

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/212H

2. Name of Operator
CIVITAS PERMIAN OPERATING LLC

9. API Well No.

3a. Address 555 17TH STREET SUITE 3700, DENVER, CO 80202

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

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

Civitas Permian Operating, LLC requests the following changes to the previously approved surface hole location (SHL) and drill plan. Change SHL from 272 FNL & 1506 FWL, NENW, Sec. 15, T.25S, R.35E to 326 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

Permitting Agent

(Electronic Submission)
Signature

Date
04/18/2025

THE SPACE FOR FEDERAL OR STATE OFFICE USE

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

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

Additional Information

Location of Well

0. SHL: NENW / 272 FNL / 1506 FWL / TWSP: 25S / RANGE: 35E / SECTION: 15 / LAT: 32.1368896 / LONG: -103.3590678 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 117 FNL / 1648 FWL / TWSP: 25S / RANGE: 35E / SECTION: 15 / LAT: 32.137314 / LONG: -103.3586092 (TVD: 12210 feet, MD: 12234 feet)

BHL: SESW / 5 FSL / 1650 FWL / TWSP: 25S / RANGE: 35E / SECTION: 22 / LAT: 32.1086305 / LONG: -103.3586198 (TVD: 12603 feet, MD: 22786 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 30-025-54750	Pool Code 17980	Pool Name DOGIE DRAW; WOLFCAMP
Property Code	Property Name JUNIOR MINT FED	Well Number 212H
OGRID No. 332195	Operator Name CIVITAS PERMIAN OPERATING, LLC	Ground Level Elevation 3220'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
C	15	25-S	35-E	-	326' N	1411' W	N 32.1367408	W 103.3593763	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	1650' W	N 32.1086305	W 103.3586198	LEA

Dedicated Acres 1280.00	Infill or Defining Well Infill	Defining Well API - 30-025-54740	Overlapping Spacing Unit (Y/N) No	Consolidated Code N/A
Order Numbers N/A			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	1650' W	N 32.1373602	W 103.3586043	LEA

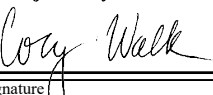
First Take Point (FTP)

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	1650' W	N 32.1373602	W 103.3586043	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	1650' W	N 32.1088916	W 103.3586191	LEA

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

OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief; and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received The consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i>  4-16-25		SURVEYORS CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>  2/6/2025 3:56:25 PM	
Signature Cory Walk		Signature and Seal of Professional Surveyor	
Date 4-16-25		Date	
Print Name cory@permitswest.com		Certificate Number	Date of Survey 01/30/2025
E-mail Address			

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July 9, 2024	
			Submittal Type: ☐ Initial Submittal ☒ Amended Report ☐ As Drilled	
	Property Name and Well Number JUNIOR MINT FED 212H			

SURFACE LOCATION (SHL)

NEW MEXICO EAST
 NAD 1983
 X=842810 Y=414845
 LAT.: N 32.1367408
 LONG.: W 103.3593763
 NAD 1927
 X=801623 Y=414787
 LAT.: N 32.1366145
 LONG.: W 103.3589113
 326' FNL 1411' FWL

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

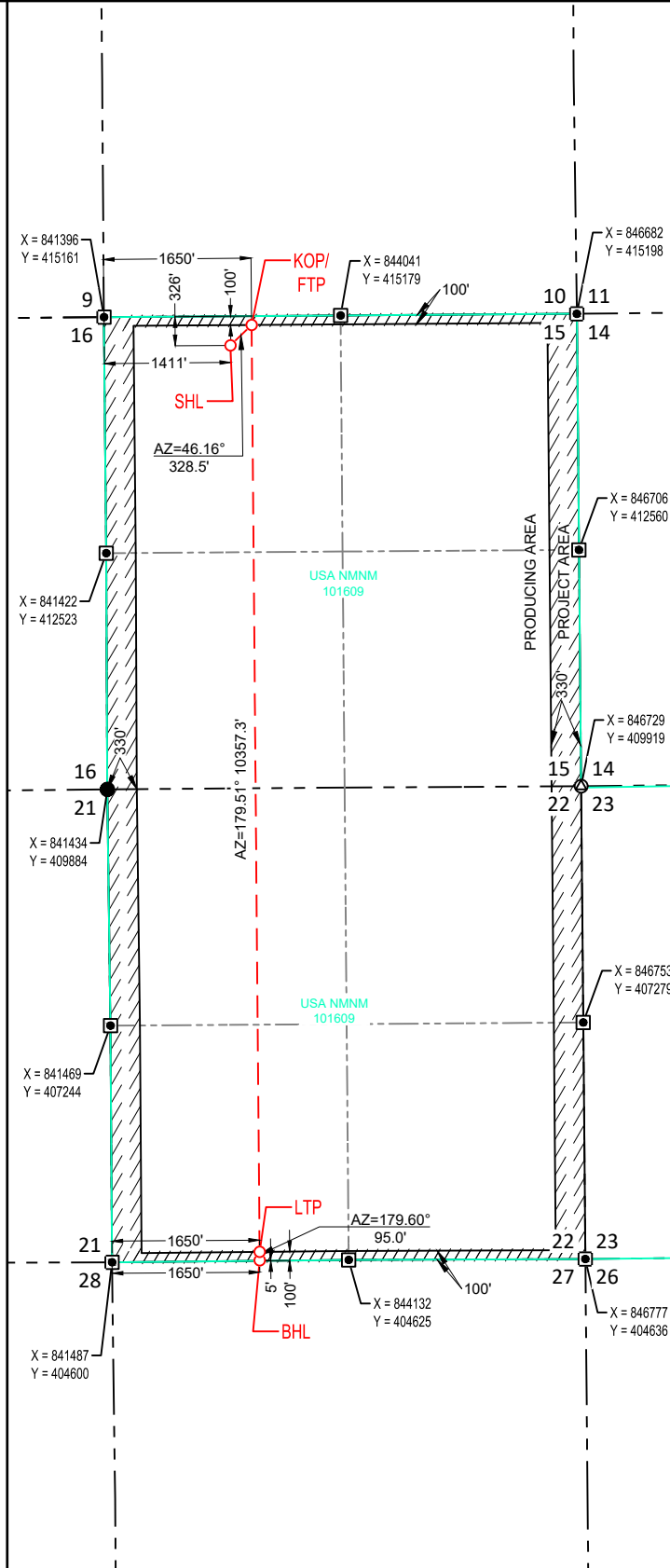
NEW MEXICO EAST
 NAD 1983
 X=843047 Y=415073
 LAT.: N 32.1373602
 LONG.: W 103.3586043
 NAD 1927
 X=801860 Y=415014
 LAT.: N 32.1372339
 LONG.: W 103.3581392
 100' FNL 1650' FWL

LAST TAKE POINT (LTP)

NEW MEXICO EAST
 NAD 1983
 X=843136 Y=404716
 LAT.: N 32.1088916
 LONG.: W 103.3586191
 NAD 1927
 X=801949 Y=404658
 LAT.: N 32.1087652
 LONG.: W 103.3581556
 100' FSL 1650' FWL

BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST
 NAD 1983
 X=843137 Y=404621
 LAT.: N 32.1086305
 LONG.: W 103.3586198
 NAD 1927
 X=801950 Y=404563
 LAT.: N 32.1085040
 LONG.: W 103.3581563
 5' FSL 1650' 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:





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

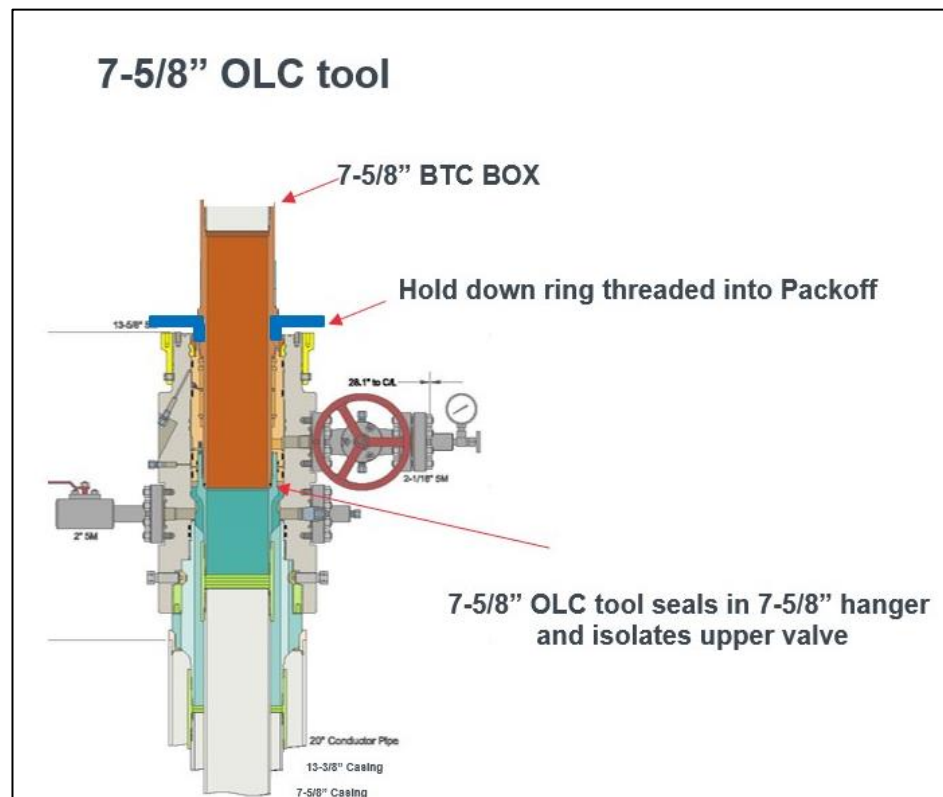


mid/base of the Brushy Canyon and stage 2 would be pumped as a standard bradenhead squeeze to the mid/base of Brushy Canyon (as described above), thus cementing the entire string. To verify the TOC of stage 2, and Echo-meter will be used and with BLM approval, top out the job as needed.

- 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 1/2" casing design), a variance to waive the centralizers is requested due to the tight clearance between 6 3/4" hole and 5 1/2" casing and the risk of not getting casing to bottom.



- Junior Mint Fed 212, WCA Target

Estimated Tops:

Formation	TVD	MD	Lithologies	Bearing
Quaternary Deposits	0	0	Surface	None
Rustler	660	660	Salt	Salt
Top Salt	1,100	1,100	Salt	Salt
Base Salt	4,920	5,169	Salt	Salt
DMG	5,160	5,437	Sandstone	None
Lamar	5,165	5,442	Sandstone	Hydrocarbons
Bell Canyon	5,185	5,462	Sandstone	Hydrocarbons
Ramsey Sand	5,205	5,482	Sandstone	Hydrocarbons
Cherry Canyon	6,150	6,427	Limestone	Hydrocarbons
Brushy Canyon	7,620	7,897	Sandstone	Hydrocarbons
Bone Spring Lime	8,930	9,207	Carbonate	Hydrocarbons
Upper Avalon	8,955	9,232	Carbonate	Hydrocarbons
Middle Avalon	9,185	9,462	Carbonate	Hydrocarbons
1st BS Sand	10,165	10,442	Sandstone	Hydrocarbons
2nd BS Carb	10,330	10,607	Carbonate	Hydrocarbons
2nd BS Sand	10,715	10,992	Sandstone	Hydrocarbons
3rd BS Carb	11,265	11,542	Carbonate	Hydrocarbons
3rd BS Sand	11,895	12,172	Sandstone	Hydrocarbons
KOP	11943	11966	Carbonate	Hydrocarbons
TD	12602	22795	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	11,866	7 5/8	API	No	0	11,866	0	11,743	P-110	29.7	BTC	1.13	1.15	1.6
Production	6 3/4	11,866	11,966	5 1/2	NON API	No	0	11,966	0	11,943	P110RYS	23	Talon	1.13	1.15	1.6
	6 3/4	11,966	22,795	5 1/2	NON API	No	11,966	22,795	11,943	12,602	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	1066	4.29	4574	10.5	200%	C	Contingency Bradenhead Squeeze, LCM Lead
	Tail	10866	129	1.67	215	13.2	100%	C	Additives + LCM
Production	Tail	11366	924	1.24	1146	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	11,866	DBE	9.20	27-30	NC
Production	11,866	22,795	OBM	12.50	55-65	<16



U. S. Steel Tubular Products

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

2/25/2025 2:43:45 PM

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

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U. S. Steel Tubular Products

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

2/25/2025 2:25:12 PM

				
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

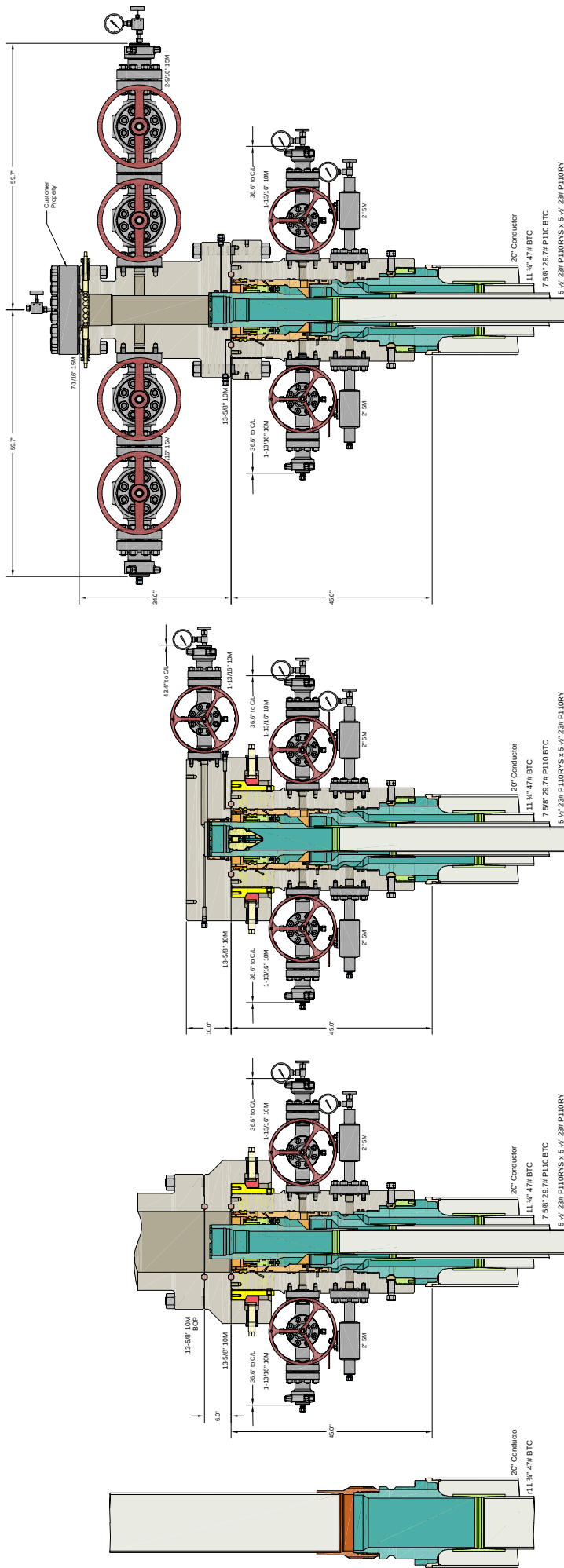
1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (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.

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

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



ALL DIMENSIONS APPROXIMATE

CIVITAS RESOURCES
DELAWARE BASIN

DRAWN	VJK	13FEB25
APPRV		
DRAWING NO.	REF: HBE0001444	

CACTUS WELLHEAD LLC

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

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.

Project: Lea County, NM (NAD 83)
 Site: Junior Mint Fed Pad
 Well: Junior Mint Fed 212H
 Wellbore: OH
 Design: Plan 1
 Rig: 26' KB



Azimuths to Grid North
 True North: -0.52°
 Magnetic North: 5.55°
 Magnetic Field
 Strength: 47069.4nT
 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 3220 + 26 @ 3246.00usft (26' KB)

SHL

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

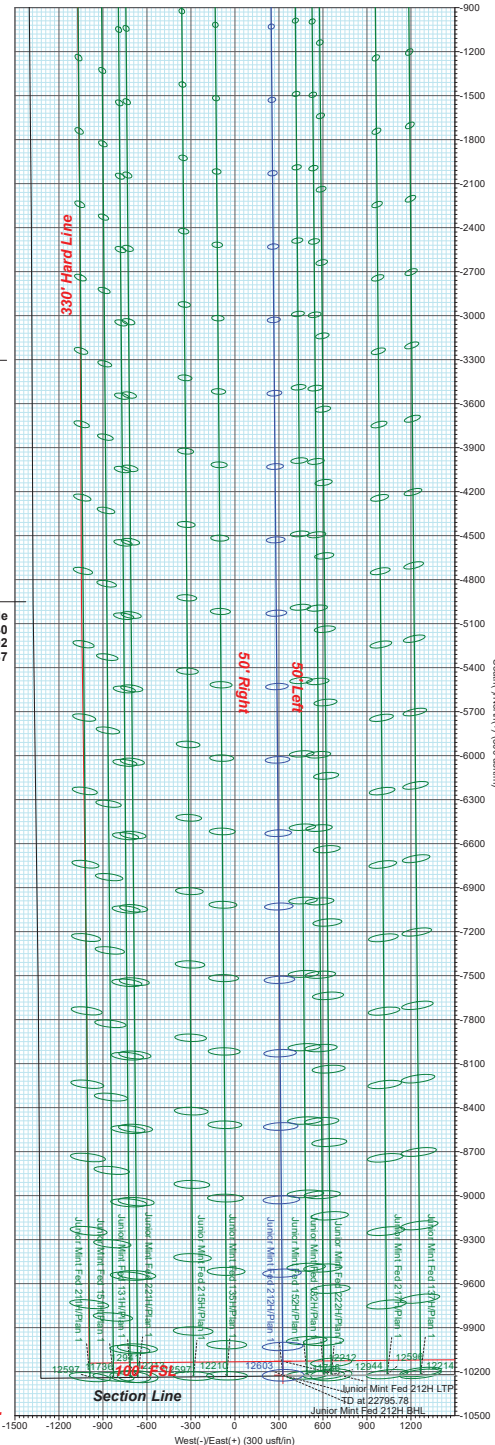
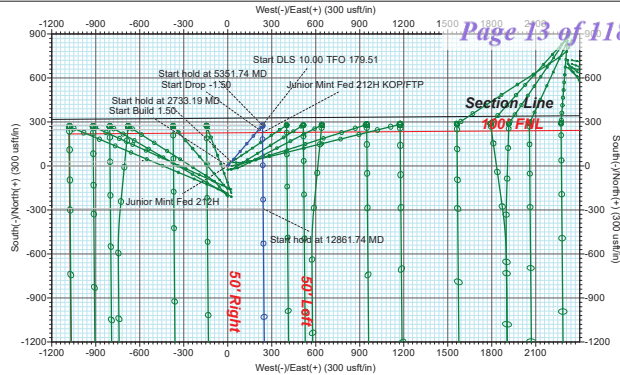
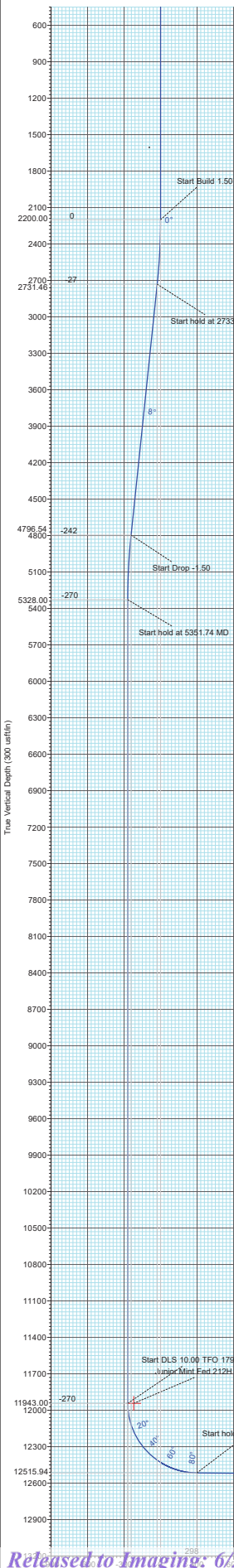
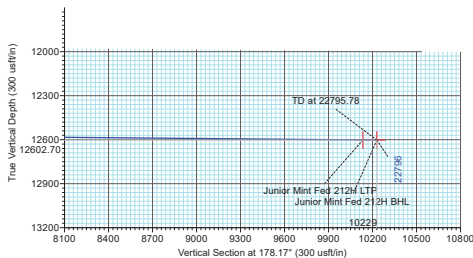
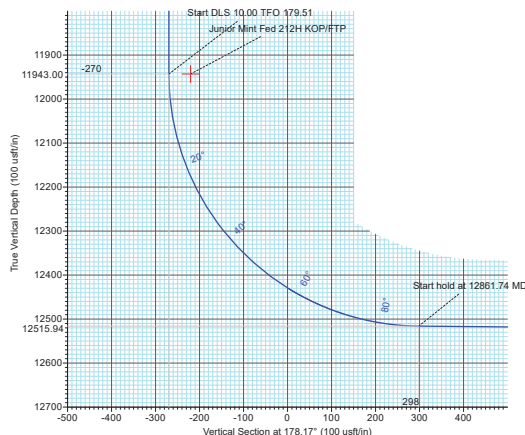
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	414845.00	842810.00	32.1367405	-103.3593762	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	
2733.19	8.00	40.48	2731.46	28.26	24.12	1.50	40.48	-27.48	
4818.56	8.00	40.48	4796.54	248.37	212.46	0.00	0.00	-242.06	
5351.74	0.00	0.00	5328.00	277.23	236.58	1.50	180.00	-269.53	
11966.74	0.00	0.00	11943.00	277.23	236.58	0.00	0.00	-269.53	
12861.74	89.50	179.51	12515.94	-290.70	241.47	10.00	179.51	298.27	
22795.78	89.50	179.51	12602.70	-10224.00	327.00	0.00	0.00	10229.23	

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Junior Mint Fed 212H KOP/FTP	11943.00	228.00	237.00	415073.00	843047.00	32.1373613	-103.3586040
Junior Mint Fed 212H LTP	12602.20	-10129.00	326.00	404716.00	843136.00	32.1088923	-103.3586192
Junior Mint Fed 212H BHL	12602.70	-10224.00	327.00	404621.00	843137.00	32.1086312	-103.3586187



Do Not Cross SL

Civitas Resources

Lea County, NM (NAD 83)
Junior Mint Fed Pad
Junior Mint Fed 212H

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 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 212H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	.Total Directional Production DB

Project	Lea County, NM (NAD 83)	System Datum:	Mean Sea Level
Map System:	US State Plane 1983		
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

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

Well	Junior Mint Fed 212H					
Well Position	+N/-S	0.00 usft	Northing:	414,845.00 usft	Latitude:	32.1367406
	+E/-W	0.00 usft	Easting:	842,810.00 usft	Longitude:	-103.3593762
Position Uncertainty		0.50 usft	Wellhead Elevation:	usft	Ground Level:	3,220.00 usft
Grid Convergence:		0.52 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2025	7/15/2025	6.07	59.57	47,069.40000000

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	178.17	

Survey Tool Program	Date	3/24/2025			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	22,795.76	Plan 1 (OH)	MWD+HRGM+SAG+FDIF OWSG MWD + HRGM + SAG + FDIR Correction		

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	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,733.19	8.00	40.48	2,731.46	28.26	24.12	1.50	1.50	0.00	40.48	
4,818.56	8.00	40.48	4,796.54	248.97	212.46	0.00	0.00	0.00	0.00	
5,351.74	0.00	0.00	5,328.00	277.23	236.58	1.50	-1.50	0.00	180.00	
11,966.74	0.00	0.00	11,943.00	277.23	236.58	0.00	0.00	0.00	0.00	
12,861.74	89.50	179.51	12,515.94	-290.70	241.47	10.00	10.00	20.06	179.51	
22,795.78	89.50	179.51	12,602.70	-10,224.00	327.00	0.00	0.00	0.00	0.00	

