	10.71	-160.42	154.41	447.09	159.23	138.08	21.14	7.531	
4,600.00	4,526.93	4,604.95	4,556.86	12.16	10.97	-159.91	163.94	465.51	165.63	144.04	21.59	7.673	
4,700.00	4,623.53	4,704.73	4,654.47	12.48	11.22	-159.44	173.46	483.93	172.04	150.01	22.03	7.809	
4,800.00	4,720.12	4,804.51	4,752.07	12.80	11.47	-159.00	182.99	502.36	178.47	155.99	22.48	7.938	
4,900.00	4,816.71	4,904.30	4,849.68	13.12	11.73	-158.60	192.52	520.78	184.90	161.97	22.93	8.063	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 222H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,913.30	5,004.08	4,947.28	13.45	11.99	-158.22	202.05	539.20	191.34	167.96	23.39	8.181	
5,100.00	5,009.89	5,103.87	5,044.89	13.78	12.24	-157.86	211.57	557.62	197.80	173.95	23.84	8.296	
5,200.00	5,106.49	5,200.00	5,138.97	14.10	12.46	-157.58	220.65	575.16	204.49	180.23	24.26	8.428	
5,300.00	5,203.08	5,296.86	5,234.16	14.43	12.69	-157.61	228.85	591.03	212.98	188.27	24.71	8.620	
5,400.00	5,299.67	5,391.68	5,327.77	14.75	12.90	-157.97	235.81	604.48	223.58	198.47	25.11	8.903	
5,500.00	5,396.65	5,486.17	5,421.39	15.07	13.09	-158.51	241.68	615.83	234.88	209.37	25.52	9.205	
5,600.00	5,494.23	5,580.44	5,515.08	15.36	13.25	-159.08	246.47	625.10	245.89	220.00	25.89	9.497	
5,700.00	5,592.35	5,674.49	5,608.77	15.62	13.39	-159.67	250.19	632.30	256.60	230.35	26.24	9.779	
5,800.00	5,690.94	5,768.33	5,702.43	15.86	13.52	-160.28	252.85	637.43	267.00	240.44	26.56	10.052	
5,900.00	5,789.93	5,861.94	5,795.98	16.07	13.62	-160.90	254.45	640.52	277.12	250.26	26.85	10.320	
6,000.00	5,889.26	5,956.98	5,891.00	16.25	13.69	-161.55	254.99	641.57	286.94	259.85	27.09	10.590	
6,100.00	5,988.86	6,054.84	5,988.86	16.41	13.75	-162.13	254.99	641.57	295.42	268.11	27.31	10.818	
6,200.00	6,088.66	6,154.64	6,088.66	16.53	13.82	-162.53	254.99	641.57	301.44	273.89	27.55	10.943	
6,300.00	6,188.59	6,254.57	6,188.59	16.64	13.89	-162.75	254.99	641.57	304.97	277.20	27.78	10.980	
6,400.00	6,288.58	6,354.56	6,288.58	16.71	13.96	-90.39	254.99	641.57	306.02	278.09	27.93	10.956	
6,500.00	6,388.58	6,454.56	6,388.58	16.76	14.04	-90.39	254.99	641.57	306.02	277.95	28.06	10.905	
6,600.00	6,488.58	6,554.56	6,488.58	16.82	14.11	-90.39	254.99	641.57	306.02	277.82	28.19	10.854	
6,700.00	6,588.58	6,654.56	6,588.58	16.88	14.18	-90.39	254.99	641.57	306.02	277.69	28.32	10.804	
6,800.00	6,688.58	6,754.56	6,688.58	16.94	14.26	-90.39	254.99	641.57	306.02	277.56	28.46	10.754	
6,900.00	6,788.58	6,854.56	6,788.58	17.00	14.33	-90.39	254.99	641.57	306.02	277.43	28.59	10.704	
7,000.00	6,888.58	6,954.56	6,888.58	17.05	14.41	-90.39	254.99	641.57	306.02	277.30	28.72	10.655	
7,100.00	6,988.58	7,054.56	6,988.58	17.11	14.48	-90.39	254.99	641.57	306.02	277.16	28.85	10.606	
7,200.00	7,088.58	7,154.56	7,088.58	17.17	14.55	-90.39	254.99	641.57	306.02	277.03	28.99	10.557	
7,300.00	7,188.58	7,254.56	7,188.58	17.23	14.63	-90.39	254.99	641.57	306.02	276.90	29.12	10.509	
7,400.00	7,288.58	7,354.56	7,288.58	17.29	14.70	-90.39	254.99	641.57	306.02	276.76	29.25	10.461	
7,500.00	7,388.58	7,454.56	7,388.58	17.35	14.78	-90.39	254.99	641.57	306.02	276.63	29.39	10.414	
7,600.00	7,488.58	7,554.56	7,488.58	17.41	14.85	-90.39	254.99	641.57	306.02	276.50	29.52	10.366	
7,700.00	7,588.58	7,654.56	7,588.58	17.47	14.92	-90.39	254.99	641.57	306.02	276.36	29.65	10.319	
7,800.00	7,688.58	7,754.56	7,688.58	17.53	15.00	-90.39	254.99	641.57	306.02	276.23	29.79	10.273	
7,900.00	7,788.58	7,854.56	7,788.58	17.59	15.07	-90.39	254.99	641.57	306.02	276.09	29.92	10.227	
8,000.00	7,888.58	7,954.56	7,888.58	17.65	15.15	-90.39	254.99	641.57	306.02	275.96	30.06	10.181	
8,100.00	7,988.58	8,054.56	7,988.58	17.71	15.22	-90.39	254.99	641.57	306.02	275.82	30.19	10.135	
8,200.00	8,088.58	8,154.56	8,088.58	17.77	15.30	-90.39	254.99	641.57	306.02	275.69	30.33	10.090	
8,300.00	8,188.58	8,254.56	8,188.58	17.83	15.37	-90.39	254.99	641.57	306.02	275.55	30.47	10.045	
8,400.00	8,288.58	8,354.56	8,288.58	17.89	15.45	-90.39	254.99	641.57	306.02	275.42	30.60	10.000	
8,500.00	8,388.58	8,454.56	8,388.58	17.95	15.52	-90.39	254.99	641.57	306.02	275.28	30.74	9.956	
8,600.00	8,488.58	8,554.56	8,488.58	18.02	15.60	-90.39	254.99	641.57	306.02	275.14	30.87	9.911	
8,700.00	8,588.58	8,654.56	8,588.58	18.08	15.67	-90.39	254.99	641.57	306.02	275.01	31.01	9.868	
8,800.00	8,688.58	8,754.56	8,688.58	18.14	15.75	-90.39	254.99	641.57	306.02	274.87	31.15	9.824	
8,900.00	8,788.58	8,854.56	8,788.58	18.20	15.82	-90.39	254.99	641.57	306.02	274.73	31.29	9.781	
9,000.00	8,888.58	8,954.56	8,888.58	18.26	15.90	-90.39	254.99	641.57	306.02	274.59	31.42	9.738	
9,100.00	8,988.58	9,054.56	8,988.58	18.32	15.97	-90.39	254.99	641.57	306.02	274.46	31.56	9.696	
9,200.00	9,088.58	9,154.56	9,088.58	18.39	16.05	-90.39	254.99	641.57	306.02	274.32	31.70	9.654	
9,300.00	9,188.58	9,254.56	9,188.58	18.45	16.12	-90.39	254.99	641.57	306.02	274.18	31.84	9.612	
9,400.00	9,288.58	9,354.56	9,288.58	18.51	16.20	-90.39	254.99	641.57	306.02	274.04	31.98	9.570	
9,500.00	9,388.58	9,454.56	9,388.58	18.57	16.27	-90.39	254.99	641.57	306.02	273.90	32.12	9.529	
9,600.00	9,488.58	9,554.56	9,488.58	18.64	16.35	-90.39	254.99	641.57	306.02	273.76	32.25	9.487	
9,700.00	9,588.58	9,654.56	9,588.58	18.70	16.43	-90.39	254.99	641.57	306.02	273.62	32.39	9.447	
9,800.00	9,688.58	9,754.56	9,688.58	18.76	16.50	-90.39	254.99	641.57	306.02	273.48	32.53	9.406	
9,900.00	9,788.58	9,854.56	9,788.58	18.83	16.58	-90.39	254.99	641.57	306.02	273.34	32.67	9.366	
10,000.00	9,888.58	9,954.56	9,888.58	18.89	16.65	-90.39	254.99	641.57	306.02	273.20	32.81	9.326	
10,100.00	9,988.58	10,054.56	9,988.58	18.95	16.73	-90.39	254.99	641.57	306.02	273.06	32.95	9.286	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 222H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,200.00	10,088.58	10,154.56	10,088.58	19.02	16.81	-90.39	254.99	641.57	306.02	272.92	33.09	9.247	
10,300.00	10,188.58	10,254.56	10,188.58	19.08	16.88	-90.39	254.99	641.57	306.02	272.78	33.23	9.208	
10,400.00	10,288.58	10,354.56	10,288.58	19.15	16.96	-90.39	254.99	641.57	306.02	272.64	33.37	9.169	
10,500.00	10,388.58	10,454.56	10,388.58	19.21	17.03	-90.39	254.99	641.57	306.02	272.50	33.52	9.131	
10,600.00	10,488.58	10,554.56	10,488.58	19.27	17.11	-90.39	254.99	641.57	306.02	272.36	33.66	9.092	
10,700.00	10,588.58	10,654.56	10,588.58	19.34	17.19	-90.39	254.99	641.57	306.02	272.22	33.80	9.054	
10,800.00	10,688.58	10,754.56	10,688.58	19.40	17.26	-90.39	254.99	641.57	306.02	272.08	33.94	9.017	
10,900.00	10,788.58	10,854.56	10,788.58	19.47	17.34	-90.39	254.99	641.57	306.02	271.94	34.08	8.979	
11,000.00	10,888.58	10,954.56	10,888.58	19.53	17.42	-90.39	254.99	641.57	306.02	271.79	34.22	8.942	
11,100.00	10,988.58	11,054.56	10,988.58	19.60	17.49	-90.39	254.99	641.57	306.02	271.65	34.36	8.905	
11,200.00	11,088.58	11,154.56	11,088.58	19.66	17.57	-90.39	254.99	641.57	306.02	271.51	34.51	8.868	
11,300.00	11,188.58	11,254.56	11,188.58	19.73	17.65	-90.39	254.99	641.57	306.02	271.37	34.65	8.832	
11,400.00	11,288.58	11,354.56	11,288.58	19.79	17.72	-90.39	254.99	641.57	306.02	271.22	34.79	8.796	
11,500.00	11,388.58	11,454.56	11,388.58	19.86	17.80	-90.39	254.99	641.57	306.02	271.08	34.93	8.760	
11,600.00	11,488.58	11,554.56	11,488.58	19.92	17.88	-90.39	254.99	641.57	306.02	270.94	35.08	8.724	
11,700.00	11,588.58	11,654.56	11,588.58	19.99	17.95	-90.39	254.99	641.57	306.02	270.80	35.22	8.689	
11,800.00	11,688.58	11,754.56	11,688.58	20.05	18.03	-90.39	254.99	641.57	306.02	270.65	35.36	8.653	
11,900.00	11,788.58	11,854.56	11,788.58	20.12	18.11	-90.39	254.99	641.57	306.02	270.51	35.51	8.618	
12,000.00	11,888.58	11,954.56	11,888.58	20.19	18.18	-90.39	254.99	641.57	306.02	270.37	35.65	8.584	
12,000.29	11,888.87	11,954.84	11,888.87	20.19	18.18	90.10	254.99	641.57	306.02	270.37	35.65	8.584	
12,100.00	11,988.51	12,054.49	11,988.51	20.25	18.26	90.54	254.99	641.57	306.03	270.29	35.75	8.561	
12,200.00	12,086.82	12,152.79	12,086.82	20.31	18.34	93.70	254.99	641.57	306.70	270.87	35.84	8.559	
12,300.00	12,180.57	12,246.55	12,180.57	20.35	18.41	99.22	254.99	641.57	310.90	274.92	35.98	8.641	
12,400.00	12,266.93	12,332.90	12,266.93	20.39	18.47	105.68	254.99	641.57	323.56	287.35	36.20	8.937	
12,500.00	12,343.26	12,426.73	12,360.54	20.44	18.53	112.72	250.14	641.10	348.37	311.93	36.44	9.560	
12,600.00	12,407.24	12,538.07	12,468.83	20.52	18.57	119.40	225.17	638.70	382.34	345.43	36.91	10.358	
12,700.00	12,456.94	12,671.64	12,589.33	20.67	18.59	125.37	168.51	633.24	421.33	383.08	38.25	11.015	
12,800.00	12,490.84	12,838.13	12,715.88	20.88	18.63	130.37	61.72	622.96	460.10	419.05	41.05	11.207	
12,900.00	12,507.91	13,047.75	12,822.94	21.18	18.81	133.46	-116.32	605.82	491.95	446.93	45.02	10.928	
13,000.00	12,510.43	13,268.47	12,859.12	21.56	19.26	133.52	-331.75	585.15	508.08	460.37	47.70	10.651	
13,100.00	12,511.30	13,383.12	12,860.12	22.01	19.63	132.85	-446.13	577.31	513.70	465.51	48.19	10.660	
13,200.00	12,512.18	13,498.30	12,861.13	22.52	20.13	132.52	-561.25	574.04	516.42	467.44	48.97	10.545	
13,300.00	12,513.05	13,604.73	12,862.05	23.10	20.67	132.49	-667.67	574.55	516.68	466.88	49.80	10.375	
13,400.00	12,513.92	13,704.73	12,862.92	23.73	21.27	132.49	-767.66	575.41	516.67	466.08	50.59	10.212	
13,500.00	12,514.80	13,804.73	12,863.79	24.41	21.93	132.49	-867.65	576.27	516.67	465.21	51.46	10.039	
13,600.00	12,515.67	13,904.73	12,864.66	25.15	22.65	132.49	-967.65	577.13	516.67	464.26	52.40	9.859	
13,700.00	12,516.55	14,004.73	12,865.52	25.93	23.43	132.49	-1,067.64	577.99	516.66	463.25	53.41	9.673	
13,800.00	12,517.42	14,104.73	12,866.39	26.76	24.27	132.49	-1,167.63	578.86	516.66	462.18	54.48	9.483	
13,900.00	12,518.29	14,204.73	12,867.26	27.63	25.15	132.49	-1,267.62	579.72	516.66	461.04	55.61	9.290	