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 212H	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 (°)	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	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.00	0.00	0.00
2,300.00	1.50	40.48	2,299.99	1.00	0.85	414,846.00	842,810.85	32.1367433	-103.3593734	-0.97	1.50	1.50	0.00
2,400.00	3.00	40.48	2,399.91	3.98	3.40	414,848.98	842,813.40	32.1367514	-103.3593651	-3.87	1.50	1.50	0.00
2,500.00	4.50	40.48	2,499.69	8.96	7.64	414,853.96	842,817.64	32.1367650	-103.3593513	-8.71	1.50	1.50	0.00
2,600.00	6.00	40.48	2,599.27	15.92	13.58	414,860.92	842,823.58	32.1367840	-103.3593319	-15.48	1.50	1.50	0.00
2,700.00	7.50	40.48	2,698.57	24.86	21.21	414,869.86	842,831.21	32.1368084	-103.3593070	-24.17	1.50	1.50	0.00
2,733.19	8.00	40.48	2,731.46	28.26	24.12	414,873.26	842,834.12	32.1368176	-103.3592975	-27.48	1.50	1.50	0.00
2,800.00	8.00	40.48	2,797.62	35.33	30.15	414,880.33	842,840.15	32.1368369	-103.3592778	-34.35	0.00	0.00	0.00
2,900.00	8.00	40.48	2,896.65	45.92	39.18	414,890.92	842,849.18	32.1368658	-103.3592483	-44.64	0.00	0.00	0.00
3,000.00	8.00	40.48	2,995.68	56.50	48.22	414,901.50	842,858.22	32.1368947	-103.3592188	-54.93	0.00	0.00	0.00
3,100.00	8.00	40.48	3,094.70	67.08	57.25	414,912.08	842,867.25	32.1369235	-103.3591893	-65.22	0.00	0.00	0.00
3,200.00	8.00	40.48	3,193.73	77.67	66.28	414,922.67	842,876.28	32.1369524	-103.3591598	-75.51	0.00	0.00	0.00
3,300.00	8.00	40.48	3,292.76	88.25	75.31	414,933.25	842,885.31	32.1369813	-103.3591304	-85.80	0.00	0.00	0.00
3,400.00	8.00	40.48	3,391.78	98.83	84.34	414,943.83	842,894.34	32.1370101	-103.3591009	-96.09	0.00	0.00	0.00
3,500.00	8.00	40.48	3,490.81	109.42	93.37	414,954.42	842,903.37	32.1370390	-103.3590714	-106.38	0.00	0.00	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 212H	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 (°)	Longitude (°)	Vertical Dogleg Section (usft)	Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,600.00	8.00	40.48	3,589.84	120.00	102.41	414,965.00	842,912.41	32.1370678	-103.3590419	-116.67	0.00	0.00	0.00
3,700.00	8.00	40.48	3,688.87	130.59	111.44	414,975.59	842,921.44	32.1370967	-103.3590124	-126.96	0.00	0.00	0.00
3,800.00	8.00	40.48	3,787.89	141.17	120.47	414,986.17	842,930.47	32.1371256	-103.3589829	-137.25	0.00	0.00	0.00
3,900.00	8.00	40.48	3,886.92	151.75	129.50	414,996.75	842,939.50	32.1371544	-103.3589535	-147.54	0.00	0.00	0.00
4,000.00	8.00	40.48	3,985.95	162.34	138.53	415,007.34	842,948.53	32.1371833	-103.3589240	-157.83	0.00	0.00	0.00
4,100.00	8.00	40.48	4,084.98	172.92	147.56	415,017.92	842,957.56	32.1372122	-103.3588945	-168.12	0.00	0.00	0.00
4,200.00	8.00	40.48	4,184.00	183.50	156.60	415,028.50	842,966.60	32.1372410	-103.3588650	-178.41	0.00	0.00	0.00
4,300.00	8.00	40.48	4,283.03	194.09	165.63	415,039.09	842,975.63	32.1372699	-103.3588355	-188.70	0.00	0.00	0.00
4,400.00	8.00	40.48	4,382.06	204.67	174.66	415,049.67	842,984.66	32.1372988	-103.3588060	-198.99	0.00	0.00	0.00
4,500.00	8.00	40.48	4,481.09	215.25	183.69	415,060.25	842,993.69	32.1373276	-103.3587766	-209.28	0.00	0.00	0.00
4,600.00	8.00	40.48	4,580.11	225.84	192.72	415,070.84	843,002.72	32.1373565	-103.3587471	-219.57	0.00	0.00	0.00
4,700.00	8.00	40.48	4,679.14	236.42	201.76	415,081.42	843,011.76	32.1373854	-103.3587176	-229.86	0.00	0.00	0.00
4,800.00	8.00	40.48	4,778.17	247.00	210.79	415,092.00	843,020.79	32.1374142	-103.3586881	-240.15	0.00	0.00	0.00
4,818.56	8.00	40.48	4,796.54	248.97	212.46	415,093.97	843,022.46	32.1374196	-103.3586826	-242.06	0.00	0.00	0.00
4,900.00	6.78	40.48	4,877.31	256.93	219.26	415,101.93	843,029.26	32.1374413	-103.3586604	-249.80	1.50	-1.50	0.00
5,000.00	5.28	40.48	4,976.75	264.92	226.07	415,109.92	843,036.07	32.1374631	-103.3586382	-257.56	1.50	-1.50	0.00
5,100.00	3.78	40.48	5,076.44	270.92	231.20	415,115.92	843,041.20	32.1374795	-103.3586215	-263.40	1.50	-1.50	0.00
5,200.00	2.28	40.48	5,176.30	274.94	234.62	415,119.94	843,044.62	32.1374904	-103.3586103	-267.30	1.50	-1.50	0.00
5,300.00	0.78	40.48	5,276.26	276.96	236.35	415,121.96	843,046.35	32.1374959	-103.3586046	-269.27	1.50	-1.50	0.00
5,351.74	0.00	0.00	5,328.00	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	1.50	-1.50	0.00
5,400.00	0.00	0.00	5,376.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
5,500.00	0.00	0.00	5,476.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
5,600.00	0.00	0.00	5,576.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
5,700.00	0.00	0.00	5,676.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
5,800.00	0.00	0.00	5,776.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
5,900.00	0.00	0.00	5,876.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
6,000.00	0.00	0.00	5,976.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
6,100.00	0.00	0.00	6,076.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
6,200.00	0.00	0.00	6,176.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
6,300.00	0.00	0.00	6,276.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
6,400.00	0.00	0.00	6,376.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
6,500.00	0.00	0.00	6,476.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
6,600.00	0.00	0.00	6,576.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
6,700.00	0.00	0.00	6,676.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
6,800.00	0.00	0.00	6,776.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
6,900.00	0.00	0.00	6,876.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
7,000.00	0.00	0.00	6,976.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
7,100.00	0.00	0.00	7,076.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 212H	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 (°)	Longitude (°)	Vertical Dogleg Section (usft)	Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,200.00	0.00	0.00	7,176.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
7,300.00	0.00	0.00	7,276.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
7,400.00	0.00	0.00	7,376.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
7,500.00	0.00	0.00	7,476.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
7,600.00	0.00	0.00	7,576.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
7,700.00	0.00	0.00	7,676.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
7,800.00	0.00	0.00	7,776.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
7,900.00	0.00	0.00	7,876.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
8,000.00	0.00	0.00	7,976.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
8,100.00	0.00	0.00	8,076.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
8,200.00	0.00	0.00	8,176.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
8,300.00	0.00	0.00	8,276.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
8,400.00	0.00	0.00	8,376.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
8,500.00	0.00	0.00	8,476.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
8,600.00	0.00	0.00	8,576.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
8,700.00	0.00	0.00	8,676.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
8,800.00	0.00	0.00	8,776.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
8,900.00	0.00	0.00	8,876.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
9,000.00	0.00	0.00	8,976.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
9,100.00	0.00	0.00	9,076.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
9,200.00	0.00	0.00	9,176.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
9,300.00	0.00	0.00	9,276.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
9,400.00	0.00	0.00	9,376.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
9,500.00	0.00	0.00	9,476.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
9,600.00	0.00	0.00	9,576.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
9,700.00	0.00	0.00	9,676.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
9,800.00	0.00	0.00	9,776.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
9,900.00	0.00	0.00	9,876.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
10,000.00	0.00	0.00	9,976.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
10,100.00	0.00	0.00	10,076.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
10,200.00	0.00	0.00	10,176.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
10,300.00	0.00	0.00	10,276.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
10,400.00	0.00	0.00	10,376.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
10,500.00	0.00	0.00	10,476.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
10,600.00	0.00	0.00	10,576.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
10,700.00	0.00	0.00	10,676.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
10,800.00	0.00	0.00	10,776.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 212H	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 (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,900.00	0.00	0.00	10,876.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
11,000.00	0.00	0.00	10,976.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
11,100.00	0.00	0.00	11,076.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
11,200.00	0.00	0.00	11,176.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
11,300.00	0.00	0.00	11,276.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
11,400.00	0.00	0.00	11,376.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
11,500.00	0.00	0.00	11,476.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
11,600.00	0.00	0.00	11,576.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
11,700.00	0.00	0.00	11,676.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
11,800.00	0.00	0.00	11,776.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
11,900.00	0.00	0.00	11,876.26	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
11,966.74	0.00	0.00	11,943.00	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	0.00	0.00	0.00
11,968.17	0.14	179.51	11,944.43	277.23	236.58	415,122.23	843,046.58	32.1374967	-103.3586039	-269.53	10.00	10.00	0.00
Junior Mint Fed 212H KOP/FTP													
12,000.00	3.33	179.51	11,976.24	276.27	236.59	415,121.27	843,046.59	32.1374940	-103.3586039	-268.57	10.00	10.00	0.00
12,050.00	8.33	179.51	12,025.96	271.19	236.63	415,116.19	843,046.63	32.1374801	-103.3586039	-263.50	10.00	10.00	0.00
12,100.00	13.33	179.51	12,075.06	261.80	236.71	415,106.80	843,046.71	32.1374543	-103.3586039	-254.11	10.00	10.00	0.00
12,150.00	18.33	179.51	12,123.15	248.17	236.83	415,093.17	843,046.83	32.1374168	-103.3586039	-240.48	10.00	10.00	0.00
12,200.00	23.33	179.51	12,169.87	230.40	236.98	415,075.40	843,046.98	32.1373679	-103.3586040	-222.72	10.00	10.00	0.00
12,250.00	28.33	179.51	12,214.86	208.63	237.17	415,053.63	843,047.17	32.1373081	-103.3586040	-200.95	10.00	10.00	0.00
12,300.00	33.33	179.51	12,257.78	183.02	237.39	415,028.02	843,047.39	32.1372377	-103.3586040	-175.34	10.00	10.00	0.00
12,350.00	38.33	179.51	12,298.31	153.76	237.64	414,998.76	843,047.64	32.1371573	-103.3586041	-146.09	10.00	10.00	0.00
12,400.00	43.33	179.51	12,336.13	121.08	237.92	414,966.08	843,047.92	32.1370675	-103.3586041	-113.43	10.00	10.00	0.00
12,450.00	48.33	179.51	12,370.96	85.24	238.23	414,930.24	843,048.23	32.1369689	-103.3586042	-77.59	10.00	10.00	0.00
12,500.00	53.33	179.51	12,402.54	46.49	238.57	414,891.49	843,048.57	32.1368624	-103.3586042	-38.85	10.00	10.00	0.00
12,550.00	58.33	179.51	12,430.61	5.14	238.92	414,850.14	843,048.92	32.1367487	-103.3586043	2.50	10.00	10.00	0.00
12,600.00	63.33	179.51	12,454.98	-38.50	239.30	414,806.50	843,049.30	32.1366288	-103.3586043	46.13	10.00	10.00	0.00
12,650.00	68.33	179.51	12,475.45	-84.10	239.69	414,760.90	843,049.69	32.1365034	-103.3586044	91.72	10.00	10.00	0.00
12,700.00	73.33	179.51	12,491.87	-131.31	240.10	414,713.69	843,050.10	32.1363737	-103.3586045	138.91	10.00	10.00	0.00
12,750.00	78.33	179.51	12,504.11	-179.77	240.51	414,665.23	843,050.51	32.1362405	-103.3586045	187.36	10.00	10.00	0.00
12,800.00	83.33	179.51	12,512.08	-229.12	240.94	414,615.88	843,050.94	32.1361048	-103.3586046	236.69	10.00	10.00	0.00
12,850.00	88.33	179.51	12,515.71	-278.97	241.37	414,566.03	843,051.37	32.1359678	-103.3586047	286.53	10.00	10.00	0.00
12,861.74	89.50	179.51	12,515.94	-290.70	241.47	414,554.30	843,051.47	32.1359355	-103.3586047	298.27	10.00	10.00	0.00
12,900.00	89.50	179.51	12,516.27	-328.96	241.80	414,516.04	843,051.80	32.1358304	-103.3586048	336.51	0.00	0.00	0.00
13,000.00	89.50	179.51	12,517.14	-428.95	242.66	414,416.05	843,052.66	32.1355555	-103.3586049	436.48	0.00	0.00	0.00
13,100.00	89.50	179.51	12,518.02	-528.95	243.52	414,316.05	843,053.52	32.1352807	-103.3586050	536.45	0.00	0.00	0.00
13,200.00	89.50	179.51	12,518.89	-628.94	244.38	414,216.06	843,054.38	32.1350058	-103.3586052	636.42	0.00	0.00	0.00
13,300.00	89.50	179.51	12,519.76	-728.93	245.24	414,116.07	843,055.24	32.1347310	-103.3586053	736.39	0.00	0.00	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 212H	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 (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,400.00	89.50	179.51	12,520.64	-828.92	246.10	414,016.08	843,056.10	32.1344561	-103.3586055	836.36	0.00	0.00	0.00
13,500.00	89.50	179.51	12,521.51	-928.92	246.97	413,916.08	843,056.97	32.1341813	-103.3586056	936.33	0.00	0.00	0.00
13,600.00	89.50	179.51	12,522.38	-1,028.91	247.83	413,816.09	843,057.83	32.1339064	-103.3586058	1,036.30	0.00	0.00	0.00
13,700.00	89.50	179.51	12,523.26	-1,128.90	248.69	413,716.10	843,058.69	32.1336315	-103.3586059	1,136.27	0.00	0.00	0.00
13,800.00	89.50	179.51	12,524.13	-1,228.89	249.55	413,616.11	843,059.55	32.1333567	-103.3586060	1,236.24	0.00	0.00	0.00
13,900.00	89.50	179.51	12,525.00	-1,328.89	250.41	413,516.11	843,060.41	32.1330818	-103.3586062	1,336.20	0.00	0.00	0.00
14,000.00	89.50	179.51	12,525.88	-1,428.88	251.27	413,416.12	843,061.27	32.1328070	-103.3586063	1,436.17	0.00	0.00	0.00
14,100.00	89.50	179.51	12,526.75	-1,528.87	252.13	413,316.13	843,062.13	32.1325321	-103.3586065	1,536.14	0.00	0.00	0.00
14,200.00	89.50	179.51	12,527.62	-1,628.86	252.99	413,216.14	843,062.99	32.1322573	-103.3586066	1,636.11	0.00	0.00	0.00
14,300.00	89.50	179.51	12,528.50	-1,728.86	253.85	413,116.14	843,063.85	32.1319824	-103.3586067	1,736.08	0.00	0.00	0.00
14,400.00	89.50	179.51	12,529.37	-1,828.85	254.71	413,016.15	843,064.71	32.1317076	-103.3586069	1,836.05	0.00	0.00	0.00
14,500.00	89.50	179.51	12,530.24	-1,928.84	255.58	412,916.16	843,065.58	32.1314327	-103.3586070	1,936.02	0.00	0.00	0.00
14,600.00	89.50	179.51	12,531.12	-2,028.83	256.44	412,816.17	843,066.44	32.1311578	-103.3586072	2,035.99	0.00	0.00	0.00
14,700.00	89.50	179.51	12,531.99	-2,128.83	257.30	412,716.17	843,067.30	32.1308830	-103.3586073	2,135.96	0.00	0.00	0.00
14,800.00	89.50	179.51	12,532.87	-2,228.82	258.16	412,616.18	843,068.16	32.1306081	-103.3586075	2,235.93	0.00	0.00	0.00
14,900.00	89.50	179.51	12,533.74	-2,328.81	259.02	412,516.19	843,069.02	32.1303333	-103.3586076	2,335.89	0.00	0.00	0.00
15,000.00	89.50	179.51	12,534.61	-2,428.80	259.88	412,416.20	843,069.88	32.1300584	-103.3586077	2,435.86	0.00	0.00	0.00
15,100.00	89.50	179.51	12,535.49	-2,528.80	260.74	412,316.20	843,070.74	32.1297836	-103.3586079	2,535.83	0.00	0.00	0.00
15,200.00	89.50	179.51	12,536.36	-2,628.79	261.60	412,216.21	843,071.60	32.1295087	-103.3586080	2,635.80	0.00	0.00	0.00
15,300.00	89.50	179.51	12,537.23	-2,728.78	262.46	412,116.22	843,072.46	32.1292339	-103.3586082	2,735.77	0.00	0.00	0.00
15,400.00	89.50	179.51	12,538.11	-2,828.77	263.32	412,016.23	843,073.32	32.1289590	-103.3586083	2,835.74	0.00	0.00	0.00
15,500.00	89.50	179.51	12,538.98	-2,928.77	264.18	411,916.23	843,074.18	32.1286841	-103.3586084	2,935.71	0.00	0.00	0.00
15,600.00	89.50	179.51	12,539.85	-3,028.76	265.05	411,816.24	843,075.05	32.1284093	-103.3586086	3,035.68	0.00	0.00	0.00
15,700.00	89.50	179.51	12,540.73	-3,128.75	265.91	411,716.25	843,075.91	32.1281344	-103.3586087	3,135.65	0.00	0.00	0.00
15,800.00	89.50	179.51	12,541.60	-3,228.74	266.77	411,616.26	843,076.77	32.1278596	-103.3586089	3,235.61	0.00	0.00	0.00
15,900.00	89.50	179.51	12,542.47	-3,328.74	267.63	411,516.26	843,077.63	32.1275847	-103.3586090	3,335.58	0.00	0.00	0.00
16,000.00	89.50	179.51	12,543.35	-3,428.73	268.49	411,416.27	843,078.49	32.1273099	-103.3586091	3,435.55	0.00	0.00	0.00
16,100.00	89.50	179.51	12,544.22	-3,528.72	269.35	411,316.28	843,079.35	32.1270350	-103.3586093	3,535.52	0.00	0.00	0.00
16,200.00	89.50	179.51	12,545.09	-3,628.71	270.21	411,216.29	843,080.21	32.1267602	-103.3586094	3,635.49	0.00	0.00	0.00
16,300.00	89.50	179.51	12,545.97	-3,728.71	271.07	411,116.30	843,081.07	32.1264853	-103.3586096	3,735.46	0.00	0.00	0.00
16,400.00	89.50	179.51	12,546.84	-3,828.70	271.93	411,016.30	843,081.93	32.1262104	-103.3586097	3,835.43	0.00	0.00	0.00
16,500.00	89.50	179.51	12,547.71	-3,928.69	272.79	410,916.31	843,082.79	32.1259356	-103.3586099	3,935.40	0.00	0.00	0.00
16,600.00	89.50	179.51	12,548.59	-4,028.68	273.66	410,816.32	843,083.66	32.1256607	-103.3586100	4,035.37	0.00	0.00	0.00
16,700.00	89.50	179.51	12,549.46	-4,128.68	274.52	410,716.33	843,084.52	32.1253859	-103.3586101	4,135.34	0.00	0.00	0.00
16,800.00	89.50	179.51	12,550.33	-4,228.67	275.38	410,616.33	843,085.38	32.1251110	-103.3586103	4,235.30	0.00	0.00	0.00
16,900.00	89.50	179.51	12,551.21	-4,328.66	276.24	410,516.34	843,086.24	32.1248362	-103.3586104	4,335.27	0.00	0.00	0.00
17,000.00	89.50	179.51	12,552.08	-4,428.65	277.10	410,416.35	843,087.10	32.1245613	-103.3586106	4,435.24	0.00	0.00	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 212H	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 (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,100.00	89.50	179.51	12,552.95	-4,528.64	277.96	410,316.36	843,087.96	32.1242865	-103.3586107	4,535.21	0.00	0.00	0.00
17,200.00	89.50	179.51	12,553.83	-4,628.64	278.82	410,216.36	843,088.82	32.1240116	-103.3586108	4,635.18	0.00	0.00	0.00
17,300.00	89.50	179.51	12,554.70	-4,728.63	279.68	410,116.37	843,089.68	32.1237367	-103.3586110	4,735.15	0.00	0.00	0.00
17,400.00	89.50	179.51	12,555.57	-4,828.62	280.54	410,016.38	843,090.54	32.1234619	-103.3586111	4,835.12	0.00	0.00	0.00
17,500.00	89.50	179.51	12,556.45	-4,928.61	281.40	409,916.39	843,091.40	32.1231870	-103.3586113	4,935.09	0.00	0.00	0.00
17,600.00	89.50	179.51	12,557.32	-5,028.61	282.27	409,816.39	843,092.27	32.1229122	-103.3586114	5,035.06	0.00	0.00	0.00
17,700.00	89.50	179.51	12,558.19	-5,128.60	283.13	409,716.40	843,093.13	32.1226373	-103.3586115	5,135.03	0.00	0.00	0.00
17,800.00	89.50	179.51	12,559.07	-5,228.59	283.99	409,616.41	843,093.99	32.1223625	-103.3586117	5,234.99	0.00	0.00	0.00
17,900.00	89.50	179.51	12,559.94	-5,328.58	284.85	409,516.42	843,094.85	32.1220876	-103.3586118	5,334.96	0.00	0.00	0.00
18,000.00	89.50	179.51	12,560.81	-5,428.58	285.71	409,416.42	843,095.71	32.1218127	-103.3586120	5,434.93	0.00	0.00	0.00
18,100.00	89.50	179.51	12,561.69	-5,528.57	286.57	409,316.43	843,096.57	32.1215379	-103.3586121	5,534.90	0.00	0.00	0.00
18,200.00	89.50	179.51	12,562.56	-5,628.56	287.43	409,216.44	843,097.43	32.1212630	-103.3586123	5,634.87	0.00	0.00	0.00
18,300.00	89.50	179.51	12,563.43	-5,728.55	288.29	409,116.45	843,098.29	32.1209882	-103.3586124	5,734.84	0.00	0.00	0.00
18,400.00	89.50	179.51	12,564.31	-5,828.55	289.15	409,016.45	843,099.15	32.1207133	-103.3586125	5,834.81	0.00	0.00	0.00
18,500.00	89.50	179.51	12,565.18	-5,928.54	290.01	408,916.46	843,100.01	32.1204385	-103.3586127	5,934.78	0.00	0.00	0.00
18,600.00	89.50	179.51	12,566.05	-6,028.53	290.88	408,816.47	843,100.88	32.1201636	-103.3586128	6,034.75	0.00	0.00	0.00
18,700.00	89.50	179.51	12,566.93	-6,128.52	291.74	408,716.48	843,101.74	32.1198888	-103.3586130	6,134.72	0.00	0.00	0.00
18,800.00	89.50	179.51	12,567.80	-6,228.52	292.60	408,616.48	843,102.60	32.1196139	-103.3586131	6,234.68	0.00	0.00	0.00
18,900.00	89.50	179.51	12,568.67	-6,328.51	293.46	408,516.49	843,103.46	32.1193390	-103.3586132	6,334.65	0.00	0.00	0.00
19,000.00	89.50	179.51	12,569.55	-6,428.50	294.32	408,416.50	843,104.32	32.1190642	-103.3586134	6,434.62	0.00	0.00	0.00
19,100.00	89.50	179.51	12,570.42	-6,528.49	295.18	408,316.51	843,105.18	32.1187893	-103.3586135	6,534.59	0.00	0.00	0.00
19,200.00	89.50	179.51	12,571.29	-6,628.49	296.04	408,216.51	843,106.04	32.1185145	-103.3586137	6,634.56	0.00	0.00	0.00
19,300.00	89.50	179.51	12,572.17	-6,728.48	296.90	408,116.52	843,106.90	32.1182396	-103.3586138	6,734.53	0.00	0.00	0.00
19,400.00	89.50	179.51	12,573.04	-6,828.47	297.76	408,016.53	843,107.76	32.1179648	-103.3586139	6,834.50	0.00	0.00	0.00
19,500.00	89.50	179.51	12,573.91	-6,928.46	298.62	407,916.54	843,108.62	32.1176899	-103.3586141	6,934.47	0.00	0.00	0.00
19,600.00	89.50	179.51	12,574.79	-7,028.46	299.49	407,816.54	843,109.49	32.1174151	-103.3586142	7,034.44	0.00	0.00	0.00
19,700.00	89.50	179.51	12,575.66	-7,128.45	300.35	407,716.55	843,110.35	32.1171402	-103.3586144	7,134.41	0.00	0.00	0.00
19,800.00	89.50	179.51	12,576.54	-7,228.44	301.21	407,616.56	843,111.21	32.1168653	-103.3586145	7,234.37	0.00	0.00	0.00
19,900.00	89.50	179.51	12,577.41	-7,328.43	302.07	407,516.57	843,112.07	32.1165905	-103.3586146	7,334.34	0.00	0.00	0.00
20,000.00	89.50	179.51	12,578.28	-7,428.43	302.93	407,416.57	843,112.93	32.1163156	-103.3586148	7,434.31	0.00	0.00	0.00
20,100.00	89.50	179.51	12,579.16	-7,528.42	303.79	407,316.58	843,113.79	32.1160408	-103.3586149	7,534.28	0.00	0.00	0.00
20,200.00	89.50	179.51	12,580.03	-7,628.41	304.65	407,216.59	843,114.65	32.1157659	-103.3586151	7,634.25	0.00	0.00	0.00
20,300.00	89.50	179.51	12,580.90	-7,728.40	305.51	407,116.60	843,115.51	32.1154911	-103.3586152	7,734.22	0.00	0.00	0.00
20,400.00	89.50	179.51	12,581.78	-7,828.40	306.37	407,016.60	843,116.37	32.1152162	-103.3586153	7,834.19	0.00	0.00	0.00
20,500.00	89.50	179.51	12,582.65	-7,928.39	307.23	406,916.61	843,117.23	32.1149413	-103.3586155	7,934.16	0.00	0.00	0.00
20,600.00	89.50	179.51	12,583.52	-8,028.38	308.09	406,816.62	843,118.09	32.1146665	-103.3586156	8,034.13	0.00	0.00	0.00
20,700.00	89.50	179.51	12,584.40	-8,128.37	308.96	406,716.63	843,118.96	32.1143916	-103.3586158	8,134.09	0.00	0.00	0.00
20,800.00	89.50	179.51	12,585.27	-8,228.37	309.82	406,616.63	843,119.82	32.1141168	-103.3586159	8,234.06	0.00	0.00	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Well:	Junior Mint Fed 212H	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 (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,900.00	89.50	179.51	12,586.14	-8,328.36	310.68	406,516.64	843,120.68	32.1138419	-103.3586160	8,334.03	0.00	0.00	0.00
21,000.00	89.50	179.51	12,587.02	-8,428.35	311.54	406,416.65	843,121.54	32.1135671	-103.3586162	8,434.00	0.00	0.00	0.00
21,100.00	89.50	179.51	12,587.89	-8,528.34	312.40	406,316.66	843,122.40	32.1132922	-103.3586163	8,533.97	0.00	0.00	0.00
21,200.00	89.50	179.51	12,588.76	-8,628.34	313.26	406,216.66	843,123.26	32.1130174	-103.3586165	8,633.94	0.00	0.00	0.00
21,300.00	89.50	179.51	12,589.64	-8,728.33	314.12	406,116.67	843,124.12	32.1127425	-103.3586166	8,733.91	0.00	0.00	0.00
21,400.00	89.50	179.51	12,590.51	-8,828.32	314.98	406,016.68	843,124.98	32.1124676	-103.3586167	8,833.88	0.00	0.00	0.00
21,500.00	89.50	179.51	12,591.38	-8,928.31	315.84	405,916.69	843,125.84	32.1121928	-103.3586169	8,933.85	0.00	0.00	0.00
21,600.00	89.50	179.51	12,592.26	-9,028.31	316.70	405,816.69	843,126.70	32.1119179	-103.3586170	9,033.82	0.00	0.00	0.00
21,700.00	89.50	179.51	12,593.13	-9,128.30	317.57	405,716.70	843,127.57	32.1116431	-103.3586172	9,133.78	0.00	0.00	0.00
21,800.00	89.50	179.51	12,594.00	-9,228.29	318.43	405,616.71	843,128.43	32.1113682	-103.3586173	9,233.75	0.00	0.00	0.00
21,900.00	89.50	179.51	12,594.88	-9,328.28	319.29	405,516.72	843,129.29	32.1110934	-103.3586174	9,333.72	0.00	0.00	0.00
22,000.00	89.50	179.51	12,595.75	-9,428.28	320.15	405,416.72	843,130.15	32.1108185	-103.3586176	9,433.69	0.00	0.00	0.00
22,100.00	89.50	179.51	12,596.62	-9,528.27	321.01	405,316.73	843,131.01	32.1105436	-103.3586177	9,533.66	0.00	0.00	0.00
22,200.00	89.50	179.51	12,597.50	-9,628.26	321.87	405,216.74	843,131.87	32.1102688	-103.3586179	9,633.63	0.00	0.00	0.00
22,300.00	89.50	179.51	12,598.37	-9,728.25	322.73	405,116.75	843,132.73	32.1099939	-103.3586180	9,733.60	0.00	0.00	0.00
22,400.00	89.50	179.51	12,599.24	-9,828.25	323.59	405,016.75	843,133.59	32.1097191	-103.3586181	9,833.57	0.00	0.00	0.00
22,500.00	89.50	179.51	12,600.12	-9,928.24	324.45	404,916.76	843,134.45	32.1094442	-103.3586183	9,933.54	0.00	0.00	0.00
22,600.00	89.50	179.51	12,600.99	-10,028.23	325.31	404,816.77	843,135.31	32.1091694	-103.3586184	10,033.51	0.00	0.00	0.00
22,700.00	89.50	179.51	12,601.86	-10,128.22	326.18	404,716.78	843,136.18	32.1088945	-103.3586186	10,133.47	0.00	0.00	0.00
Junior Mint Fed 212H LTP													
22,795.78	89.50	179.51	12,602.70	-10,224.00	327.00	404,621.00	843,137.00	32.1086312	-103.3586187	10,229.23	0.00	0.00	0.00
Junior Mint Fed 212H BHL													

Design Targets

Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Junior Mint Fed 212H	- plan misses target center by 49.23usft at 11966.80usft MD (11943.06 TVD, 277.23 N, 236.58 E)	0.00	0.00	11,943.00	228.00	237.00	415,073.00	843,047.00	32.1373613	-103.3586040
- Point										
Junior Mint Fed 212H	- plan misses target center by 0.86usft at 22700.00usft MD (12601.86 TVD, -10128.22 N, 326.18 E)	0.00	0.00	12,602.20	-10,129.00	326.00	404,716.00	843,136.00	32.1088924	-103.3586192
- Point										
Junior Mint Fed 212H	- plan hits target center	0.00	0.00	12,602.70	-10,224.00	327.00	404,621.00	843,137.00	32.1086312	-103.3586187
- Point										

Checked By: _____ Approved By: _____ Date: _____

Civitas Resources

Lea County, NM (NAD 83)
Junior Mint Fed Pad
Junior Mint Fed 212H

OH
Plan 1



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 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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
Depth Range:	Unlimited
Results Limited by:	Maximum centre distance of 2,518.44usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Pedal Curve
Casing Method:	Not applied

Well	Junior Mint Fed 212H					
Well Position	+N/-S	0.00 usft	Northing:	414,845.00 usft	Latitude:	32.1367406
	+E/-W	0.00 usft	Easting:	842,810.00 usft	Longitude:	-103.3593762
Position Uncertainty		0.50 usft	Wellhead Elevation:	usft	Ground Level:	3,220.00 usft
Grid Convergence:		0.52 °				

Survey Tool Program		Date	3/24/2025	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	22,795.76	Plan 1 (OH)	MWD+HRGM+SAG+FDIF	OWSG MWD + HRGM + SAG + FDIR Correction

Offset Listing								
Site Name	Ground LevelKB Height		Map Coordinates		Geographical Coordinates		Surface Uncertainty	
Offset Well			Northing	Easting	Latitude	Longitude	Site	Well
Civitas Resources - Junior Mint Fed Pad								
Junior Mint Fed 131H -	3,221.00	3,247.00	414,635.00	842,835.00	32.1361627	-103.3593016	0.00	0.50
Junior Mint Fed 132H -	3,220.00	3,246.00	414,820.00	842,835.00	32.1366712	-103.3592962	0.00	0.50
Junior Mint Fed 133H -	3,223.00	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 158H -	3,220.00	3,246.00	415,516.00	845,129.00	32.1385270	-103.3518655	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 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 217H -	3,221.00	3,247.00	414,870.00	842,810.00	32.1368093	-103.3593755	0.00	0.50
Junior Mint Fed 218H -	3,220.00	3,246.00	415,516.00	845,154.00	32.1385263	-103.3517847	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

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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)	Between Ellipses (usft)	Separation Factor	Warning
Junior Mint Fed Pad						
Junior Mint Fed 131H - OH - Plan 1	2,370.68	2,383.72	178.12	165.75	14.39	CC, ES
Junior Mint Fed 131H - OH - Plan 1	22,796.26	22,485.80	1,111.77	846.31	4.19	SF
Junior Mint Fed 132H - OH - Plan 1	800.00	800.00	35.36	28.55	5.20	CC
Junior Mint Fed 132H - OH - Plan 1	900.00	899.77	35.68	28.43	4.92	ES
Junior Mint Fed 132H - OH - Plan 1	22,796.26	22,428.60	479.69	290.54	2.54	SF
Junior Mint Fed 133H - OH - Plan 1	11,780.94	11,823.39	1,678.83	1,645.75	50.76	CC
Junior Mint Fed 133H - OH - Plan 1	22,796.26	22,381.08	1,723.78	1,439.78	6.07	ES, SF
Junior Mint Fed 134H - OH - Plan 1	4,925.72	4,754.67	2,341.76	2,321.40	115.04	CC
Junior Mint Fed 134H - OH - Plan 1	22,796.26	22,336.11	2,420.60	2,134.22	8.45	ES, SF
Junior Mint Fed 135H - OH - Plan 1	2,427.82	2,440.17	52.21	39.46	4.10	CC, ES
Junior Mint Fed 135H - OH - Plan 1	22,796.26	22,411.61	546.81	336.47	2.60	SF
Junior Mint Fed 137H - OH - Plan 1	300.00	300.00	25.00	21.04	6.31	CC, ES
Junior Mint Fed 137H - OH - Plan 1	22,796.26	22,512.90	1,016.51	750.22	3.82	SF
Junior Mint Fed 138H - OH - Plan 1	300.00	300.00	2,421.19	2,417.23	611.05	CC
Junior Mint Fed 138H - OH - Plan 1	400.00	374.18	2,421.73	2,417.14	528.04	ES
Junior Mint Fed 138H - OH - Plan 1	2,000.00	1,700.00	2,511.36	2,500.48	230.65	SF
Junior Mint Fed 151H - OH - Plan 1	1,523.03	1,528.71	135.27	125.61	14.00	CC, ES
Junior Mint Fed 151H - OH - Plan 1	22,796.26	22,008.51	1,444.07	1,208.90	6.14	SF
Junior Mint Fed 152H - OH - Plan 1	300.00	300.00	35.36	31.39	8.92	CC, ES
Junior Mint Fed 152H - OH - Plan 1	11,100.01	11,106.57	165.00	132.95	5.15	SF
Junior Mint Fed 156H - OH - Plan 1	5,399.57	5,435.20	1,819.80	1,796.80	79.13	CC
Junior Mint Fed 156H - OH - Plan 1	11,200.00	11,231.53	1,820.15	1,788.90	58.25	ES
Junior Mint Fed 156H - OH - Plan 1	22,796.26	21,915.93	2,057.31	1,792.43	7.77	SF
Junior Mint Fed 158H - OH - Plan 1	300.00	300.00	2,414.13	2,410.16	609.27	CC
Junior Mint Fed 158H - OH - Plan 1	400.00	376.61	2,414.61	2,410.02	526.04	ES
Junior Mint Fed 158H - OH - Plan 1	2,000.00	1,625.11	2,515.92	2,505.19	234.40	SF
Junior Mint Fed 211H - OH - Plan 1	1,282.82	1,286.74	170.57	161.89	19.65	CC
Junior Mint Fed 211H - OH - Plan 1	1,300.00	1,303.84	170.58	161.85	19.53	ES
Junior Mint Fed 211H - OH - Plan 1	22,796.26	22,896.13	1,316.08	1,035.72	4.69	SF
Junior Mint Fed 213H - OH - Plan 1	11,900.00	11,991.73	1,326.01	1,292.01	39.00	CC
Junior Mint Fed 213H - OH - Plan 1	22,796.26	22,823.46	1,333.54	1,041.45	4.57	ES, SF
Junior Mint Fed 214H - OH - Plan 1	300.00	300.00	2,445.15	2,441.19	617.10	CC, ES
Junior Mint Fed 214H - OH - Plan 1	2,000.00	1,800.00	2,517.77	2,506.63	225.98	SF
Junior Mint Fed 215H - OH - Plan 1	1,630.63	1,637.09	104.32	94.26	10.37	CC, ES
Junior Mint Fed 215H - OH - Plan 1	22,796.26	22,806.53	609.06	328.83	2.17	SF
Junior Mint Fed 216H - OH - Plan 1	11,808.14	11,818.48	2,036.02	2,004.11	63.80	CC
Junior Mint Fed 216H - OH - Plan 1	22,796.26	22,714.75	2,044.72	1,751.27	6.97	ES, SF
Junior Mint Fed 217H - OH - Plan 1	1,060.64	1,061.64	24.98	17.15	3.19	CC
Junior Mint Fed 217H - OH - Plan 1	1,100.00	1,100.99	25.01	17.02	3.13	ES
Junior Mint Fed 217H - OH - Plan 1	22,796.26	22,875.30	711.07	428.31	2.51	SF
Junior Mint Fed 218H - OH - Plan 1	300.00	300.00	2,438.15	2,434.19	615.33	CC, ES
Junior Mint Fed 218H - OH - Plan 1	1,300.00	1,007.98	2,507.30	2,498.91	298.53	SF
Junior Mint Fed 221H - OH - Plan 1	2,270.64	2,279.45	141.01	128.85	11.60	CC, ES
Junior Mint Fed 221H - OH - Plan 1	22,796.26	23,189.50	1,046.31	779.56	3.92	SF
Junior Mint Fed 222H - OH - Plan 1	1,652.53	1,652.57	24.81	14.76	2.47	CC
Junior Mint Fed 222H - OH - Plan 1	1,700.00	1,700.00	24.91	14.71	2.44	ES
Junior Mint Fed 222H - OH - Plan 1	22,796.26	23,181.45	474.89	264.89	2.26	SF
Junior Mint Fed 223H - OH - Plan 1	12,021.31	12,074.25	1,555.01	1,521.24	46.06	CC
Junior Mint Fed 223H - OH - Plan 1	22,796.26	23,129.54	1,677.95	1,386.98	5.77	ES, SF
Junior Mint Fed 224H - OH - Plan 1	300.00	300.00	2,452.38	2,448.42	618.93	CC, ES
Junior Mint Fed 224H - OH - Plan 1	1,400.00	1,205.96	2,517.61	2,508.64	280.61	SF

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	
Reference										Distance		Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	0.00	0.50	0.50	173.21	-210.00	25.00	211.48	209.52	1.97	107.480	
100.00	100.00	101.00	100.00	0.98	0.99	173.21	-210.00	25.00	211.48	208.36	3.13	67.644	
200.00	200.00	201.00	200.00	1.56	1.57	173.21	-210.00	25.00	211.48	207.52	3.97	53.327	
300.00	300.00	301.00	300.00	1.98	1.98	173.21	-210.00	25.00	211.48	206.82	4.66	45.364	
400.00	400.00	401.00	400.00	2.33	2.33	173.21	-210.00	25.00	211.48	206.21	5.27	40.116	
500.00	500.00	501.00	500.00	2.63	2.64	173.21	-210.00	25.00	211.48	205.66	5.82	36.321	
600.00	600.00	601.00	600.00	2.91	2.91	173.21	-210.00	25.00	211.48	205.15	6.33	33.410	
700.00	700.00	701.00	700.00	3.16	3.17	173.21	-210.00	25.00	211.48	204.68	6.80	31.085	
800.00	800.00	801.00	800.00	3.40	3.40	173.21	-210.00	25.00	211.48	204.23	7.25	29.171	
900.00	900.00	901.00	900.00	3.62	3.63	173.21	-210.00	25.00	211.48	203.81	7.67	27.560	
1,000.00	1,000.00	1,001.00	1,000.00	3.84	3.84	173.21	-210.00	25.00	211.48	203.40	8.08	26.179	
1,100.00	1,100.00	1,101.00	1,100.00	4.04	4.04	173.21	-210.00	25.00	211.48	203.02	8.47	24.977	
1,200.00	1,200.00	1,201.00	1,200.00	4.23	4.23	173.21	-210.00	25.00	211.48	202.64	8.84	23.919	
1,300.00	1,300.00	1,301.00	1,300.00	4.42	4.42	173.21	-210.00	25.00	211.48	202.28	9.20	22.977	
1,400.00	1,400.00	1,401.02	1,400.02	4.60	4.60	173.21	-210.00	25.00	211.48	201.94	9.55	22.079	
1,500.00	1,500.00	1,503.28	1,502.27	4.78	4.78	173.41	-209.53	24.19	210.94	199.45	9.89	21.167	
1,600.00	1,600.00	1,605.46	1,604.42	4.95	4.95	174.02	-208.15	21.81	209.34	196.52	10.22	20.231	
1,700.00	1,700.00	1,707.52	1,706.37	5.11	5.11	175.04	-205.87	17.86	206.74	192.67	10.54	19.277	
1,800.00	1,800.00	1,809.38	1,808.03	5.28	5.28	176.51	-202.68	12.35	203.21	188.02	10.86	18.314	
1,900.00	1,900.00	1,910.98	1,909.31	5.44	5.45	178.47	-198.59	5.29	198.88	182.74	11.17	17.355	
2,000.00	2,000.00	2,012.27	2,010.10	5.59	5.61	-179.03	-193.63	-3.28	193.92	177.06	11.49	16.415	
2,100.00	2,100.00	2,113.16	2,110.32	5.74	5.78	-175.93	-187.79	-13.36	188.55	171.28	11.80	15.517	
2,200.00	2,200.00	2,213.62	2,209.89	5.89	5.95	-172.17	-181.11	-24.91	183.08	166.91	12.14	14.753	
2,300.00	2,299.99	2,313.53	2,308.66	6.07	6.12	152.06	-173.59	-37.89	179.04	165.75	12.38	14.391	CC, ES
2,370.68	2,370.62	2,383.72	2,377.89	6.19	6.25	155.99	-167.80	-47.91	178.12	165.81	12.48	14.287	
2,400.00	2,399.91	2,412.72	2,406.45	6.24	6.30	157.74	-165.28	-52.26	178.29	168.83	12.83	14.156	
2,500.00	2,499.69	2,511.05	2,503.10	6.42	6.47	164.09	-156.20	-67.94	181.66	176.65	13.19	14.390	
2,600.00	2,599.27	2,608.38	2,598.44	6.59	6.65	170.71	-146.40	-84.87	189.84	189.70	13.55	15.001	
2,700.00	2,698.57	2,704.57	2,692.33	6.76	6.83	177.17	-135.91	-102.98	203.25	207.50	13.78	16.052	
2,800.00	2,797.62	2,800.31	2,785.53	6.85	6.98	-176.92	-124.93	-121.95	221.28	227.38	14.12	17.108	
2,900.00	2,896.65	2,896.12	2,878.79	7.00	7.19	-171.90	-113.93	-140.96	241.50	248.83	14.45	18.220	
3,000.00	2,995.68	2,991.94	2,972.05	7.15	7.41	-167.65	-102.92	-159.97	263.28	271.48	14.79	19.361	
3,100.00	3,094.70	3,087.75	3,065.31	7.30	7.63	-164.05	-91.91	-178.98	286.27	295.07	15.13	20.508	
3,200.00	3,193.73	3,183.56	3,158.57	7.46	7.86	-160.97	-80.91	-197.99	310.20	319.40	15.47	21.648	
3,300.00	3,292.76	3,279.38	3,251.83	7.61	8.10	-158.34	-69.90	-217.01	334.87	344.31	15.82	22.769	
3,400.00	3,391.78	3,375.19	3,345.09	7.77	8.33	-156.06	-58.90	-236.02	360.13	369.69	16.17	23.866	
3,500.00	3,490.81	3,471.00	3,438.35	7.93	8.58	-154.08	-47.89	-255.03	385.85	395.45	16.52	24.934	
3,600.00	3,589.84	3,566.82	3,531.61	8.09	8.82	-152.34	-36.88	-274.04	411.97	421.51	16.88	25.971	
3,700.00	3,688.87	3,662.63	3,624.87	8.25	9.07	-150.81	-25.88	-293.05	438.39	447.84	17.24	26.975	
3,800.00	3,787.89	3,758.44	3,718.13	8.42	9.32	-149.45	-14.87	-312.07	465.08	474.39	17.61	27.944	
3,900.00	3,886.92	3,854.25	3,811.39	8.58	9.58	-148.24	-3.87	-331.08	491.99	501.11	17.97	28.881	
4,000.00	3,985.95	3,950.07	3,904.65	8.75	9.84	-147.16	7.14	-350.09	519.08	527.99	18.34	29.784	
4,100.00	4,084.98	4,045.88	3,997.91	8.92	10.10	-146.18	18.15	-369.10	546.33	555.00	18.72	30.654	
4,200.00	4,184.00	4,141.69	4,091.17	9.09	10.36	-145.29	29.15	-388.11	573.72	582.13	19.09	31.493	
4,300.00	4,283.03	4,237.51	4,184.43	9.26	10.62	-144.48	40.16	-407.13	601.22	609.35	19.47	32.300	
4,400.00	4,382.06	4,333.32	4,277.70	9.43	10.89	-143.75	51.16	-426.14	628.82	636.66	19.85	33.078	
4,500.00	4,481.09	4,429.13	4,370.96	9.60	11.16	-143.07	62.17	-445.15	656.51	664.05	20.23	33.827	
4,600.00	4,580.11	4,524.94	4,464.22	9.77	11.43	-142.45	73.18	-464.16	684.28	691.50	20.61	34.549	
4,700.00	4,679.14	4,620.76	4,557.48	9.95	11.70	-141.88	84.18	-483.17	712.11	719.02	21.00	35.244	
4,800.00	4,778.17	4,716.57	4,650.74	10.12	11.97	-141.35	95.19	-502.19	740.01	745.96	21.36	35.924	
4,900.00	4,877.31	4,812.53	4,744.14	10.28	12.24	-141.03	106.21	-521.23	767.32				
5,000.00	4,976.75	4,908.89	4,837.93	10.47	12.52	-140.67	117.28	-540.35	792.76	771.02	21.74	36.458	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:					Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre			Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		
5,100.00	5,076.44	5,005.59	4,932.06	10.65	12.80	-140.20	128.39	-559.54	816.35	794.23	22.12	36.907	
5,200.00	5,176.30	5,102.57	5,026.46	10.82	13.08	-139.64	139.53	-578.78	838.10	815.62	22.48	37.282	
5,300.00	5,276.26	5,199.76	5,121.06	10.98	13.36	-138.99	150.69	-598.07	858.07	835.25	22.83	37.592	
5,400.00	5,376.26	5,297.08	5,215.78	11.05	13.64	-97.69	161.87	-617.38	876.53	853.44	23.09	37.960	
5,500.00	5,476.26	5,394.42	5,310.53	11.15	13.93	-96.80	173.05	-636.69	894.94	871.55	23.39	38.263	
5,600.00	5,576.26	5,491.75	5,405.27	11.24	14.21	-95.95	184.23	-656.01	913.56	889.87	23.69	38.565	
5,700.00	5,676.26	5,591.43	5,502.29	11.33	14.49	-95.11	195.67	-675.76	932.35	908.38	23.98	38.887	
5,800.00	5,776.26	5,704.43	5,612.61	11.43	14.80	-94.25	207.94	-696.95	950.30	925.97	24.33	39.066	
5,900.00	5,876.26	5,818.38	5,724.31	11.52	15.10	-93.48	219.20	-716.41	966.77	942.10	24.67	39.188	
6,000.00	5,976.26	5,933.20	5,837.31	11.61	15.38	-92.82	229.43	-734.07	981.71	956.71	25.00	39.261	
6,100.00	6,076.26	6,048.81	5,951.46	11.71	15.64	-92.24	238.57	-749.87	995.06	969.73	25.33	39.285	
6,200.00	6,176.26	6,165.12	6,066.66	11.80	15.88	-91.75	246.61	-763.75	1,006.78	981.14	25.64	39.261	
6,300.00	6,276.26	6,282.04	6,182.77	11.89	16.09	-91.34	253.50	-775.66	1,016.82	990.88	25.94	39.192	
6,400.00	6,376.26	6,399.49	6,299.66	11.99	16.29	-91.01	259.23	-785.55	1,025.16	998.92	26.23	39.078	
6,500.00	6,476.26	6,517.35	6,417.17	12.08	16.45	-90.75	263.77	-793.40	1,031.76	1,005.25	26.51	38.923	
6,600.00	6,576.26	6,635.54	6,535.17	12.17	16.60	-90.56	267.11	-799.16	1,036.60	1,009.84	26.77	38.729	
6,700.00	6,676.26	6,753.96	6,653.51	12.26	16.72	-90.44	269.22	-802.82	1,039.68	1,012.67	27.01	38.497	
6,800.00	6,776.26	6,872.50	6,772.03	12.35	16.81	-90.39	270.12	-804.37	1,040.98	1,013.77	27.21	38.255	
6,900.00	6,876.26	6,976.72	6,876.26	12.45	16.88	-90.39	270.15	-804.42	1,041.02	1,013.65	27.37	38.028	
7,000.00	6,976.26	7,076.72	6,976.26	12.54	16.94	-90.39	270.15	-804.42	1,041.02	1,013.49	27.53	37.812	
7,100.00	7,076.26	7,176.72	7,076.26	12.63	17.01	-90.39	270.15	-804.42	1,041.02	1,013.34	27.69	37.599	
7,200.00	7,176.26	7,276.72	7,176.26	12.72	17.07	-90.39	270.15	-804.42	1,041.02	1,013.18	27.84	37.388	
7,300.00	7,276.26	7,376.72	7,276.26	12.81	17.14	-90.39	270.15	-804.42	1,041.02	1,013.02	28.00	37.179	
7,400.00	7,376.26	7,476.72	7,376.26	12.90	17.20	-90.39	270.15	-804.42	1,041.02	1,012.87	28.16	36.973	
7,500.00	7,476.26	7,576.72	7,476.26	13.00	17.27	-90.39	270.15	-804.42	1,041.02	1,012.71	28.31	36.768	
7,600.00	7,576.26	7,676.72	7,576.26	13.09	17.33	-90.39	270.15	-804.42	1,041.02	1,012.55	28.47	36.566	
7,700.00	7,676.26	7,776.72	7,676.26	13.18	17.40	-90.39	270.15	-804.42	1,041.02	1,012.40	28.63	36.366	
7,800.00	7,776.26	7,876.72	7,776.26	13.27	17.46	-90.39	270.15	-804.42	1,041.02	1,012.24	28.78	36.169	
7,900.00	7,876.26	7,976.72	7,876.26	13.36	17.53	-90.39	270.15	-804.42	1,041.02	1,012.09	28.94	35.973	
8,000.00	7,976.26	8,076.72	7,976.26	13.45	17.59	-90.39	270.15	-804.42	1,041.02	1,011.93	29.10	35.780	
8,100.00	8,076.26	8,176.72	8,076.26	13.54	17.66	-90.39	270.15	-804.42	1,041.02	1,011.77	29.25	35.588	
8,200.00	8,176.26	8,276.72	8,176.26	13.63	17.72	-90.39	270.15	-804.42	1,041.02	1,011.62	29.41	35.399	
8,300.00	8,276.26	8,376.72	8,276.26	13.72	17.79	-90.39	270.15	-804.42	1,041.02	1,011.46	29.57	35.211	
8,400.00	8,376.26	8,476.72	8,376.26	13.81	17.86	-90.39	270.15	-804.42	1,041.02	1,011.30	29.72	35.025	
8,500.00	8,476.26	8,576.72	8,476.26	13.90	17.92	-90.39	270.15	-804.42	1,041.02	1,011.15	29.88	34.842	
8,600.00	8,576.26	8,676.72	8,576.26	13.99	17.99	-90.39	270.15	-804.42	1,041.02	1,010.99	30.04	34.660	
8,700.00	8,676.26	8,776.72	8,676.26	14.08	18.05	-90.39	270.15	-804.42	1,041.02	1,010.83	30.19	34.480	
8,800.00	8,776.26	8,876.72	8,776.26	14.17	18.12	-90.39	270.15	-804.42	1,041.02	1,010.68	30.35	34.302	
8,900.00	8,876.26	8,976.72	8,876.26	14.26	18.19	-90.39	270.15	-804.42	1,041.02	1,010.52	30.51	34.126	
9,000.00	8,976.26	9,076.72	8,976.26	14.35	18.25	-90.39	270.15	-804.42	1,041.02	1,010.36	30.66	33.951	
9,100.00	9,076.26	9,176.72	9,076.26	14.44	18.32	-90.39	270.15	-804.42	1,041.02	1,010.20	30.82	33.778	
9,200.00	9,176.26	9,276.72	9,176.26	14.53	18.39	-90.39	270.15	-804.42	1,041.02	1,010.05	30.98	33.607	
9,300.00	9,276.26	9,376.72	9,276.26	14.62	18.45	-90.39	270.15	-804.42	1,041.02	1,009.89	31.13	33.438	
9,400.00	9,376.26	9,476.72	9,376.26	14.71	18.52	-90.39	270.15	-804.42	1,041.02	1,009.73	31.29	33.270	
9,500.00	9,476.26	9,576.72	9,476.26	14.80	18.59	-90.39	270.15	-804.42	1,041.02	1,009.58	31.45	33.104	
9,600.00	9,576.26	9,676.72	9,576.26	14.89	18.66	-90.39	270.15	-804.42	1,041.02	1,009.42	31.60	32.939	
9,700.00	9,676.26	9,776.72	9,676.26	14.97	18.72	-90.39	270.15	-804.42	1,041.02	1,009.26	31.76	32.777	
9,800.00	9,776.26	9,876.72	9,776.26	15.06	18.79	-90.39	270.15	-804.42	1,041.02	1,009.11	31.92	32.615	
9,900.00	9,876.26	9,976.72	9,876.26	15.15	18.86	-90.39	270.15	-804.42	1,041.02	1,008.95	32.08	32.455	
10,000.00	9,976.26	10,076.72	9,976.26	15.24	18.93	-90.39	270.15	-804.42	1,041.02	1,008.79	32.23	32.297	
10,100.00	10,076.26	10,176.72	10,076.26	15.33	19.00	-90.39	270.15	-804.42	1,041.02	1,008.63	32.39	32.140	
10,200.00	10,176.26	10,276.72	10,176.26	15.42	19.06	-90.39	270.15	-804.42	1,041.02	1,008.48	32.55	31.985	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:			Offset Site Error:		0.00 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Offset Well Error:		0.50 usft			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
10,300.00	10,276.26	10,376.72	10,276.26	15.51	19.13	-90.39	270.15	-804.42	1,041.02	1,008.32	32.70	31.831				
10,400.00	10,376.26	10,476.72	10,376.26	15.59	19.20	-90.39	270.15	-804.42	1,041.02	1,008.16	32.86	31.679				
10,500.00	10,476.26	10,576.72	10,476.26	15.68	19.27	-90.39	270.15	-804.42	1,041.02	1,008.01	33.02	31.528				
10,600.00	10,576.26	10,676.72	10,576.26	15.77	19.34	-90.39	270.15	-804.42	1,041.02	1,007.85	33.18	31.378				
10,700.00	10,676.26	10,776.72	10,676.26	15.86	19.41	-90.39	270.15	-804.42	1,041.02	1,007.69	33.33	31.230				
10,800.00	10,776.26	10,876.72	10,776.26	15.95	19.47	-90.39	270.15	-804.42	1,041.02	1,007.53	33.49	31.083				
10,900.00	10,876.26	10,976.72	10,876.26	16.04	19.54	-90.39	270.15	-804.42	1,041.02	1,007.38	33.65	30.938				
11,000.00	10,976.26	11,076.72	10,976.26	16.12	19.61	-90.39	270.15	-804.42	1,041.02	1,007.22	33.81	30.794				
11,100.00	11,076.26	11,176.72	11,076.26	16.21	19.68	-90.39	270.15	-804.42	1,041.02	1,007.06	33.96	30.651				
11,200.00	11,176.26	11,276.72	11,176.26	16.30	19.75	-90.39	270.15	-804.42	1,041.02	1,006.90	34.12	30.510				
11,300.00	11,276.26	11,376.72	11,276.26	16.39	19.82	-90.39	270.15	-804.42	1,041.02	1,006.75	34.28	30.369				
11,400.00	11,376.26	11,476.72	11,376.26	16.48	19.89	-90.39	270.15	-804.42	1,041.02	1,006.59	34.44	30.230				
11,500.00	11,476.26	11,576.72	11,476.26	16.56	19.96	-90.39	270.15	-804.42	1,041.02	1,006.43	34.59	30.092				
11,600.00	11,576.26	11,676.79	11,576.31	16.65	20.02	-90.42	269.68	-804.42	1,041.02	1,006.30	34.72	29.980				
11,623.09	11,599.34	11,699.86	11,599.34	16.67	20.03	-90.49	268.27	-804.40	1,041.02	1,006.28	34.74	29.962				
11,700.00	11,676.26	11,775.26	11,673.88	16.74	20.05	-91.10	257.25	-804.31	1,041.08	1,006.32	34.76	29.947				
11,800.00	11,776.26	11,866.99	11,761.62	16.83	20.03	-92.55	230.82	-804.08	1,041.80	1,007.04	34.76	29.969				
11,900.00	11,876.26	11,950.00	11,836.47	16.91	20.00	-94.51	195.11	-803.77	1,044.35	1,009.59	34.76	30.042				
12,000.00	11,976.24	12,019.36	11,894.53	16.97	19.97	83.72	157.24	-803.45	1,050.01	1,015.22	34.79	30.178				
12,100.00	12,075.06	12,085.61	11,945.32	17.02	19.93	81.03	114.77	-803.08	1,058.12	1,023.33	34.79	30.410				
12,200.00	12,169.87	12,150.00	11,989.68	17.06	19.91	78.48	68.14	-802.68	1,067.57	1,032.71	34.86	30.628				
12,300.00	12,257.78	12,212.64	12,027.54	17.11	19.90	76.15	18.28	-802.25	1,077.50	1,042.50	35.00	30.782				
12,400.00	12,336.13	12,274.31	12,059.29	17.16	19.91	74.09	-34.55	-801.80	1,087.15	1,051.90	35.25	30.841				
12,500.00	12,402.54	12,335.15	12,084.87	17.22	19.94	72.37	-89.73	-801.32	1,095.83	1,060.25	35.58	30.801				
12,600.00	12,454.98	12,400.00	12,105.53	17.28	20.00	70.98	-151.16	-800.79	1,103.00	1,067.04	35.95	30.680				
12,700.00	12,491.87	12,450.00	12,116.64	17.37	20.07	70.11	-199.89	-800.37	1,108.19	1,071.75	36.43	30.418				
12,800.00	12,512.08	12,514.86	12,124.66	17.49	20.18	69.57	-264.22	-799.82	1,111.08	1,074.21	36.88	30.129				
12,900.00	12,516.27	12,592.00	12,126.32	17.67	20.35	69.46	-341.32	-799.16	1,111.67	1,074.35	37.32	29.786				
13,000.00	12,517.14	12,692.00	12,127.19	17.92	20.63	69.46	-441.31	-798.30	1,111.67	1,073.77	37.90	29.328				
13,100.00	12,518.02	12,792.00	12,128.06	18.29	20.98	69.46	-541.30	-797.44	1,111.67	1,073.02	38.65	28.762				
13,200.00	12,518.89	12,892.00	12,128.93	18.77	21.38	69.46	-641.30	-796.57	1,111.67	1,072.12	39.55	28.106				
13,300.00	12,519.76	12,992.00	12,129.80	19.37	21.85	69.46	-741.29	-795.71	1,111.67	1,071.07	40.60	27.382				
13,400.00	12,520.64	13,092.00	12,130.67	20.06	22.38	69.46	-841.28	-794.85	1,111.67	1,069.89	41.78	26.609				
13,500.00	12,521.51	13,192.00	12,131.54	20.83	22.97	69.46	-941.27	-793.99	1,111.67	1,068.59	43.08	25.804				
13,600.00	12,522.38	13,292.00	12,132.41	21.67	23.62	69.46	-1,041.27	-793.13	1,111.68	1,067.18	44.50	24.984				
13,700.00	12,523.26	13,392.00	12,133.28	22.56	24.32	69.46	-1,141.26	-792.27	1,111.68	1,065.66	46.01	24.160				
13,800.00	12,524.13	13,492.00	12,134.16	23.51	25.08	69.46	-1,241.25	-791.41	1,111.68	1,064.06	47.62	23.344				
13,900.00	12,525.00	13,592.00	12,135.03	24.50	25.89	69.46	-1,341.24	-790.55	1,111.68	1,062.37	49.31	22.544				
14,000.00	12,525.88	13,692.00	12,135.90	25.53	26.74	69.46	-1,441.24	-789.69	1,111.68	1,060.60	51.08	21.764				
14,100.00	12,526.75	13,792.00	12,136.77	26.59	27.63	69.46	-1,541.23	-788.83	1,111.68	1,058.77	52.91	21.010				
14,200.00	12,527.62	13,892.00	12,137.64	27.67	28.56	69.46	-1,641.22	-787.97	1,111.68	1,056.88	54.81	20.284				
14,300.00	12,528.50	13,992.00	12,138.51	28.79	29.53	69.46	-1,741.21	-787.11	1,111.68	1,054.93	56.76	19.587				
14,400.00	12,529.37	14,092.00	12,139.38	29.92	30.52	69.46	-1,841.21	-786.25	1,111.68	1,052.93	58.75	18.921				
14,500.00	12,530.24	14,192.00	12,140.25	31.07	31.55	69.46	-1,941.20	-785.38	1,111.68	1,050.89	60.79	18.286				
14,600.00	12,531.12	14,292.00	12,141.12	32.25	32.60	69.46	-2,041.19	-784.52	1,111.69	1,048.81	62.88	17.680				
14,700.00	12,531.99	14,392.00	12,142.00	33.43	33.68	69.46	-2,141.18	-783.66	1,111.69	1,046.69	64.99	17.104				
14,800.00	12,532.87	14,492.00	12,142.87	34.63	34.77	69.46	-2,241.18	-782.80	1,111.69	1,044.54	67.15	16.556				
14,900.00	12,533.74	14,592.00	12,143.74	35.85	35.89	69.46	-2,341.17	-781.94	1,111.69	1,042.36	69.33	16.036				
15,000.00	12,534.61	14,692.00	12,144.61	37.07	37.02	69.46	-2,441.16	-781.08	1,111.69	1,040.16	71.53	15.541				
15,100.00	12,535.49	14,792.00	12,145.48	38.30	38.17	69.46	-2,541.15	-780.22	1,111.69	1,037.93	73.76	15.071				
15,200.00	12,536.36	14,892.00	12,146.35	39.55	39.33	69.46	-2,641.15	-779.36	1,111.69	1,035.67	76.02	14.624				
15,300.00	12,537.23	14,992.00	12,147.22	40.80	40.51	69.46	-2,741.14	-778.50	1,111.69	1,033.40	78.29	14.199				

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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	Offset	Semi Major Axis	Offset Wellbore Centre			Distance		Offset Well Error:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,400.00	12,538.11	15,092.00	12,148.09	42.06	41.70	69.46	-2,841.13	-777.64	1,111.69	1,031.11	80.59	13.795		
15,500.00	12,538.98	15,192.00	12,148.96	43.32	42.90	69.46	-2,941.12	-776.78	1,111.70	1,028.80	82.90	13.411		
15,600.00	12,539.85	15,292.00	12,149.84	44.59	44.11	69.46	-3,041.12	-775.92	1,111.70	1,026.47	85.22	13.045		
15,700.00	12,540.73	15,392.00	12,150.71	45.87	45.33	69.46	-3,141.11	-775.06	1,111.70	1,024.13	87.56	12.696		
15,800.00	12,541.60	15,492.00	12,151.58	47.16	46.56	69.46	-3,241.10	-774.20	1,111.70	1,021.78	89.92	12.364		
15,900.00	12,542.47	15,592.00	12,152.45	48.44	47.80	69.46	-3,341.09	-773.33	1,111.70	1,019.42	92.28	12.046		
16,000.00	12,543.35	15,692.00	12,153.32	49.73	49.04	69.46	-3,441.09	-772.47	1,111.70	1,017.04	94.66	11.744		
16,100.00	12,544.22	15,792.00	12,154.19	51.03	50.29	69.46	-3,541.08	-771.61	1,111.70	1,014.65	97.05	11.455		
16,200.00	12,545.09	15,892.00	12,155.06	52.33	51.54	69.46	-3,641.07	-770.75	1,111.70	1,012.25	99.45	11.179		
16,300.00	12,545.97	15,992.00	12,155.93	53.63	52.81	69.46	-3,741.06	-769.89	1,111.70	1,009.85	101.86	10.915		
16,400.00	12,546.84	16,092.00	12,156.81	54.94	54.07	69.46	-3,841.06	-769.03	1,111.70	1,007.43	104.27	10.662		
16,500.00	12,547.71	16,192.00	12,157.68	56.25	55.35	69.46	-3,941.05	-768.17	1,111.71	1,005.01	106.69	10.419		
16,600.00	12,548.59	16,292.00	12,158.55	57.56	56.62	69.46	-4,041.04	-767.31	1,111.71	1,002.58	109.13	10.187		
16,700.00	12,549.46	16,392.00	12,159.42	58.88	57.91	69.46	-4,141.03	-766.45	1,111.71	1,000.14	111.56	9.965		
16,800.00	12,550.33	16,492.00	12,160.29	60.20	59.19	69.46	-4,241.03	-765.59	1,111.71	997.70	114.01	9.751		
16,900.00	12,551.21	16,592.00	12,161.16	61.52	60.48	69.46	-4,341.02	-764.73	1,111.71	995.25	116.46	9.546		
17,000.00	12,552.08	16,692.00	12,162.03	62.84	61.77	69.46	-4,441.01	-763.87	1,111.71	992.80	118.91	9.349		
17,100.00	12,552.95	16,792.00	12,162.90	64.16	63.07	69.46	-4,541.00	-763.01	1,111.71	990.34	121.38	9.159		
17,200.00	12,553.83	16,892.00	12,163.77	65.49	64.37	69.46	-4,641.00	-762.14	1,111.71	987.87	123.84	8.977		
17,300.00	12,554.70	16,992.00	12,164.65	66.82	65.67	69.46	-4,740.99	-761.28	1,111.71	985.40	126.31	8.801		
17,400.00	12,555.57	17,092.00	12,165.52	68.14	66.97	69.46	-4,840.98	-760.42	1,111.71	982.92	128.79	8.632		
17,500.00	12,556.45	17,192.00	12,166.39	69.48	68.28	69.46	-4,940.97	-759.56	1,111.72	980.45	131.27	8.469		
17,600.00	12,557.32	17,292.00	12,167.26	70.81	69.59	69.46	-5,040.97	-758.70	1,111.72	977.96	133.75	8.312		
17,700.00	12,558.19	17,392.00	12,168.13	72.14	70.90	69.46	-5,140.96	-757.84	1,111.72	975.48	136.24	8.160		
17,800.00	12,559.07	17,492.00	12,169.00	73.48	72.22	69.46	-5,240.95	-756.98	1,111.72	972.99	138.73	8.013		
17,900.00	12,559.94	17,592.00	12,169.87	74.81	73.53	69.46	-5,340.94	-756.12	1,111.72	970.49	141.23	7.872		
18,000.00	12,560.81	17,692.00	12,170.74	76.15	74.85	69.46	-5,440.94	-755.26	1,111.72	968.00	143.72	7.735		
18,100.00	12,561.69	17,792.00	12,171.61	77.49	76.17	69.46	-5,540.93	-754.40	1,111.72	965.50	146.22	7.603		
18,200.00	12,562.56	17,892.00	12,172.49	78.83	77.50	69.46	-5,640.92	-753.54	1,111.72	962.99	148.73	7.475		
18,300.00	12,563.43	17,992.00	12,173.36	80.17	78.82	69.46	-5,740.91	-752.68	1,111.72	960.49	151.23	7.351		
18,400.00	12,564.31	18,092.00	12,174.23	81.51	80.14	69.46	-5,840.91	-751.82	1,111.72	957.98	153.74	7.231		
18,500.00	12,565.18	18,192.00	12,175.10	82.86	81.47	69.46	-5,940.90	-750.96	1,111.73	955.47	156.25	7.115		
18,600.00	12,566.05	18,292.00	12,175.97	84.20	82.80	69.46	-6,040.89	-750.09	1,111.73	952.96	158.77	7.002		
18,700.00	12,566.93	18,392.00	12,176.84	85.54	84.13	69.46	-6,140.88	-749.23	1,111.73	950.44	161.28	6.893		
18,800.00	12,567.80	18,492.00	12,177.71	86.89	85.46	69.46	-6,240.88	-748.37	1,111.73	947.93	163.80	6.787		
18,900.00	12,568.67	18,592.00	12,178.58	88.24	86.79	69.46	-6,340.87	-747.51	1,111.73	945.41	166.32	6.684		
19,000.00	12,569.55	18,692.00	12,179.45	89.58	88.12	69.46	-6,440.86	-746.65	1,111.73	942.89	168.84	6.584		
19,100.00	12,570.42	18,792.00	12,180.33	90.93	89.46	69.46	-6,540.85	-745.79	1,111.73	940.36	171.37	6.487		
19,200.00	12,571.29	18,892.00	12,181.20	92.28	90.79	69.46	-6,640.85	-744.93	1,111.73	937.84	173.89	6.393		
19,300.00	12,572.17	18,992.00	12,182.07	93.63	92.13	69.46	-6,740.84	-744.07	1,111.73	935.31	176.42	6.302		
19,400.00	12,573.04	19,092.00	12,182.94	94.98	93.47	69.46	-6,840.83	-743.21	1,111.73	932.79	178.95	6.213		
19,500.00	12,573.91	19,192.00	12,183.81	96.33	94.81	69.46	-6,940.82	-742.35	1,111.74	930.26	181.48	6.126		
19,600.00	12,574.79	19,292.00	12,184.68	97.68	96.15	69.46	-7,040.82	-741.49	1,111.74	927.72	184.01	6.042		
19,700.00	12,575.66	19,392.00	12,185.55	99.03	97.49	69.46	-7,140.81	-740.63	1,111.74	925.19	186.55	5.960		
19,800.00	12,576.54	19,492.00	12,186.42	100.38	98.83	69.46	-7,240.80	-739.77	1,111.74	922.66	189.08	5.880		
19,900.00	12,577.41	19,592.00	12,187.29	101.73	100.17	69.46	-7,340.79	-738.90	1,111.74	920.12	191.62	5.802		
20,000.00	12,578.28	19,692.00	12,188.17	103.08	101.51	69.46	-7,440.79	-738.04	1,111.74	917.59	194.15	5.726		
20,100.00	12,579.16	19,792.00	12,189.04	104.44	102.85	69.46	-7,540.78	-737.18	1,111.74	915.05	196.69	5.652		
20,200.00	12,580.03	19,892.00	12,189.91	105.79	104.20	69.46	-7,640.77	-736.32	1,111.74	912.51	199.23	5.580		
20,300.00	12,580.90	19,992.00	12,190.78	107.14	105.54	69.46	-7,740.76	-735.46	1,111.74	909.97	201.77	5.510		
20,400.00	12,581.78	20,092.00	12,191.65	108.50	106.89	69.46	-7,840.76	-734.60	1,111.75	907.43	204.32	5.441		
20,500.00	12,582.65	20,192.00	12,192.52	109.85	108.23	69.46	-7,940.75	-733.74	1,111.75	904.89	206.86	5.374		