14,000.00	12,519.17	14,304.73	12,868.13	28.53	26.07	132.49	-1,367.62	580.58	516.65	459.85	56.80	9.096	
14,100.00	12,520.04	14,404.73	12,869.00	29.47	27.04	132.49	-1,467.61	581.44	516.65	458.61	58.04	8.902	
14,200.00	12,520.91	14,504.73	12,869.86	30.44	28.03	132.49	-1,567.60	582.30	516.65	457.32	59.33	8.708	
14,300.00	12,521.79	14,604.73	12,870.73	31.44	29.06	132.49	-1,667.59	583.16	516.64	455.98	60.66	8.517	
14,400.00	12,522.66	14,704.73	12,871.60	32.46	30.12	132.49	-1,767.59	584.02	516.64	454.60	62.04	8.328	
14,500.00	12,523.53	14,804.73	12,872.47	33.51	31.20	132.49	-1,867.58	584.88	516.63	453.18	63.46	8.141	
14,600.00	12,524.41	14,904.73	12,873.34	34.58	32.31	132.49	-1,967.57	585.74	516.63	451.72	64.91	7.959	
14,700.00	12,525.28	15,004.73	12,874.20	35.67	33.43	132.49	-2,067.56	586.60	516.63	450.22	66.41	7.780	
14,800.00	12,526.16	15,104.73	12,875.07	36.78	34.57	132.49	-2,167.56	587.46	516.62	448.69	67.93	7.605	
14,900.00	12,527.03	15,204.73	12,875.94	37.90	35.73	132.48	-2,267.55	588.32	516.62	447.13	69.49	7.435	
15,000.00	12,527.90	15,304.73	12,876.81	39.04	36.91	132.48	-2,367.54	589.18	516.62	445.55	71.07	7.269	
15,100.00	12,528.78	15,404.73	12,877.68	40.20	38.09	132.48	-2,467.53	590.04	516.61	443.93	72.68	7.108	
15,200.00	12,529.65	15,504.73	12,878.54	41.37	39.29	132.48	-2,567.53	590.91	516.61	442.29	74.32	6.951	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 222H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,300.00	12,530.52	15,604.73	12,879.41	42.55	40.50	132.48	-2,667.52	591.77	516.61	440.63	75.98	6.799	
15,400.00	12,531.40	15,704.73	12,880.28	43.74	41.72	132.48	-2,767.51	592.63	516.60	438.94	77.66	6.652	
15,500.00	12,532.27	15,804.73	12,881.15	44.94	42.95	132.48	-2,867.50	593.49	516.60	437.24	79.36	6.509	
15,600.00	12,533.14	15,904.73	12,882.02	46.15	44.19	132.48	-2,967.50	594.35	516.60	435.51	81.08	6.371	
15,700.00	12,534.02	16,004.73	12,882.88	47.37	45.44	132.48	-3,067.49	595.21	516.59	433.77	82.82	6.237	
15,800.00	12,534.89	16,104.73	12,883.75	48.59	46.69	132.48	-3,167.48	596.07	516.59	432.01	84.58	6.108	
15,900.00	12,535.76	16,204.73	12,884.62	49.83	47.95	132.48	-3,267.47	596.93	516.59	430.23	86.35	5.982	
16,000.00	12,536.64	16,304.73	12,885.49	51.07	49.21	132.48	-3,367.47	597.79	516.58	428.44	88.14	5.861	
16,100.00	12,537.51	16,404.73	12,886.36	52.32	50.49	132.48	-3,467.46	598.65	516.58	426.64	89.94	5.743	
16,200.00	12,538.39	16,504.73	12,887.22	53.57	51.76	132.48	-3,567.45	599.51	516.58	424.82	91.76	5.630	
16,300.00	12,539.26	16,604.73	12,888.09	54.83	53.04	132.48	-3,667.44	600.37	516.57	422.98	93.59	5.520	
16,400.00	12,540.13	16,704.73	12,888.96	56.09	54.33	132.48	-3,767.44	601.23	516.57	421.14	95.43	5.413	
16,500.00	12,541.01	16,804.73	12,889.83	57.36	55.62	132.48	-3,867.43	602.09	516.57	419.29	97.28	5.310	
16,600.00	12,541.88	16,904.73	12,890.70	58.64	56.91	132.48	-3,967.42	602.96	516.56	417.42	99.14	5.210	
16,700.00	12,542.75	17,004.73	12,891.56	59.91	58.21	132.48	-4,067.41	603.82	516.56	415.55	101.01	5.114	
16,800.00	12,543.63	17,104.73	12,892.43	61.20	59.51	132.48	-4,167.41	604.68	516.56	413.66	102.89	5.020	
16,900.00	12,544.50	17,204.73	12,893.30	62.48	60.81	132.48	-4,267.40	605.54	516.55	411.77	104.78	4.930	
17,000.00	12,545.37	17,304.73	12,894.17	63.77	62.11	132.47	-4,367.39	606.40	516.55	409.87	106.68	4.842	
17,100.00	12,546.25	17,404.73	12,895.04	65.06	63.42	132.47	-4,467.38	607.26	516.55	407.96	108.59	4.757	
17,200.00	12,547.12	17,504.73	12,895.90	66.36	64.73	132.47	-4,567.38	608.12	516.54	406.04	110.50	4.675	
17,300.00	12,547.99	17,604.73	12,896.77	67.66	66.05	132.47	-4,667.37	608.98	516.54	404.12	112.42	4.595	
17,400.00	12,548.87	17,704.73	12,897.64	68.96	67.36	132.47	-4,767.36	609.84	516.54	402.19	114.35	4.517	
17,500.00	12,549.74	17,804.73	12,898.51	70.26	68.68	132.47	-4,867.35	610.70	516.53	400.25	116.28	4.442	
17,600.00	12,550.62	17,904.73	12,899.38	71.57	70.00	132.47	-4,967.35	611.56	516.53	398.30	118.22	4.369	
17,700.00	12,551.49	18,004.73	12,900.24	72.88	71.32	132.47	-5,067.34	612.42	516.53	396.36	120.17	4.298	
17,800.00	12,552.36	18,104.73	12,901.11	74.19	72.65	132.47	-5,167.33	613.28	516.52	394.40	122.12	4.230	
17,900.00	12,553.24	18,204.73	12,901.98	75.50	73.97	132.47	-5,267.33	614.14	516.52	392.44	124.08	4.163	
18,000.00	12,554.11	18,304.73	12,902.85	76.81	75.30	132.47	-5,367.32	615.01	516.51	390.47	126.04	4.098	
18,100.00	12,554.98	18,404.73	12,903.72	78.13	76.63	132.47	-5,467.31	615.87	516.51	388.50	128.01	4.035	
18,200.00	12,555.86	18,504.73	12,904.58	79.45	77.96	132.47	-5,567.30	616.73	516.51	386.53	129.98	3.974	
18,300.00	12,556.73	18,604.73	12,905.45	80.77	79.29	132.47	-5,667.30	617.59	516.50	384.55	131.96	3.914	
18,400.00	12,557.60	18,704.73	12,906.32	82.09	80.62	132.47	-5,767.29	618.45	516.50	382.56	133.94	3.856	
18,500.00	12,558.48	18,804.73	12,907.19	83.42	81.96	132.47	-5,867.28	619.31	516.50	380.58	135.92	3.800	
18,600.00	12,559.35	18,904.73	12,908.06	84.74	83.29	132.47	-5,967.27	620.17	516.49	378.59	137.91	3.745	
18,700.00	12,560.23	19,004.73	12,908.92	86.07	84.63	132.47	-6,067.27	621.03	516.49	376.59	139.90	3.692	
18,800.00	12,561.10	19,104.73	12,909.79	87.40	85.96	132.47	-6,167.26	621.89	516.49	374.59	141.90	3.640	
18,900.00	12,561.97	19,204.73	12,910.66	88.72	87.30	132.47	-6,267.25	622.75	516.48	372.59	143.90	3.589	
19,000.00	12,562.85	19,304.73	12,911.53	90.05	88.64	132.46	-6,367.24	623.61	516.48	370.58	145.90	3.540	
19,100.00	12,563.72	19,404.73	12,912.40	91.39	89.98	132.46	-6,467.24	624.47	516.48	368.57	147.90	3.492	
19,200.00	12,564.59	19,504.73	12,913.26	92.72	91.32	132.46	-6,567.23	625.33	516.47	366.56	149.91	3.445	
19,300.00	12,565.47	19,604.73	12,914.13	94.05	92.66	132.46	-6,667.22	626.19	516.47	364.55	151.92	3.400	
19,400.00	12,566.34	19,704.73	12,915.00	95.39	94.01	132.46	-6,767.21	627.06	516.47	362.53	153.94	3.355	
19,500.00	12,567.21	19,804.73	12,915.87	96.72	95.35	132.46	-6,867.21	627.92	516.46	360.51	155.95	3.312	
19,600.00	12,568.09	19,904.73	12,916.74	98.06	96.69	132.46	-6,967.20	628.78	516.46	358.49	157.97	3.269	
19,700.00	12,568.96	20,004.73	12,917.61	99.40	98.04	132.46	-7,067.19	629.64	516.46	356.46	160.00	3.228	
19,800.00	12,569.83	20,104.73	12,918.47	100.73	99.39	132.46	-7,167.18	630.50	516.45	354.43	162.02	3.188	
19,900.00	12,570.71	20,204.73	12,919.34	102.07	100.73	132.46	-7,267.18	631.36	516.45	352.40	164.05	3.148	
20,000.00	12,571.58	20,304.73	12,920.21	103.41	102.08	132.46	-7,367.17	632.22	516.45	350.37	166.07	3.110	
20,100.00	12,572.46	20,404.73	12,921.08	104.75	103.43	132.46	-7,467.16	633.08	516.44	348.34	168.11	3.072	
20,200.00	12,573.33	20,504.73	12,921.95	106.10	104.77	132.46	-7,567.15	633.94	516.44	346.30	170.14	3.035	
20,300.00	12,574.20	20,604.73	12,922.81	107.44	106.12	132.46	-7,667.15	634.80	516.44	344.26	172.17	3.000	
20,400.00	12,575.08	20,704.73	12,923.68	108.78	107.47	132.46	-7,767.14	635.66	516.43	342.22	174.21	2.964	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 222H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,500.00	12,575.95	20,804.73	12,924.55	110.12	108.82	132.46	-7,867.13	636.52	516.43	340.18	176.25	2.930	
20,600.00	12,576.82	20,904.73	12,925.42	111.47	110.17	132.46	-7,967.12	637.38	516.43	338.14	178.29	2.897	
20,700.00	12,577.70	21,004.73	12,926.29	112.81	111.52	132.46	-8,067.12	638.24	516.42	336.09	180.33	2.864	
20,800.00	12,578.57	21,104.73	12,927.15	114.16	112.87	132.46	-8,167.11	639.11	516.42	334.04	182.37	2.832	
20,900.00	12,579.44	21,204.73	12,928.02	115.51	114.23	132.46	-8,267.10	639.97	516.42	332.00	184.42	2.800	
21,000.00	12,580.32	21,304.73	12,928.89	116.85	115.58	132.46	-8,367.09	640.83	516.41	329.95	186.47	2.769	
21,100.00	12,581.19	21,404.73	12,929.76	118.20	116.93	132.45	-8,467.09	641.69	516.41	327.89	188.52	2.739	
21,200.00	12,582.06	21,504.73	12,930.63	119.55	118.28	132.45	-8,567.08	642.55	516.41	325.84	190.57	2.710	
21,300.00	12,582.94	21,604.73	12,931.49	120.89	119.64	132.45	-8,667.07	643.41	516.40	323.78	192.62	2.681	
21,400.00	12,583.81	21,704.73	12,932.36	122.24	120.99	132.45	-8,767.06	644.27	516.40	321.73	194.67	2.653	
21,500.00	12,584.69	21,804.73	12,933.23	123.59	122.34	132.45	-8,867.06	645.13	516.40	319.67	196.72	2.625	
21,600.00	12,585.56	21,904.73	12,934.10	124.94	123.70	132.45	-8,967.05	645.99	516.39	317.61	198.78	2.598	
21,700.00	12,586.43	22,004.73	12,934.97	126.29	125.05	132.45	-9,067.04	646.85	516.39	315.55	200.84	2.571	
21,800.00	12,587.31	22,104.73	12,935.83	127.64	126.41	132.45	-9,167.03	647.71	516.38	313.49	202.89	2.545	
21,900.00	12,588.18	22,204.73	12,936.70	128.99	127.76	132.45	-9,267.03	648.57	516.38	311.43	204.95	2.520	
22,000.00	12,589.05	22,304.73	12,937.57	130.34	129.12	132.45	-9,367.02	649.43	516.38	309.36	207.01	2.494	
22,100.00	12,589.93	22,404.73	12,938.44	131.70	130.47	132.45	-9,467.01	650.29	516.37	307.30	209.07	2.470	
22,200.00	12,590.80	22,504.73	12,939.31	133.05	131.83	132.45	-9,567.00	651.16	516.37	305.23	211.14	2.446	
22,300.00	12,591.67	22,604.73	12,940.17	134.40	133.19	132.45	-9,667.00	652.02	516.37	303.17	213.20	2.422	
22,400.00	12,592.55	22,704.73	12,941.04	135.75	134.54	132.45	-9,766.99	652.88	516.36	301.10	215.27	2.399	
22,500.00	12,593.42	22,804.73	12,941.91	137.11	135.90	132.45	-9,866.98	653.74	516.36	299.03	217.33	2.376	
22,600.00	12,594.30	22,904.73	12,942.78	138.46	137.26	132.45	-9,966.97	654.60	516.36	296.96	219.40	2.354	
22,700.00	12,595.17	23,004.73	12,943.65	139.81	138.62	132.45	-10,066.97	655.46	516.35	294.89	221.46	2.332	
22,800.00	12,596.04	23,104.73	12,944.51	141.17	139.97	132.45	-10,166.96	656.32	516.35	292.82	223.53	2.310	
22,875.30	12,596.70	23,180.03	12,945.17	142.19	140.99	132.45	-10,242.26	656.97	516.35	291.26	225.09	2.294	SF