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 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:					Offset Well Error:		0.50 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)	
20,600.00	12,583.52	20,292.00	12,193.39	111.21	109.58	69.46	-8,040.74	-732.88	1,111.75	902.34	209.40	5.309		
20,700.00	12,584.40	20,392.00	12,194.26	112.56	110.93	69.46	-8,140.73	-732.02	1,111.75	899.80	211.95	5.245		
20,800.00	12,585.27	20,492.00	12,195.13	113.92	112.27	69.46	-8,240.73	-731.16	1,111.75	897.26	214.49	5.183		
20,900.00	12,586.14	20,592.00	12,196.01	115.27	113.62	69.46	-8,340.72	-730.30	1,111.75	894.71	217.04	5.122		
21,000.00	12,587.02	20,692.00	12,196.88	116.63	114.97	69.46	-8,440.71	-729.44	1,111.75	892.16	219.59	5.063		
21,100.00	12,587.89	20,792.00	12,197.75	117.99	116.32	69.46	-8,540.70	-728.58	1,111.75	889.61	222.14	5.005		
21,200.00	12,588.76	20,892.00	12,198.62	119.34	117.67	69.46	-8,640.70	-727.72	1,111.75	887.07	224.69	4.948		
21,300.00	12,589.64	20,992.00	12,199.49	120.70	119.02	69.46	-8,740.69	-726.85	1,111.75	884.52	227.24	4.892		
21,400.00	12,590.51	21,092.00	12,200.36	122.06	120.37	69.46	-8,840.68	-725.99	1,111.76	881.97	229.79	4.838		
21,500.00	12,591.38	21,192.00	12,201.23	123.42	121.72	69.45	-8,940.67	-725.13	1,111.76	879.42	232.34	4.785		
21,600.00	12,592.26	21,292.00	12,202.10	124.77	123.07	69.45	-9,040.67	-724.27	1,111.76	876.87	234.89	4.733		
21,700.00	12,593.13	21,392.00	12,202.98	126.13	124.42	69.45	-9,140.66	-723.41	1,111.76	874.31	237.45	4.682		
21,800.00	12,594.00	21,492.00	12,203.85	127.49	125.78	69.45	-9,240.65	-722.55	1,111.76	871.76	240.00	4.632		
21,900.00	12,594.88	21,592.00	12,204.72	128.85	127.13	69.45	-9,340.64	-721.69	1,111.76	869.21	242.55	4.584		
22,000.00	12,595.75	21,692.00	12,205.59	130.21	128.48	69.45	-9,440.64	-720.83	1,111.76	866.65	245.11	4.536		
22,100.00	12,596.62	21,792.00	12,206.46	131.57	129.84	69.45	-9,540.63	-719.97	1,111.76	864.10	247.66	4.489		
22,200.00	12,597.50	21,892.00	12,207.33	132.93	131.19	69.45	-9,640.62	-719.11	1,111.76	861.54	250.22	4.443		
22,300.00	12,598.37	21,992.00	12,208.20	134.29	132.54	69.45	-9,740.61	-718.25	1,111.76	858.99	252.78	4.398		
22,400.00	12,599.24	22,092.00	12,209.07	135.65	133.90	69.45	-9,840.61	-717.39	1,111.77	856.43	255.33	4.354		
22,500.00	12,600.12	22,192.00	12,209.94	137.01	135.25	69.45	-9,940.60	-716.53	1,111.77	853.87	257.89	4.311		
22,600.00	12,600.99	22,292.00	12,210.82	138.37	136.61	69.45	-10,040.59	-715.66	1,111.77	851.32	260.45	4.269		
22,700.00	12,601.86	22,392.00	12,211.69	139.73	137.96	69.45	-10,140.58	-714.80	1,111.77	848.76	263.01	4.227		
22,709.68	12,601.95	22,401.68	12,211.77	139.86	138.09	69.45	-10,150.26	-714.72	1,111.77	848.51	263.26	4.223		
22,796.26	12,602.70	22,485.80	12,212.50	141.04	139.26	69.45	-10,234.37	-714.00	1,111.77	846.31	265.46	4.188	SF	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)														Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Reference (usft)	Major Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.50	0.50	135.00	-25.00	25.00	35.36						
100.00	100.00	100.00	100.00	0.98	0.98	135.00	-25.00	25.00	35.36	33.39	1.96	18.018			
200.00	200.00	200.00	200.00	1.56	1.56	135.00	-25.00	25.00	35.36	32.23	3.12	11.324			
300.00	300.00	300.00	300.00	1.98	1.98	135.00	-25.00	25.00	35.36	31.39	3.96	8.923			
400.00	400.00	400.00	400.00	2.33	2.33	135.00	-25.00	25.00	35.36	30.70	4.66	7.589			
500.00	500.00	500.00	500.00	2.63	2.63	135.00	-25.00	25.00	35.36	30.09	5.27	6.710			
600.00	600.00	600.00	600.00	2.91	2.91	135.00	-25.00	25.00	35.36	29.54	5.82	6.075			
700.00	700.00	700.00	700.00	3.16	3.16	135.00	-25.00	25.00	35.36	29.03	6.33	5.587			
800.00	800.00	800.00	800.00	3.40	3.40	135.00	-25.00	25.00	35.36	28.55	6.80	5.198	CC		
900.00	900.00	899.77	899.76	3.62	3.68	132.96	-24.31	26.11	35.68	28.43	7.25	4.923	ES		
1,000.00	1,000.00	999.40	999.31	3.84	3.93	127.11	-22.26	29.42	36.90	29.23	7.67	4.809			
1,100.00	1,100.00	1,098.76	1,098.45	4.04	4.18	118.35	-18.85	34.92	39.72	31.62	8.09	4.906			
1,200.00	1,200.00	1,198.20	1,197.53	4.23	4.29	108.81	-14.36	42.16	44.61	36.19	8.41	5.303			
1,300.00	1,300.00	1,297.82	1,296.77	4.42	4.48	101.18	-9.79	49.54	50.60	41.79	8.81	5.743			
1,400.00	1,400.00	1,397.44	1,396.01	4.60	4.68	95.23	-5.21	56.92	57.29	48.10	9.20	6.229			
1,500.00	1,500.00	1,497.06	1,495.25	4.78	4.87	90.57	-0.64	64.30	64.47	54.90	9.57	6.734			
1,600.00	1,600.00	1,596.68	1,594.49	4.95	5.06	86.85	3.94	71.67	71.99	62.05	9.94	7.240			
1,700.00	1,700.00	1,696.29	1,693.73	5.11	5.25	83.85	8.51	79.05	79.76	69.45	10.30	7.740			
1,800.00	1,800.00	1,795.91	1,792.97	5.28	5.44	81.39	13.09	86.43	87.70	77.04	10.66	8.227			
1,900.00	1,900.00	1,895.53	1,892.21	5.44	5.63	79.34	17.67	93.81	95.78	84.77	11.01	8.699			
2,000.00	2,000.00	1,995.15	1,991.45	5.59	5.81	77.60	22.24	101.19	103.96	92.60	11.35	9.155			
2,100.00	2,100.00	2,094.77	2,090.69	5.74	6.00	76.13	26.82	108.57	112.22	100.52	11.70	9.595			
2,200.00	2,200.00	2,194.39	2,189.93	5.89	6.19	74.85	31.39	115.95	120.54	108.50	12.04	10.012			
2,300.00	2,299.99	2,292.22	2,287.32	6.07	6.37	73.45	36.24	123.76	128.49	116.12	12.38	10.382			
2,400.00	2,399.91	2,389.77	2,384.27	6.24	6.55	73.04	41.93	132.96	135.90	123.20	12.71	10.694			
2,500.00	2,499.69	2,487.25	2,480.95	6.42	6.74	73.06	48.50	143.54	142.77	129.73	13.04	10.949			
2,600.00	2,599.27	2,584.65	2,577.33	6.59	6.93	73.44	55.92	155.51	149.08	135.71	13.37	11.153			
2,700.00	2,698.57	2,681.98	2,673.38	6.76	7.12	73.14	64.20	168.86	154.86	141.17	13.69	11.310			
2,800.00	2,797.62	2,779.22	2,769.07	6.85	7.31	73.05	73.32	183.58	160.62	146.68	13.94	11.521			
2,900.00	2,896.65	2,876.29	2,864.27	7.00	7.51	73.76	83.28	199.65	167.92	153.66	14.26	11.776			
3,000.00	2,995.68	2,975.14	2,960.98	7.15	7.70	73.29	94.07	217.06	176.42	161.83	14.59	12.088			
3,100.00	3,094.70	3,074.76	3,058.42	7.30	7.90	73.78	104.98	234.66	185.01	170.06	14.94	12.380			
3,200.00	3,193.73	3,174.38	3,155.87	7.46	8.10	73.21	115.89	252.25	193.60	178.30	15.30	12.655			
3,300.00	3,292.76	3,274.00	3,253.31	7.61	8.31	73.61	126.80	269.85	202.21	186.55	15.66	12.916			
3,400.00	3,391.78	3,373.62	3,350.75	7.77	8.51	73.98	137.71	287.45	210.82	194.81	16.02	13.163			
3,500.00	3,490.81	3,473.24	3,448.20	7.93	8.72	73.32	148.62	305.05	219.45	203.07	16.38	13.398			
3,600.00	3,589.84	3,572.85	3,545.64	8.09	8.93	73.64	159.53	322.64	228.08	211.33	16.75	13.620			
3,700.00	3,688.87	3,672.47	3,643.09	8.25	9.15	73.93	170.43	340.24	236.72	219.60	17.11	13.832			
3,800.00	3,787.89	3,772.09	3,740.53	8.42	9.37	73.20	181.34	357.84	245.36	227.87	17.48	14.033			
3,900.00	3,886.92	3,871.71	3,837.98	8.58	9.61	73.45	192.25	375.43	254.01	236.15	17.86	14.224			
4,000.00	3,985.95	3,971.33	3,935.42	8.75	9.84	73.68	203.16	393.03	262.66	244.43	18.23	14.406			
4,100.00	4,084.98	4,071.31	4,033.21	8.92	10.06	73.90	214.11	410.69	271.31	252.72	18.59	14.597			
4,200.00	4,184.00	4,175.63	4,135.48	9.09	10.30	74.21	224.96	428.20	279.00	260.02	18.98	14.701			
4,300.00	4,283.03	4,280.17	4,238.31	9.26	10.54	74.64	234.85	444.16	285.03	265.65	19.38	14.709			
4,400.00	4,382.06	4,384.85	4,341.62	9.43	10.77	74.21	243.77	458.54	289.40	269.63	19.77	14.638			
4,500.00	4,481.09	4,489.61	4,445.29	9.60	10.99	74.92	251.69	471.32	292.13	271.98	20.15	14.496			
4,600.00	4,580.11	4,594.38	4,549.23	9.77	11.19	74.77	258.62	482.49	293.25	272.72	20.53	14.287			
4,700.00	4,679.14	4,699.08	4,653.33	9.95	11.37	74.78	264.54	492.04	292.78	271.90	20.89	14.017			
4,800.00	4,778.17	4,803.66	4,757.49	10.12	11.55	74.96	269.45	499.96	290.78	269.54	21.24	13.692			
4,900.00	4,877.31	4,908.09	4,861.66	10.28	11.70	74.18	273.35	506.26	287.89	266.34	21.55	13.359			
5,000.00	4,976.75	5,012.50	4,965.91	10.47	11.85	74.22	276.25	510.94	285.30	263.42	21.87	13.044			
5,100.00	5,076.44	5,116.87	5,070.22	10.65	11.99	74.06	278.15	514.00	282.97	260.80	22.17	12.765			

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:						Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)	
5,200.00	5,176.30	5,221.22	5,174.55	10.82	12.10	48.70	279.05	515.45	280.86	258.44	22.42	12.525		
5,300.00	5,276.26	5,322.92	5,276.26	10.98	12.16	49.08	279.13	515.58	279.24	256.63	22.61	12.351		
5,399.53	5,375.79	5,422.45	5,375.79	11.05	12.24	89.66	279.13	515.58	278.79	256.05	22.74	12.258		
5,400.00	5,376.26	5,422.92	5,376.26	11.05	12.25	89.61	279.13	515.58	279.01	256.26	22.74	12.267		
5,500.00	5,476.26	5,522.92	5,476.26	11.15	12.33	89.61	279.13	515.58	279.01	256.09	22.92	12.175		
5,600.00	5,576.26	5,622.92	5,576.26	11.24	12.41	89.61	279.13	515.58	279.01	255.92	23.09	12.085		
5,700.00	5,676.26	5,722.92	5,676.26	11.33	12.49	89.61	279.13	515.58	279.01	255.75	23.26	11.996		
5,800.00	5,776.26	5,822.92	5,776.26	11.43	12.57	89.61	279.13	515.58	279.01	255.58	23.43	11.908		
5,900.00	5,876.26	5,922.92	5,876.26	11.52	12.65	89.61	279.13	515.58	279.01	255.41	23.60	11.822		
6,000.00	5,976.26	6,022.92	5,976.26	11.61	12.73	89.61	279.13	515.58	279.01	255.24	23.77	11.737		
6,100.00	6,076.26	6,122.92	6,076.26	11.71	12.81	89.61	279.13	515.58	279.01	255.07	23.94	11.654		
6,200.00	6,176.26	6,222.92	6,176.26	11.80	12.89	89.61	279.13	515.58	279.01	254.89	24.11	11.571		
6,300.00	6,276.26	6,322.92	6,276.26	11.89	12.97	89.61	279.13	515.58	279.01	254.72	24.28	11.490		
6,400.00	6,376.26	6,422.92	6,376.26	11.99	13.05	89.61	279.13	515.58	279.01	254.55	24.45	11.410		
6,500.00	6,476.26	6,522.92	6,476.26	12.08	13.13	89.61	279.13	515.58	279.01	254.38	24.62	11.332		
6,600.00	6,576.26	6,622.92	6,576.26	12.17	13.22	89.61	279.13	515.58	279.01	254.21	24.79	11.254		
6,700.00	6,676.26	6,722.92	6,676.26	12.26	13.30	89.61	279.13	515.58	279.01	254.04	24.96	11.177		
6,800.00	6,776.26	6,822.92	6,776.26	12.35	13.38	89.61	279.13	515.58	279.01	253.87	25.13	11.102		
6,900.00	6,876.26	6,922.92	6,876.26	12.45	13.46	89.61	279.13	515.58	279.01	253.71	25.30	11.027		
7,000.00	6,976.26	7,022.92	6,976.26	12.54	13.54	89.61	279.13	515.58	279.01	253.54	25.47	10.954		
7,100.00	7,076.26	7,122.92	7,076.26	12.63	13.62	89.61	279.13	515.58	279.01	253.37	25.64	10.882		
7,200.00	7,176.26	7,222.92	7,176.26	12.72	13.70	89.61	279.13	515.58	279.01	253.20	25.81	10.810		
7,300.00	7,276.26	7,322.92	7,276.26	12.81	13.78	89.61	279.13	515.58	279.01	253.03	25.98	10.740		
7,400.00	7,376.26	7,422.92	7,376.26	12.90	13.86	89.61	279.13	515.58	279.01	252.86	26.15	10.670		
7,500.00	7,476.26	7,522.92	7,476.26	13.00	13.94	89.61	279.13	515.58	279.01	252.69	26.32	10.602		
7,600.00	7,576.26	7,622.92	7,576.26	13.09	14.02	89.61	279.13	515.58	279.01	252.52	26.49	10.534		
7,700.00	7,676.26	7,722.92	7,676.26	13.18	14.11	89.61	279.13	515.58	279.01	252.35	26.65	10.467		
7,800.00	7,776.26	7,822.92	7,776.26	13.27	14.19	89.61	279.13	515.58	279.01	252.18	26.82	10.401		
7,900.00	7,876.26	7,922.92	7,876.26	13.36	14.27	89.61	279.13	515.58	279.01	252.01	26.99	10.336		
8,000.00	7,976.26	8,022.92	7,976.26	13.45	14.35	89.61	279.13	515.58	279.01	251.85	27.16	10.272		
8,100.00	8,076.26	8,122.92	8,076.26	13.54	14.43	89.61	279.13	515.58	279.01	251.68	27.33	10.209		
8,200.00	8,176.26	8,222.92	8,176.26	13.63	14.51	89.61	279.13	515.58	279.01	251.51	27.50	10.146		
8,300.00	8,276.26	8,322.92	8,276.26	13.72	14.59	89.61	279.13	515.58	279.01	251.34	27.67	10.085		
8,400.00	8,376.26	8,422.92	8,376.26	13.81	14.67	89.61	279.13	515.58	279.01	251.17	27.84	10.024		
8,500.00	8,476.26	8,522.92	8,476.26	13.90	14.75	89.61	279.13	515.58	279.01	251.00	28.00	9.963		
8,600.00	8,576.26	8,622.92	8,576.26	13.99	14.84	89.61	279.13	515.58	279.01	250.83	28.17	9.904		
8,700.00	8,676.26	8,722.92	8,676.26	14.08	14.92	89.61	279.13	515.58	279.01	250.67	28.34	9.845		
8,800.00	8,776.26	8,822.92	8,776.26	14.17	15.00	89.61	279.13	515.58	279.01	250.50	28.51	9.787		
8,900.00	8,876.26	8,922.92	8,876.26	14.26	15.08	89.61	279.13	515.58	279.01	250.33	28.68	9.730		
9,000.00	8,976.26	9,022.92	8,976.26	14.35	15.16	89.61	279.13	515.58	279.01	250.16	28.84	9.673		
9,100.00	9,076.26	9,122.92	9,076.26	14.44	15.24	89.61	279.13	515.58	279.01	249.99	29.01	9.617		
9,200.00	9,176.26	9,222.92	9,176.26	14.53	15.32	89.61	279.13	515.58	279.01	249.83	29.18	9.562		
9,300.00	9,276.26	9,322.92	9,276.26	14.62	15.40	89.61	279.13	515.58	279.01	249.66	29.35	9.507		
9,400.00	9,376.26	9,422.92	9,376.26	14.71	15.48	89.61	279.13	515.58	279.01	249.49	29.51	9.453		
9,500.00	9,476.26	9,522.92	9,476.26	14.80	15.56	89.61	279.13	515.58	279.01	249.32	29.68	9.400		
9,600.00	9,576.26	9,622.92	9,576.26	14.89	15.65	89.61	279.13	515.58	279.01	249.16	29.85	9.347		
9,700.00	9,676.26	9,722.92	9,676.26	14.97	15.73	89.61	279.13	515.58	279.01	248.99	30.02	9.295		
9,800.00	9,776.26	9,822.92	9,776.26	15.06	15.81	89.61	279.13	515.58	279.01	248.82	30.19	9.243		
9,900.00	9,876.26	9,922.92	9,876.26	15.15	15.89	89.61	279.13	515.58	279.01	248.65	30.35	9.192		
10,000.00	9,976.26	10,022.92	9,976.26	15.24	15.97	89.61	279.13	515.58	279.01	248.49	30.52	9.142		
10,100.00	10,076.26	10,122.92	10,076.26	15.33	16.05	89.61	279.13	515.58	279.01	248.32	30.69	9.092		
10,200.00	10,176.26	10,222.92	10,176.26	15.42	16.13	89.61	279.13	515.58	279.01	248.15	30.85	9.043		

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)												Offset Site Error:		0.00 usft			
Reference				Offset		Semi Major Axis				Rule Assigned:				Offset Well Error:		0.50 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
10,300.00	10,276.26	10,322.92	10,276.26	15.51	16.21	89.61	279.13	515.58	279.01	247.98	31.02	8.994					
10,400.00	10,376.26	10,422.92	10,376.26	15.59	16.30	89.61	279.13	515.58	279.01	247.82	31.19	8.946					
10,500.00	10,476.26	10,522.92	10,476.26	15.68	16.38	89.61	279.13	515.58	279.01	247.65	31.36	8.898					
10,600.00	10,576.26	10,622.92	10,576.26	15.77	16.46	89.61	279.13	515.58	279.01	247.48	31.52	8.851					
10,700.00	10,676.26	10,722.92	10,676.26	15.86	16.54	89.61	279.13	515.58	279.01	247.32	31.69	8.804					
10,800.00	10,776.26	10,822.92	10,776.26	15.95	16.62	89.61	279.13	515.58	279.01	247.15	31.86	8.758					
10,900.00	10,876.26	10,922.92	10,876.26	16.04	16.70	89.61	279.13	515.58	279.01	246.98	32.02	8.712					
11,000.00	10,976.26	11,022.92	10,976.26	16.12	16.78	89.61	279.13	515.58	279.01	246.82	32.19	8.667					
11,100.00	11,076.26	11,122.92	11,076.26	16.21	16.86	89.61	279.13	515.58	279.01	246.65	32.36	8.622					
11,200.00	11,176.26	11,222.92	11,176.26	16.30	16.94	89.61	279.13	515.58	279.01	246.48	32.53	8.578					
11,300.00	11,276.26	11,322.92	11,276.26	16.39	17.03	89.61	279.13	515.58	279.01	246.31	32.69	8.534					
11,400.00	11,376.26	11,422.92	11,376.26	16.48	17.11	89.61	279.13	515.58	279.01	246.15	32.86	8.491					
11,500.00	11,476.26	11,522.92	11,476.26	16.56	17.19	89.61	279.13	515.58	279.01	245.98	33.03	8.448					
11,509.53	11,485.79	11,532.45	11,485.79	16.57	17.20	89.61	279.13	515.58	279.01	245.97	33.04	8.444					
11,600.00	11,576.26	11,622.89	11,576.22	16.65	17.28	89.71	278.66	515.58	279.01	245.83	33.17	8.411					
11,700.00	11,676.26	11,720.96	11,673.40	16.74	17.36	92.23	266.34	515.69	279.34	246.14	33.20	8.415					
11,800.00	11,776.26	11,812.38	11,760.86	16.83	17.41	97.57	240.10	515.92	282.21	249.00	33.21	8.498					
11,900.00	11,876.26	11,893.76	11,834.35	16.91	17.46	104.43	205.30	516.22	291.76	258.23	33.53	8.701					
12,000.00	11,976.24	11,964.41	11,893.61	16.97	17.50	-67.36	166.90	516.55	311.71	277.14	34.58	9.015					
12,100.00	12,075.06	12,030.58	11,944.43	17.02	17.55	-59.25	124.58	516.91	338.24	302.00	36.24	9.333					
12,200.00	12,169.87	12,100.00	11,992.13	17.06	17.61	-52.25	74.21	517.34	366.86	328.80	38.06	9.639					
12,300.00	12,257.78	12,150.00	12,022.53	17.11	17.66	-47.54	34.54	517.69	394.91	354.28	40.63	9.719					
12,400.00	12,336.13	12,219.14	12,058.65	17.16	17.75	-43.12	-24.37	518.19	420.36	377.96	42.40	9.914					
12,500.00	12,402.54	12,279.97	12,084.35	17.22	17.84	-40.05	-79.46	518.67	442.22	397.97	44.26	9.992					
12,600.00	12,454.98	12,340.20	12,103.91	17.28	17.95	-37.87	-136.41	519.16	459.52	413.65	45.87	10.018					
12,700.00	12,491.87	12,400.00	12,117.31	17.37	18.08	-36.46	-194.65	519.66	471.65	424.45	47.20	9.993					
12,800.00	12,512.08	12,459.64	12,124.56	17.49	18.23	-35.72	-253.82	520.17	478.27	430.06	48.22	9.919					
12,900.00	12,516.27	12,535.81	12,126.29	17.67	18.46	-35.58	-329.96	520.82	479.52	430.73	48.78	9.829					
13,000.00	12,517.14	12,635.81	12,127.17	17.92	18.83	-35.58	-429.95	521.69	479.52	430.38	49.14	9.759					
13,100.00	12,518.02	12,735.81	12,128.04	18.29	19.27	-35.58	-529.94	522.55	479.52	429.97	49.55	9.678					
13,200.00	12,518.89	12,835.81	12,128.91	18.77	19.79	-35.58	-629.93	523.41	479.52	429.50	50.02	9.587					
13,300.00	12,519.76	12,935.81	12,129.78	19.37	20.38	-35.58	-729.93	524.27	479.52	428.98	50.54	9.487					
13,400.00	12,520.64	13,035.81	12,130.65	20.06	21.04	-35.58	-829.92	525.13	479.53	428.40	51.13	9.379					
13,500.00	12,521.51	13,135.81	12,131.52	20.83	21.77	-35.58	-929.91	525.99	479.53	427.77	51.76	9.264					
13,600.00	12,522.38	13,235.81	12,132.39	21.67	22.57	-35.58	-1,029.90	526.85	479.53	427.08	52.45	9.143					
13,700.00	12,523.26	13,335.81	12,133.27	22.56	23.42	-35.58	-1,129.90	527.71	479.53	426.35	53.18	9.016					
13,800.00	12,524.13	13,435.81	12,134.14	23.51	24.32	-35.58	-1,229.89	528.57	479.53	425.56	53.97	8.886					
13,900.00	12,525.00	13,535.81	12,135.01	24.50	25.26	-35.58	-1,329.88	529.43	479.53	424.74	54.80	8.751					
14,000.00	12,525.88	13,635.81	12,135.88	25.53	26.25	-35.58	-1,429.87	530.30	479.54	423.87	55.67	8.614					
14,100.00	12,526.75	13,735.81	12,136.75	26.59	27.26	-35.58	-1,529.87	531.16	479.54	422.96	56.58	8.475					
14,200.00	12,527.62	13,835.81	12,137.62	27.67	28.31	-35.58	-1,629.86	532.02	479.54	422.01	57.53	8.335					
14,300.00	12,528.50	13,935.81	12,138.49	28.79	29.39	-35.58	-1,729.85	532.88	479.54	421.02	58.52	8.194					
14,400.00	12,529.37	14,035.81	12,139.37	29.92	30.49	-35.58	-1,829.84	533.74	479.54	420.00	59.55	8.053					
14,500.00	12,530.24	14,135.81	12,140.24	31.07	31.61	-35.58	-1,929.84	534.60	479.54	418.94	60.60	7.913					
14,600.00	12,531.12	14,235.81	12,141.11	32.25	32.76	-35.58	-2,029.83	535.46	479.55	417.85	61.69	7.773					
14,700.00	12,531.99	14,335.81	12,141.98	33.43	33.92	-35.58	-2,129.82	536.32	479.55	416.73	62.82	7.634					
14,800.00	12,532.87	14,435.81	12,142.85	34.63	35.09	-35.58	-2,229.81	537.18	479.55	415.58	63.96	7.497					
14,900.00	12,533.74	14,535.81	12,143.72	35.85	36.28	-35.58	-2,329.81	538.04	479.55	414.41	65.14	7.362					
15,000.00	12,534.61	14,635.81	12,144.59	37.07	37.48	-35.58	-2,429.80	538.91	479.55	413.21	66.34	7.228					
15,100.00	12,535.49	14,735.81	12,145.47	38.30	38.70	-35.58	-2,529.79	539.77	479.55	411.98	67.57	7.097					
15,200.00	12,536.36	14,835.81	12,146.34	39.55	39.92	-35.58	-2,629.78	540.63	479.55	410.74	68.82	6.968					
15,300.00	12,537.23	14,935.81	12,147.21	40.80	41.15	-35.58	-2,729.78	541.49	479.56	409.47	70.09	6.842					