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

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 223H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	0.00	0.50	0.50	69.40	881.00	2,344.00	2,504.10				
100.00	100.00	102.00	100.00	0.98	0.99	69.40	881.00	2,344.00	2,504.10	2,502.12	1.97	1,269.100	
200.00	200.00	202.00	200.00	1.56	1.57	69.40	881.00	2,344.00	2,504.10	2,500.97	3.13	799.889	
300.00	300.00	302.00	300.00	1.98	1.99	69.40	881.00	2,344.00	2,504.10	2,500.13	3.97	630.874	
400.00	400.00	402.00	400.00	2.33	2.34	69.40	881.00	2,344.00	2,504.10	2,499.43	4.66	536.793	
500.00	500.00	502.00	500.00	2.63	2.64	69.40	881.00	2,344.00	2,504.10	2,498.82	5.27	474.752	
600.00	600.00	602.00	600.00	2.91	2.92	69.40	881.00	2,344.00	2,504.10	2,498.27	5.83	429.873	
700.00	700.00	702.00	700.00	3.16	3.17	69.40	881.00	2,344.00	2,504.10	2,497.76	6.33	395.447	
800.00	800.00	802.00	800.00	3.40	3.41	69.40	881.00	2,344.00	2,504.10	2,497.29	6.81	367.944	
900.00	900.00	902.00	900.00	3.62	3.63	69.40	881.00	2,344.00	2,504.10	2,496.84	7.25	345.307	
1,000.00	1,000.00	1,002.00	1,000.00	3.76	3.84	-22.60	881.00	2,344.00	2,504.05	2,496.45	7.60	329.496	
1,100.00	1,099.98	1,101.98	1,099.98	4.00	4.04	-22.63	881.00	2,344.00	2,502.36	2,494.32	8.04	311.388	
1,200.00	1,199.88	1,201.88	1,199.88	4.24	4.24	-22.69	881.00	2,344.00	2,498.25	2,489.79	8.46	295.412	
1,300.00	1,299.63	1,301.63	1,299.63	4.46	4.42	-22.79	881.00	2,344.00	2,491.73	2,482.87	8.86	281.082	
1,400.00	1,399.25	1,401.25	1,399.25	4.60	4.60	-22.87	881.00	2,344.00	2,483.72	2,474.54	9.18	270.533	
1,500.00	1,498.87	1,500.87	1,498.87	4.78	4.78	-22.95	881.00	2,344.00	2,475.69	2,466.15	9.54	259.631	
1,600.00	1,598.49	1,600.49	1,598.49	4.96	4.95	-23.03	881.00	2,344.00	2,467.66	2,457.77	9.88	249.648	
1,700.00	1,698.11	1,700.11	1,698.11	5.14	5.11	-23.11	881.00	2,344.00	2,459.63	2,449.41	10.23	240.460	
1,800.00	1,797.73	1,799.73	1,797.73	5.32	5.28	-23.19	881.00	2,344.00	2,451.62	2,441.05	10.57	231.967	
1,900.00	1,897.34	1,899.34	1,897.34	5.49	5.43	-23.27	881.00	2,344.00	2,443.60	2,432.70	10.90	224.086	
2,000.00	1,996.96	1,998.96	1,996.96	5.67	5.59	-23.35	881.00	2,344.00	2,435.59	2,424.36	11.24	216.748	
2,100.00	2,096.58	2,227.42	2,225.28	5.85	5.94	-23.47	875.95	2,339.49	2,424.97	2,413.24	11.73	206.676	
2,200.00	2,196.20	2,454.07	2,451.00	6.04	6.28	-23.43	860.90	2,326.03	2,409.07	2,396.87	12.19	197.596	
2,300.00	2,295.72	2,675.41	2,669.89	6.23	6.62	-16.94	836.60	2,304.31	2,386.84	2,374.20	12.64	188.817	
2,400.00	2,394.97	2,794.17	2,786.61	6.43	6.75	-12.51	820.25	2,289.69	2,358.78	2,345.83	12.96	182.047	
2,500.00	2,493.89	2,889.19	2,879.97	6.64	6.87	-9.42	807.03	2,277.88	2,328.16	2,314.86	13.29	175.152	
2,600.00	2,592.40	2,983.38	2,972.50	6.85	7.00	-7.10	793.94	2,266.17	2,295.07	2,281.44	13.63	168.344	
2,700.00	2,690.45	3,076.65	3,064.14	7.07	7.13	-5.27	780.97	2,254.57	2,259.56	2,245.59	13.98	161.659	
2,800.00	2,787.96	3,168.96	3,154.82	7.28	7.26	-3.78	768.13	2,243.10	2,221.65	2,207.32	14.32	155.103	
2,900.00	2,884.87	3,260.22	3,244.49	7.49	7.39	-2.52	755.44	2,231.76	2,181.36	2,166.69	14.67	148.683	
3,000.00	2,981.46	3,350.97	3,333.64	7.68	7.52	-2.32	742.83	2,220.48	2,139.94	2,124.94	14.99	142.715	
3,100.00	3,078.05	3,441.71	3,422.79	7.87	7.66	-2.10	730.21	2,209.20	2,098.54	2,083.22	15.32	136.954	
3,200.00	3,174.64	3,532.45	3,511.94	8.06	7.80	-1.88	717.59	2,197.92	2,057.17	2,041.52	15.65	131.413	
3,300.00	3,271.24	3,623.20	3,601.09	8.26	7.96	-1.65	704.97	2,186.64	2,015.82	1,999.83	16.00	126.016	
3,400.00	3,367.83	3,713.94	3,690.24	8.51	8.13	-1.41	692.35	2,175.36	1,974.51	1,958.17	16.34	120.847	
3,500.00	3,464.42	3,804.68	3,779.39	8.80	8.31	-1.16	679.74	2,164.08	1,933.22	1,916.54	16.69	115.858	
3,600.00	3,561.01	3,895.43	3,868.55	9.09	8.49	-0.90	667.12	2,152.80	1,891.97	1,874.93	17.04	111.046	
3,700.00	3,657.60	3,986.17	3,957.70	9.38	8.68	-0.62	654.50	2,141.52	1,850.75	1,833.35	17.39	106.405	
3,800.00	3,754.20	4,076.91	4,046.85	9.68	8.87	-0.34	641.88	2,130.24	1,809.56	1,791.81	17.75	101.932	
3,900.00	3,850.79	4,167.66	4,136.00	9.98	9.06	-0.04	629.27	2,118.96	1,768.42	1,750.31	18.12	97.618	
4,000.00	3,947.38	4,258.40	4,225.15	10.28	9.26	0.27	616.65	2,107.68	1,727.32	1,708.84	18.48	93.458	
4,100.00	4,043.97	4,349.14	4,314.30	10.59	9.46	0.60	604.03	2,096.40	1,686.26	1,667.41	18.85	89.447	
4,200.00	4,140.56	4,439.89	4,403.45	10.90	9.66	0.94	591.41	2,085.12	1,645.26	1,626.03	19.23	85.577	
4,300.00	4,237.16	4,530.63	4,492.60	11.21	9.86	1.31	578.79	2,073.84	1,604.30	1,584.70	19.60	81.844	
4,400.00	4,333.75	4,621.37	4,581.75	11.52	10.06	1.69	566.18	2,062.56	1,563.40	1,543.42	19.98	78.242	
4,500.00	4,430.34	4,712.12	4,670.90	11.84	10.27	2.09	553.56	2,051.28	1,522.56	1,502.20	20.36	74.766	
4,600.00	4,526.93	4,802.86	4,760.05	12.16	10.47	2.51	540.94	2,040.00	1,481.79	1,461.04	20.75	71.410	
4,700.00	4,623.53	4,893.60	4,849.21	12.48	10.68	2.95	528.32	2,028.72	1,441.09	1,419.95	21.14	68.169	
4,800.00	4,720.12	4,984.35	4,938.36	12.80	10.89	3.43	515.71	2,017.44	1,400.47	1,378.94	21.53	65.039	
4,900.00	4,816.71	5,075.09	5,027.51	13.12	11.10	3.92	503.09	2,006.16	1,359.94	1,338.01	21.93	62.016	
5,000.00	4,913.30	5,165.83	5,116.66	13.45	11.32	4.45	490.47	1,994.88	1,319.49	1,297.16	22.33	59.094	
5,100.00	5,009.89	5,256.58	5,205.81	13.78	11.53	5.01	477.85	1,983.60	1,279.15	1,256.42	22.73	56.271	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 223H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,106.49	5,347.32	5,294.96	14.10	11.75	5.61	465.23	1,972.32	1,238.92	1,215.78	23.14	53.542	
5,300.00	5,203.08	5,438.06	5,384.11	14.43	11.96	6.25	452.62	1,961.04	1,198.81	1,175.26	23.55	50.904	
5,400.00	5,299.67	5,528.81	5,473.27	14.75	12.18	6.92	440.00	1,949.76	1,158.85	1,134.89	23.96	48.373	
5,500.00	5,396.65	5,620.17	5,563.02	15.07	12.40	7.56	427.29	1,938.40	1,120.43	1,096.04	24.39	45.940	
5,600.00	5,494.23	5,712.53	5,653.76	15.36	12.62	8.23	414.45	1,926.92	1,084.58	1,059.75	24.82	43.693	
5,700.00	5,592.35	5,805.83	5,745.43	15.62	12.85	8.92	401.48	1,915.32	1,051.33	1,026.07	25.26	41.620	
5,800.00	5,690.94	5,900.01	5,837.95	15.86	13.08	9.64	388.38	1,903.61	1,020.71	995.02	25.70	39.718	
5,900.00	5,789.93	5,995.00	5,931.28	16.07	13.31	10.39	375.17	1,891.80	992.76	966.62	26.14	37.981	
6,000.00	5,889.26	6,090.74	6,025.33	16.25	13.55	11.15	361.86	1,879.90	967.48	940.90	26.58	36.404	
6,100.00	5,988.86	6,187.15	6,120.06	16.41	13.78	11.92	348.46	1,867.92	944.89	917.88	27.01	34.982	
6,200.00	6,088.66	6,284.19	6,215.39	16.53	14.02	12.71	334.96	1,855.86	925.01	897.57	27.44	33.710	
6,300.00	6,188.59	6,381.77	6,311.26	16.64	14.26	13.50	321.39	1,843.73	907.84	879.98	27.86	32.588	
6,400.00	6,288.58	6,474.43	6,402.32	16.71	14.47	86.67	308.61	1,832.30	893.49	865.30	28.18	31.703	
6,500.00	6,388.58	6,559.07	6,485.76	16.76	14.66	87.32	298.05	1,822.86	881.61	853.12	28.49	30.941	
6,600.00	6,488.58	6,644.30	6,570.09	16.82	14.84	87.90	288.82	1,814.61	871.43	842.63	28.79	30.264	
6,700.00	6,588.58	6,730.05	6,655.19	16.88	15.00	88.41	280.95	1,807.57	862.89	833.82	29.08	29.677	
6,800.00	6,688.58	6,816.24	6,740.93	16.94	15.14	88.83	274.47	1,801.78	855.98	826.64	29.34	29.178	
6,900.00	6,788.58	6,900.00	6,824.43	17.00	15.26	89.16	269.56	1,797.39	850.66	821.08	29.58	28.763	
7,000.00	6,888.58	6,989.58	6,913.87	17.05	15.37	89.41	265.82	1,794.05	846.89	817.10	29.79	28.429	
7,100.00	6,988.58	7,076.56	7,000.80	17.11	15.46	89.55	263.69	1,792.14	844.67	814.70	29.98	28.176	
7,200.00	7,088.58	7,164.35	7,088.58	17.17	15.50	89.60	263.03	1,791.55	843.99	813.88	30.11	28.032	
7,300.00	7,188.58	7,264.35	7,188.58	17.23	15.53	89.60	263.03	1,791.55	843.99	813.80	30.19	27.952	
7,400.00	7,288.58	7,364.35	7,288.58	17.29	15.57	89.60	263.03	1,791.55	843.99	813.70	30.29	27.861	
7,500.00	7,388.58	7,464.35	7,388.58	17.35	15.61	89.60	263.03	1,791.55	843.99	813.60	30.39	27.770	
7,600.00	7,488.58	7,564.35	7,488.58	17.41	15.65	89.60	263.03	1,791.55	843.99	813.50	30.49	27.680	
7,700.00	7,588.58	7,664.35	7,588.58	17.47	15.69	89.60	263.03	1,791.55	843.99	813.40	30.59	27.589	
7,800.00	7,688.58	7,764.35	7,688.58	17.53	15.73	89.60	263.03	1,791.55	843.99	813.30	30.69	27.498	
7,900.00	7,788.58	7,864.35	7,788.58	17.59	15.77	89.60	263.03	1,791.55	843.99	813.20	30.79	27.408	