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)		Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance		Offset Well Error: 0.50 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	12,538.11	15,035.81	12,148.08	42.06	42.40	-35.58	-2,829.77	542.35	479.56	408.17	71.38	6.718	
15,500.00	12,538.98	15,135.81	12,148.95	43.32	43.65	-35.58	-2,929.76	543.21	479.56	406.86	72.69	6.597	
15,600.00	12,539.85	15,235.81	12,149.82	44.59	44.90	-35.58	-3,029.75	544.07	479.56	405.54	74.02	6.478	
15,700.00	12,540.73	15,335.81	12,150.69	45.87	46.17	-35.58	-3,129.75	544.93	479.56	404.19	75.37	6.363	
15,800.00	12,541.60	15,435.81	12,151.57	47.16	47.44	-35.58	-3,229.74	545.79	479.56	402.83	76.74	6.249	
15,900.00	12,542.47	15,535.81	12,152.44	48.44	48.71	-35.58	-3,329.73	546.65	479.57	401.45	78.12	6.139	
16,000.00	12,543.35	15,635.81	12,153.31	49.73	49.99	-35.58	-3,429.72	547.52	479.57	400.06	79.51	6.031	
16,100.00	12,544.22	15,735.81	12,154.18	51.03	51.28	-35.58	-3,529.72	548.38	479.57	398.65	80.92	5.926	
16,200.00	12,545.09	15,835.81	12,155.05	52.33	52.57	-35.58	-3,629.71	549.24	479.57	397.23	82.34	5.824	
16,300.00	12,545.97	15,935.81	12,155.92	53.63	53.86	-35.58	-3,729.70	550.10	479.57	395.79	83.78	5.724	
16,400.00	12,546.84	16,035.81	12,156.79	54.94	55.16	-35.58	-3,829.69	550.96	479.57	394.35	85.23	5.627	
16,500.00	12,547.71	16,135.81	12,157.67	56.25	56.46	-35.58	-3,929.69	551.82	479.58	392.89	86.68	5.532	
16,600.00	12,548.59	16,235.81	12,158.54	57.56	57.76	-35.58	-4,029.68	552.68	479.58	391.42	88.15	5.440	
16,700.00	12,549.46	16,335.81	12,159.41	58.88	59.07	-35.58	-4,129.67	553.54	479.58	389.95	89.63	5.350	
16,800.00	12,550.33	16,435.81	12,160.28	60.20	60.38	-35.58	-4,229.66	554.40	479.58	388.46	91.12	5.263	
16,900.00	12,551.21	16,535.81	12,161.15	61.52	61.69	-35.58	-4,329.66	555.26	479.58	386.96	92.62	5.178	
17,000.00	12,552.08	16,635.81	12,162.02	62.84	63.00	-35.57	-4,429.65	556.12	479.58	385.45	94.13	5.095	
17,100.00	12,552.95	16,735.81	12,162.89	64.16	64.32	-35.57	-4,529.64	556.99	479.59	383.94	95.65	5.014	
17,200.00	12,553.83	16,835.81	12,163.76	65.49	65.64	-35.57	-4,629.63	557.85	479.59	382.41	97.17	4.935	
17,300.00	12,554.70	16,935.81	12,164.64	66.82	66.96	-35.57	-4,729.63	558.71	479.59	380.88	98.71	4.859	
17,400.00	12,555.57	17,035.81	12,165.51	68.14	68.29	-35.57	-4,829.62	559.57	479.59	379.34	100.25	4.784	
17,500.00	12,556.45	17,135.81	12,166.38	69.48	69.61	-35.57	-4,929.61	560.43	479.59	377.80	101.79	4.711	
17,600.00	12,557.32	17,235.81	12,167.25	70.81	70.94	-35.57	-5,029.60	561.29	479.59	376.25	103.35	4.641	
17,700.00	12,558.19	17,335.81	12,168.12	72.14	72.27	-35.57	-5,129.60	562.15	479.60	374.69	104.91	4.572	
17,800.00	12,559.07	17,435.81	12,168.99	73.48	73.60	-35.57	-5,229.59	563.01	479.60	373.12	106.47	4.504	
17,900.00	12,559.94	17,535.81	12,169.86	74.81	74.93	-35.57	-5,329.58	563.87	479.60	371.55	108.05	4.439	
18,000.00	12,560.81	17,635.81	12,170.74	76.15	76.26	-35.57	-5,429.57	564.73	479.60	369.98	109.62	4.375	
18,100.00	12,561.69	17,735.81	12,171.61	77.49	77.59	-35.57	-5,529.57	565.60	479.60	368.39	111.21	4.313	
18,200.00	12,562.56	17,835.81	12,172.48	78.83	78.93	-35.57	-5,629.56	566.46	479.60	366.81	112.80	4.252	
18,300.00	12,563.43	17,935.81	12,173.35	80.17	80.27	-35.57	-5,729.55	567.32	479.61	365.22	114.39	4.193	
18,400.00	12,564.31	18,035.81	12,174.22	81.51	81.60	-35.57	-5,829.54	568.18	479.61	363.62	115.99	4.135	
18,500.00	12,565.18	18,135.81	12,175.09	82.86	82.94	-35.57	-5,929.54	569.04	479.61	362.02	117.59	4.079	
18,600.00	12,566.05	18,235.81	12,175.96	84.20	84.28	-35.57	-6,029.53	569.90	479.61	360.41	119.20	4.024	
18,700.00	12,566.93	18,335.81	12,176.84	85.54	85.62	-35.57	-6,129.52	570.76	479.61	358.80	120.81	3.970	
18,800.00	12,567.80	18,435.81	12,177.71	86.89	86.96	-35.57	-6,229.51	571.62	479.61	357.19	122.42	3.918	
18,900.00	12,568.67	18,535.81	12,178.58	88.24	88.31	-35.57	-6,329.51	572.48	479.62	355.57	124.04	3.867	
19,000.00	12,569.55	18,635.81	12,179.45	89.58	89.65	-35.57	-6,429.50	573.34	479.62	353.95	125.67	3.817	
19,100.00	12,570.42	18,735.81	12,180.32	90.93	90.99	-35.57	-6,529.49	574.21	479.62	352.33	127.29	3.768	
19,200.00	12,571.29	18,835.81	12,181.19	92.28	92.34	-35.57	-6,629.48	575.07	479.62	350.70	128.92	3.720	
19,300.00	12,572.17	18,935.81	12,182.06	93.63	93.68	-35.57	-6,729.48	575.93	479.62	349.07	130.56	3.674	
19,400.00	12,573.04	19,035.81	12,182.94	94.98	95.03	-35.57	-6,829.47	576.79	479.62	347.43	132.19	3.628	
19,500.00	12,573.91	19,135.81	12,183.81	96.33	96.38	-35.57	-6,929.46	577.65	479.63	345.79	133.83	3.584	
19,600.00	12,574.79	19,235.81	12,184.68	97.68	97.73	-35.57	-7,029.45	578.51	479.63	344.15	135.47	3.540	
19,700.00	12,575.66	19,335.81	12,185.55	99.03	99.07	-35.57	-7,129.45	579.37	479.63	342.51	137.12	3.498	
19,800.00	12,576.54	19,435.81	12,186.42	100.38	100.42	-35.57	-7,229.44	580.23	479.63	340.86	138.77	3.456	
19,900.00	12,577.41	19,535.81	12,187.29	101.73	101.77	-35.57	-7,329.43	581.09	479.63	339.21	140.42	3.416	
20,000.00	12,578.28	19,635.81	12,188.16	103.08	103.12	-35.57	-7,429.42	581.95	479.63	337.56	142.07	3.376	
20,100.00	12,579.16	19,735.81	12,189.04	104.44	104.47	-35.57	-7,529.42	582.82	479.64	335.91	143.73	3.337	
20,200.00	12,580.03	19,835.81	12,189.91	105.79	105.82	-35.57	-7,629.41	583.68	479.64	334.25	145.39	3.299	
20,300.00	12,580.90	19,935.81	12,190.78	107.14	107.17	-35.57	-7,729.40	584.54	479.64	332.59	147.05	3.262	
20,400.00	12,581.78	20,035.81	12,191.65	108.50	108.53	-35.57	-7,829.39	585.40	479.64	330.93	148.71	3.225	
20,500.00	12,582.65	20,135.81	12,192.52	109.85	109.88	-35.57	-7,929.39	586.26	479.64	329.27	150.37	3.190	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)												Rule Assigned:		Warning	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
20,600.00	12,583.52	20,235.81	12,193.39	111.21	111.23	-35.57	-8,029.38	587.12	479.64	327.60	152.04	3.155			
20,700.00	12,584.40	20,335.81	12,194.26	112.56	112.58	-35.57	-8,129.37	587.98	479.64	325.94	153.71	3.120			
20,800.00	12,585.27	20,435.81	12,195.14	113.92	113.94	-35.57	-8,229.36	588.84	479.65	324.27	155.38	3.087			
20,900.00	12,586.14	20,535.81	12,196.01	115.27	115.29	-35.57	-8,329.36	589.70	479.65	322.60	157.05	3.054			
21,000.00	12,587.02	20,635.81	12,196.88	116.63	116.65	-35.57	-8,429.35	590.56	479.65	320.92	158.73	3.022			
21,100.00	12,587.89	20,735.81	12,197.75	117.99	118.00	-35.57	-8,529.34	591.43	479.65	319.25	160.40	2.990			
21,200.00	12,588.76	20,835.81	12,198.62	119.34	119.36	-35.57	-8,629.33	592.29	479.65	317.57	162.08	2.959			
21,300.00	12,589.64	20,935.81	12,199.49	120.70	120.71	-35.57	-8,729.33	593.15	479.65	315.89	163.76	2.929			
21,400.00	12,590.51	21,035.81	12,200.36	122.06	122.07	-35.57	-8,829.32	594.01	479.66	314.21	165.44	2.899			
21,500.00	12,591.38	21,135.81	12,201.23	123.42	123.42	-35.57	-8,929.31	594.87	479.66	312.53	167.13	2.870			
21,600.00	12,592.26	21,235.81	12,202.11	124.77	124.78	-35.57	-9,029.30	595.73	479.66	310.85	168.81	2.841			
21,700.00	12,593.13	21,335.81	12,202.98	126.13	126.14	-35.57	-9,129.30	596.59	479.66	309.17	170.50	2.813			
21,800.00	12,594.00	21,435.81	12,203.85	127.49	127.49	-35.57	-9,229.29	597.45	479.66	307.48	172.18	2.786			
21,900.00	12,594.88	21,535.81	12,204.72	128.85	128.85	-35.57	-9,329.28	598.31	479.66	305.79	173.87	2.759			
22,000.00	12,595.75	21,635.81	12,205.59	130.21	130.21	-35.57	-9,429.27	599.17	479.67	304.10	175.56	2.732			
22,100.00	12,596.62	21,735.81	12,206.46	131.57	131.57	-35.57	-9,529.27	600.04	479.67	302.41	177.25	2.706			
22,200.00	12,597.50	21,835.81	12,207.33	132.93	132.92	-35.57	-9,629.26	600.90	479.67	300.72	178.95	2.681			
22,300.00	12,598.37	21,935.81	12,208.21	134.29	134.28	-35.57	-9,729.25	601.76	479.67	299.03	180.64	2.655			
22,400.00	12,599.24	22,035.81	12,209.08	135.65	135.64	-35.57	-9,829.24	602.62	479.67	297.34	182.33	2.631			
22,500.00	12,600.12	22,135.81	12,209.95	137.01	137.00	-35.57	-9,929.24	603.48	479.67	295.64	184.03	2.606			
22,600.00	12,600.99	22,235.81	12,210.82	138.37	138.36	-35.57	-10,029.23	604.34	479.68	293.95	185.73	2.583			
22,700.00	12,601.86	22,335.81	12,211.69	139.73	139.72	-35.57	-10,129.22	605.20	479.68	292.25	187.43	2.559			
22,709.43	12,601.95	22,345.25	12,211.77	139.86	139.84	-35.57	-10,138.65	605.28	479.68	292.09	187.59	2.557			
22,796.26	12,602.70	22,428.60	12,212.50	141.04	140.98	-35.57	-10,222.00	606.00	479.69	290.54	189.15	2.536	SF		

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:				Offset Well Error:		0.50 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	3.00	0.00	0.50	0.50	69.20	881.00	2,319.00	2,480.71				
100.00	100.00	103.00	100.00	0.98	1.00	69.20	881.00	2,319.00	2,480.71	2,478.73	1.98	1,253.760	
200.00	200.00	203.00	200.00	1.56	1.57	69.20	881.00	2,319.00	2,480.71	2,477.58	3.13	791.369	
300.00	300.00	303.00	300.00	1.98	1.99	69.20	881.00	2,319.00	2,480.71	2,476.74	3.97	624.437	
400.00	400.00	403.00	400.00	2.33	2.34	69.20	881.00	2,319.00	2,480.71	2,476.04	4.67	531.433	
500.00	500.00	503.00	500.00	2.63	2.64	69.20	881.00	2,319.00	2,480.71	2,475.43	5.28	470.073	
600.00	600.00	603.00	600.00	2.91	2.92	69.20	881.00	2,319.00	2,480.71	2,474.88	5.83	425.673	
700.00	700.00	706.41	703.41	3.16	3.18	69.20	881.00	2,319.00	2,480.71	2,474.36	6.34	391.070	
800.00	800.00	919.88	916.76	3.40	3.75	69.28	875.77	2,315.44	2,478.28	2,471.18	7.11	348.781	
900.00	900.00	1,079.78	1,076.18	3.62	4.02	69.45	865.63	2,308.55	2,471.80	2,464.22	7.58	326.283	
1,000.00	1,000.00	1,179.40	1,175.42	3.84	4.20	69.56	858.45	2,303.67	2,464.67	2,456.71	7.96	309.550	
1,100.00	1,100.00	1,309.66	1,305.15	4.04	4.36	69.72	848.70	2,297.04	2,457.39	2,449.07	8.31	295.640	
1,200.00	1,200.00	1,517.50	1,511.21	4.23	4.82	70.09	826.46	2,281.92	2,446.84	2,437.92	8.92	274.297	
1,300.00	1,300.00	1,616.36	1,608.85	4.42	4.99	70.31	813.67	2,273.23	2,434.14	2,424.86	9.27	262.498	
1,400.00	1,400.00	1,715.13	1,706.41	4.60	5.18	70.52	800.90	2,264.55	2,421.47	2,411.81	9.65	250.892	
1,500.00	1,500.00	1,813.90	1,803.96	4.78	5.37	70.74	788.12	2,255.87	2,408.83	2,398.80	10.03	240.268	
1,600.00	1,600.00	1,912.67	1,901.52	4.95	5.56	70.96	775.35	2,247.18	2,396.23	2,385.83	10.40	230.498	
1,700.00	1,700.00	2,011.44	1,999.07	5.11	5.75	71.19	762.58	2,238.50	2,383.66	2,372.90	10.76	221.474	
1,800.00	1,800.00	2,110.21	2,096.63	5.28	5.94	71.41	749.80	2,229.82	2,371.14	2,360.01	11.13	213.107	
1,900.00	1,900.00	2,208.98	2,194.18	5.44	6.14	71.64	737.03	2,221.14	2,358.64	2,347.16	11.49	205.322	
2,000.00	2,000.00	2,307.75	2,291.74	5.59	6.33	71.87	724.26	2,212.45	2,346.19	2,334.34	11.85	198.058	
2,100.00	2,100.00	2,406.52	2,389.29	5.74	6.52	72.11	711.48	2,203.77	2,333.78	2,321.57	12.20	191.260	
2,200.00	2,200.00	2,505.29	2,486.85	5.89	6.72	72.34	698.71	2,195.09	2,321.40	2,308.84	12.56	184.881	
2,300.00	2,299.99	2,603.84	2,584.19	6.07	6.91	32.23	685.97	2,186.43	2,307.96	2,295.03	12.93	178.508	
2,400.00	2,399.91	2,701.92	2,681.06	6.24	7.11	32.65	673.28	2,177.80	2,292.39	2,279.09	13.30	172.401	
2,500.00	2,499.69	2,799.46	2,777.40	6.42	7.30	33.13	660.67	2,169.23	2,274.71	2,261.05	13.66	166.504	
2,600.00	2,599.27	2,896.39	2,873.14	6.59	7.50	33.67	648.13	2,160.71	2,254.96	2,240.94	14.02	160.792	
2,700.00	2,698.57	2,992.65	2,968.21	6.76	7.70	34.27	635.68	2,152.25	2,233.19	2,218.80	14.39	155.239	
2,800.00	2,797.62	3,088.34	3,062.72	6.85	7.92	34.79	623.31	2,143.84	2,209.90	2,195.23	14.67	150.606	
2,900.00	2,896.65	3,183.98	3,157.19	7.00	8.13	35.26	610.94	2,135.43	2,186.64	2,171.62	15.02	145.626	
3,000.00	2,995.68	3,279.63	3,251.66	7.15	8.34	35.73	598.57	2,127.02	2,163.52	2,148.16	15.36	140.850	
3,100.00	3,094.70	3,375.28	3,346.13	7.30	8.56	36.21	586.20	2,118.61	2,140.54	2,124.84	15.71	136.269	
3,200.00	3,193.73	3,470.92	3,440.60	7.46	8.77	36.71	573.83	2,110.20	2,117.73	2,101.67	16.06	131.873	
3,300.00	3,292.76	3,566.57	3,535.07	7.61	8.98	37.21	561.46	2,101.80	2,095.06	2,078.65	16.41	127.654	
3,400.00	3,391.78	3,662.22	3,629.54	7.77	9.20	37.73	549.09	2,093.39	2,072.57	2,055.80	16.77	123.605	
3,500.00	3,490.81	3,757.86	3,724.01	7.93	9.42	38.25	536.72	2,084.98	2,050.24	2,033.11	17.13	119.717	
3,600.00	3,589.84	3,853.51	3,818.48	8.09	9.63	38.79	524.35	2,076.57	2,028.08	2,010.60	17.49	115.983	
3,700.00	3,688.87	3,949.16	3,912.95	8.25	9.85	39.34	511.98	2,068.17	2,006.11	1,988.26	17.85	112.395	
3,800.00	3,787.89	4,044.80	4,007.42	8.42	10.06	39.90	499.61	2,059.76	1,984.32	1,966.10	18.21	108.948	
3,900.00	3,886.92	4,140.45	4,101.89	8.58	10.28	40.47	487.25	2,051.35	1,962.72	1,944.14	18.58	105.635	
4,000.00	3,985.95	4,236.09	4,196.36	8.75	10.49	41.05	474.88	2,042.94	1,941.32	1,922.37	18.95	102.449	
4,100.00	4,084.98	4,331.74	4,290.83	8.92	10.71	41.65	462.51	2,034.53	1,920.13	1,900.81	19.32	99.386	
4,200.00	4,184.00	4,427.39	4,385.30	9.09	10.93	42.26	450.14	2,026.13	1,899.15	1,879.45	19.69	96.439	
4,300.00	4,283.03	4,523.03	4,479.77	9.26	11.14	42.88	437.77	2,017.72	1,878.38	1,858.32	20.07	93.604	
4,400.00	4,382.06	4,618.68	4,574.24	9.43	11.36	43.52	425.40	2,009.31	1,857.85	1,837.40	20.44	90.876	
4,500.00	4,481.09	4,714.33	4,668.71	9.60	11.58	44.16	413.03	2,000.90	1,837.55	1,816.72	20.82	88.251	
4,600.00	4,580.11	4,809.97	4,763.18	9.77	11.80	44.83	400.66	1,992.50	1,817.49	1,796.28	21.20	85.724	
4,700.00	4,679.14	4,905.62	4,857.65	9.95	12.01	45.50	388.29	1,984.09	1,797.68	1,776.09	21.58	83.290	
4,800.00	4,778.17	5,001.27	4,952.12	10.12	12.23	46.19	375.92	1,975.68	1,778.12	1,756.16	21.97	80.947	
4,900.00	4,877.31	5,097.16	5,046.84	10.28	12.45	46.71	363.52	1,967.25	1,759.42	1,737.10	22.33	78.803	
5,000.00	4,976.75	5,193.75	5,142.24	10.47	12.67	47.17	351.03	1,958.76	1,742.70	1,719.99	22.71	76.733	
5,100.00	5,076.44	5,290.98	5,238.27	10.65	12.89	47.60	338.45	1,950.21	1,727.94	1,704.85	23.09	74.845	

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:						Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,200.00	5,176.30	5,385.57	5,331.70	10.82	13.09	47.98	326.24	1,941.91	1,715.11	1,691.68	23.43	73.210		
5,300.00	5,276.26	5,463.58	5,408.91	10.98	13.25	48.22	317.00	1,935.63	1,704.92	1,681.19	23.73	71.838		
5,400.00	5,376.26	5,542.35	5,487.08	11.05	13.40	88.93	309.00	1,930.19	1,697.53	1,673.57	23.96	70.847		
5,500.00	5,476.26	5,621.52	5,565.84	11.15	13.54	89.15	302.31	1,925.64	1,691.62	1,667.41	24.21	69.874		
5,600.00	5,576.26	5,700.00	5,644.05	11.24	13.67	89.33	297.01	1,922.04	1,686.94	1,662.50	24.44	69.015		
5,700.00	5,676.26	5,780.72	5,724.62	11.33	13.78	89.47	292.94	1,919.28	1,683.46	1,658.80	24.66	68.265		
5,800.00	5,776.26	5,860.60	5,804.43	11.43	13.87	89.55	290.30	1,917.48	1,681.19	1,656.33	24.86	67.623		
5,900.00	5,876.26	5,940.58	5,884.40	11.52	13.93	89.60	289.05	1,916.63	1,680.11	1,655.09	25.02	67.139		
5,956.25	5,932.51	5,988.69	5,932.51	11.57	13.95	89.60	288.93	1,916.55	1,680.01	1,654.92	25.09	66.957		
6,000.00	5,976.26	6,032.44	5,976.26	11.61	13.96	89.60	288.93	1,916.55	1,680.01	1,654.87	25.14	66.824		
6,100.00	6,076.26	6,132.44	6,076.26	11.71	13.99	89.60	288.93	1,916.55	1,680.01	1,654.74	25.27	66.493		
6,200.00	6,176.26	6,232.44	6,176.26	11.80	14.02	89.60	288.93	1,916.55	1,680.01	1,654.62	25.39	66.165		
6,300.00	6,276.26	6,332.44	6,276.26	11.89	14.06	89.60	288.93	1,916.55	1,680.01	1,654.49	25.52	65.839		
6,400.00	6,376.26	6,432.44	6,376.26	11.99	14.09	89.60	288.93	1,916.55	1,680.01	1,654.37	25.64	65.516		
6,500.00	6,476.26	6,532.44	6,476.26	12.08	14.13	89.60	288.93	1,916.55	1,680.01	1,654.24	25.77	65.196		
6,600.00	6,576.26	6,632.44	6,576.26	12.17	14.16	89.60	288.93	1,916.55	1,680.01	1,654.12	25.89	64.878		
6,700.00	6,676.26	6,732.44	6,676.26	12.26	14.20	89.60	288.93	1,916.55	1,680.01	1,653.99	26.02	64.563		
6,800.00	6,776.26	6,832.44	6,776.26	12.35	14.23	89.60	288.93	1,916.55	1,680.01	1,653.86	26.15	64.250		
6,900.00	6,876.26	6,932.44	6,876.26	12.45	14.27	89.60	288.93	1,916.55	1,680.01	1,653.74	26.28	63.939		
7,000.00	6,976.26	7,032.44	6,976.26	12.54	14.30	89.60	288.93	1,916.55	1,680.01	1,653.61	26.40	63.631		
7,100.00	7,076.26	7,132.44	7,076.26	12.63	14.34	89.60	288.93	1,916.55	1,680.01	1,653.48	26.53	63.325		
7,200.00	7,176.26	7,232.44	7,176.26	12.72	14.38	89.60	288.93	1,916.55	1,680.01	1,653.35	26.66	63.022		
7,300.00	7,276.26	7,332.44	7,276.26	12.81	14.42	89.60	288.93	1,916.55	1,680.01	1,653.23	26.79	62.721		
7,400.00	7,376.26	7,432.44	7,376.26	12.90	14.45	89.60	288.93	1,916.55	1,680.01	1,653.10	26.91	62.422		
7,500.00	7,476.26	7,532.44	7,476.26	13.00	14.49	89.60	288.93	1,916.55	1,680.01	1,652.97	27.04	62.126		
7,600.00	7,576.26	7,632.44	7,576.26	13.09	14.53	89.60	288.93	1,916.55	1,680.01	1,652.84	27.17	61.832		
7,700.00	7,676.26	7,732.44	7,676.26	13.18	14.57	89.60	288.93	1,916.55	1,680.01	1,652.71	27.30	61.540		
7,800.00	7,776.26	7,832.44	7,776.26	13.27	14.61	89.60	288.93	1,916.55	1,680.01	1,652.58	27.43	61.250		
7,900.00	7,876.26	7,932.44	7,876.26	13.36	14.65	89.60	288.93	1,916.55	1,680.01	1,652.45	27.56	60.963		
8,000.00	7,976.26	8,032.44	7,976.26	13.45	14.69	89.60	288.93	1,916.55	1,680.01	1,652.32	27.69	60.678		
8,100.00	8,076.26	8,132.44	8,076.26	13.54	14.73	89.60	288.93	1,916.55	1,680.01	1,652.19	27.82	60.394		
8,200.00	8,176.26	8,232.44	8,176.26	13.63	14.77	89.60	288.93	1,916.55	1,680.01	1,652.06	27.95	60.113		
8,300.00	8,276.26	8,332.44	8,276.26	13.72	14.82	89.60	288.93	1,916.55	1,680.01	1,651.93	28.08	59.834		
8,400.00	8,376.26	8,432.44	8,376.26	13.81	14.86	89.60	288.93	1,916.55	1,680.01	1,651.80	28.21	59.557		
8,500.00	8,476.26	8,532.44	8,476.26	13.90	14.90	89.60	288.93	1,916.55	1,680.01	1,651.67	28.34	59.283		
8,600.00	8,576.26	8,632.44	8,576.26	13.99	14.94	89.60	288.93	1,916.55	1,680.01	1,651.54	28.47	59.010		
8,700.00	8,676.26	8,732.44	8,676.26	14.08	14.99	89.60	288.93	1,916.55	1,680.01	1,651.41	28.60	58.739		
8,800.00	8,776.26	8,832.44	8,776.26	14.17	15.03	89.60	288.93	1,916.55	1,680.01	1,651.28	28.73	58.470		
8,900.00	8,876.26	8,932.44	8,876.26	14.26	15.07	89.60	288.93	1,916.55	1,680.01	1,651.15	28.86	58.203		
9,000.00	8,976.26	9,032.44	8,976.26	14.35	15.12	89.60	288.93	1,916.55	1,680.01	1,651.01	29.00	57.939		
9,100.00	9,076.26	9,132.44	9,076.26	14.44	15.16	89.60	288.93	1,916.55	1,680.01	1,650.88	29.13	57.676		
9,200.00	9,176.26	9,232.44	9,176.26	14.53	15.21	89.60	288.93	1,916.55	1,680.01	1,650.75	29.26	57.415		
9,300.00	9,276.26	9,332.44	9,276.26	14.62	15.25	89.60	288.93	1,916.55	1,680.01	1,650.62	29.39	57.156		
9,400.00	9,376.26	9,432.44	9,376.26	14.71	15.30	89.60	288.93	1,916.55	1,680.01	1,650.48	29.53	56.899		
9,500.00	9,476.26	9,532.44	9,476.26	14.80	15.34	89.60	288.93	1,916.55	1,680.01	1,650.35	29.66	56.643		
9,600.00	9,576.26	9,632.44	9,576.26	14.89	15.39	89.60	288.93	1,916.55	1,680.01	1,650.22	29.79	56.390		
9,700.00	9,676.26	9,732.44	9,676.26	14.97	15.43	89.60	288.93	1,916.55	1,680.01	1,650.08	29.93	56.138		
9,800.00	9,776.26	9,832.44	9,776.26	15.06	15.48	89.60	288.93	1,916.55	1,680.01	1,649.95	30.06	55.889		
9,900.00	9,876.26	9,932.44	9,876.26	15.15	15.53	89.60	288.93	1,916.55	1,680.01	1,649.82	30.19	55.641		
10,000.00	9,976.26	10,032.44	9,976.26	15.24	15.58	89.60	288.93	1,916.55	1,680.01	1,649.68	30.33	55.395		
10,100.00	10,076.26	10,132.44	10,076.26	15.33	15.62	89.60	288.93	1,916.55	1,680.01	1,649.55	30.46	55.150		
10,200.00	10,176.26	10,232.44	10,176.26	15.42	15.67	89.60	288.93	1,916.55	1,680.01	1,649.41	30.60	54.908		