8,000.00	7,888.58	7,964.35	7,888.58	17.65	15.81	89.60	263.03	1,791.55	843.99	813.10	30.90	27.318	
8,100.00	7,988.58	8,064.35	7,988.58	17.71	15.85	89.60	263.03	1,791.55	843.99	812.99	31.00	27.228	
8,200.00	8,088.58	8,164.35	8,088.58	17.77	15.89	89.60	263.03	1,791.55	843.99	812.89	31.10	27.138	
8,300.00	8,188.58	8,264.35	8,188.58	17.83	15.93	89.60	263.03	1,791.55	843.99	812.79	31.20	27.048	
8,400.00	8,288.58	8,364.35	8,288.58	17.89	15.97	89.60	263.03	1,791.55	843.99	812.68	31.31	26.958	
8,500.00	8,388.58	8,464.35	8,388.58	17.95	16.02	89.60	263.03	1,791.55	843.99	812.58	31.41	26.869	
8,600.00	8,488.58	8,564.35	8,488.58	18.02	16.06	89.60	263.03	1,791.55	843.99	812.47	31.52	26.780	
8,700.00	8,588.58	8,664.35	8,588.58	18.08	16.10	89.60	263.03	1,791.55	843.99	812.37	31.62	26.690	
8,800.00	8,688.58	8,764.35	8,688.58	18.14	16.15	89.60	263.03	1,791.55	843.99	812.26	31.73	26.601	
8,900.00	8,788.58	8,864.35	8,788.58	18.20	16.19	89.60	263.03	1,791.55	843.99	812.16	31.83	26.513	
9,000.00	8,888.58	8,964.35	8,888.58	18.26	16.23	89.60	263.03	1,791.55	843.99	812.05	31.94	26.424	
9,100.00	8,988.58	9,064.35	8,988.58	18.32	16.28	89.60	263.03	1,791.55	843.99	811.94	32.05	26.336	
9,200.00	9,088.58	9,164.35	9,088.58	18.39	16.32	89.60	263.03	1,791.55	843.99	811.84	32.15	26.248	
9,300.00	9,188.58	9,264.35	9,188.58	18.45	16.37	89.60	263.03	1,791.55	843.99	811.73	32.26	26.160	
9,400.00	9,288.58	9,364.35	9,288.58	18.51	16.41	89.60	263.03	1,791.55	843.99	811.62	32.37	26.072	
9,500.00	9,388.58	9,464.35	9,388.58	18.57	16.46	89.60	263.03	1,791.55	843.99	811.51	32.48	25.985	
9,600.00	9,488.58	9,564.35	9,488.58	18.64	16.51	89.60	263.03	1,791.55	843.99	811.40	32.59	25.898	
9,700.00	9,588.58	9,664.35	9,588.58	18.70	16.55	89.60	263.03	1,791.55	843.99	811.29	32.70	25.811	
9,800.00	9,688.58	9,764.35	9,688.58	18.76	16.60	89.60	263.03	1,791.55	843.99	811.18	32.81	25.724	
9,900.00	9,788.58	9,864.35	9,788.58	18.83	16.65	89.60	263.03	1,791.55	843.99	811.07	32.92	25.637	
10,000.00	9,888.58	9,964.35	9,888.58	18.89	16.69	89.60	263.03	1,791.55	843.99	810.96	33.03	25.551	
10,100.00	9,988.58	10,064.35	9,988.58	18.95	16.74	89.60	263.03	1,791.55	843.99	810.85	33.14	25.465	
10,200.00	10,088.58	10,164.35	10,088.58	19.02	16.79	89.60	263.03	1,791.55	843.99	810.74	33.25	25.379	
10,300.00	10,188.58	10,264.35	10,188.58	19.08	16.84	89.60	263.03	1,791.55	843.99	810.62	33.37	25.294	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 223H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,400.00	10,288.58	10,364.35	10,288.58	19.15	16.88	89.60	263.03	1,791.55	843.99	810.51	33.48	25.209	
10,500.00	10,388.58	10,464.35	10,388.58	19.21	16.93	89.60	263.03	1,791.55	843.99	810.40	33.59	25.124	
10,600.00	10,488.58	10,564.35	10,488.58	19.27	16.98	89.60	263.03	1,791.55	843.99	810.28	33.71	25.039	
10,700.00	10,588.58	10,664.35	10,588.58	19.34	17.03	89.60	263.03	1,791.55	843.99	810.17	33.82	24.955	
10,800.00	10,688.58	10,764.35	10,688.58	19.40	17.08	89.60	263.03	1,791.55	843.99	810.06	33.94	24.871	
10,900.00	10,788.58	10,864.35	10,788.58	19.47	17.13	89.60	263.03	1,791.55	843.99	809.94	34.05	24.787	
11,000.00	10,888.58	10,964.35	10,888.58	19.53	17.18	89.60	263.03	1,791.55	843.99	809.83	34.17	24.703	
11,100.00	10,988.58	11,064.35	10,988.58	19.60	17.23	89.60	263.03	1,791.55	843.99	809.71	34.28	24.620	
11,200.00	11,088.58	11,164.35	11,088.58	19.66	17.28	89.60	263.03	1,791.55	843.99	809.59	34.40	24.537	
11,300.00	11,188.58	11,264.35	11,188.58	19.73	17.33	89.60	263.03	1,791.55	843.99	809.48	34.51	24.454	
11,400.00	11,288.58	11,364.35	11,288.58	19.79	17.38	89.60	263.03	1,791.55	843.99	809.36	34.63	24.372	
11,500.00	11,388.58	11,464.35	11,388.58	19.86	17.43	89.60	263.03	1,791.55	843.99	809.24	34.75	24.290	
11,600.00	11,488.58	11,564.35	11,488.58	19.92	17.48	89.60	263.03	1,791.55	843.99	809.13	34.86	24.208	
11,700.00	11,588.58	11,664.35	11,588.58	19.99	17.53	89.60	263.03	1,791.55	843.99	809.01	34.98	24.126	
11,800.00	11,688.58	11,764.35	11,688.58	20.05	17.59	89.60	263.03	1,791.55	843.99	808.89	35.10	24.045	
11,900.00	11,788.58	11,864.35	11,788.58	20.12	17.64	89.60	263.03	1,791.55	843.99	808.77	35.22	23.964	
12,000.00	11,888.58	11,964.35	11,888.58	20.19	17.69	89.60	263.03	1,791.55	843.99	808.65	35.34	23.884	
12,053.96	11,942.52	12,018.29	11,942.52	20.22	17.72	-90.00	263.03	1,791.55	843.99	808.62	35.37	23.863	CC
12,100.00	11,988.51	12,064.28	11,988.51	20.25	17.74	-90.07	263.03	1,791.55	843.99	808.60	35.39	23.846	
12,200.00	12,086.82	12,162.58	12,086.82	20.31	17.79	-91.22	263.03	1,791.55	844.20	808.84	35.35	23.879	
12,300.00	12,180.57	12,256.34	12,180.57	20.35	17.84	-93.26	263.03	1,791.55	845.66	810.39	35.26	23.983	
12,400.00	12,266.93	12,341.90	12,266.10	20.39	17.91	-95.59	261.42	1,791.78	850.30	815.13	35.17	24.178	
12,500.00	12,343.26	12,429.34	12,352.45	20.44	18.06	-97.70	248.36	1,793.64	859.71	824.51	35.20	24.422	
12,600.00	12,407.24	12,524.81	12,443.23	20.52	18.28	-99.63	219.45	1,797.75	873.93	838.46	35.47	24.640	
12,700.00	12,456.94	12,631.39	12,537.25	20.67	18.60	-101.41	170.10	1,804.78	892.46	856.40	36.07	24.744	
12,800.00	12,490.84	12,753.41	12,631.41	20.88	19.09	-103.07	93.62	1,815.66	914.33	877.20	37.12	24.631	
12,900.00	12,507.91	12,896.51	12,718.06	21.18	19.87	-104.61	-18.66	1,831.64	937.91	899.18	38.73	24.215	
13,000.00	12,510.43	13,067.68	12,781.03	21.56	21.13	-106.78	-175.56	1,853.97	960.14	919.29	40.85	23.505	
13,100.00	12,511.30	13,245.70	12,796.21	22.01	22.75	-107.16	-350.74	1,878.46	974.55	931.68	42.88	22.729	
13,200.00	12,512.18	13,393.68	12,796.99	22.52	24.25	-106.91	-497.98	1,892.96	983.01	938.29	44.71	21.986	
13,300.00	12,513.05	13,542.63	12,797.77	23.10	25.87	-106.78	-646.76	1,899.85	986.51	939.83	46.68	21.134	
13,400.00	12,513.92	13,653.23	12,798.35	23.73	27.10	-106.76	-757.35	1,901.03	986.57	938.20	48.38	20.394	
13,500.00	12,514.80	13,753.23	12,798.88	24.41	28.23	-106.74	-857.34	1,901.94	986.51	936.45	50.07	19.704	
13,600.00	12,515.67	13,853.23	12,799.41	25.15	29.39	-106.72	-957.34	1,902.84	986.46	934.62	51.84	19.028	
13,700.00	12,516.55	13,953.23	12,799.93	25.93	30.56	-106.70	-1,057.33	1,903.75	986.40	932.71	53.69	18.373	
13,800.00	12,517.42	14,053.23	12,800.46	26.76	31.75	-106.68	-1,157.32	1,904.66	986.35	930.74	55.60	17.739	
13,900.00	12,518.29	14,153.23	12,800.98	27.63	32.95	-106.66	-1,257.32	1,905.56	986.29	928.71	57.58	17.130	
14,000.00	12,519.17	14,253.23	12,801.51	28.53	34.17	-106.64	-1,357.31	1,906.47	986.23	926.63	59.60	16.546	
14,100.00	12,520.04	14,353.23	12,802.03	29.47	35.39	-106.62	-1,457.31	1,907.38	986.18	924.50	61.68	15.988	
14,200.00	12,520.91	14,453.23	12,802.56	30.44	36.62	-106.60	-1,557.30	1,908.29	986.12	922.32	63.80	15.456	
14,300.00	12,521.79	14,553.23	12,803.09	31.44	37.87	-106.58	-1,657.29	1,909.19	986.07	920.10	65.96	14.949	
14,400.00	12,522.66	14,653.22	12,803.61	32.46	39.12	-106.56	-1,757.29	1,910.10	986.01	917.85	68.16	14.466	
14,500.00	12,523.53	14,753.22	12,804.14	33.51	40.38	-106.54	-1,857.28	1,911.01	985.96	915.57	70.39	14.007	
14,600.00	12,524.41	14,853.22	12,804.66	34.58	41.64	-106.52	-1,957.28	1,911.91	985.90	913.25	72.65	13.571	
14,700.00	12,525.28	14,953.22	12,805.19	35.67	42.92	-106.50	-2,057.27	1,912.82	985.85	910.91	74.94	13.156	
14,800.00	12,526.16	15,053.22	12,805.72	36.78	44.19	-106.47	-2,157.26	1,913.73	985.79	908.55	77.25	12.762	
14,900.00	12,527.03	15,153.22	12,806.24	37.90	45.48	-106.45	-2,257.26	1,914.63	985.74	906.16	79.58	12.387	
15,000.00	12,527.90	15,253.22	12,806.77	39.04	46.76	-106.43	-2,357.25	1,915.54	985.68	903.75	81.93	12.030	
15,100.00	12,528.78	15,353.22	12,807.29	40.20	48.05	-106.41	-2,457.25	1,916.45	985.63	901.32	84.30	11.691	
15,200.00	12,529.65	15,453.22	12,807.82	41.37	49.35	-106.39	-2,557.24	1,917.35	985.57	898.88	86.69	11.368	
15,300.00	12,530.52	15,553.22	12,808.34	42.55	50.65	-106.37	-2,657.23	1,918.26	985.52	896.42	89.10	11.061	
15,400.00	12,531.40	15,653.22	12,808.87	43.74	51.95	-106.35	-2,757.23	1,919.17	985.46	893.95	91.52	10.768	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 223H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,500.00	12,532.27	15,753.22	12,809.40	44.94	53.26	-106.33	-2,857.22	1,920.07	985.41	891.46	93.95	10.489	