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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)				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error: 0.50 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,300.00	10,276.26	10,332.44	10,276.26	15.51	15.72	89.60	288.93	1,916.55	1,680.01	1,649.28	30.73	54.667			
10,400.00	10,376.26	10,432.44	10,376.26	15.59	15.77	89.60	288.93	1,916.55	1,680.01	1,649.14	30.87	54.428			
10,500.00	10,476.26	10,532.44	10,476.26	15.68	15.82	89.60	288.93	1,916.55	1,680.01	1,649.01	31.00	54.190			
10,600.00	10,576.26	10,632.44	10,576.26	15.77	15.87	89.60	288.93	1,916.55	1,680.01	1,648.87	31.14	53.954			
10,700.00	10,676.26	10,732.44	10,676.26	15.86	15.92	89.60	288.93	1,916.55	1,680.01	1,648.74	31.27	53.720			
10,800.00	10,776.26	10,832.44	10,776.26	15.95	15.97	89.60	288.93	1,916.55	1,680.01	1,648.60	31.41	53.488			
10,900.00	10,876.26	10,932.44	10,876.26	16.04	16.02	89.60	288.93	1,916.55	1,680.01	1,648.47	31.55	53.257			
11,000.00	10,976.26	11,032.44	10,976.26	16.12	16.07	89.60	288.93	1,916.55	1,680.01	1,648.33	31.68	53.028			
11,100.00	11,076.26	11,132.44	11,076.26	16.21	16.12	89.60	288.93	1,916.55	1,680.01	1,648.19	31.82	52.801			
11,200.00	11,176.26	11,232.44	11,176.26	16.30	16.17	89.60	288.93	1,916.55	1,680.01	1,648.06	31.95	52.575			
11,300.00	11,276.26	11,332.44	11,276.26	16.39	16.22	89.60	288.93	1,916.55	1,680.01	1,647.92	32.09	52.350			
11,400.00	11,376.26	11,432.44	11,376.26	16.48	16.27	89.60	288.93	1,916.55	1,680.01	1,647.78	32.23	52.128			
11,500.00	11,476.26	11,532.44	11,476.26	16.56	16.32	89.60	288.93	1,916.55	1,680.01	1,647.65	32.36	51.920			
11,600.00	11,576.26	11,641.62	11,585.08	16.65	16.45	89.84	281.97	1,916.34	1,679.79	1,647.27	32.51	51.666			
11,700.00	11,676.26	11,746.86	11,686.95	16.74	16.71	90.72	256.19	1,915.55	1,679.14	1,646.35	32.78	51.218			
11,780.94	11,757.19	11,823.39	11,757.19	16.81	16.94	91.75	225.96	1,914.63	1,678.83	1,645.75	33.08	50.756	CC		
11,800.00	11,776.26	11,840.10	11,771.95	16.83	16.99	92.02	218.13	1,914.39	1,678.85	1,645.70	33.15	50.644			
11,900.00	11,876.26	11,919.29	11,838.50	16.91	17.29	93.48	175.35	1,913.08	1,680.02	1,646.44	33.58	50.037			
12,000.00	11,976.24	11,985.53	11,889.20	16.97	17.60	-84.45	132.79	1,911.78	1,683.58	1,649.57	34.01	49.505			
12,100.00	12,075.06	12,050.00	11,933.50	17.02	17.97	-82.58	86.03	1,910.35	1,688.79	1,654.37	34.42	49.070			
12,200.00	12,169.87	12,100.00	11,964.08	17.06	18.29	-81.03	46.51	1,909.14	1,694.78	1,659.98	34.80	48.703			
12,300.00	12,257.78	12,165.91	11,998.91	17.11	18.78	-79.31	-9.37	1,907.44	1,700.90	1,665.58	35.33	48.146			
12,400.00	12,336.13	12,223.74	12,024.02	17.16	19.25	-77.90	-61.42	1,905.85	1,706.66	1,670.79	35.87	47.575			
12,500.00	12,402.54	12,280.90	12,043.54	17.22	19.76	-76.71	-115.09	1,904.21	1,711.53	1,675.05	36.48	46.914			
12,600.00	12,454.98	12,337.56	12,057.53	17.28	20.29	-75.80	-169.95	1,902.53	1,715.10	1,677.94	37.16	46.155			
12,700.00	12,491.87	12,400.00	12,066.58	17.37	20.90	-75.14	-231.67	1,900.64	1,717.08	1,679.12	37.96	45.237			
12,800.00	12,512.08	12,448.18	12,068.94	17.49	21.38	-74.89	-279.76	1,899.17	1,717.17	1,678.48	38.69	44.381			
12,900.00	12,516.27	12,513.40	12,069.40	17.67	22.06	-74.89	-344.96	1,897.93	1,715.43	1,675.82	39.61	43.305			
12,974.61	12,516.92	12,561.66	12,069.74	17.85	22.57	-74.88	-393.22	1,897.96	1,714.88	1,674.51	40.37	42.481			
13,000.00	12,517.14	12,585.50	12,069.90	17.92	22.82	-74.88	-417.06	1,898.17	1,714.90	1,674.20	40.70	42.137			
13,100.00	12,518.02	12,685.50	12,070.60	18.29	23.90	-74.88	-517.06	1,899.08	1,714.99	1,672.82	42.17	40.668			
13,200.00	12,518.89	12,785.50	12,071.30	18.77	25.01	-74.87	-617.05	1,899.99	1,715.08	1,671.33	43.76	39.197			
13,300.00	12,519.76	12,885.50	12,072.00	19.37	26.14	-74.87	-717.04	1,900.89	1,715.17	1,669.73	45.44	37.744			
13,400.00	12,520.64	12,985.50	12,072.70	20.06	27.30	-74.86	-817.04	1,901.80	1,715.26	1,668.04	47.22	36.325			
13,500.00	12,521.51	13,085.50	12,073.39	20.83	28.47	-74.86	-917.03	1,902.71	1,715.35	1,666.27	49.08	34.951			
13,600.00	12,522.38	13,185.50	12,074.09	21.67	29.66	-74.85	-1,017.02	1,903.61	1,715.44	1,664.43	51.01	33.629			
13,700.00	12,523.26	13,285.50	12,074.79	22.56	30.87	-74.85	-1,117.02	1,904.52	1,715.53	1,662.52	53.01	32.364			
13,800.00	12,524.13	13,385.50	12,075.49	23.51	32.08	-74.84	-1,217.01	1,905.43	1,715.62	1,660.56	55.06	31.158			
13,900.00	12,525.00	13,485.50	12,076.19	24.50	33.31	-74.84	-1,317.00	1,906.33	1,715.71	1,658.54	57.17	30.011			
14,000.00	12,525.88	13,585.50	12,076.89	25.53	34.55	-74.83	-1,417.00	1,907.24	1,715.80	1,656.48	59.32	28.924			
14,100.00	12,526.75	13,685.50	12,077.58	26.59	35.80	-74.82	-1,516.99	1,908.15	1,715.89	1,654.38	61.52	27.894			
14,200.00	12,527.62	13,785.50	12,078.28	27.67	37.05	-74.82	-1,616.98	1,909.05	1,715.98	1,652.24	63.75	26.919			
14,300.00	12,528.50	13,885.50	12,078.98	28.79	38.32	-74.81	-1,716.98	1,909.96	1,716.07	1,650.06	66.01	25.998			
14,400.00	12,529.37	13,985.50	12,079.68	29.92	39.59	-74.81	-1,816.97	1,910.87	1,716.16	1,647.86	68.30	25.126			
14,500.00	12,530.24	14,085.50	12,080.38	31.07	40.86	-74.80	-1,916.96	1,911.77	1,716.25	1,645.63	70.62	24.303			
14,600.00	12,531.12	14,185.50	12,081.07	32.25	42.14	-74.80	-2,016.96	1,912.68	1,716.34	1,643.38	72.96	23.524			
14,700.00	12,531.99	14,285.50	12,081.77	33.43	43.43	-74.79	-2,116.95	1,913.59	1,716.43	1,641.11	75.33	22.787			
14,800.00	12,532.87	14,385.50	12,082.47	34.63	44.72	-74.79	-2,216.94	1,914.50	1,716.52	1,638.81	77.71	22.089			
14,900.00	12,533.74	14,485.50	12,083.17	35.85	46.02	-74.78	-2,316.94	1,915.40	1,716.61	1,636.50	80.11	21.428			
15,000.00	12,534.61	14,585.50	12,083.87	37.07	47.32	-74.78	-2,416.93	1,916.31	1,716.70	1,634.17	82.53	20.802			
15,100.00	12,535.49	14,685.50	12,084.57	38.30	48.62	-74.77	-2,516.92	1,917.22	1,716.79	1,631.83	84.96	20.207			
15,200.00	12,536.36	14,785.50	12,085.26	39.55	49.93	-74.77	-2,616.92	1,918.12	1,716.88	1,629.48	87.40	19.643			

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 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:			Offset Well Error:		0.50 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
15,300.00	12,537.23	14,885.50	12,085.96	40.80	51.24	-74.76	-2,716.91	1,919.03	1,716.97	1,627.11	89.86	19.107
15,400.00	12,538.11	14,985.50	12,086.66	42.06	52.56	-74.76	-2,816.90	1,919.94	1,717.06	1,624.73	92.33	18.597
15,500.00	12,538.98	15,085.50	12,087.36	43.32	53.87	-74.75	-2,916.90	1,920.84	1,717.15	1,622.35	94.81	18.112
15,600.00	12,539.85	15,185.50	12,088.06	44.59	55.19	-74.75	-3,016.89	1,921.75	1,717.24	1,619.95	97.29	17.650
15,700.00	12,540.73	15,285.50	12,088.76	45.87	56.51	-74.74	-3,116.88	1,922.66	1,717.33	1,617.54	99.79	17.209
15,800.00	12,541.60	15,385.50	12,089.45	47.16	57.83	-74.74	-3,216.88	1,923.56	1,717.42	1,615.13	102.30	16.789
15,900.00	12,542.47	15,485.50	12,090.15	48.44	59.16	-74.73	-3,316.87	1,924.47	1,717.52	1,612.71	104.81	16.387
16,000.00	12,543.35	15,585.50	12,090.85	49.73	60.49	-74.73	-3,416.86	1,925.38	1,717.61	1,610.28	107.33	16.004
16,100.00	12,544.22	15,685.50	12,091.55	51.03	61.82	-74.72	-3,516.85	1,926.28	1,717.70	1,607.85	109.85	15.637
16,200.00	12,545.09	15,785.50	12,092.25	52.33	63.15	-74.71	-3,616.85	1,927.19	1,717.79	1,605.41	112.38	15.285
16,300.00	12,545.97	15,885.50	12,092.95	53.63	64.48	-74.71	-3,716.84	1,928.10	1,717.88	1,602.96	114.92	14.949
16,400.00	12,546.84	15,985.50	12,093.64	54.94	65.81	-74.70	-3,816.83	1,929.00	1,717.97	1,600.51	117.46	14.626
16,500.00	12,547.71	16,085.50	12,094.34	56.25	67.15	-74.70	-3,916.83	1,929.91	1,718.06	1,598.05	120.00	14.317
16,600.00	12,548.59	16,185.50	12,095.04	57.56	68.48	-74.69	-4,016.82	1,930.82	1,718.15	1,595.59	122.56	14.019
16,700.00	12,549.46	16,285.50	12,095.74	58.88	69.82	-74.69	-4,116.81	1,931.72	1,718.24	1,593.13	125.11	13.734
16,800.00	12,550.33	16,385.50	12,096.44	60.20	71.16	-74.68	-4,216.81	1,932.63	1,718.33	1,590.66	127.67	13.459
16,900.00	12,551.21	16,485.50	12,097.13	61.52	72.50	-74.68	-4,316.80	1,933.54	1,718.42	1,588.19	130.23	13.195
17,000.00	12,552.08	16,585.50	12,097.83	62.84	73.84	-74.67	-4,416.79	1,934.45	1,718.51	1,585.71	132.80	12.941
17,100.00	12,552.95	16,685.50	12,098.53	64.16	75.18	-74.67	-4,516.79	1,935.35	1,718.60	1,583.23	135.37	12.696
17,200.00	12,553.83	16,785.50	12,099.23	65.49	76.53	-74.66	-4,616.78	1,936.26	1,718.69	1,580.75	137.94	12.460
17,300.00	12,554.70	16,885.50	12,099.93	66.82	77.87	-74.66	-4,716.77	1,937.17	1,718.78	1,578.27	140.51	12.232
17,400.00	12,555.57	16,985.50	12,100.63	68.14	79.22	-74.65	-4,816.77	1,938.07	1,718.87	1,575.78	143.09	12.013
17,500.00	12,556.45	17,085.50	12,101.32	69.48	80.56	-74.65	-4,916.76	1,938.98	1,718.96	1,573.29	145.67	11.800
17,600.00	12,557.32	17,185.50	12,102.02	70.81	81.91	-74.64	-5,016.75	1,939.89	1,719.05	1,570.80	148.25	11.595
17,700.00	12,558.19	17,285.50	12,102.72	72.14	83.26	-74.64	-5,116.75	1,940.79	1,719.14	1,568.31	150.84	11.397
17,800.00	12,559.07	17,385.50	12,103.42	73.48	84.60	-74.63	-5,216.74	1,941.70	1,719.23	1,565.81	153.42	11.206
17,900.00	12,559.94	17,485.50	12,104.12	74.81	85.95	-74.63	-5,316.73	1,942.61	1,719.32	1,563.31	156.01	11.020
18,000.00	12,560.81	17,585.50	12,104.82	76.15	87.30	-74.62	-5,416.73	1,943.51	1,719.42	1,560.81	158.60	10.841
18,100.00	12,561.69	17,685.49	12,105.51	77.49	88.65	-74.62	-5,516.72	1,944.42	1,719.51	1,558.31	161.20	10.667
18,200.00	12,562.56	17,785.49	12,106.21	78.83	90.00	-74.61	-5,616.71	1,945.33	1,719.60	1,555.81	163.79	10.499
18,300.00	12,563.43	17,885.49	12,106.91	80.17	91.35	-74.61	-5,716.71	1,946.23	1,719.69	1,553.30	166.39	10.335
18,400.00	12,564.31	17,985.49	12,107.61	81.51	92.70	-74.60	-5,816.70	1,947.14	1,719.78	1,550.79	168.98	10.177
18,500.00	12,565.18	18,085.49	12,108.31	82.86	94.06	-74.59	-5,916.69	1,948.05	1,719.87	1,548.28	171.58	10.023
18,600.00	12,566.05	18,185.49	12,109.00	84.20	95.41	-74.59	-6,016.69	1,948.95	1,719.96	1,545.77	174.18	9.874
18,700.00	12,566.93	18,285.49	12,109.70	85.54	96.76	-74.58	-6,116.68	1,949.86	1,720.05	1,543.26	176.79	9.730
18,800.00	12,567.80	18,385.49	12,110.40	86.89	98.12	-74.58	-6,216.67	1,950.77	1,720.14	1,540.75	179.39	9.589
18,900.00	12,568.67	18,485.49	12,111.10	88.24	99.47	-74.57	-6,316.67	1,951.67	1,720.23	1,538.24	181.99	9.452
19,000.00	12,569.55	18,585.49	12,111.80	89.58	100.82	-74.57	-6,416.66	1,952.58	1,720.32	1,535.72	184.60	9.319
19,100.00	12,570.42	18,685.49	12,112.50	90.93	102.18	-74.56	-6,516.65	1,953.49	1,720.41	1,533.21	187.21	9.190
19,200.00	12,571.29	18,785.49	12,113.19	92.28	103.53	-74.56	-6,616.65	1,954.39	1,720.50	1,530.69	189.81	9.064
19,300.00	12,572.17	18,885.49	12,113.89	93.63	104.89	-74.55	-6,716.64	1,955.30	1,720.59	1,528.17	192.42	8.942
19,400.00	12,573.04	18,985.49	12,114.59	94.98	106.24	-74.55	-6,816.63	1,956.21	1,720.69	1,525.65	195.03	8.823
19,500.00	12,573.91	19,085.49	12,115.29	96.33	107.60	-74.54	-6,916.63	1,957.12	1,720.78	1,523.13	197.64	8.707
19,600.00	12,574.79	19,185.49	12,115.99	97.68	108.96	-74.54	-7,016.62	1,958.02	1,720.87	1,520.61	200.25	8.593
19,700.00	12,575.66	19,285.49	12,116.69	99.03	110.31	-74.53	-7,116.61	1,958.93	1,720.96	1,518.09	202.87	8.483
19,800.00	12,576.54	19,385.49	12,117.38	100.38	111.67	-74.53	-7,216.61	1,959.84	1,721.05	1,515.57	205.48	8.376
19,900.00	12,577.41	19,485.49	12,118.08	101.73	113.03	-74.52	-7,316.60	1,960.74	1,721.14	1,513.05	208.09	8.271
20,000.00	12,578.28	19,585.49	12,118.78	103.08	114.39	-74.52	-7,416.59	1,961.65	1,721.23	1,510.52	210.71	8.169
20,100.00	12,579.16	19,685.49	12,119.48	104.44	115.74	-74.51	-7,516.59	1,962.56	1,721.32	1,508.00	213.32	8.069
20,200.00	12,580.03	19,785.49	12,120.18	105.79	117.10	-74.51	-7,616.58	1,963.46	1,721.41	1,505.47	215.94	7.972
20,300.00	12,580.90	19,885.49	12,120.87	107.14	118.46	-74.50	-7,716.57	1,964.37	1,721.50	1,502.95	218.55	7.877
20,400.00	12,581.78	19,985.49	12,121.57	108.50	119.82	-74.50	-7,816.57	1,965.28	1,721.59	1,500.42	221.17	7.784

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)													Offset Site Error: 0.00 usft	
Reference Offset Semi Major Axis													Offset Well Error: 0.50 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
20,500.00	12,582.65	20,085.49	12,122.27	109.85	121.18	-74.49	-7,916.56	1,966.18	1,721.69	1,497.90	223.79	7.693		
20,600.00	12,583.52	20,185.49	12,122.97	111.21	122.54	-74.49	-8,016.55	1,967.09	1,721.78	1,495.37	226.41	7.605		
20,700.00	12,584.40	20,285.49	12,123.67	112.56	123.90	-74.48	-8,116.55	1,968.00	1,721.87	1,492.84	229.03	7.518		
20,800.00	12,585.27	20,385.49	12,124.37	113.92	125.26	-74.47	-8,216.54	1,968.90	1,721.96	1,490.31	231.65	7.434		
20,900.00	12,586.14	20,485.49	12,125.06	115.27	126.62	-74.47	-8,316.53	1,969.81	1,722.05	1,487.78	234.27	7.351		
21,000.00	12,587.02	20,585.49	12,125.76	116.63	127.98	-74.46	-8,416.53	1,970.72	1,722.14	1,485.26	236.89	7.270		
21,100.00	12,587.89	20,685.49	12,126.46	117.99	129.34	-74.46	-8,516.52	1,971.62	1,722.23	1,482.73	239.51	7.191		
21,200.00	12,588.76	20,785.49	12,127.16	119.34	130.70	-74.45	-8,616.51	1,972.53	1,722.32	1,480.20	242.13	7.113		
21,300.00	12,589.64	20,885.49	12,127.86	120.70	132.06	-74.45	-8,716.51	1,973.44	1,722.41	1,477.67	244.75	7.037		
21,400.00	12,590.51	20,985.49	12,128.56	122.06	133.42	-74.44	-8,816.50	1,974.34	1,722.51	1,475.13	247.37	6.963		
21,500.00	12,591.38	21,085.49	12,129.25	123.42	134.78	-74.44	-8,916.49	1,975.25	1,722.60	1,472.60	249.99	6.891		
21,600.00	12,592.26	21,185.49	12,129.95	124.77	136.14	-74.43	-9,016.49	1,976.16	1,722.69	1,470.07	252.62	6.819		
21,700.00	12,593.13	21,285.49	12,130.65	126.13	137.50	-74.43	-9,116.48	1,977.07	1,722.78	1,467.54	255.24	6.750		
21,800.00	12,594.00	21,385.49	12,131.35	127.49	138.87	-74.42	-9,216.47	1,977.97	1,722.87	1,465.01	257.86	6.681		
21,900.00	12,594.88	21,485.49	12,132.05	128.85	140.23	-74.42	-9,316.47	1,978.88	1,722.96	1,462.48	260.49	6.614		
22,000.00	12,595.75	21,585.49	12,132.75	130.21	141.59	-74.41	-9,416.46	1,979.79	1,723.05	1,459.94	263.11	6.549		
22,100.00	12,596.62	21,685.49	12,133.44	131.57	142.95	-74.41	-9,516.45	1,980.69	1,723.14	1,457.41	265.73	6.484		
22,200.00	12,597.50	21,785.49	12,134.14	132.93	144.31	-74.40	-9,616.45	1,981.60	1,723.23	1,454.88	268.36	6.421		
22,300.00	12,598.37	21,885.49	12,134.84	134.29	145.68	-74.40	-9,716.44	1,982.51	1,723.33	1,452.34	270.98	6.360		
22,400.00	12,599.24	21,985.49	12,135.54	135.65	147.04	-74.39	-9,816.43	1,983.41	1,723.42	1,449.81	273.61	6.299		
22,500.00	12,600.12	22,085.49	12,136.24	137.01	148.40	-74.39	-9,916.43	1,984.32	1,723.51	1,447.27	276.23	6.239		
22,600.00	12,600.99	22,185.49	12,136.93	138.37	149.76	-74.38	-10,016.42	1,985.23	1,723.60	1,444.74	278.86	6.181		
22,700.00	12,601.86	22,285.49	12,137.63	139.73	151.13	-74.38	-10,116.41	1,986.13	1,723.69	1,442.21	281.49	6.124		
22,796.26	12,602.70	22,381.08	12,138.30	141.04	152.43	-74.37	-10,212.00	1,987.00	1,723.78	1,439.78	284.00	6.070	ES, SF	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:					Offset Well Error:		0.50 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	1.00	0.00	0.50	0.50	72.73	721.00	2,319.00	2,428.50					
100.00	100.00	101.00	100.00	0.98	0.99	72.73	721.00	2,319.00	2,428.50	2,426.53	1.97	1,234.212		
200.00	200.00	201.00	200.00	1.56	1.57	72.73	721.00	2,319.00	2,428.50	2,425.37	3.13	776.771		
300.00	300.00	301.00	300.00	1.98	1.98	72.73	721.00	2,319.00	2,428.50	2,424.53	3.97	612.363		
400.00	400.00	401.00	400.00	2.33	2.33	72.73	721.00	2,319.00	2,428.50	2,423.84	4.66	520.927		
500.00	500.00	501.00	500.00	2.63	2.64	72.73	721.00	2,319.00	2,428.50	2,423.23	5.27	460.660		
600.00	600.00	601.00	600.00	2.91	2.91	72.73	721.00	2,319.00	2,428.50	2,422.68	5.82	417.077		
700.00	700.00	701.00	700.00	3.16	3.17	72.73	721.00	2,319.00	2,428.50	2,422.17	6.33	383.651		
800.00	800.00	801.00	800.00	3.40	3.40	72.73	721.00	2,319.00	2,428.50	2,421.69	6.80	356.953		
900.00	900.00	901.00	900.00	3.62	3.63	72.73	721.00	2,319.00	2,428.50	2,421.25	7.25	334.980		
1,000.00	1,000.00	1,001.00	1,000.00	3.84	3.84	72.73	721.00	2,319.00	2,428.50	2,420.82	7.67	316.479		
1,100.00	1,100.00	1,101.00	1,100.00	4.04	4.04	72.73	721.00	2,319.00	2,428.50	2,420.42	8.08	300.617		
1,200.00	1,200.00	1,201.00	1,200.00	4.23	4.23	72.73	721.00	2,319.00	2,428.50	2,420.03	8.47	286.817		
1,300.00	1,300.00	1,301.00	1,300.00	4.42	4.42	72.73	721.00	2,319.00	2,428.50	2,419.66	8.84	274.694		
1,400.00	1,400.00	1,412.86	1,411.86	4.60	4.52	72.74	720.48	2,319.00	2,428.37	2,419.26	9.12	266.387		
1,500.00	1,500.00	1,535.99	1,534.91	4.78	4.75	72.83	716.47	2,319.00	2,427.41	2,417.94	9.47	256.381		
1,600.00	1,600.00	1,658.73	1,657.39	4.95	4.95	73.01	708.53	2,319.00	2,425.50	2,415.71	9.79	247.748		
1,700.00	1,700.00	1,735.74	1,734.11	5.11	5.04	73.17	701.78	2,319.34	2,423.43	2,413.38	10.05	241.243		
1,798.07	1,798.07	1,800.00	1,798.07	5.27	5.13	73.31	695.74	2,320.69	2,422.74	2,412.42	10.32	234.844		
1,800.00	1,800.00	1,800.00	1,798.07	5.28	5.13	73.31	695.74	2,320.69	2,422.74	2,412.42	10.32	234.773		
1,900.00	1,900.00	1,866.62	1,864.31	5.44	5.24	73.48	689.12	2,323.17	2,423.49	2,412.91	10.58	229.038		
2,000.00	2,000.00	1,931.83	1,929.07	5.59	5.34	73.66	682.29	2,326.67	2,425.69	2,414.85	10.84	223.796		
2,100.00	2,100.00	2,008.56	2,005.13	5.74	5.47	73.88	673.83	2,332.14	2,429.38	2,418.27	11.12	218.543		
2,200.00	2,200.00	2,089.68	2,085.46	5.89	5.59	74.14	664.62	2,338.69	2,433.99	2,422.62	11.37	214.047		
2,300.00	2,299.99	2,188.65	2,183.47	6.07	5.74	33.95	653.39	2,346.68	2,437.64	2,425.96	11.69	208.570		
2,400.00	2,399.91	2,287.47	2,281.32	6.24	5.89	34.29	642.18	2,354.66	2,439.22	2,427.21	12.00	203.228		
2,500.00	2,499.69	2,386.06	2,378.95	6.42	6.05	34.68	631.00	2,362.62	2,438.73	2,426.41	12.32	197.966		
2,600.00	2,599.27	2,484.35	2,476.29	6.59	6.21	35.13	619.85	2,370.55	2,436.22	2,423.58	12.64	192.786		
2,700.00	2,698.57	2,582.29	2,573.27	6.76	6.37	35.62	608.74	2,378.46	2,431.71	2,418.76	12.96	187.678		
2,800.00	2,797.62	2,679.91	2,669.94	6.85	6.53	36.12	597.66	2,386.34	2,425.73	2,412.52	13.20	183.706		
2,900.00	2,896.65	2,777.50	2,766.58	7.00	6.70	36.60	586.59	2,394.22	2,419.80	2,406.29	13.51	179.078		
3,000.00	2,995.68	2,875.09	2,863.22	7.15	6.86	37.09	575.52	2,402.10	2,414.06	2,400.24	13.82	174.616		
3,100.00	3,094.70	2,972.68	2,959.86	7.30	7.03	37.58	564.45	2,409.98	2,408.51	2,394.36	14.14	170.316		
3,200.00	3,193.73	3,070.27	3,056.50	7.46	7.20	38.08	553.38	2,417.86	2,403.14	2,388.67	14.46	166.173		
3,300.00	3,292.76	3,167.86	3,153.14	7.61	7.37	38.57	542.31	2,425.74	2,397.95	2,383.17	14.79	162.185		
3,400.00	3,391.78	3,265.45	3,249.78	7.77	7.54	39.07	531.24	2,433.62	2,392.95	2,377.84	15.11	158.346		
3,500.00	3,490.81	3,363.04	3,346.42	7.93	7.71	39.57	520.17	2,441.50	2,388.15	2,372.70	15.44	154.652		
3,600.00	3,589.84	3,460.64	3,443.06	8.09	7.88	40.07	509.10	2,449.37	2,383.53	2,367.75	15.77	151.097		
3,700.00	3,688.87	3,558.23	3,539.70	8.25	8.06	40.57	498.02	2,457.25	2,379.10	2,362.99	16.11	147.677		
3,800.00	3,787.89	3,655.82	3,636.34	8.42	8.23	41.08	486.95	2,465.13	2,374.87	2,358.42	16.45	144.386		
3,900.00	3,886.92	3,753.41	3,732.98	8.58	8.41	41.58	475.88	2,473.01	2,370.82	2,354.04	16.79	141.220		
4,000.00	3,985.95	3,851.00	3,829.62	8.75	8.59	42.09	464.81	2,480.89	2,366.98	2,349.85	17.13	138.173		
4,100.00	4,084.98	3,948.59	3,926.26	8.92	8.77	42.60	453.74	2,488.77	2,363.32	2,345.85	17.47	135.241		
4,200.00	4,184.00	4,046.18	4,022.90	9.09	8.95	43.11	442.67	2,496.65	2,359.87	2,342.05	17.82	132.420		
4,300.00	4,283.03	4,143.77	4,119.54	9.26	9.13	43.62	431.60	2,504.53	2,356.61	2,338.44	18.17	129.704		
4,400.00	4,382.06	4,241.37	4,216.18	9.43	9.32	44.13	420.53	2,512.41	2,353.55	2,335.03	18.52	127.089		
4,500.00	4,481.09	4,338.96	4,312.82	9.60	9.50	44.65	409.45	2,520.29	2,350.68	2,331.81	18.87	124.572		
4,600.00	4,580.11	4,436.55	4,409.47	9.77	9.69	45.16	398.38	2,528.17	2,348.02	2,328.80	19.22	122.148		
4,700.00	4,679.14	4,534.14	4,506.11	9.95	9.87	45.68	387.31	2,536.05	2,345.56	2,325.98	19.58	119.813		
4,800.00	4,778.17	4,631.73	4,602.75	10.12	10.06	46.20	376.24	2,543.93	2,343.29	2,323.36	19.93	117.563		
4,900.00	4,877.31	4,729.46	4,699.53	10.28	10.25	46.69	365.15	2,551.82	2,341.82	2,321.56	20.26	115.565		
4,925.72	4,902.86	4,754.67	4,724.48	10.33	10.30	46.81	362.29	2,553.85	2,341.76	2,321.40	20.36	115.042	CC	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:				Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
5,000.00	4,976.75	4,827.58	4,796.69	10.47	10.44	47.16	354.02	2,559.74	2,342.30	2,321.68	20.62	113.591
5,100.00	5,076.44	4,926.03	4,894.18	10.65	10.63	47.60	342.85	2,567.69	2,344.69	2,323.73	20.97	111.825
5,200.00	5,176.30	5,024.74	4,991.92	10.82	10.82	48.02	331.66	2,575.66	2,348.97	2,327.67	21.30	110.271
5,300.00	5,276.26	5,141.46	5,107.56	10.98	11.03	48.47	318.69	2,584.89	2,354.96	2,333.31	21.65	108.784
5,400.00	5,376.26	5,294.86	5,260.08	11.05	11.29	89.31	305.43	2,594.32	2,360.77	2,338.79	21.98	107.395
5,500.00	5,476.26	5,449.35	5,414.22	11.15	11.50	89.52	297.13	2,600.23	2,364.55	2,342.25	22.30	106.024
5,600.00	5,576.26	5,604.41	5,569.22	11.24	11.69	89.60	293.91	2,602.52	2,366.01	2,343.44	22.57	104.820
5,700.00	5,676.26	5,711.45	5,676.26	11.33	11.73	89.60	293.87	2,602.55	2,366.03	2,343.33	22.69	104.256
5,800.00	5,776.26	5,811.45	5,776.26	11.43	11.78	89.60	293.87	2,602.55	2,366.03	2,343.19	22.84	103.612
5,900.00	5,876.26	5,911.45	5,876.26	11.52	11.83	89.60	293.87	2,602.55	2,366.03	2,343.05	22.98	102.975
6,000.00	5,976.26	6,011.45	5,976.26	11.61	11.88	89.60	293.87	2,602.55	2,366.03	2,342.91	23.12	102.344
6,100.00	6,076.26	6,111.45	6,076.26	11.71	11.94	89.60	293.87	2,602.55	2,366.03	2,342.77	23.26	101.721
6,200.00	6,176.26	6,211.45	6,176.26	11.80	11.99	89.60	293.87	2,602.55	2,366.03	2,342.63	23.40	101.104
6,300.00	6,276.26	6,311.45	6,276.26	11.89	12.05	89.60	293.87	2,602.55	2,366.03	2,342.48	23.54	100.494
6,400.00	6,376.26	6,411.45	6,376.26	11.99	12.10	89.60	293.87	2,602.55	2,366.03	2,342.34	23.69	99.891
6,500.00	6,476.26	6,511.45	6,476.26	12.08	12.15	89.60	293.87	2,602.55	2,366.03	2,342.20	23.83	99.294
6,600.00	6,576.26	6,611.45	6,576.26	12.17	12.21	89.60	293.87	2,602.55	2,366.03	2,342.06	23.97	98.703
6,700.00	6,676.26	6,711.45	6,676.26	12.26	12.27	89.60	293.87	2,602.55	2,366.03	2,341.91	24.11	98.119
6,800.00	6,776.26	6,811.45	6,776.26	12.35	12.32	89.60	293.87	2,602.55	2,366.03	2,341.77	24.26	97.540
6,900.00	6,876.26	6,911.45	6,876.26	12.45	12.38	89.60	293.87	2,602.55	2,366.03	2,341.63	24.40	96.968
7,000.00	6,976.26	7,011.45	6,976.26	12.54	12.43	89.60	293.87	2,602.55	2,366.03	2,341.49	24.54	96.402
7,100.00	7,076.26	7,111.45	7,076.26	12.63	12.49	89.60	293.87	2,602.55	2,366.03	2,341.34	24.69	95.841
7,200.00	7,176.26	7,211.45	7,176.26	12.72	12.55	89.60	293.87	2,602.55	2,366.03	2,341.20	24.83	95.287
7,300.00	7,276.26	7,311.45	7,276.26	12.81	12.60	89.60	293.87	2,602.55	2,366.03	2,341.05	24.97	94.738
7,400.00	7,376.26	7,411.45	7,376.26	12.90	12.66	89.60	293.87	2,602.55	2,366.03	2,340.91	25.12	94.194
7,500.00	7,476.26	7,511.45	7,476.26	13.00	12.72	89.60	293.87	2,602.55	2,366.03	2,340.77	25.26	93.657
7,600.00	7,576.26	7,611.45	7,576.26	13.09	12.78	89.60	293.87	2,602.55	2,366.03	2,340.62	25.41	93.124
7,700.00	7,676.26	7,711.45	7,676.26	13.18	12.83	89.60	293.87	2,602.55	2,366.03	2,340.48	25.55	92.597
7,800.00	7,776.26	7,811.45	7,776.26	13.27	12.89	89.60	293.87	2,602.55	2,366.03	2,340.33	25.70	92.076
7,900.00	7,876.26	7,911.45	7,876.26	13.36	12.95	89.60	293.87	2,602.55	2,366.03	2,340.19	25.84	91.559
8,000.00	7,976.26	8,011.45	7,976.26	13.45	13.01	89.60	293.87	2,602.55	2,366.03	2,340.04	25.99	91.048
8,100.00	8,076.26	8,111.45	8,076.26	13.54	13.07	89.60	293.87	2,602.55	2,366.03	2,339.90	26.13	90.542
8,200.00	8,176.26	8,211.45	8,176.26	13.63	13.13	89.60	293.87	2,602.55	2,366.03	2,339.75	26.28	90.041
8,300.00	8,276.26	8,311.45	8,276.26	13.72	13.19	89.60	293.87	2,602.55	2,366.03	2,339.61	26.42	89.545
8,400.00	8,376.26	8,411.45	8,376.26	13.81	13.25	89.60	293.87	2,602.55	2,366.03	2,339.46	26.57	89.053
8,500.00	8,476.26	8,511.45	8,476.26	13.90	13.31	89.60	293.87	2,602.55	2,366.03	2,339.31	26.71	88.567
8,600.00	8,576.26	8,611.45	8,576.26	13.99	13.37	89.60	293.87	2,602.55	2,366.03	2,339.17	26.86	88.085
8,700.00	8,676.26	8,711.45	8,676.26	14.08	13.43	89.60	293.87	2,602.55	2,366.03	2,339.02	27.01	87.608
8,800.00	8,776.26	8,811.45	8,776.26	14.17	13.49	89.60	293.87	2,602.55	2,366.03	2,338.88	27.15	87.136
8,900.00	8,876.26	8,911.45	8,876.26	14.26	13.55	89.60	293.87	2,602.55	2,366.03	2,338.73	27.30	86.668
9,000.00	8,976.26	9,011.45	8,976.26	14.35	13.61	89.60	293.87	2,602.55	2,366.03	2,338.58	27.45	86.205
9,100.00	9,076.26	9,111.45	9,076.26	14.44	13.67	89.60	293.87	2,602.55	2,366.03	2,338.44	27.59	85.746
9,200.00	9,176.26	9,211.45	9,176.26	14.53	13.73	89.60	293.87	2,602.55	2,366.03	2,338.29	27.74	85.291
9,300.00	9,276.26	9,311.45	9,276.26	14.62	13.80	89.60	293.87	2,602.55	2,366.03	2,338.14	27.89	84.841
9,400.00	9,376.26	9,411.45	9,376.26	14.71	13.86	89.60	293.87	2,602.55	2,366.03	2,337.99	28.04	84.395
9,500.00	9,476.26	9,511.45	9,476.26	14.80	13.92	89.60	293.87	2,602.55	2,366.03	2,337.85	28.18	83.954
9,600.00	9,576.26	9,611.45	9,576.26	14.89	13.98	89.60	293.87	2,602.55	2,366.03	2,337.70	28.33	83.516
9,700.00	9,676.26	9,711.45	9,676.26	14.97	14.04	89.60	293.87	2,602.55	2,366.03	2,337.55	28.48	83.083
9,800.00	9,776.26	9,811.45	9,776.26	15.06	14.11	89.60	293.87	2,602.55	2,366.03	2,337.40	28.63	82.653
9,900.00	9,876.26	9,911.45	9,876.26	15.15	14.17	89.60	293.87	2,602.55	2,366.03	2,337.25	28.77	82.228
10,000.00	9,976.26	10,011.45	9,976.26	15.24	14.23	89.60	293.87	2,602.55	2,366.03	2,337.11	28.92	81.807
10,100.00	10,076.26	10,111.45	10,076.26	15.33	14.30	89.60	293.87	2,602.55	2,366.03	2,336.96	29.07	81.389

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:		0.00 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Offset Well Error:		0.50 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,200.00	10,176.26	10,211.45	10,176.26	15.42	14.36	89.60	293.87	2,602.55	2,366.03	2,336.81	29.22	80.975			
10,300.00	10,276.26	10,311.45	10,276.26	15.51	14.42	89.60	293.87	2,602.55	2,366.03	2,336.66	29.37	80.565			
10,400.00	10,376.26	10,411.45	10,376.26	15.59	14.49	89.60	293.87	2,602.55	2,366.03	2,336.51	29.52	80.159			
10,500.00	10,476.26	10,511.45	10,476.26	15.68	14.55	89.60	293.87	2,602.55	2,366.03	2,336.36	29.67	79.757			
10,600.00	10,576.26	10,611.45	10,576.26	15.77	14.62	89.60	293.87	2,602.55	2,366.03	2,336.21	29.81	79.358			
10,700.00	10,676.26	10,711.45	10,676.26	15.86	14.68	89.60	293.87	2,602.55	2,366.03	2,336.06	29.96	78.963			
10,800.00	10,776.26	10,811.45	10,776.26	15.95	14.75	89.60	293.87	2,602.55	2,366.03	2,335.92	30.11	78.572			
10,900.00	10,876.26	10,911.45	10,876.26	16.04	14.81	89.60	293.87	2,602.55	2,366.03	2,335.77	30.26	78.184			
11,000.00	10,976.26	11,011.45	10,976.26	16.12	14.87	89.60	293.87	2,602.55	2,366.03	2,335.62	30.41	77.799			
11,100.00	11,076.26	11,111.45	11,076.26	16.21	14.94	89.60	293.87	2,602.55	2,366.03	2,335.47	30.56	77.418			
11,200.00	11,176.26	11,211.45	11,176.26	16.30	15.01	89.60	293.87	2,602.55	2,366.03	2,335.32	30.71	77.040			
11,300.00	11,276.26	11,311.45	11,276.26	16.39	15.07	89.60	293.87	2,602.55	2,366.03	2,335.17	30.86	76.666			
11,400.00	11,376.26	11,411.45	11,376.26	16.48	15.14	89.60	293.87	2,602.55	2,366.03	2,335.02	31.01	76.293			
11,415.55	11,391.80	11,426.99	11,391.80	16.49	15.15	89.60	293.87	2,602.55	2,366.03	2,334.99	31.04	76.234			
11,500.00	11,476.26	11,511.42	11,476.23	16.56	15.21	89.60	293.86	2,602.55	2,366.03	2,334.86	31.17	75.913			
11,600.00	11,576.26	11,609.51	11,573.79	16.65	15.38	89.81	284.94	2,602.63	2,366.07	2,334.76	31.31	75.575			
11,700.00	11,676.26	11,701.99	11,663.13	16.74	15.59	90.38	261.41	2,602.85	2,366.35	2,334.84	31.51	75.089			
11,800.00	11,776.26	11,785.11	11,739.26	16.83	15.79	91.19	228.25	2,603.15	2,367.36	2,335.58	31.78	74.485			
11,900.00	11,876.26	11,857.30	11,800.91	16.91	15.97	92.09	190.77	2,603.49	2,369.68	2,337.59	32.09	73.835			
12,000.00	11,976.24	11,919.20	11,849.66	16.97	16.13	-86.35	152.67	2,603.83	2,373.85	2,341.44	32.41	73.248			
12,100.00	12,075.06	11,977.70	11,891.70	17.02	16.32	-84.98	112.03	2,604.20	2,379.30	2,346.63	32.67	72.837			
12,200.00	12,169.87	12,035.13	11,928.73	17.06	16.56	-83.65	68.18	2,604.60	2,385.39	2,352.44	32.95	72.402			
12,300.00	12,257.78	12,100.00	11,965.05	17.11	16.92	-82.33	14.46	2,605.09	2,391.67	2,358.37	33.30	71.814			
12,400.00	12,336.13	12,150.00	11,988.76	17.16	17.25	-81.28	-29.54	2,605.49	2,397.65	2,363.99	33.66	71.233			
12,500.00	12,402.54	12,200.00	12,008.55	17.22	17.62	-80.38	-75.44	2,605.91	2,403.00	2,368.90	34.09	70.486			
12,600.00	12,454.98	12,250.00	12,024.26	17.28	18.02	-79.66	-122.88	2,606.34	2,407.39	2,372.77	34.62	69.542			
12,700.00	12,491.87	12,313.87	12,038.21	17.37	18.56	-79.10	-185.17	2,606.90	2,410.49	2,375.15	35.34	68.205			
12,800.00	12,512.08	12,368.85	12,044.61	17.49	19.06	-78.81	-239.76	2,607.40	2,412.21	2,376.10	36.12	66.792			
12,900.00	12,516.27	12,439.87	12,046.19	17.67	19.74	-78.76	-310.74	2,608.04	2,412.55	2,375.44	37.11	65.004			
13,000.00	12,517.14	12,539.87	12,046.89	17.92	20.73	-78.76	-410.74	2,608.95	2,412.64	2,374.15	38.48	62.693			
13,100.00	12,518.02	12,639.87	12,047.59	18.29	21.77	-78.76	-510.73	2,609.86	2,412.72	2,372.73	39.99	60.340			
13,200.00	12,518.89	12,739.87	12,048.29	18.77	22.84	-78.75	-610.72	2,610.77	2,412.80	2,371.19	41.61	57.990			
13,300.00	12,519.76	12,839.87	12,048.99	19.37	23.94	-78.75	-710.72	2,611.68	2,412.88	2,369.54	43.34	55.679			
13,400.00	12,520.64	12,939.87	12,049.69	20.06	25.07	-78.75	-810.71	2,612.59	2,412.96	2,367.80	45.16	53.432			
13,500.00	12,521.51	13,039.87	12,050.39	20.83	26.22	-78.74	-910.70	2,613.50	2,413.04	2,365.97	47.07	51.267			
13,600.00	12,522.38	13,139.87	12,051.09	21.67	27.39	-78.74	-1,010.70	2,614.41	2,413.12	2,364.07	49.05	49.195			
13,700.00	12,523.26	13,239.87	12,051.79	22.56	28.58	-78.73	-1,110.69	2,615.31	2,413.20	2,362.10	51.10	47.222			
13,800.00	12,524.13	13,339.87	12,052.49	23.51	29.78	-78.73	-1,210.68	2,616.22	2,413.28	2,360.07	53.21	45.351			
13,900.00	12,525.00	13,439.87	12,053.18	24.50	30.99	-78.73	-1,310.68	2,617.13	2,413.36	2,357.99	55.38	43.582			
14,000.00	12,525.88	13,539.87	12,053.88	25.53	32.22	-78.72	-1,410.67	2,618.04	2,413.44	2,355.86	57.58	41.912			
14,100.00	12,526.75	13,639.87	12,054.58	26.59	33.46	-78.72	-1,510.66	2,618.95	2,413.53	2,353.69	59.83	40.338			
14,200.00	12,527.62	13,739.87	12,055.28	27.67	34.71	-78.71	-1,610.66	2,619.86	2,413.61	2,351.49	62.12	38.855			
14,300.00	12,528.50	13,839.87	12,055.98	28.79	35.97	-78.71	-1,710.65	2,620.77	2,413.69	2,349.25	64.44	37.458			
14,400.00	12,529.37	13,939.87	12,056.68	29.92	37.23	-78.71	-1,810.64	2,621.68	2,413.77	2,346.98	66.79	36.142			
14,500.00	12,530.24	14,039.87	12,057.38	31.07	38.51	-78.70	-1,910.64	2,622.58	2,413.85	2,344.69	69.16	34.903			
14,600.00	12,531.12	14,139.87	12,058.08	32.25	39.78	-78.70	-2,010.63	2,623.49	2,413.93	2,342.37	71.56	33.735			
14,700.00	12,531.99	14,239.87	12,058.78	33.43	41.07	-78.70	-2,110.62	2,624.40	2,414.01	2,340.04	73.97	32.633			
14,800.00	12,532.87	14,339.87	12,059.48	34.63	42.36	-78.69	-2,210.62	2,625.31	2,414.09	2,337.68	76.41	31.594			
14,900.00	12,533.74	14,439.87	12,060.18	35.85	43.65	-78.69	-2,310.61	2,626.22	2,414.17	2,335.31	78.86	30.612			
15,000.00	12,534.61	14,539.87	12,060.88	37.07	44.95	-78.68	-2,410.60	2,627.13	2,414.25	2,332.92	81.33	29.683			
15,100.00	12,535.49	14,639.87	12,061.57	38.30	46.26	-78.68	-2,510.59	2,628.04	2,414.33	2,330.52	83.82	28.805			
15,200.00	12,536.36	14,739.87	12,062.27	39.55	47.56	-78.68	-2,610.59	2,628.95	2,414.42	2,328.10	86.31	27.972			

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)		Rule Assigned:							Offset Well Error:		0.50 usft		
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,300.00	12,537.23	14,839.87	12,062.97	40.80	48.87	-78.67	-2,710.58	2,629.85	2,414.50	2,325.67	88.82	27.183	
15,400.00	12,538.11	14,939.87	12,063.67	42.06	50.19	-78.67	-2,810.57	2,630.76	2,414.58	2,323.24	91.34	26.435	
15,500.00	12,538.98	15,039.87	12,064.37	43.32	51.50	-78.66	-2,910.57	2,631.67	2,414.66	2,320.79	93.87	25.724	
15,600.00	12,539.85	15,139.87	12,065.07	44.59	52.82	-78.66	-3,010.56	2,632.58	2,414.74	2,318.33	96.41	25.047	
15,700.00	12,540.73	15,239.86	12,065.77	45.87	54.14	-78.66	-3,110.55	2,633.49	2,414.82	2,315.87	98.95	24.404	
15,800.00	12,541.60	15,339.86	12,066.47	47.16	55.47	-78.65	-3,210.55	2,634.40	2,414.90	2,313.40	101.51	23.791	
15,900.00	12,542.47	15,439.86	12,067.17	48.44	56.79	-78.65	-3,310.54	2,635.31	2,414.98	2,310.92	104.07	23.206	
16,000.00	12,543.35	15,539.86	12,067.87	49.73	58.12	-78.65	-3,410.53	2,636.22	2,415.06	2,308.43	106.63	22.648	
16,100.00	12,544.22	15,639.86	12,068.57	51.03	59.45	-78.64	-3,510.53	2,637.12	2,415.15	2,305.94	109.21	22.115	
16,200.00	12,545.09	15,739.86	12,069.26	52.33	60.78	-78.64	-3,610.52	2,638.03	2,415.23	2,303.44	111.79	21.606	
16,300.00	12,545.97	15,839.86	12,069.96	53.63	62.11	-78.63	-3,710.51	2,638.94	2,415.31	2,300.94	114.37	21.118	
16,400.00	12,546.84	15,939.86	12,070.66	54.94	63.45	-78.63	-3,810.51	2,639.85	2,415.39	2,298.43	116.96	20.651	
16,500.00	12,547.71	16,039.86	12,071.36	56.25	64.78	-78.63	-3,910.50	2,640.76	2,415.47	2,295.92	119.55	20.204	
16,600.00	12,548.59	16,139.86	12,072.06	57.56	66.12	-78.62	-4,010.49	2,641.67	2,415.55	2,293.40	122.15	19.775	
16,700.00	12,549.46	16,239.86	12,072.76	58.88	67.46	-78.62	-4,110.49	2,642.58	2,415.63	2,290.88	124.75	19.363	
16,800.00	12,550.33	16,339.86	12,073.46	60.20	68.80	-78.61	-4,210.48	2,643.49	2,415.71	2,288.36	127.36	18.968	
16,900.00	12,551.21	16,439.86	12,074.16	61.52	70.14	-78.61	-4,310.47	2,644.39	2,415.80	2,285.83	129.97	18.588	
17,000.00	12,552.08	16,539.86	12,074.86	62.84	71.48	-78.61	-4,410.47	2,645.30	2,415.88	2,283.30	132.58	18.222	
17,100.00	12,552.95	16,639.86	12,075.56	64.16	72.83	-78.60	-4,510.46	2,646.21	2,415.96	2,280.76	135.19	17.870	
17,200.00	12,553.83	16,739.86	12,076.26	65.49	74.17	-78.60	-4,610.45	2,647.12	2,416.04	2,278.23	137.81	17.531	
17,300.00	12,554.70	16,839.86	12,076.96	66.82	75.51	-78.60	-4,710.45	2,648.03	2,416.12	2,275.69	140.43	17.205	
17,400.00	12,555.57	16,939.86	12,077.65	68.14	76.86	-78.59	-4,810.44	2,648.94	2,416.20	2,273.14	143.06	16.890	
17,500.00	12,556.45	17,039.86	12,078.35	69.48	78.21	-78.59	-4,910.43	2,649.85	2,416.28	2,270.60	145.68	16.586	
17,600.00	12,557.32	17,139.86	12,079.05	70.81	79.55	-78.58	-5,010.43	2,650.76	2,416.36	2,268.05	148.31	16.293	
17,700.00	12,558.19	17,239.86	12,079.75	72.14	80.90	-78.58	-5,110.42	2,651.66	2,416.45	2,265.50	150.94	16.009	
17,800.00	12,559.07	17,339.86	12,080.45	73.48	82.25	-78.58	-5,210.41	2,652.57	2,416.53	2,262.95	153.57	15.735	
17,900.00	12,559.94	17,439.86	12,081.15	74.81	83.60	-78.57	-5,310.41	2,653.48	2,416.61	2,260.40	156.21	15.470	
18,000.00	12,560.81	17,539.86	12,081.85	76.15	84.95	-78.57	-5,410.40	2,654.39	2,416.69	2,257.85	158.84	15.214	
18,100.00	12,561.69	17,639.86	12,082.55	77.49	86.30	-78.56	-5,510.39	2,655.30	2,416.77	2,255.29	161.48	14.966	
18,200.00	12,562.56	17,739.86	12,083.25	78.83	87.65	-78.56	-5,610.39	2,656.21	2,416.85	2,252.73	164.12	14.726	
18,300.00	12,563.43	17,839.86	12,083.95	80.17	89.01	-78.56	-5,710.38	2,657.12	2,416.93	2,250.17	166.76	14.493	
18,400.00	12,564.31	17,939.86	12,084.65	81.51	90.36	-78.55	-5,810.37	2,658.03	2,417.01	2,247.61	169.40	14.268	
18,500.00	12,565.18	18,039.86	12,085.35	82.86	91.71	-78.55	-5,910.37	2,658.93	2,417.10	2,245.05	172.05	14.049	
18,600.00	12,566.05	18,139.86	12,086.04	84.20	93.06	-78.55	-6,010.36	2,659.84	2,417.18	2,242.48	174.69	13.837	
18,700.00	12,566.93	18,239.86	12,086.74	85.54	94.42	-78.54	-6,110.35	2,660.75	2,417.26	2,239.92	177.34	13.631	
18,800.00	12,567.80	18,339.86	12,087.44	86.89	95.77	-78.54	-6,210.35	2,661.66	2,417.34	2,237.35	179.99	13.431	
18,900.00	12,568.67	18,439.86	12,088.14	88.24	97.13	-78.53	-6,310.34	2,662.57	2,417.42	2,234.78	182.64	13.236	
19,000.00	12,569.55	18,539.86	12,088.84	89.58	98.48	-78.53	-6,410.33	2,663.48	2,417.50	2,232.22	185.29	13.047	
19,100.00	12,570.42	18,639.86	12,089.54	90.93	99.84	-78.53	-6,510.33	2,664.39	2,417.58	2,229.65	187.94	12.864	
19,200.00	12,571.29	18,739.86	12,090.24	92.28	101.19	-78.52	-6,610.32	2,665.30	2,417.67	2,227.08	190.59	12.685	
19,300.00	12,572.17	18,839.86	12,090.94	93.63	102.55	-78.52	-6,710.31	2,666.20	2,417.75	2,224.50	193.24	12.511	
19,400.00	12,573.04	18,939.86	12,091.64	94.98	103.91	-78.52	-6,810.31	2,667.11	2,417.83	2,221.93	195.90	12.342	
19,500.00	12,573.91	19,039.86	12,092.34	96.33	105.27	-78.51	-6,910.30	2,668.02	2,417.91	2,219.36	198.55	12.178	
19,600.00	12,574.79	19,139.86	12,093.04	97.68	106.62	-78.51	-7,010.29	2,668.93	2,417.99	2,216.78	201.21	12.017	
19,700.00	12,575.66	19,239.86	12,093.73	99.03	107.98	-78.50	-7,110.29	2,669.84	2,418.07	2,214.21	203.86	11.861	
19,800.00	12,576.54	19,339.86	12,094.43	100.38	109.34	-78.50	-7,210.28	2,670.75	2,418.16	2,211.63	206.52	11.709	
19,900.00	12,577.41	19,439.86	12,095.13	101.73	110.70	-78.50	-7,310.27	2,671.66	2,418.24	2,209.06	209.18	11.561	
20,000.00	12,578.28	19,539.86	12,095.83	103.08	112.05	-78.49	-7,410.26	2,672.57	2,418.32	2,206.48	211.84	11.416	
20,100.00	12,579.16	19,639.86	12,096.53	104.44	113.41	-78.49	-7,510.26	2,673.47	2,418.40	2,203.90	214.50	11.275	
20,200.00	12,580.03	19,739.86	12,097.23	105.79	114.77	-78.48	-7,610.25	2,674.38	2,418.48	2,201.32	217.16	11.137	
20,300.00	12,580.90	19,839.86	12,097.93	107.14	116.13	-78.48	-7,710.24	2,675.29	2,418.56	2,198.74	219.82	11.002	
20,400.00	12,581.78	19,939.86	12,098.63	108.50	117.49	-78.48	-7,810.24	2,676.20	2,418.64	2,196.16	222.48	10.871	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:				Offset Well Error:		0.50 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
20,500.00	12,582.65	20,039.86	12,099.33	109.85	118.85	-78.47	-7,910.23	2,677.11	2,418.73	2,193.58	225.14	10.743	
20,600.00	12,583.52	20,139.86	12,100.03	111.21	120.21	-78.47	-8,010.22	2,678.02	2,418.81	2,191.00	227.81	10.618	
20,700.00	12,584.40	20,239.86	12,100.73	112.56	121.57	-78.47	-8,110.22	2,678.93	2,418.89	2,188.42	230.47	10.496	
20,800.00	12,585.27	20,339.86	12,101.43	113.92	122.93	-78.46	-8,210.21	2,679.84	2,418.97	2,185.84	233.13	10.376	
20,900.00	12,586.14	20,439.86	12,102.12	115.27	124.29	-78.46	-8,310.20	2,680.74	2,419.05	2,183.26	235.80	10.259	
21,000.00	12,587.02	20,539.86	12,102.82	116.63	125.65	-78.45	-8,410.20	2,681.65	2,419.13	2,180.67	238.46	10.145	
21,100.00	12,587.89	20,639.86	12,103.52	117.99	127.01	-78.45	-8,510.19	2,682.56	2,419.22	2,178.09	241.13	10.033	
21,200.00	12,588.76	20,739.86	12,104.22	119.34	128.38	-78.45	-8,610.18	2,683.47	2,419.30	2,175.51	243.79	9.924	
21,300.00	12,589.64	20,839.86	12,104.92	120.70	129.74	-78.44	-8,710.18	2,684.38	2,419.38	2,172.92	246.46	9.817	
21,400.00	12,590.51	20,939.86	12,105.62	122.06	131.10	-78.44	-8,810.17	2,685.29	2,419.46	2,170.34	249.12	9.712	
21,500.00	12,591.38	21,039.86	12,106.32	123.42	132.46	-78.44	-8,910.16	2,686.20	2,419.54	2,167.75	251.79	9.609	
21,600.00	12,592.26	21,139.86	12,107.02	124.77	133.82	-78.43	-9,010.16	2,687.10	2,419.62	2,165.17	254.46	9.509	
21,700.00	12,593.13	21,239.86	12,107.72	126.13	135.18	-78.43	-9,110.15	2,688.01	2,419.71	2,162.58	257.12	9.411	
21,800.00	12,594.00	21,339.86	12,108.42	127.49	136.55	-78.42	-9,210.14	2,688.92	2,419.79	2,160.00	259.79	9.314	
21,900.00	12,594.88	21,439.86	12,109.12	128.85	137.91	-78.42	-9,310.14	2,689.83	2,419.87	2,157.41	262.46	9.220	
22,000.00	12,595.75	21,539.85	12,109.81	130.21	139.27	-78.42	-9,410.13	2,690.74	2,419.95	2,154.82	265.13	9.127	
22,100.00	12,596.62	21,639.85	12,110.51	131.57	140.63	-78.41	-9,510.12	2,691.65	2,420.03	2,152.24	267.80	9.037	
22,200.00	12,597.50	21,739.85	12,111.21	132.93	142.00	-78.41	-9,610.12	2,692.56	2,420.12	2,149.65	270.47	8.948	
22,300.00	12,598.37	21,839.85	12,111.91	134.29	143.36	-78.40	-9,710.11	2,693.47	2,420.20	2,147.06	273.14	8.861	
22,400.00	12,599.24	21,939.85	12,112.61	135.65	144.72	-78.40	-9,810.10	2,694.37	2,420.28	2,144.47	275.81	8.775	
22,500.00	12,600.12	22,039.85	12,113.31	137.01	146.09	-78.40	-9,910.10	2,695.28	2,420.36	2,141.89	278.48	8.691	
22,600.00	12,600.99	22,139.85	12,114.01	138.37	147.45	-78.39	-10,010.09	2,696.19	2,420.44	2,139.30	281.15	8.609	
22,700.00	12,601.86	22,239.85	12,114.71	139.73	148.81	-78.39	-10,110.08	2,697.10	2,420.52	2,136.71	283.82	8.528	
22,796.26	12,602.70	22,336.11	12,115.38	141.04	150.12	-78.39	-10,206.34	2,697.98	2,420.60	2,134.22	286.38	8.452	ES, SF

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)							Rule Assigned:					Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre			Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
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	600.00	600.00	2.91	2.91	172.30	-185.00	25.00	186.68	180.86	5.82	32.075		
700.00	700.00	700.00	700.00	3.16	3.16	172.30	-185.00	25.00	186.68	180.35	6.33	29.503		
800.00	800.00	800.00	800.00	3.40	3.40	172.30	-185.00	25.00	186.68	179.88	6.80	27.448		
900.00	900.00	904.98	904.97	3.62	3.69	172.40	-183.65	24.50	185.34	178.03	7.31	25.349		
1,000.00	1,000.00	1,009.35	1,009.25	3.84	3.96	172.70	-179.63	23.02	181.33	173.55	7.79	23.291		
1,100.00	1,100.00	1,109.22	1,108.98	4.04	4.17	173.08	-174.72	21.21	176.24	168.05	8.19	21.515		
1,200.00	1,200.00	1,209.08	1,208.70	4.23	4.36	173.48	-169.82	19.41	171.15	162.57	8.58	19.956		
1,300.00	1,300.00	1,311.51	1,310.97	4.42	4.48	173.96	-164.33	17.38	165.61	156.73	8.88	18.650		
1,400.00	1,400.00	1,415.44	1,414.54	4.60	4.73	174.72	-156.35	14.44	157.69	148.39	9.30	16.961		
1,500.00	1,500.00	1,518.82	1,517.31	4.78	4.96	175.86	-145.79	10.55	147.19	137.52	9.68	15.213		
1,600.00	1,600.00	1,619.14	1,616.78	4.95	5.09	177.40	-133.62	6.06	134.81	124.84	9.97	13.525		
1,700.00	1,700.00	1,718.29	1,715.08	5.11	5.28	179.25	-121.48	1.59	122.42	112.10	10.33	11.854		
1,800.00	1,800.00	1,817.43	1,813.38	5.28	5.48	-178.49	-109.34	-2.89	110.19	99.51	10.68	10.316		
1,900.00	1,900.00	1,916.57	1,911.67	5.44	5.67	-175.67	-97.20	-7.36	98.17	87.14	11.03	8.901		
2,000.00	2,000.00	2,015.72	2,009.97	5.59	5.87	-172.07	-85.05	-11.84	86.45	75.08	11.37	7.603		
2,100.00	2,100.00	2,114.86	2,108.26	5.74	6.06	-167.39	-72.91	-16.32	75.17	63.47	11.70	6.424		
2,200.00	2,200.00	2,214.01	2,206.56	5.89	6.25	-161.11	-60.77	-20.79	64.56	52.54	12.02	5.371		
2,300.00	2,299.99	2,313.22	2,304.93	6.07	6.45	167.32	-48.61	-25.27	56.28	43.93	12.35	4.557		
2,400.00	2,399.91	2,412.54	2,403.39	6.24	6.64	178.88	-36.45	-29.76	52.40	39.74	12.66	4.139		
2,427.82	2,427.68	2,440.17	2,430.79	6.29	6.69	-177.67	-33.07	-31.00	52.21	39.46	12.75	4.095	CC, ES	
2,500.00	2,499.69	2,511.89	2,501.89	6.42	6.83	-168.91	-24.28	-34.24	53.52	40.55	12.97	4.126		
2,600.00	2,599.27	2,611.20	2,600.35	6.59	7.03	-158.60	-12.12	-38.72	59.36	46.07	13.28	4.468		
2,700.00	2,698.57	2,710.40	2,698.71	6.76	7.22	-151.35	0.03	-43.20	69.03	55.43	13.61	5.073		
2,800.00	2,797.62	2,809.48	2,796.94	6.85	7.41	-146.76	12.17	-47.68	81.21	67.34	13.87	5.857		
2,900.00	2,896.65	2,908.55	2,895.16	7.00	7.60	-143.45	24.30	-52.15	93.87	79.68	14.18	6.618		
3,000.00	2,995.68	3,007.62	2,993.38	7.15	7.80	-140.93	36.43	-56.62	106.77	92.26	14.51	7.359		
3,100.00	3,094.70	3,106.69	3,091.60	7.30	7.99	-138.96	48.57	-61.10	119.82	104.99	14.83	8.077		
3,200.00	3,193.73	3,205.75	3,189.82	7.46	8.18	-137.37	60.70	-65.57	132.99	117.83	15.17	8.769		
3,300.00	3,292.76	3,304.82	3,288.04	7.61	8.37	-136.07	72.83	-70.04	146.24	130.74	15.50	9.436		
3,400.00	3,391.78	3,403.89	3,386.26	7.77	8.57	-134.99	84.97	-74.51	159.56	143.72	15.83	10.077		
3,500.00	3,490.81	3,502.96	3,484.48	7.93	8.76	-134.07	97.10	-78.99	172.92	156.74	16.17	10.693		
3,600.00	3,589.84	3,602.03	3,582.71	8.09	8.95	-133.29	109.24	-83.46	186.31	169.80	16.51	11.285		
3,700.00	3,688.87	3,701.10	3,680.93	8.25	9.14	-132.61	121.37	-87.93	199.74	182.89	16.85	11.853		
3,800.00	3,787.89	3,800.17	3,779.15	8.42	9.33	-132.02	133.50	-92.40	213.19	196.00	17.19	12.400		
3,900.00	3,886.92	3,899.23	3,877.37	8.58	9.53	-131.49	145.64	-96.88	226.66	209.13	17.54	12.925		
4,000.00	3,985.95	3,998.30	3,975.59	8.75	9.72	-131.03	157.77	-101.35	240.15	222.27	17.88	13.430		
4,100.00	4,084.98	4,097.37	4,073.81	8.92	9.91	-130.61	169.90	-105.82	253.65	235.42	18.23	13.915		
4,200.00	4,184.00	4,196.44	4,172.03	9.09	10.10	-130.24	182.04	-110.30	267.16	248.59	18.58	14.382		
4,300.00	4,283.03	4,295.51	4,270.25	9.26	10.29	-129.90	194.17	-114.77	280.69	261.76	18.92	14.832		
4,400.00	4,382.06	4,394.58	4,368.47	9.43	10.48	-129.60	206.31	-119.24	294.22	274.95	19.27	15.265		
4,500.00	4,481.09	4,493.65	4,466.69	9.60	10.68	-129.32	218.44	-123.71	307.76	288.13	19.62	15.682		
4,600.00	4,580.11	4,592.71	4,564.91	9.77	10.87	-129.06	230.57	-128.19	321.30	301.33	19.98	16.085		
4,700.00	4,679.14	4,691.78	4,663.13	9.95	11.06	-128.83	242.71	-132.66	334.86	314.53	20.33	16.471		
4,800.00	4,778.17	4,793.93	4,764.54	10.12	11.27	-128.77	254.19	-136.89	348.02	327.33	20.69	16.824		
4,900.00	4,877.31	4,896.71	4,866.88	10.28	11.48	-129.13	263.19	-140.21	359.67	338.67	21.00	17.126		
5,000.00	4,976.75	4,999.83	4,969.76	10.47	11.67	-129.55	269.61	-142.58	368.75	347.43	21.32	17.295		