15,600.00	12,533.14	15,853.22	12,809.92	46.15	54.57	-106.31	-2,957.21	1,920.98	985.36	888.96	96.39	10.222	
15,700.00	12,534.02	15,953.22	12,810.45	47.37	55.88	-106.29	-3,057.21	1,921.89	985.30	886.45	98.85	9.968	
15,800.00	12,534.89	16,053.22	12,810.97	48.59	57.20	-106.27	-3,157.20	1,922.79	985.25	883.93	101.32	9.724	
15,900.00	12,535.76	16,153.22	12,811.50	49.83	58.51	-106.25	-3,257.20	1,923.70	985.20	881.40	103.79	9.492	
16,000.00	12,536.64	16,253.21	12,812.02	51.07	59.83	-106.23	-3,357.19	1,924.61	985.14	878.86	106.28	9.269	
16,100.00	12,537.51	16,353.21	12,812.55	52.32	61.15	-106.21	-3,457.18	1,925.52	985.09	876.31	108.77	9.056	
16,200.00	12,538.39	16,453.21	12,813.08	53.57	62.48	-106.19	-3,557.18	1,926.42	985.04	873.76	111.28	8.852	
16,300.00	12,539.26	16,553.21	12,813.60	54.83	63.80	-106.17	-3,657.17	1,927.33	984.98	871.20	113.79	8.656	
16,400.00	12,540.13	16,653.21	12,814.13	56.09	65.13	-106.15	-3,757.17	1,928.24	984.93	868.63	116.30	8.469	
16,500.00	12,541.01	16,753.21	12,814.65	57.36	66.46	-106.13	-3,857.16	1,929.14	984.88	866.05	118.83	8.288	
16,600.00	12,541.88	16,853.21	12,815.18	58.64	67.79	-106.11	-3,957.15	1,930.05	984.82	863.47	121.35	8.115	
16,700.00	12,542.75	16,953.21	12,815.71	59.91	69.12	-106.09	-4,057.15	1,930.96	984.77	860.88	123.89	7.949	
16,800.00	12,543.63	17,053.21	12,816.23	61.20	70.46	-106.07	-4,157.14	1,931.86	984.72	858.29	126.43	7.789	
16,900.00	12,544.50	17,153.21	12,816.76	62.48	71.79	-106.05	-4,257.14	1,932.77	984.67	855.69	128.98	7.634	
17,000.00	12,545.37	17,253.21	12,817.28	63.77	73.13	-106.03	-4,357.13	1,933.68	984.61	853.09	131.53	7.486	
17,100.00	12,546.25	17,353.21	12,817.81	65.06	74.46	-106.01	-4,457.12	1,934.58	984.56	850.48	134.08	7.343	
17,200.00	12,547.12	17,453.21	12,818.33	66.36	75.80	-105.99	-4,557.12	1,935.49	984.51	847.87	136.64	7.205	
17,300.00	12,547.99	17,553.21	12,818.86	67.66	77.14	-105.97	-4,657.11	1,936.40	984.46	845.25	139.21	7.072	
17,400.00	12,548.87	17,653.21	12,819.39	68.96	78.48	-105.95	-4,757.10	1,937.30	984.41	842.63	141.77	6.943	
17,500.00	12,549.74	17,753.21	12,819.91	70.26	79.82	-105.93	-4,857.10	1,938.21	984.35	840.01	144.35	6.819	
17,600.00	12,550.62	17,853.20	12,820.44	71.57	81.17	-105.91	-4,957.09	1,939.12	984.30	837.38	146.92	6.700	
17,700.00	12,551.49	17,953.20	12,820.96	72.88	82.51	-105.89	-5,057.09	1,940.02	984.25	834.75	149.50	6.584	
17,800.00	12,552.36	18,053.20	12,821.49	74.19	83.85	-105.87	-5,157.08	1,940.93	984.20	832.12	152.08	6.471	
17,900.00	12,553.24	18,153.20	12,822.01	75.50	85.20	-105.85	-5,257.07	1,941.84	984.15	829.48	154.67	6.363	
18,000.00	12,554.11	18,253.20	12,822.54	76.81	86.54	-105.83	-5,357.07	1,942.74	984.10	826.84	157.26	6.258	
18,100.00	12,554.98	18,353.20	12,823.07	78.13	87.89	-105.81	-5,457.06	1,943.65	984.05	824.20	159.85	6.156	
18,200.00	12,555.86	18,453.20	12,823.59	79.45	89.24	-105.79	-5,557.06	1,944.56	984.00	821.56	162.44	6.058	
18,300.00	12,556.73	18,553.20	12,824.12	80.77	90.58	-105.77	-5,657.05	1,945.47	983.95	818.91	165.04	5.962	
18,400.00	12,557.60	18,653.20	12,824.64	82.09	91.93	-105.75	-5,757.04	1,946.37	983.90	816.26	167.64	5.869	
18,500.00	12,558.48	18,753.20	12,825.17	83.42	93.28	-105.73	-5,857.04	1,947.28	983.85	813.61	170.24	5.779	
18,600.00	12,559.35	18,853.20	12,825.70	84.74	94.63	-105.71	-5,957.03	1,948.19	983.80	810.95	172.84	5.692	
18,700.00	12,560.23	18,953.20	12,826.22	86.07	95.98	-105.69	-6,057.03	1,949.09	983.74	808.30	175.45	5.607	
18,800.00	12,561.10	19,053.20	12,826.75	87.40	97.33	-105.67	-6,157.02	1,950.00	983.69	805.64	178.05	5.525	
18,900.00	12,561.97	19,153.20	12,827.27	88.72	98.68	-105.65	-6,257.01	1,950.91	983.65	802.98	180.66	5.445	
19,000.00	12,562.85	19,253.20	12,827.80	90.05	100.03	-105.63	-6,357.01	1,951.81	983.60	800.32	183.28	5.367	
19,100.00	12,563.72	19,353.20	12,828.32	91.39	101.39	-105.61	-6,457.00	1,952.72	983.55	797.65	185.89	5.291	
19,200.00	12,564.59	19,453.20	12,828.85	92.72	102.74	-105.59	-6,556.99	1,953.63	983.50	794.99	188.51	5.217	
19,300.00	12,565.47	19,553.19	12,829.38	94.05	104.09	-105.57	-6,656.99	1,954.53	983.45	792.32	191.13	5.146	
19,400.00	12,566.34	19,653.19	12,829.90	95.39	105.44	-105.55	-6,756.98	1,955.44	983.40	789.65	193.74	5.076	
19,500.00	12,567.21	19,753.19	12,830.43	96.72	106.80	-105.53	-6,856.98	1,956.35	983.35	786.98	196.37	5.008	
19,600.00	12,568.09	19,853.19	12,830.95	98.06	108.15	-105.51	-6,956.97	1,957.25	983.30	784.31	198.99	4.941	
19,700.00	12,568.96	19,953.19	12,831.48	99.40	109.51	-105.49	-7,056.96	1,958.16	983.25	781.64	201.61	4.877	
19,800.00	12,569.83	20,053.19	12,832.00	100.73	110.86	-105.47	-7,156.96	1,959.07	983.20	778.96	204.24	4.814	
19,900.00	12,570.71	20,153.19	12,832.53	102.07	112.22	-105.45	-7,256.95	1,959.97	983.15	776.28	206.87	4.753	
20,000.00	12,571.58	20,253.19	12,833.06	103.41	113.57	-105.42	-7,356.95	1,960.88	983.10	773.61	209.50	4.693	
20,100.00	12,572.46	20,353.19	12,833.58	104.75	114.93	-105.40	-7,456.94	1,961.79	983.06	770.93	212.13	4.634	
20,200.00	12,573.33	20,453.19	12,834.11	106.10	116.29	-105.38	-7,556.93	1,962.69	983.01	768.25	214.76	4.577	
20,300.00	12,574.20	20,553.19	12,834.63	107.44	117.64	-105.36	-7,656.93	1,963.60	982.96	765.57	217.39	4.522	
20,400.00	12,575.08	20,653.19	12,835.16	108.78	119.00	-105.34	-7,756.92	1,964.51	982.91	762.88	220.03	4.467	
20,500.00	12,575.95	20,753.19	12,835.69	110.12	120.36	-105.32	-7,856.92	1,965.42	982.86	760.20	222.66	4.414	
20,600.00	12,576.82	20,853.19	12,836.21	111.47	121.71	-105.30	-7,956.91	1,966.32	982.82	757.51	225.30	4.362	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 223H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,700.00	12,577.70	20,953.19	12,836.74	112.81	123.07	-105.28	-8,056.90	1,967.23	982.77	754.83	227.94	4.312	
20,800.00	12,578.57	21,053.19	12,837.26	114.16	124.43	-105.26	-8,156.90	1,968.14	982.72	752.14	230.58	4.262	
20,900.00	12,579.44	21,153.18	12,837.79	115.51	125.79	-105.24	-8,256.89	1,969.04	982.67	749.45	233.22	4.213	
21,000.00	12,580.32	21,253.18	12,838.31	116.85	127.15	-105.22	-8,356.88	1,969.95	982.63	746.76	235.86	4.166	
21,100.00	12,581.19	21,353.18	12,838.84	118.20	128.50	-105.20	-8,456.88	1,970.86	982.58	744.07	238.51	4.120	
21,200.00	12,582.06	21,453.18	12,839.37	119.55	129.86	-105.18	-8,556.87	1,971.76	982.53	741.38	241.15	4.074	
21,300.00	12,582.94	21,553.18	12,839.89	120.89	131.22	-105.16	-8,656.87	1,972.67	982.48	738.69	243.80	4.030	
21,400.00	12,583.81	21,653.18	12,840.42	122.24	132.58	-105.14	-8,756.86	1,973.58	982.44	735.99	246.44	3.986	
21,500.00	12,584.69	21,753.18	12,840.94	123.59	133.94	-105.12	-8,856.85	1,974.48	982.39	733.30	249.09	3.944	
21,600.00	12,585.56	21,853.18	12,841.47	124.94	135.30	-105.10	-8,956.85	1,975.39	982.34	730.61	251.74	3.902	
21,700.00	12,586.43	21,953.18	12,841.99	126.29	136.66	-105.08	-9,056.84	1,976.30	982.30	727.91	254.39	3.861	
21,800.00	12,587.31	22,053.18	12,842.52	127.64	138.02	-105.06	-9,156.84	1,977.20	982.25	725.21	257.04	3.821	
21,900.00	12,588.18	22,153.18	12,843.05	128.99	139.38	-105.04	-9,256.83	1,978.11	982.20	722.51	259.69	3.782	
22,000.00	12,589.05	22,253.18	12,843.57	130.34	140.74	-105.02	-9,356.82	1,979.02	982.16	719.82	262.34	3.744	
22,100.00	12,589.93	22,353.18	12,844.10	131.70	142.10	-105.00	-9,456.82	1,979.92	982.11	717.12	265.00	3.706	
22,200.00	12,590.80	22,453.18	12,844.62	133.05	143.46	-104.98	-9,556.81	1,980.83	982.07	714.42	267.65	3.669	
22,300.00	12,591.67	22,553.18	12,845.15	134.40	144.82	-104.96	-9,656.81	1,981.74	982.02	711.72	270.31	3.633	
22,400.00	12,592.55	22,653.18	12,845.68	135.75	146.18	-104.94	-9,756.80	1,982.65	981.98	709.01	272.96	3.597	
22,500.00	12,593.42	22,753.17	12,846.20	137.11	147.55	-104.92	-9,856.79	1,983.55	981.93	706.31	275.62	3.563	
22,600.00	12,594.30	22,853.17	12,846.73	138.46	148.91	-104.90	-9,956.79	1,984.46	981.88	703.61	278.28	3.528	
22,700.00	12,595.17	22,953.17	12,847.25	139.81	150.27	-104.88	-10,056.78	1,985.37	981.84	700.90	280.94	3.495	
22,800.00	12,596.04	23,053.17	12,847.78	141.17	151.63	-104.86	-10,156.77	1,986.27	981.79	698.20	283.60	3.462	
22,875.30	12,596.70	23,128.47	12,848.17	142.19	152.66	-104.84	-10,232.07	1,986.96	981.76	696.16	285.60	3.438	ES, SF

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

Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 224H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	1.00	0.50	0.50	73.46	696.00	2,344.00	2,445.15				
100.00	100.00	99.00	100.00	0.98	0.97	73.46	696.00	2,344.00	2,445.15	2,443.19	1.95	1,250.760	
200.00	200.00	199.00	200.00	1.56	1.56	73.46	696.00	2,344.00	2,445.15	2,442.03	3.12	784.648	
300.00	300.00	299.00	300.00	1.98	1.98	73.46	696.00	2,344.00	2,445.15	2,441.19	3.96	617.762	
400.00	400.00	362.94	363.94	2.33	2.25	73.47	695.91	2,344.51	2,445.88	2,441.31	4.57	535.101	
500.00	500.00	426.49	427.47	2.63	2.51	73.48	695.64	2,346.06	2,448.10	2,442.98	5.12	478.124	
600.00	600.00	500.00	500.91	2.91	2.78	73.52	695.09	2,349.16	2,451.84	2,446.18	5.65	433.651	
700.00	700.00	553.33	554.15	3.16	2.95	73.55	694.54	2,352.27	2,457.00	2,450.92	6.08	404.401	
800.00	800.00	616.56	617.20	3.40	3.12	73.60	693.72	2,356.91	2,463.68	2,457.20	6.47	380.652	
900.00	900.00	706.49	706.79	3.62	3.26	73.68	692.37	2,364.59	2,471.44	2,464.61	6.83	361.910	
1,000.00	1,000.00	806.11	806.03	3.76	3.50	-18.22	690.86	2,373.14	2,479.21	2,472.00	7.21	343.751	
1,100.00	1,099.98	905.87	905.41	4.00	3.74	-18.12	689.35	2,381.71	2,485.30	2,477.61	7.69	323.306	
1,200.00	1,199.88	1,005.77	1,004.93	4.24	3.97	-18.05	687.84	2,390.28	2,488.91	2,480.76	8.15	305.476	
1,300.00	1,299.63	1,105.75	1,104.53	4.46	4.20	-18.00	686.33	2,398.86	2,490.03	2,481.43	8.60	289.616	
1,400.00	1,399.25	1,205.74	1,204.14	4.60	4.42	-17.98	684.81	2,407.45	2,489.59	2,480.64	8.96	278.001	
1,500.00	1,498.87	1,305.73	1,303.75	4.78	4.64	-17.95	683.30	2,416.03	2,489.14	2,479.79	9.35	266.095	
1,600.00	1,598.49	1,405.73	1,403.36	4.96	4.85	-17.93	681.79	2,424.61	2,488.69	2,478.94	9.75	255.273	
1,700.00	1,698.11	1,505.72	1,502.98	5.14	5.06	-17.90	680.27	2,433.19	2,488.23	2,478.09	10.14	245.383	
1,800.00	1,797.73	1,605.71	1,602.59	5.32	5.27	-17.87	678.76	2,441.78	2,487.78	2,477.25	10.53	236.288	
1,900.00	1,897.34	1,704.50	1,701.00	5.49	5.48	-17.85	677.26	2,450.25	2,487.33	2,476.41	10.92	227.776	
1,957.97	1,955.09	1,752.43	1,748.73	5.60	5.58	-17.83	676.30	2,454.55	2,487.20	2,476.08	11.12	223.691	
2,000.00	1,996.96	1,786.46	1,782.59	5.67	5.65	-17.81	675.32	2,457.81	2,487.27	2,476.00	11.26	220.857	
2,100.00	2,096.58	1,867.35	1,862.96	5.85	5.83	-17.73	672.03	2,466.30	2,487.97	2,476.36	11.61	214.300	
2,200.00	2,196.20	1,948.06	1,942.97	6.04	6.00	-17.62	667.38	2,475.78	2,489.46	2,477.49	11.97	208.032	
2,300.00	2,295.72	2,031.42	2,025.39	6.23	6.17	-11.18	661.17	2,486.62	2,490.53	2,478.22	12.31	202.267	
2,400.00	2,394.97	2,130.96	2,123.71	6.43	6.35	-6.74	653.18	2,499.99	2,489.35	2,476.63	12.71	195.819	
2,500.00	2,493.89	2,230.39	2,221.92	6.64	6.55	-3.59	645.20	2,513.34	2,485.63	2,472.50	13.14	189.237	
2,600.00	2,592.40	2,329.64	2,319.94	6.85	6.76	-1.22	637.23	2,526.67	2,479.40	2,465.84	13.56	182.840	
2,700.00	2,690.45	2,428.64	2,417.72	7.07	6.96	0.66	629.29	2,539.96	2,470.67	2,456.68	13.99	176.630	
2,800.00	2,787.96	2,527.32	2,515.19	7.28	7.16	2.21	621.37	2,553.22	2,459.44	2,445.02	14.42	170.601	
2,900.00	2,884.87	2,625.62	2,612.27	7.49	7.36	3.53	613.48	2,566.42	2,445.73	2,430.88	14.84	164.779	
3,000.00	2,981.46	2,723.71	2,709.16	7.68	7.57	3.83	605.60	2,579.59	2,430.85	2,415.60	15.25	159.442	
3,100.00	3,078.05	2,821.80	2,806.04	7.87	7.77	4.13	597.73	2,592.76	2,416.04	2,400.39	15.65	154.361	
3,200.00	3,174.64	2,919.89	2,902.92	8.06	7.97	4.43	589.86	2,605.94	2,401.30	2,385.24	16.06	149.517	
3,300.00	3,271.24	3,017.97	2,999.80	8.26	8.18	4.74	581.98	2,619.11	2,386.62	2,370.15	16.47	144.911	
3,400.00	3,367.83	3,116.06	3,096.68	8.51	8.38	5.05	574.11	2,632.28	2,372.01	2,355.13	16.88	140.509	
3,500.00	3,464.42	3,214.15	3,193.56	8.80	8.59	5.36	566.24	2,645.46	2,357.47	2,340.18	17.30	136.309	
3,600.00	3,561.01	3,312.24	3,290.44	9.09	8.79	5.68	558.36	2,658.63	2,343.01	2,325.30	17.71	132.297	
3,700.00	3,657.60	3,410.33	3,387.32	9.38	9.00	6.00	550.49	2,671.80	2,328.61	2,310.48	18.13	128.462	
3,800.00	3,754.20	3,508.42	3,484.20	9.68	9.21	6.33	542.62	2,684.97	2,314.29	2,295.75	18.54	124.794	
3,900.00	3,850.79	3,606.51	3,581.09	9.98	9.41	6.66	534.74	2,698.15	2,300.05	2,281.08	18.96	121.284	
4,000.00	3,947.38	3,704.60	3,677.97	10.28	9.62	6.99	526.87	2,711.32	2,285.88	2,266.49	19.38	117.921	
4,100.00	4,043.97	3,802.69	3,774.85	10.59	9.83	7.33	519.00	2,724.49	2,271.79	2,251.98	19.81	114.698	
4,200.00	4,140.56	3,900.78	3,871.73	10.90	10.04	7.67	511.12	2,737.67	2,257.78	2,237.55	20.23	111.607	
4,300.00	4,237.16	3,998.87	3,968.61	11.21	10.25	8.01	503.25	2,750.84	2,243.85	2,223.20	20.65	108.641	
4,400.00	4,333.75	4,096.95	4,065.49	11.52	10.47	8.36	495.38	2,764.01	2,230.00	2,208.93	21.08	105.793	
4,500.00	4,430.34	4,195.04	4,162.37	11.84	10.68	8.72	487.50	2,777.19	2,216.24	2,194.74	21.51	103.057	
4,600.00	4,526.93	4,293.13	4,259.25	12.16	10.89	9.08	479.63	2,790.36	2,202.57	2,180.64	21.93	100.426	
4,700.00	4,623.53	4,391.22	4,356.14	12.48	11.11	9.44	471.75	2,803.53	2,188.98	2,166.62	22.36	97.895	
4,800.00	4,720.12	4,489.31	4,453.02	12.80	11.32	9.81	463.88	2,816.70	2,175.48	2,152.69	22.79	95.459	
4,900.00	4,816.71	4,587.40	4,549.90	13.12	11.54	10.18	456.01	2,829.88	2,162.07	2,138.85	23.22	93.113	
5,000.00	4,913.30	4,685.49	4,646.78	13.45	11.75	10.56	448.13	2,843.05	2,148.76	2,125.11	23.65	90.853	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 224H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,009.89	4,783.58	4,743.66	13.78	11.97	10.94	440.26	2,856.22	2,135.53	2,111.45	24.08	88.674	
5,200.00	5,106.49	4,881.67	4,840.54	14.10	12.19	11.32	432.39	2,869.40	2,122.41	2,097.89	24.52	86.572	
5,300.00	5,203.08	4,979.76	4,937.42	14.43	12.40	11.71	424.51	2,882.57	2,109.38	2,084.43	24.95	84.544	
5,400.00	5,299.67	5,077.85	5,034.30	14.75	12.62	12.11	416.64	2,895.74	2,096.46	2,071.09	25.37	82.621	
5,500.00	5,396.65	5,176.16	5,131.41	15.07	12.84	12.46	408.75	2,908.94	2,085.12	2,059.30	25.82	80.749	
5,600.00	5,494.23	5,274.81	5,228.84	15.36	13.06	12.81	400.83	2,922.19	2,076.42	2,050.16	26.27	79.056	
5,700.00	5,592.35	5,373.72	5,326.53	15.62	13.28	13.16	392.89	2,935.48	2,070.36	2,043.66	26.70	77.532	
5,800.00	5,690.94	5,472.83	5,424.42	15.86	13.50	13.50	384.94	2,948.79	2,066.92	2,039.79	27.13	76.173	
5,881.13	5,771.22	5,553.34	5,503.94	16.03	13.68	13.77	378.47	2,959.60	2,066.06	2,038.59	27.48	75.189	CC
5,900.00	5,789.93	5,572.07	5,522.44	16.07	13.72	13.83	376.97	2,962.11	2,066.11	2,038.55	27.56	74.973	
6,000.00	5,889.26	5,671.38	5,620.52	16.25	13.94	14.16	369.00	2,975.45	2,067.91	2,039.93	27.97	73.926	
6,100.00	5,988.86	5,770.67	5,718.60	16.41	14.16	14.48	361.03	2,988.79	2,072.30	2,043.93	28.38	73.029	
6,200.00	6,088.66	5,869.90	5,816.60	16.53	14.38	14.79	353.06	3,002.11	2,079.28	2,050.51	28.77	72.278	
6,300.00	6,188.59	5,968.98	5,914.46	16.64	14.61	15.09	345.11	3,015.42	2,088.83	2,059.69	29.14	71.676	
6,400.00	6,288.58	6,067.85	6,012.12	16.71	14.83	87.80	337.17	3,028.70	2,100.93	2,071.49	29.44	71.362	
6,500.00	6,388.58	6,166.62	6,109.67	16.76	15.05	88.03	329.25	3,041.96	2,114.10	2,084.39	29.71	71.163	
6,600.00	6,488.58	6,265.39	6,207.22	16.82	15.27	88.25	321.32	3,055.22	2,127.31	2,097.34	29.98	70.969	
6,700.00	6,588.58	6,364.16	6,304.78	16.88	15.49	88.48	313.39	3,068.49	2,140.55	2,110.31	30.24	70.779	
6,800.00	6,688.58	6,462.93	6,402.33	16.94	15.71	88.70	305.46	3,081.75	2,153.83	2,123.32	30.51	70.593	
6,900.00	6,788.58	6,561.70	6,499.88	17.00	15.93	88.92	297.53	3,095.02	2,167.13	2,136.37	30.77	70.436	
7,000.00	6,888.58	6,745.99	6,682.48	17.05	16.29	89.27	284.79	3,116.33	2,178.70	2,147.53	31.18	69.884	
7,100.00	6,988.58	6,940.52	6,876.27	17.11	16.61	89.50	276.26	3,130.61	2,186.01	2,154.46	31.54	69.305	
7,200.00	7,088.58	7,136.24	7,071.86	17.17	16.82	89.59	272.79	3,136.42	2,188.96	2,157.17	31.79	68.853	
7,300.00	7,188.58	7,252.97	7,188.58	17.23	16.86	89.59	272.71	3,136.55	2,189.03	2,157.15	31.87	68.679	
7,400.00	7,288.58	7,352.97	7,288.58	17.29	16.89	89.59	272.71	3,136.55	2,189.03	2,157.06	31.97	68.478	
7,500.00	7,388.58	7,452.97	7,388.58	17.35	16.93	89.59	272.71	3,136.55	2,189.03	2,156.97	32.06	68.278	
7,600.00	7,488.58	7,552.97	7,488.58	17.41	16.96	89.59	272.71	3,136.55	2,189.03	2,156.87	32.15	68.078	
7,700.00	7,588.58	7,652.97	7,588.58	17.47	17.00	89.59	272.71	3,136.55	2,189.03	2,156.78	32.25	67.878	
7,800.00	7,688.58	7,752.97	7,688.58	17.53	17.03	89.59	272.71	3,136.55	2,189.03	2,156.68	32.34	67.678	
7,900.00	7,788.58	7,852.97	7,788.58	17.59	17.07	89.59	272.71	3,136.55	2,189.03	2,156.59	32.44	67.478	
8,000.00	7,888.58	7,952.97	7,888.58	17.65	17.11	89.59	272.71	3,136.55	2,189.03	2,156.49	32.54	67.278	
8,100.00	7,988.58	8,052.97	7,988.58	17.71	17.14	89.59	272.71	3,136.55	2,189.03	2,156.39	32.63	67.079	
8,200.00	8,088.58	8,152.97	8,088.58	17.77	17.18	89.59	272.71	3,136.55	2,189.03	2,156.29	32.73	66.879	
8,300.00	8,188.58	8,252.97	8,188.58	17.83	17.22	89.59	272.71	3,136.55	2,189.03	2,156.20	32.83	66.680	
8,400.00	8,288.58	8,352.97	8,288.58	17.89	17.26	89.59	272.71	3,136.55	2,189.03	2,156.10	32.93	66.481	
8,500.00	8,388.58	8,452.97	8,388.58	17.95	17.29	89.59	272.71	3,136.55	2,189.03	2,156.00	33.03	66.282	
8,600.00	8,488.58	8,552.97	8,488.58	18.02	17.33	89.59	272.71	3,136.55	2,189.03	2,155.90	33.13	66.083	
8,700.00	8,588.58	8,652.97	8,588.58	18.08	17.37	89.59	272.71	3,136.55	2,189.03	2,155.80	33.23	65.885	
8,800.00	8,688.58	8,752.97	8,688.58	18.14	17.41	89.59	272.71	3,136.55	2,189.03	2,155.70	33.33	65.686	
8,900.00	8,788.58	8,852.97	8,788.58	18.20	17.45	89.59	272.71	3,136.55	2,189.03	2,155.60	33.43	65.488	
9,000.00	8,888.58	8,952.97	8,888.58	18.26	17.49	89.59	272.71	3,136.55	2,189.03	2,155.50	33.53	65.291	
9,100.00	8,988.58	9,052.97	8,988.58	18.32	17.53	89.59	272.71	3,136.55	2,189.03	2,155.40	33.63	65.093	
9,200.00	9,088.58	9,152.97	9,088.58	18.39	17.57	89.59	272.71	3,136.55	2,189.03	2,155.29	33.73	64.896	
9,300.00	9,188.58	9,252.97	9,188.58	18.45	17.61	89.59	272.71	3,136.55	2,189.03	2,155.19	33.83	64.700	
9,400.00	9,288.58	9,352.97	9,288.58	18.51	17.65	89.59	272.71	3,136.55	2,189.03	2,155.09	33.94	64.503	
9,500.00	9,388.58	9,452.97	9,388.58	18.57	17.69	89.59	272.71	3,136.55	2,189.03	2,154.99	34.04	64.307	
9,600.00	9,488.58	9,552.97	9,488.58	18.64	17.74	89.59	272.71	3,136.55	2,189.03	2,154.88	34.14	64.111	
9,700.00	9,588.58	9,652.97	9,588.58	18.70	17.78	89.59	272.71	3,136.55	2,189.03	2,154.78	34.25	63.916	
9,800.00	9,688.58	9,752.97	9,688.58	18.76	17.82	89.59	272.71	3,136.55	2,189.03	2,154.67	34.35	63.721	
9,900.00	9,788.58	9,852.97	9,788.58	18.83	17.86	89.59	272.71	3,136.55	2,189.03	2,154.57	34.46	63.527	
10,000.00	9,888.58	9,952.97	9,888.58	18.89	17.91	89.59	272.71	3,136.55	2,189.03	2,154.46	34.56	63.332	
10,100.00	9,988.58	10,052.97	9,988.58	18.95	17.95	89.59	272.71	3,136.55	2,189.03	2,154.36	34.67	63.139	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 224H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,200.00	10,088.58	10,152.97	10,088.58	19.02	17.99	89.59	272.71	3,136.55	2,189.03	2,154.25	34.78	62.945	
10,300.00	10,188.58	10,252.97	10,188.58	19.08	18.04	89.59	272.71	3,136.55	2,189.03	2,154.14	34.88	62.752	
10,400.00	10,288.58	10,352.97	10,288.58	19.15	18.08	89.59	272.71	3,136.55	2,189.03	2,154.03	34.99	62.560	
10,500.00	10,388.58	10,452.97	10,388.58	19.21	18.12	89.59	272.71	3,136.55	2,189.03	2,153.93	35.10	62.368	
10,600.00	10,488.58	10,552.97	10,488.58	19.27	18.17	89.59	272.71	3,136.55	2,189.03	2,153.82	35.21	62.176	
10,700.00	10,588.58	10,652.97	10,588.58	19.34	18.21	89.59	272.71	3,136.55	2,189.03	2,153.71	35.32	61.985	
10,800.00	10,688.58	10,752.97	10,688.58	19.40	18.26	89.59	272.71	3,136.55	2,189.03	2,153.60	35.42	61.794	
10,900.00	10,788.58	10,852.97	10,788.58	19.47	18.30	89.59	272.71	3,136.55	2,189.03	2,153.49	35.53	61.604	
11,000.00	10,888.58	10,952.97	10,888.58	19.53	18.35	89.59	272.71	3,136.55	2,189.03	2,153.38	35.64	61.414	
11,100.00	10,988.58	11,052.97	10,988.58	19.60	18.40	89.59	272.71	3,136.55	2,189.03	2,153.27	35.75	61.225	
11,200.00	11,088.58	11,152.97	11,088.58	19.66	18.44	89.59	272.71	3,136.55	2,189.03	2,153.16	35.86	61.037	
11,300.00	11,188.58	11,252.97	11,188.58	19.73	18.49	89.59	272.71	3,136.55	2,189.03	2,153.05	35.98	60.848	
11,400.00	11,288.58	11,352.97	11,288.58	19.79	18.54	89.59	272.71	3,136.55	2,189.03	2,152.94	36.09	60.661	
11,500.00	11,388.58	11,452.97	11,388.58	19.86	18.58	89.59	272.71	3,136.55	2,189.03	2,152.83	36.20	60.473	
11,600.00	11,488.58	11,552.97	11,488.58	19.92	18.63	89.59	272.71	3,136.55	2,189.03	2,152.72	36.31	60.287	
11,700.00	11,588.58	11,652.97	11,588.58	19.99	18.68	89.59	272.71	3,136.55	2,189.03	2,152.60	36.42	60.101	
11,800.00	11,688.58	11,752.97	11,688.58	20.05	18.73	89.59	272.71	3,136.55	2,189.03	2,152.49	36.54	59.915	
11,900.00	11,788.58	11,852.97	11,788.58	20.12	18.77	89.59	272.71	3,136.55	2,189.03	2,152.38	36.65	59.730	
12,000.00	11,888.58	11,952.97	11,888.58	20.19	18.82	89.59	272.71	3,136.55	2,189.03	2,152.26	36.76	59.546	
12,100.00	11,988.51	12,052.90	11,988.51	20.25	18.87	-89.98	272.71	3,136.55	2,189.02	2,152.21	36.82	59.456	
12,108.00	11,996.47	12,060.86	11,996.47	20.25	18.87	-90.00	272.71	3,136.55	2,189.02	2,152.21	36.82	59.457	
12,200.00	12,086.82	12,151.20	12,086.82	20.31	18.92	-90.42	272.71	3,136.55	2,189.09	2,152.28	36.81	59.474	
12,300.00	12,180.57	12,242.69	12,178.30	20.35	18.95	-91.19	272.66	3,136.56	2,189.63	2,152.87	36.75	59.578	
12,400.00	12,266.93	12,313.28	12,248.65	20.39	19.01	-91.78	267.46	3,137.15	2,191.76	2,155.06	36.70	59.715	
12,500.00	12,343.26	12,386.66	12,320.52	20.44	19.13	-92.27	252.98	3,138.80	2,196.08	2,159.34	36.74	59.778	
12,600.00	12,407.24	12,463.77	12,393.38	20.52	19.32	-92.65	228.08	3,141.63	2,202.66	2,165.76	36.90	59.687	
12,700.00	12,456.94	12,545.97	12,466.59	20.67	19.58	-92.94	191.10	3,145.85	2,211.52	2,174.27	37.25	59.369	
12,800.00	12,490.84	12,635.24	12,539.18	20.88	19.93	-93.14	139.62	3,151.71	2,222.54	2,184.71	37.83	58.755	
12,900.00	12,507.91	12,734.59	12,609.40	21.18	20.43	-93.31	69.96	3,159.65	2,235.50	2,196.84	38.66	57.822	
13,000.00	12,510.43	12,850.63	12,674.64	21.56	21.16	-94.30	-25.14	3,170.49	2,249.79	2,210.01	39.78	56.551	
13,100.00	12,511.30	12,995.68	12,727.01	22.01	22.27	-95.58	-159.13	3,185.75	2,263.43	2,222.18	41.25	54.871	
13,200.00	12,512.18	13,211.23	12,744.36	22.52	24.19	-95.91	-372.03	3,208.92	2,274.57	2,231.35	43.22	52.631	
13,300.00	12,513.05	13,485.12	12,745.80	23.10	26.84	-95.87	-645.61	3,219.86	2,276.35	2,230.72	45.63	49.889	
13,400.00	12,513.92	13,585.12	12,746.33	23.73	27.84	-95.86	-745.61	3,220.77	2,276.36	2,229.11	47.25	48.175	
13,500.00	12,514.80	13,685.12	12,746.85	24.41	28.87	-95.85	-845.60	3,221.67	2,276.37	2,227.40	48.98	46.480	
13,600.00	12,515.67	13,785.12	12,747.38	25.15	29.92	-95.84	-945.59	3,222.58	2,276.39	2,225.60	50.79	44.820	
13,700.00	12,516.55	13,885.12	12,747.91	25.93	30.99	-95.83	-1,045.59	3,223.49	2,276.40	2,223.71	52.68	43.208	
13,800.00	12,517.42	13,985.12	12,748.43	26.76	32.08	-95.82	-1,145.58	3,224.40	2,276.41	2,221.76	54.65	41.652	
13,900.00	12,518.29	14,085.12	12,748.96	27.63	33.19	-95.82	-1,245.57	3,225.31	2,276.42	2,219.74	56.69	40.159	
14,000.00	12,519.17	14,185.11	12,749.48	28.53	34.32	-95.81	-1,345.57	3,226.22	2,276.44	2,217.66	58.78	38.731	
14,100.00	12,520.04	14,285.11	12,750.01	29.47	35.46	-95.80	-1,445.56	3,227.13	2,276.45	2,215.53	60.92	37.368	
14,200.00	12,520.91	14,385.11	12,750.53	30.44	36.61	-95.79	-1,545.56	3,228.04	2,276.46	2,213.35	63.11	36.072	
14,300.00	12,521.79	14,485.11	12,751.06	31.44	37.78	-95.78	-1,645.55	3,228.95	2,276.47	2,211.13	65.34	34.840	
14,400.00	12,522.66	14,585.11	12,751.59	32.46	38.96	-95.77	-1,745.54	3,229.86	2,276.49	2,208.88	67.61	33.671	
14,500.00	12,523.53	14,685.11	12,752.11	33.51	40.15	-95.76	-1,845.54	3,230.76	2,276.50	2,206.58	69.91	32.562	
14,600.00	12,524.41	14,785.11	12,752.64	34.58	41.36	-95.75	-1,945.53	3,231.67	2,276.51	2,204.26	72.25	31.510	
14,700.00	12,525.28	14,885.11	12,753.16	35.67	42.57	-95.75	-2,045.53	3,232.58	2,276.52	2,201.92	74.61	30.513	
14,800.00	12,526.16	14,985.11	12,753.69	36.78	43.79	-95.74	-2,145.52	3,233.49	2,276.54	2,199.54	76.99	29.568	
14,900.00	12,527.03	15,085.11	12,754.21	37.90	45.01	-95.73	-2,245.51	3,234.40	2,276.55	2,197.15	79.40	28.671	
15,000.00	12,527.90	15,185.11	12,754.74	39.04	46.25	-95.72	-2,345.51	3,235.31	2,276.56	2,194.73	81.83	27.820	
15,100.00	12,528.78	15,285.11	12,755.27	40.20	47.49	-95.71	-2,445.50	3,236.22	2,276.57	2,192.29	84.28	27.012	
15,200.00	12,529.65	15,385.11	12,755.79	41.37	48.74	-95.70	-2,545.50	3,237.13	2,276.59	2,189.84	86.75	26.244	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 224H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,300.00	12,530.52	15,485.11	12,756.32	42.55	49.99	-95.69	-2,645.49	3,238.04	2,276.60	2,187.37	89.23	25.514	
15,400.00	12,531.40	15,585.11	12,756.84	43.74	51.25	-95.68	-2,745.48	3,238.94	2,276.61	2,184.89	91.72	24.820	
15,500.00	12,532.27	15,685.11	12,757.37	44.94	52.52	-95.67	-2,845.48	3,239.85	2,276.63	2,182.39	94.23	24.159	
15,600.00	12,533.14	15,785.11	12,757.89	46.15	53.79	-95.67	-2,945.47	3,240.76	2,276.64	2,179.89	96.75	23.530	
15,700.00	12,534.02	15,885.10	12,758.42	47.37	55.06	-95.66	-3,045.46	3,241.67	2,276.65	2,177.37	99.29	22.930	
15,800.00	12,534.89	15,985.10	12,758.94	48.59	56.34	-95.65	-3,145.46	3,242.58	2,276.67	2,174.84	101.83	22.357	
15,900.00	12,535.76	16,085.10	12,759.47	49.83	57.62	-95.64	-3,245.45	3,243.49	2,276.68	2,172.30	104.38	21.811	
16,000.00	12,536.64	16,185.10	12,760.00	51.07	58.91	-95.63	-3,345.45	3,244.40	2,276.69	2,169.75	106.94	21.289	
16,100.00	12,537.51	16,285.10	12,760.52	52.32	60.20	-95.62	-3,445.44	3,245.31	2,276.71	2,167.19	109.51	20.789	
16,200.00	12,538.39	16,385.10	12,761.05	53.57	61.49	-95.61	-3,545.43	3,246.22	2,276.72	2,164.63	112.09	20.311	
16,300.00	12,539.26	16,485.10	12,761.57	54.83	62.78	-95.60	-3,645.43	3,247.13	2,276.73	2,162.06	114.68	19.853	
16,400.00	12,540.13	16,585.10	12,762.10	56.09	64.08	-95.60	-3,745.42	3,248.03	2,276.75	2,159.48	117.27	19.415	
16,500.00	12,541.01	16,685.10	12,762.62	57.36	65.38	-95.59	-3,845.42	3,248.94	2,276.76	2,156.89	119.87	18.994	
16,600.00	12,541.88	16,785.10	12,763.15	58.64	66.69	-95.58	-3,945.41	3,249.85	2,276.77	2,154.30	122.47	18.590	
16,700.00	12,542.75	16,885.10	12,763.68	59.91	67.99	-95.57	-4,045.40	3,250.76	2,276.79	2,151.71	125.08	18.203	
16,800.00	12,543.63	16,985.10	12,764.20	61.20	69.30	-95.56	-4,145.40	3,251.67	2,276.80	2,149.11	127.69	17.830	
16,900.00	12,544.50	17,085.10	12,764.73	62.48	70.61	-95.55	-4,245.39	3,252.58	2,276.82	2,146.50	130.31	17.472	
17,000.00	12,545.37	17,185.10	12,765.25	63.77	71.93	-95.54	-4,345.39	3,253.49	2,276.83	2,143.89	132.94	17.127	
17,100.00	12,546.25	17,285.10	12,765.78	65.06	73.24	-95.53	-4,445.38	3,254.40	2,276.84	2,141.28	135.57	16.795	
17,200.00	12,547.12	17,385.10	12,766.30	66.36	74.56	-95.52	-4,545.37	3,255.31	2,276.86	2,138.66	138.20	16.475	
17,300.00	12,547.99	17,485.09	12,766.83	67.66	75.88	-95.52	-4,645.37	3,256.22	2,276.87	2,136.04	140.83	16.167	
17,400.00	12,548.87	17,585.09	12,767.36	68.96	77.20	-95.51	-4,745.36	3,257.12	2,276.89	2,133.41	143.47	15.870	
17,500.00	12,549.74	17,685.09	12,767.88	70.26	78.52	-95.50	-4,845.35	3,258.03	2,276.90	2,130.78	146.12	15.583	
17,600.00	12,550.62	17,785.09	12,768.41	71.57	79.84	-95.49	-4,945.35	3,258.94	2,276.92	2,128.15	148.76	15.306	
17,700.00	12,551.49	17,885.09	12,768.93	72.88	81.17	-95.48	-5,045.34	3,259.85	2,276.93	2,125.52	151.41	15.038	
17,800.00	12,552.36	17,985.09	12,769.46	74.19	82.49	-95.47	-5,145.34	3,260.76	2,276.94	2,122.88	154.06	14.779	
17,900.00	12,553.24	18,085.09	12,769.98	75.50	83.82	-95.46	-5,245.33	3,261.67	2,276.96	2,120.24	156.72	14.529	
18,000.00	12,554.11	18,185.09	12,770.51	76.81	85.15	-95.45	-5,345.32	3,262.58	2,276.97	2,117.60	159.38	14.287	
18,100.00	12,554.98	18,285.09	12,771.04	78.13	86.48	-95.44	-5,445.32	3,263.49	2,276.99	2,114.95	162.04	14.052	
18,200.00	12,555.86	18,385.09	12,771.56	79.45	87.81	-95.44	-5,545.31	3,264.40	2,277.00	2,112.30	164.70	13.825	
18,300.00	12,556.73	18,485.09	12,772.09	80.77	89.14	-95.43	-5,645.31	3,265.31	2,277.02	2,109.65	167.37	13.605	
18,400.00	12,557.60	18,585.09	12,772.61	82.09	90.48	-95.42	-5,745.30	3,266.21	2,277.03	2,107.00	170.03	13.392	
18,500.00	12,558.48	18,685.09	12,773.14	83.42	91.81	-95.41	-5,845.29	3,267.12	2,277.05	2,104.34	172.70	13.185	
18,600.00	12,559.35	18,785.09	12,773.66	84.74	93.15	-95.40	-5,945.29	3,268.03	2,277.06	2,101.69	175.37	12.984	
18,700.00	12,560.23	18,885.09	12,774.19	86.07	94.48	-95.39	-6,045.28	3,268.94	2,277.08	2,099.03	178.05	12.789	
18,800.00	12,561.10	18,985.09	12,774.72	87.40	95.82	-95.38	-6,145.27	3,269.85	2,277.09	2,096.37	180.72	12.600	
18,900.00	12,561.97	19,085.08	12,775.24	88.72	97.16	-95.37	-6,245.27	3,270.76	2,277.11	2,093.71	183.40	12.416	
19,000.00	12,562.85	19,185.08	12,775.77	90.05	98.50	-95.37	-6,345.26	3,271.67	2,277.12	2,091.04	186.08	12.237	
19,100.00	12,563.72	19,285.08	12,776.29	91.39	99.84	-95.36	-6,445.26	3,272.58	2,277.14	2,088.38	188.76	12.064	
19,200.00	12,564.59	19,385.08	12,776.82	92.72	101.18	-95.35	-6,545.25	3,273.49	2,277.15	2,085.71	191.44	11.895	
19,300.00	12,565.47	19,485.08	12,777.34	94.05	102.52	-95.34	-6,645.24	3,274.40	2,277.17	2,083.04	194.12	11.731	
19,400.00	12,566.34	19,585.08	12,777.87	95.39	103.86	-95.33	-6,745.24	3,275.30	2,277.18	2,080.37	196.81	11.571	
19,500.00	12,567.21	19,685.08	12,778.40	96.72	105.20	-95.32	-6,845.23	3,276.21	2,277.20	2,077.70	199.49	11.415	
19,600.00	12,568.09	19,785.08	12,778.92	98.06	106.55	-95.31	-6,945.23	3,277.12	2,277.21	2,075.03	202.18	11.263	
19,700.00	12,568.96	19,885.08	12,779.45	99.40	107.89	-95.30	-7,045.22	3,278.03	2,277.23	2,072.36	204.87	11.116	
19,800.00	12,569.83	19,985.08	12,779.97	100.73	109.23	-95.29	-7,145.21	3,278.94	2,277.24	2,069.69	207.56	10.972	
19,900.00	12,570.71	20,085.08	12,780.50	102.07	110.58	-95.29	-7,245.21	3,279.85	2,277.26	2,067.01	210.25	10.831	
20,000.00	12,571.58	20,185.08	12,781.02	103.41	111.92	-95.28	-7,345.20	3,280.76	2,277.27	2,064.33	212.94	10.694	
20,100.00	12,572.46	20,285.08	12,781.55	104.75	113.27	-95.27	-7,445.20	3,281.67	2,277.29	2,061.66	215.63	10.561	
20,200.00	12,573.33	20,385.08	12,782.08	106.10	114.62	-95.26	-7,545.19	3,282.58	2,277.31	2,058.98	218.33	10.431	
20,300.00	12,574.20	20,485.08	12,782.60	107.44	115.97	-95.25	-7,645.18	3,283.48	2,277.32	2,056.30	221.02	10.304	
20,400.00	12,575.08	20,585.08	12,783.13	108.78	117.31	-95.24	-7,745.18	3,284.39	2,277.34	2,053.62	223.72	10.179	

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 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 224H - OH - Plan 1

Offset Site Error: 0.00 usft

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

Rule Assigned:

Offset Well Error: 0.50 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,500.00	12,575.95	20,685.07	12,783.65	110.12	118.66	-95.23	-7,845.17	3,285.30	2,277.35	2,050.94	226.42	10.058	
20,600.00	12,576.82	20,785.07	12,784.18	111.47	120.01	-95.22	-7,945.16	3,286.21	2,277.37	2,048.26	229.11	9.940	
20,700.00	12,577.70	20,885.07	12,784.70	112.81	121.36	-95.22	-8,045.16	3,287.12	2,277.39	2,045.57	231.81	9.824	
20,800.00	12,578.57	20,985.07	12,785.23	114.16	122.71	-95.21	-8,145.15	3,288.03	2,277.40	2,042.89	234.51	9.711	
20,900.00	12,579.44	21,085.07	12,785.76	115.51	124.06	-95.20	-8,245.15	3,288.94	2,277.42	2,040.20	237.21	9.601	
21,000.00	12,580.32	21,185.07	12,786.28	116.85	125.41	-95.19	-8,345.14	3,289.85	2,277.43	2,037.52	239.91	9.493	
21,100.00	12,581.19	21,285.07	12,786.81	118.20	126.76	-95.18	-8,445.13	3,290.76	2,277.45	2,034.83	242.62	9.387	
21,200.00	12,582.06	21,385.07	12,787.33	119.55	128.11	-95.17	-8,545.13	3,291.67	2,277.47	2,032.15	245.32	9.284	
21,300.00	12,582.94	21,485.07	12,787.86	120.89	129.46	-95.16	-8,645.12	3,292.57	2,277.48	2,029.46	248.02	9.183	
21,400.00	12,583.81	21,585.07	12,788.38	122.24	130.82	-95.15	-8,745.12	3,293.48	2,277.50	2,026.77	250.73	9.084	
21,500.00	12,584.69	21,685.07	12,788.91	123.59	132.17	-95.14	-8,845.11	3,294.39	2,277.51	2,024.08	253.43	8.987	
21,600.00	12,585.56	21,785.07	12,789.43	124.94	133.52	-95.14	-8,945.10	3,295.30	2,277.53	2,021.39	256.14	8.892	
21,700.00	12,586.43	21,885.07	12,789.96	126.29	134.87	-95.13	-9,045.10	3,296.21	2,277.55	2,018.70	258.84	8.799	
21,800.00	12,587.31	21,985.07	12,790.49	127.64	136.23	-95.12	-9,145.09	3,297.12	2,277.56	2,016.01	261.55	8.708	
21,900.00	12,588.18	22,085.07	12,791.01	128.99	137.58	-95.11	-9,245.08	3,298.03	2,277.58	2,013.32	264.26	8.619	
22,000.00	12,589.05	22,185.07	12,791.54	130.34	138.94	-95.10	-9,345.08	3,298.94	2,277.60	2,010.63	266.97	8.531	
22,100.00	12,589.93	22,285.07	12,792.06	131.70	140.29	-95.09	-9,445.07	3,299.85	2,277.61	2,007.94	269.67	8.446	
22,200.00	12,590.80	22,385.06	12,792.59	133.05	141.64	-95.08	-9,545.07	3,300.76	2,277.63	2,005.25	272.38	8.362	
22,300.00	12,591.67	22,485.06	12,793.11	134.40	143.00	-95.07	-9,645.06	3,301.66	2,277.65	2,002.55	275.09	8.280	
22,400.00	12,592.55	22,585.06	12,793.64	135.75	144.35	-95.07	-9,745.05	3,302.57	2,277.66	1,999.86	277.80	8.199	
22,500.00	12,593.42	22,685.06	12,794.17	137.11	145.71	-95.06	-9,845.05	3,303.48	2,277.68	1,997.17	280.51	8.120	
22,600.00	12,594.30	22,785.06	12,794.69	138.46	147.06	-95.05	-9,945.04	3,304.39	2,277.70	1,994.47	283.23	8.042	
22,700.00	12,595.17	22,885.06	12,795.22	139.81	148.42	-95.04	-10,045.04	3,305.30	2,277.72	1,991.78	285.94	7.966	
22,800.00	12,596.04	22,985.06	12,795.74	141.17	149.78	-95.03	-10,145.03	3,306.21	2,277.73	1,989.08	288.65	7.891	
22,875.30	12,596.70	23,060.36	12,796.14	142.19	150.73	-95.02	-10,220.33	3,306.89	2,277.75	1,987.14	290.60	7.838	ES, SF

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

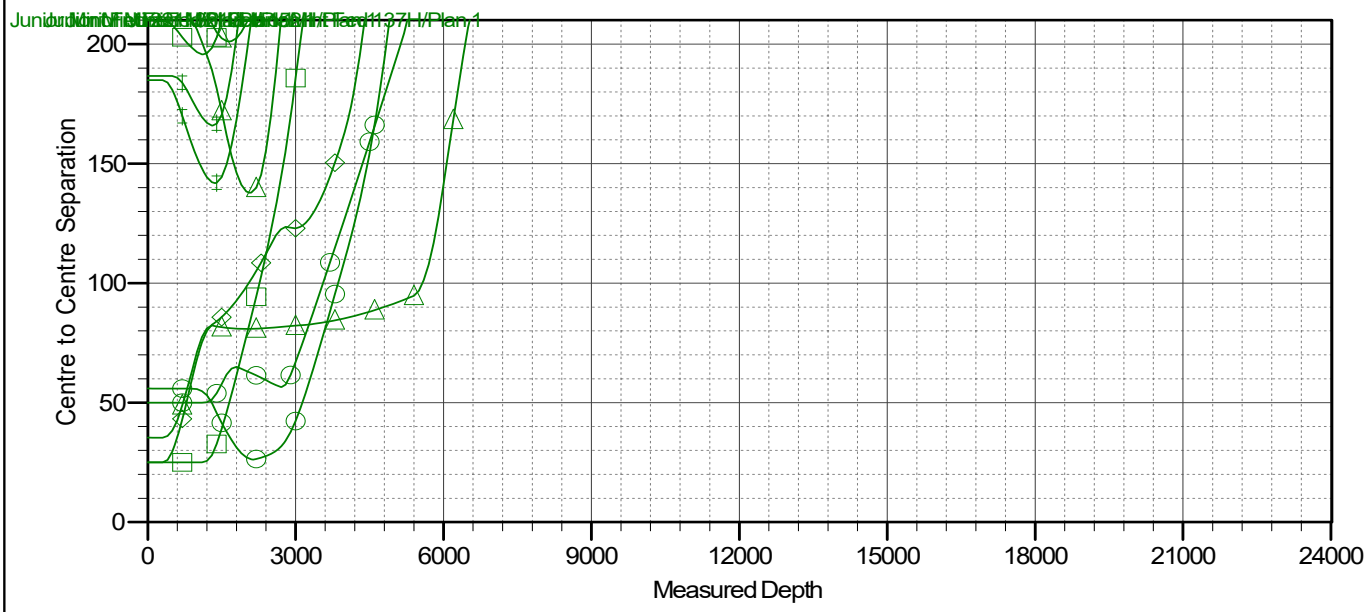
Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to GE 3221 + 26 @ 3247.00usft (26' KB) Coordinates are relative to: Junior Mint Fed 217H
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Central Meridian is -104.3333333 Grid Convergence at Surface is: 0.52°

Ladder Plot



LEGEND

- Junior Mint Fed 131H, OH, Plan 1 V0
- Junior Mint Fed 138H, OH, Plan 1 V0
- Junior Mint Fed 152H, OH, Plan 1 V0
- Junior Mint Fed 133H, OH, Plan 1 V0
- Junior Mint Fed 213H, OH, Plan 1 V0
- Junior Mint Fed 221H, OH, Plan 1 V0
- Junior Mint Fed 211H, OH, Plan 1 V0
- Junior Mint Fed 224H, OH, Plan 1 V0
- Junior Mint Fed 223H, OH, Plan 1 V0
- Junior Mint Fed 132H, OH, Plan 1 V0
- Junior Mint Fed 156H, OH, Plan 1 V0
- Junior Mint Fed 134H, OH, Plan 1 V0
- Junior Mint Fed 135H, OH, Plan 1 V0
- (O) Montera Federal 023H, OH, OH V0
- Junior Mint Fed 137H, OH, Plan 1 V0
- Junior Mint Fed 151H, OH, Plan 1 V0
- Junior Mint Fed 212H, OH, Plan 1 V0
- Junior Mint Fed 215H, OH, Plan 1 V0
- Junior Mint Fed 222H, OH, Plan 1 V0
- Junior Mint Fed 214H, OH, Plan 1 V0
- Junior Mint Fed 216H, OH, Plan 1 V0

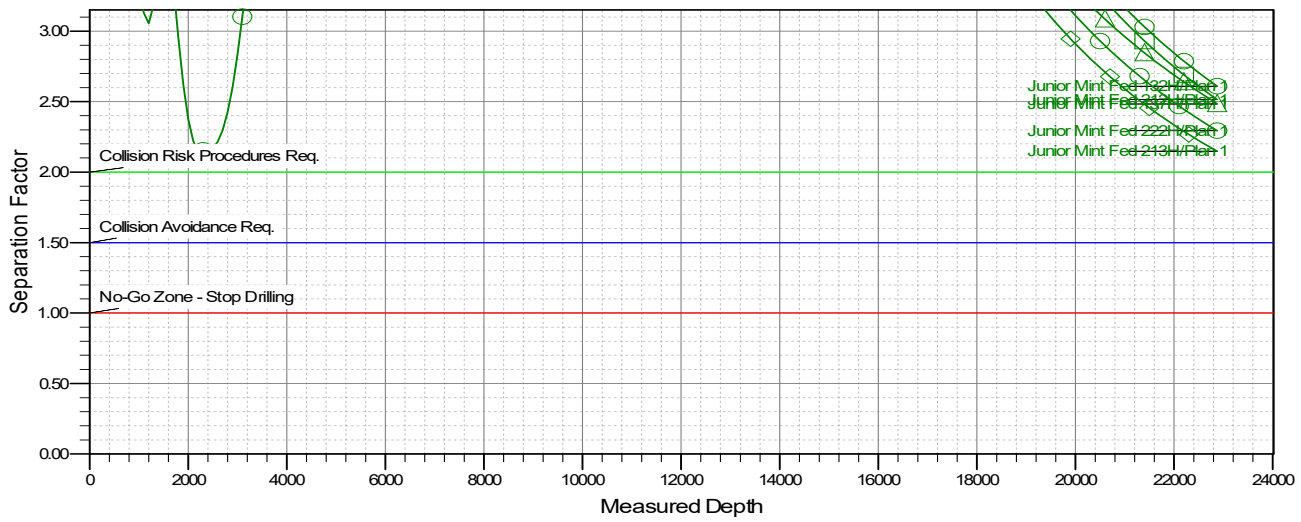
Total Directional

Anticollision Report

Company:	Civitas Resources	**Local Co-ordinate Reference:**	Well Junior Mint Fed 217H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	**MD Reference:**	GE 3221 + 26 @ 3247.00usft (26' KB)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Junior Mint Fed 217H	**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 1	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to GE 3221 + 26 @ 3247.00usft (26' KB) Coordinates are relative to: Junior Mint Fed 217H
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Central Meridian is -104.3333333 Grid Convergence at Surface is: 0.52°

Separation Factor Plot



LEGEND

- Junior Mint Fed 131H, OH, Plan 1 V0
- Junior Mint Fed 138H, OH, Plan 1 V0
- Junior Mint Fed 152H, OH, Plan 1 V0
- Junior Mint Fed 133H, OH, Plan 1 V0
- Junior Mint Fed 213H, OH, Plan 1 V0
- Junior Mint Fed 221H, OH, Plan 1 V0
- Junior Mint Fed 211H, OH, Plan 1 V0
- Junior Mint Fed 224H, OH, Plan 1 V0
- Junior Mint Fed 223H, OH, Plan 1 V0
- Junior Mint Fed 132H, OH, Plan 1 V0
- Junior Mint Fed 156H, OH, Plan 1 V0
- Junior Mint Fed 134H, OH, Plan 1 V0
- Junior Mint Fed 135H, OH, Plan 1 V0
- (O) Montera Federal 023H, OH, OH V0
- Junior Mint Fed 137H, OH, Plan 1 V0
- Junior Mint Fed 151H, OH, Plan 1 V0
- Junior Mint Fed 212H, OH, Plan 1 V0
- Junior Mint Fed 215H, OH, Plan 1 V0
- Junior Mint Fed 222H, OH, Plan 1 V0
- Junior Mint Fed 214H, OH, Plan 1 V0
- Junior Mint Fed 216H, OH, Plan 1 V0

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 476281

CONDITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 476281
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	Any previous COA's not addressed within the updated COA's still apply.	6/25/2025