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: Reference		0-MWD+HRGM+SAG+FDIR (rev.5) Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre			Rule Assigned: Distance		Separation Factor	Warning	Offset Well Error: 0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
5,100.00	5,076.44	5,103.17	5,073.01	10.65	11.86	-130.00	273.44	-143.99	375.21	353.60	21.61	17.364		
5,200.00	5,176.30	5,206.46	5,176.30	10.82	12.00	-130.50	274.64	-144.43	379.05	357.19	21.86	17.340		
5,300.00	5,276.26	5,306.42	5,276.26	10.98	12.09	-130.82	274.64	-144.43	380.79	358.71	22.08	17.246		
5,400.00	5,376.26	5,406.42	5,376.26	11.05	12.17	-90.39	274.64	-144.43	381.02	358.79	22.23	17.140		
5,500.00	5,476.26	5,506.42	5,476.26	11.15	12.26	-90.39	274.64	-144.43	381.02	358.61	22.41	17.001		
5,600.00	5,576.26	5,606.42	5,576.26	11.24	12.35	-90.39	274.64	-144.43	381.02	358.42	22.59	16.863		
5,700.00	5,676.26	5,706.42	5,676.26	11.33	12.44	-90.39	274.64	-144.43	381.02	358.24	22.78	16.728		
5,800.00	5,776.26	5,806.42	5,776.26	11.43	12.52	-90.39	274.64	-144.43	381.02	358.06	22.96	16.596		
5,900.00	5,876.26	5,906.42	5,876.26	11.52	12.61	-90.39	274.64	-144.43	381.02	357.88	23.14	16.466		
6,000.00	5,976.26	6,006.42	5,976.26	11.61	12.70	-90.39	274.64	-144.43	381.02	357.70	23.32	16.338		
6,100.00	6,076.26	6,106.42	6,076.26	11.71	12.79	-90.39	274.64	-144.43	381.02	357.52	23.50	16.212		
6,200.00	6,176.26	6,206.42	6,176.26	11.80	12.87	-90.39	274.64	-144.43	381.02	357.34	23.68	16.088		
6,300.00	6,276.26	6,306.42	6,276.26	11.89	12.96	-90.39	274.64	-144.43	381.02	357.15	23.86	15.966		
6,400.00	6,376.26	6,406.42	6,376.26	11.99	13.05	-90.39	274.64	-144.43	381.02	356.97	24.04	15.847		
6,500.00	6,476.26	6,506.42	6,476.26	12.08	13.13	-90.39	274.64	-144.43	381.02	356.79	24.22	15.729		
6,600.00	6,576.26	6,606.42	6,576.26	12.17	13.22	-90.39	274.64	-144.43	381.02	356.61	24.40	15.613		
6,700.00	6,676.26	6,706.42	6,676.26	12.26	13.31	-90.39	274.64	-144.43	381.02	356.44	24.58	15.499		
6,800.00	6,776.26	6,806.42	6,776.26	12.35	13.40	-90.39	274.64	-144.43	381.02	356.26	24.76	15.387		
6,900.00	6,876.26	6,906.42	6,876.26	12.45	13.48	-90.39	274.64	-144.43	381.02	356.08	24.94	15.276		
7,000.00	6,976.26	7,006.42	6,976.26	12.54	13.57	-90.39	274.64	-144.43	381.02	355.90	25.12	15.167		
7,100.00	7,076.26	7,106.42	7,076.26	12.63	13.66	-90.39	274.64	-144.43	381.02	355.72	25.30	15.060		
7,200.00	7,176.26	7,206.42	7,176.26	12.72	13.74	-90.39	274.64	-144.43	381.02	355.54	25.48	14.955		
7,300.00	7,276.26	7,306.42	7,276.26	12.81	13.83	-90.39	274.64	-144.43	381.02	355.36	25.66	14.851		
7,400.00	7,376.26	7,406.42	7,376.26	12.90	13.92	-90.39	274.64	-144.43	381.02	355.18	25.83	14.748		
7,500.00	7,476.26	7,506.42	7,476.26	13.00	14.00	-90.39	274.64	-144.43	381.02	355.01	26.01	14.647		
7,600.00	7,576.26	7,606.42	7,576.26	13.09	14.09	-90.39	274.64	-144.43	381.02	354.83	26.19	14.548		
7,700.00	7,676.26	7,706.42	7,676.26	13.18	14.17	-90.39	274.64	-144.43	381.02	354.65	26.37	14.450		
7,800.00	7,776.26	7,806.42	7,776.26	13.27	14.26	-90.39	274.64	-144.43	381.02	354.47	26.55	14.354		
7,900.00	7,876.26	7,906.42	7,876.26	13.36	14.35	-90.39	274.64	-144.43	381.02	354.30	26.72	14.259		
8,000.00	7,976.26	8,006.42	7,976.26	13.45	14.43	-90.39	274.64	-144.43	381.02	354.12	26.90	14.165		
8,100.00	8,076.26	8,106.42	8,076.26	13.54	14.52	-90.39	274.64	-144.43	381.02	353.94	27.08	14.072		
8,200.00	8,176.26	8,206.42	8,176.26	13.63	14.61	-90.39	274.64	-144.43	381.02	353.77	27.25	13.981		
8,300.00	8,276.26	8,306.42	8,276.26	13.72	14.69	-90.39	274.64	-144.43	381.02	353.59	27.43	13.891		
8,400.00	8,376.26	8,406.42	8,376.26	13.81	14.78	-90.39	274.64	-144.43	381.02	353.41	27.61	13.802		
8,500.00	8,476.26	8,506.42	8,476.26	13.90	14.86	-90.39	274.64	-144.43	381.02	353.24	27.78	13.715		
8,600.00	8,576.26	8,606.42	8,576.26	13.99	14.95	-90.39	274.64	-144.43	381.02	353.06	27.96	13.629		
8,700.00	8,676.26	8,706.42	8,676.26	14.08	15.04	-90.39	274.64	-144.43	381.02	352.89	28.13	13.543		
8,800.00	8,776.26	8,806.42	8,776.26	14.17	15.12	-90.39	274.64	-144.43	381.02	352.71	28.31	13.459		
8,900.00	8,876.26	8,906.42	8,876.26	14.26	15.21	-90.39	274.64	-144.43	381.02	352.53	28.48	13.377		
9,000.00	8,976.26	9,006.42	8,976.26	14.35	15.29	-90.39	274.64	-144.43	381.02	352.36	28.66	13.295		
9,100.00	9,076.26	9,106.42	9,076.26	14.44	15.38	-90.39	274.64	-144.43	381.02	352.18	28.83	13.214		
9,200.00	9,176.26	9,206.42	9,176.26	14.53	15.46	-90.39	274.64	-144.43	381.02	352.01	29.01	13.134		
9,300.00	9,276.26	9,306.42	9,276.26	14.62	15.55	-90.39	274.64	-144.43	381.02	351.83	29.18	13.055		
9,400.00	9,376.26	9,406.42	9,376.26	14.71	15.63	-90.39	274.64	-144.43	381.02	351.66	29.36	12.978		
9,500.00	9,476.26	9,506.42	9,476.26	14.80	15.72	-90.39	274.64	-144.43	381.02	351.48	29.53	12.901		
9,600.00	9,576.26	9,606.42	9,576.26	14.89	15.81	-90.39	274.64	-144.43	381.02	351.31	29.71	12.825		
9,700.00	9,676.26	9,706.42	9,676.26	14.97	15.89	-90.39	274.64	-144.43	381.02	351.14	29.88	12.750		
9,800.00	9,776.26	9,806.42	9,776.26	15.06	15.98	-90.39	274.64	-144.43	381.02	350.96	30.06	12.676		
9,900.00	9,876.26	9,906.42	9,876.26	15.15	16.06	-90.39	274.64	-144.43	381.02	350.79	30.23	12.603		
10,000.00	9,976.26	10,006.42	9,976.26	15.24	16.15	-90.39	274.64	-144.43	381.02	350.61	30.41	12.531		
10,100.00	10,076.26	10,106.42	10,076.26	15.33	16.23	-90.39	274.64	-144.43	381.02	350.44	30.58	12.460		
10,200.00	10,176.26	10,206.42	10,176.26	15.42	16.32	-90.39	274.64	-144.43	381.02	350.27	30.75	12.390		

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:				Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
10,300.00	10,276.26	10,306.42	10,276.26	15.51	16.40	-90.39	274.64	-144.43	381.02	350.09	30.93	12.320
10,400.00	10,376.26	10,406.42	10,376.26	15.59	16.49	-90.39	274.64	-144.43	381.02	349.92	31.10	12.251
10,500.00	10,476.26	10,506.42	10,476.26	15.68	16.57	-90.39	274.64	-144.43	381.02	349.75	31.27	12.183
10,600.00	10,576.26	10,606.42	10,576.26	15.77	16.66	-90.39	274.64	-144.43	381.02	349.57	31.45	12.116
10,700.00	10,676.26	10,706.42	10,676.26	15.86	16.74	-90.39	274.64	-144.43	381.02	349.40	31.62	12.050
10,800.00	10,776.26	10,806.42	10,776.26	15.95	16.83	-90.39	274.64	-144.43	381.02	349.23	31.79	11.984
10,900.00	10,876.26	10,906.42	10,876.26	16.04	16.91	-90.39	274.64	-144.43	381.02	349.05	31.97	11.919
11,000.00	10,976.26	11,006.42	10,976.26	16.12	17.00	-90.39	274.64	-144.43	381.02	348.88	32.14	11.855
11,100.00	11,076.26	11,106.42	11,076.26	16.21	17.08	-90.39	274.64	-144.43	381.02	348.71	32.31	11.792
11,200.00	11,176.26	11,206.42	11,176.26	16.30	17.17	-90.39	274.64	-144.43	381.02	348.53	32.48	11.729
11,300.00	11,276.26	11,306.42	11,276.26	16.39	17.25	-90.39	274.64	-144.43	381.02	348.36	32.66	11.667
11,400.00	11,376.26	11,406.42	11,376.26	16.48	17.34	-90.39	274.64	-144.43	381.02	348.19	32.83	11.606
11,500.00	11,476.26	11,506.42	11,476.26	16.56	17.42	-90.39	274.64	-144.43	381.02	348.02	33.00	11.546
11,600.00	11,576.26	11,606.43	11,576.26	16.65	17.48	-90.47	274.08	-144.43	381.02	347.88	33.14	11.497
11,602.86	11,579.12	11,609.29	11,579.12	16.65	17.48	-90.49	273.95	-144.42	381.02	347.88	33.14	11.497
11,700.00	11,676.26	11,704.62	11,673.51	16.74	17.51	-92.38	261.39	-144.32	381.24	348.09	33.15	11.502
11,800.00	11,776.26	11,796.02	11,760.86	16.83	17.52	-96.36	234.83	-144.09	383.33	350.19	33.14	11.568
11,900.00	11,876.26	11,877.29	11,834.12	16.91	17.52	-101.51	199.81	-143.79	390.45	357.13	33.32	11.718
12,000.00	11,976.24	11,950.00	11,894.88	16.97	17.53	72.85	159.97	-143.44	405.67	371.74	33.92	11.958
12,100.00	12,075.06	12,013.79	11,943.67	17.02	17.53	66.44	118.93	-143.09	426.53	391.46	35.07	12.163
12,200.00	12,169.87	12,077.84	11,987.77	17.06	17.53	60.67	72.52	-142.69	449.71	413.17	36.54	12.307
12,300.00	12,257.78	12,140.43	12,025.59	17.11	17.53	55.82	22.69	-142.26	473.02	434.81	38.21	12.379
12,400.00	12,336.13	12,200.00	12,056.34	17.16	17.53	51.95	-28.29	-141.82	494.77	454.83	39.95	12.386
12,500.00	12,402.54	12,262.63	12,082.78	17.22	17.54	48.84	-85.03	-141.33	513.68	472.19	41.49	12.382
12,600.00	12,454.98	12,322.74	12,102.20	17.28	17.55	46.61	-141.89	-140.84	528.82	485.95	42.87	12.336
12,700.00	12,491.87	12,382.46	12,115.48	17.37	17.57	45.13	-200.08	-140.34	539.57	495.58	43.99	12.267
12,800.00	12,512.08	12,450.00	12,123.11	17.49	17.60	44.31	-267.15	-139.77	545.60	500.85	44.75	12.193
12,900.00	12,516.27	12,518.53	12,124.31	17.67	17.63	44.19	-335.66	-139.18	546.65	501.45	45.20	12.094
13,000.00	12,517.14	12,618.53	12,125.18	17.92	17.71	44.19	-435.65	-138.31	546.65	501.14	45.51	12.011
13,100.00	12,518.02	12,718.53	12,126.05	18.29	17.82	44.19	-535.64	-137.45	546.65	500.74	45.91	11.907
13,200.00	12,518.89	12,818.53	12,126.92	18.77	17.99	44.19	-635.63	-136.59	546.65	500.26	46.39	11.783
13,300.00	12,519.76	12,918.53	12,127.79	19.37	18.27	44.19	-735.63	-135.73	546.65	499.70	46.96	11.642
13,400.00	12,520.64	13,018.53	12,128.66	20.06	18.71	44.19	-835.62	-134.87	546.65	499.06	47.60	11.485
13,500.00	12,521.51	13,118.53	12,129.53	20.83	19.30	44.19	-935.61	-134.01	546.66	498.34	48.32	11.314
13,600.00	12,522.38	13,218.53	12,130.40	21.67	20.01	44.19	-1,035.60	-133.15	546.66	497.55	49.11	11.132
13,700.00	12,523.26	13,318.53	12,131.28	22.56	20.82	44.19	-1,135.60	-132.29	546.66	496.69	49.97	10.941
13,800.00	12,524.13	13,418.53	12,132.15	23.51	21.70	44.19	-1,235.59	-131.43	546.66	495.77	50.89	10.742
13,900.00	12,525.00	13,518.53	12,133.02	24.50	22.63	44.19	-1,335.58	-130.57	546.66	494.78	51.88	10.537
14,000.00	12,525.88	13,618.53	12,133.89	25.53	23.62	44.19	-1,435.57	-129.70	546.66	493.74	52.92	10.329
14,100.00	12,526.75	13,718.53	12,134.76	26.59	24.64	44.19	-1,535.57	-128.84	546.67	492.64	54.02	10.119
14,200.00	12,527.62	13,818.53	12,135.63	27.67	25.70	44.19	-1,635.56	-127.98	546.67	491.49	55.18	9.908
14,300.00	12,528.50	13,918.53	12,136.50	28.79	26.78	44.19	-1,735.55	-127.12	546.67	490.29	56.38	9.697
14,400.00	12,529.37	14,018.53	12,137.37	29.92	27.90	44.19	-1,835.54	-126.26	546.67	489.05	57.62	9.487
14,500.00	12,530.24	14,118.53	12,138.25	31.07	29.04	44.19	-1,935.54	-125.40	546.67	487.76	58.91	9.279
14,600.00	12,531.12	14,218.53	12,139.12	32.25	30.19	44.18	-2,035.53	-124.54	546.67	486.43	60.24	9.075
14,700.00	12,531.99	14,318.53	12,139.99	33.43	31.37	44.18	-2,135.52	-123.68	546.68	485.07	61.61	8.873
14,800.00	12,532.87	14,418.53	12,140.86	34.63	32.56	44.18	-2,235.51	-122.82	546.68	483.67	63.01	8.676
14,900.00	12,533.74	14,518.53	12,141.73	35.85	33.76	44.18	-2,335.51	-121.96	546.68	482.23	64.44	8.483
15,000.00	12,534.61	14,618.53	12,142.60	37.07	34.98	44.18	-2,435.50	-121.10	546.68	480.77	65.91	8.295
15,100.00	12,535.49	14,718.53	12,143.47	38.30	36.21	44.18	-2,535.49	-120.23	546.68	479.28	67.40	8.111
15,200.00	12,536.36	14,818.53	12,144.34	39.55	37.44	44.18	-2,635.48	-119.37	546.68	477.76	68.92	7.932
15,300.00	12,537.23	14,918.53	12,145.22	40.80	38.69	44.18	-2,735.48	-118.51	546.68	476.22	70.47	7.758

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: Reference		0-MWD+HRGM+SAG+FDIR (rev.5) Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Offset Well Error: 0.50 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	12,538.11	15,018.53	12,146.09	42.06	39.94	44.18	-2,835.47	-117.65	546.69	474.65	72.03	7.589	
15,500.00	12,538.98	15,118.53	12,146.96	43.32	41.21	44.18	-2,935.46	-116.79	546.69	473.06	73.62	7.426	
15,600.00	12,539.85	15,218.53	12,147.83	44.59	42.48	44.18	-3,035.45	-115.93	546.69	471.46	75.23	7.267	
15,700.00	12,540.73	15,318.53	12,148.70	45.87	43.75	44.18	-3,135.45	-115.07	546.69	469.83	76.86	7.113	
15,800.00	12,541.60	15,418.53	12,149.57	47.16	45.03	44.18	-3,235.44	-114.21	546.69	468.18	78.51	6.963	
15,900.00	12,542.47	15,518.53	12,150.44	48.44	46.32	44.18	-3,335.43	-113.35	546.69	466.52	80.17	6.819	
16,000.00	12,543.35	15,618.53	12,151.31	49.73	47.61	44.18	-3,435.42	-112.49	546.70	464.84	81.85	6.679	
16,100.00	12,544.22	15,718.53	12,152.19	51.03	48.90	44.18	-3,535.42	-111.62	546.70	463.15	83.55	6.544	
16,200.00	12,545.09	15,818.53	12,153.06	52.33	50.20	44.18	-3,635.41	-110.76	546.70	461.44	85.26	6.412	
16,300.00	12,545.97	15,918.53	12,153.93	53.63	51.51	44.18	-3,735.40	-109.90	546.70	459.72	86.98	6.285	
16,400.00	12,546.84	16,018.53	12,154.80	54.94	52.81	44.18	-3,835.39	-109.04	546.70	457.99	88.71	6.163	
16,500.00	12,547.71	16,118.53	12,155.67	56.25	54.12	44.18	-3,935.39	-108.18	546.70	456.24	90.46	6.044	
16,600.00	12,548.59	16,218.53	12,156.54	57.56	55.43	44.18	-4,035.38	-107.32	546.70	454.49	92.22	5.929	
16,700.00	12,549.46	16,318.53	12,157.41	58.88	56.75	44.18	-4,135.37	-106.46	546.71	452.72	93.98	5.817	
16,800.00	12,550.33	16,418.53	12,158.28	60.20	58.07	44.18	-4,235.36	-105.60	546.71	450.95	95.76	5.709	
16,900.00	12,551.21	16,518.53	12,159.16	61.52	59.39	44.18	-4,335.36	-104.74	546.71	449.16	97.55	5.605	
17,000.00	12,552.08	16,618.53	12,160.03	62.84	60.71	44.18	-4,435.35	-103.88	546.71	447.37	99.34	5.503	
17,100.00	12,552.95	16,718.53	12,160.90	64.16	62.03	44.18	-4,535.34	-103.02	546.71	445.57	101.15	5.405	
17,200.00	12,553.83	16,818.53	12,161.77	65.49	63.36	44.18	-4,635.33	-102.15	546.71	443.76	102.96	5.310	
17,300.00	12,554.70	16,918.53	12,162.64	66.82	64.69	44.18	-4,735.33	-101.29	546.72	441.94	104.78	5.218	
17,400.00	12,555.57	17,018.53	12,163.51	68.14	66.02	44.18	-4,835.32	-100.43	546.72	440.11	106.60	5.129	
17,500.00	12,556.45	17,118.53	12,164.38	69.48	67.35	44.18	-4,935.31	-99.57	546.72	438.28	108.43	5.042	
17,600.00	12,557.32	17,218.53	12,165.25	70.81	68.68	44.18	-5,035.30	-98.71	546.72	436.45	110.27	4.958	
17,700.00	12,558.19	17,318.53	12,166.13	72.14	70.01	44.18	-5,135.30	-97.85	546.72	434.60	112.12	4.876	
17,800.00	12,559.07	17,418.53	12,167.00	73.48	71.35	44.18	-5,235.29	-96.99	546.72	432.75	113.97	4.797	
17,900.00	12,559.94	17,518.53	12,167.87	74.81	72.69	44.18	-5,335.28	-96.13	546.72	430.90	115.83	4.720	
18,000.00	12,560.81	17,618.53	12,168.74	76.15	74.02	44.18	-5,435.27	-95.27	546.73	429.04	117.69	4.646	
18,100.00	12,561.69	17,718.53	12,169.61	77.49	75.36	44.18	-5,535.27	-94.41	546.73	427.17	119.55	4.573	
18,200.00	12,562.56	17,818.53	12,170.48	78.83	76.70	44.18	-5,635.26	-93.54	546.73	425.30	121.43	4.503	
18,300.00	12,563.43	17,918.53	12,171.35	80.17	78.05	44.18	-5,735.25	-92.68	546.73	423.43	123.30	4.434	
18,400.00	12,564.31	18,018.53	12,172.22	81.51	79.39	44.18	-5,835.24	-91.82	546.73	421.55	125.18	4.367	
18,500.00	12,565.18	18,118.53	12,173.10	82.86	80.73	44.18	-5,935.24	-90.96	546.73	419.67	127.07	4.303	
18,600.00	12,566.05	18,218.53	12,173.97	84.20	82.08	44.18	-6,035.23	-90.10	546.74	417.78	128.96	4.240	
18,700.00	12,566.93	18,318.53	12,174.84	85.54	83.42	44.18	-6,135.22	-89.24	546.74	415.89	130.85	4.178	
18,800.00	12,567.80	18,418.53	12,175.71	86.89	84.77	44.18	-6,235.21	-88.38	546.74	413.99	132.74	4.119	
18,900.00	12,568.67	18,518.53	12,176.58	88.24	86.11	44.18	-6,335.21	-87.52	546.74	412.10	134.64	4.061	
19,000.00	12,569.55	18,618.53	12,177.45	89.58	87.46	44.18	-6,435.20	-86.66	546.74	410.20	136.55	4.004	
19,100.00	12,570.42	18,718.53	12,178.32	90.93	88.81	44.18	-6,535.19	-85.80	546.74	408.29	138.45	3.949	
19,200.00	12,571.29	18,818.53	12,179.19	92.28	90.16	44.18	-6,635.18	-84.93	546.74	406.38	140.36	3.895	
19,300.00	12,572.17	18,918.53	12,180.07	93.63	91.51	44.18	-6,735.18	-84.07	546.75	404.47	142.27	3.843	
19,400.00	12,573.04	19,018.53	12,180.94	94.98	92.86	44.18	-6,835.17	-83.21	546.75	402.56	144.19	3.792	
19,500.00	12,573.91	19,118.53	12,181.81	96.33	94.21	44.18	-6,935.16	-82.35	546.75	400.64	146.11	3.742	
19,600.00	12,574.79	19,218.53	12,182.68	97.68	95.56	44.18	-7,035.15	-81.49	546.75	398.73	148.03	3.694	
19,700.00	12,575.66	19,318.53	12,183.55	99.03	96.91	44.18	-7,135.15	-80.63	546.75	396.80	149.95	3.646	
19,800.00	12,576.54	19,418.53	12,184.42	100.38	98.26	44.18	-7,235.14	-79.77	546.75	394.88	151.87	3.600	
19,900.00	12,577.41	19,518.53	12,185.29	101.73	99.61	44.18	-7,335.13	-78.91	546.76	392.96	153.80	3.555	
20,000.00	12,578.28	19,618.53	12,186.17	103.08	100.97	44.18	-7,435.12	-78.05	546.76	391.03	155.73	3.511	
20,100.00	12,579.16	19,718.53	12,187.04	104.44	102.32	44.18	-7,535.12	-77.19	546.76	389.10	157.66	3.468	
20,200.00	12,580.03	19,818.53	12,187.91	105.79	103.67	44.18	-7,635.11	-76.33	546.76	387.16	159.60	3.426	
20,300.00	12,580.90	19,918.53	12,188.78	107.14	105.03	44.18	-7,735.10	-75.46	546.76	385.23	161.53	3.385	
20,400.00	12,581.78	20,018.53	12,189.65	108.50	106.38	44.18	-7,835.09	-74.60	546.76	383.29	163.47	3.345	
20,500.00	12,582.65	20,118.53	12,190.52	109.85	107.74	44.18	-7,935.09	-73.74	546.76	381.36	165.41	3.306	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:					Offset Well Error:		0.50 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
20,600.00	12,583.52	20,218.53	12,191.39	111.21	109.09	44.18	-8,035.08	-72.88	546.77	379.42	167.35	3.267		
20,700.00	12,584.40	20,318.53	12,192.26	112.56	110.45	44.18	-8,135.07	-72.02	546.77	377.48	169.29	3.230		
20,800.00	12,585.27	20,418.53	12,193.14	113.92	111.80	44.18	-8,235.06	-71.16	546.77	375.53	171.24	3.193		
20,900.00	12,586.14	20,518.53	12,194.01	115.27	113.16	44.18	-8,335.06	-70.30	546.77	373.59	173.18	3.157		
21,000.00	12,587.02	20,618.53	12,194.88	116.63	114.52	44.18	-8,435.05	-69.44	546.77	371.64	175.13	3.122		
21,100.00	12,587.89	20,718.53	12,195.75	117.99	115.88	44.17	-8,535.04	-68.58	546.77	369.69	177.08	3.088		
21,200.00	12,588.76	20,818.53	12,196.62	119.34	117.23	44.17	-8,635.03	-67.72	546.78	367.74	179.03	3.054		
21,300.00	12,589.64	20,918.53	12,197.49	120.70	118.59	44.17	-8,735.03	-66.85	546.78	365.79	180.98	3.021		
21,400.00	12,590.51	21,018.53	12,198.36	122.06	119.95	44.17	-8,835.02	-65.99	546.78	363.84	182.94	2.989		
21,500.00	12,591.38	21,118.53	12,199.23	123.42	121.31	44.17	-8,935.01	-65.13	546.78	361.89	184.89	2.957		
21,600.00	12,592.26	21,218.53	12,200.11	124.77	122.66	44.17	-9,035.00	-64.27	546.78	359.93	186.85	2.926		
21,700.00	12,593.13	21,318.53	12,200.98	126.13	124.02	44.17	-9,135.00	-63.41	546.78	357.98	188.81	2.896		
21,800.00	12,594.00	21,418.53	12,201.85	127.49	125.38	44.17	-9,234.99	-62.55	546.78	356.02	190.77	2.866		
21,900.00	12,594.88	21,518.53	12,202.72	128.85	126.74	44.17	-9,334.98	-61.69	546.79	354.06	192.73	2.837		
22,000.00	12,595.75	21,618.53	12,203.59	130.21	128.10	44.17	-9,434.97	-60.83	546.79	352.10	194.69	2.809		
22,100.00	12,596.62	21,718.53	12,204.46	131.57	129.46	44.17	-9,534.97	-59.97	546.79	350.14	196.65	2.781		
22,200.00	12,597.50	21,818.53	12,205.33	132.93	130.82	44.17	-9,634.96	-59.11	546.79	348.18	198.61	2.753		
22,300.00	12,598.37	21,918.53	12,206.20	134.29	132.18	44.17	-9,734.95	-58.25	546.79	346.22	200.58	2.726		
22,400.00	12,599.24	22,018.53	12,207.08	135.65	133.54	44.17	-9,834.94	-57.38	546.79	344.25	202.54	2.700		
22,500.00	12,600.12	22,118.53	12,207.95	137.01	134.90	44.17	-9,934.94	-56.52	546.80	342.29	204.51	2.674		
22,600.00	12,600.99	22,218.53	12,208.82	138.37	136.26	44.17	-10,034.93	-55.66	546.80	340.32	206.47	2.648		
22,700.00	12,601.86	22,318.53	12,209.69	139.73	137.62	44.17	-10,134.92	-54.80	546.80	338.36	208.44	2.623		
22,709.52	12,601.95	22,328.05	12,209.77	139.86	137.75	44.17	-10,144.44	-54.72	546.80	338.17	208.63	2.621		
22,796.26	12,602.70	22,411.61	12,210.50	141.04	138.89	44.17	-10,228.00	-54.00	546.81	336.47	210.34	2.600	SF	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:					Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)
0.00	0.00	0.00	0.00	0.50	0.50	90.00	0.00	25.00	25.00				
100.00	100.00	100.00	100.00	0.98	0.98	90.00	0.00	25.00	25.00	23.04	1.96	12.741	
200.00	200.00	200.00	200.00	1.56	1.56	90.00	0.00	25.00	25.00	21.88	3.12	8.007	
300.00	300.00	300.00	300.00	1.98	1.98	90.00	0.00	25.00	25.00	21.04	3.96	6.309	
400.00	400.00	399.35	399.33	2.33	2.41	89.33	0.31	26.25	26.26	21.53	4.73	5.549	
500.00	500.00	498.56	498.47	2.63	2.78	87.64	1.24	30.01	30.07	24.67	5.40	5.568	
600.00	600.00	597.50	597.20	2.91	3.11	85.63	2.77	36.24	36.46	30.45	6.00	6.073	
700.00	700.00	696.79	696.12	3.16	3.25	83.84	4.80	44.48	44.91	38.52	6.39	7.024	
800.00	800.00	796.40	795.36	3.40	3.49	82.59	6.88	52.91	53.56	46.68	6.88	7.789	
900.00	900.00	896.02	894.60	3.62	3.73	81.69	8.96	61.34	62.23	54.89	7.34	8.479	
1,000.00	1,000.00	995.64	993.84	3.84	3.96	81.01	11.04	69.77	70.91	63.12	7.78	9.108	
1,100.00	1,100.00	1,095.26	1,093.08	4.04	4.19	80.48	13.12	78.20	79.60	71.38	8.21	9.689	
1,200.00	1,200.00	1,194.88	1,192.32	4.23	4.41	80.05	15.20	86.63	88.29	79.66	8.63	10.228	
1,300.00	1,300.00	1,294.50	1,291.56	4.42	4.63	79.70	17.27	95.06	96.99	87.95	9.04	10.731	
1,400.00	1,400.00	1,394.12	1,390.80	4.60	4.84	79.41	19.35	103.49	105.69	96.25	9.43	11.203	
1,500.00	1,500.00	1,493.74	1,490.04	4.78	5.06	79.16	21.43	111.92	114.39	104.57	9.82	11.647	
1,600.00	1,600.00	1,593.36	1,589.28	4.95	5.26	78.95	23.51	120.35	123.09	112.89	10.20	12.067	
1,700.00	1,700.00	1,692.98	1,688.52	5.11	5.47	78.76	25.59	128.78	131.80	121.23	10.57	12.464	
1,800.00	1,800.00	1,792.60	1,787.77	5.28	5.67	78.60	27.67	137.21	140.51	129.57	10.94	12.842	
1,900.00	1,900.00	1,892.22	1,887.01	5.44	5.88	78.46	29.74	145.64	149.21	137.91	11.30	13.202	
2,000.00	2,000.00	1,991.84	1,986.25	5.59	6.08	78.33	31.82	154.07	157.92	146.27	11.66	13.546	
2,100.00	2,100.00	2,091.46	2,085.49	5.74	6.28	78.22	33.90	162.50	166.63	154.62	12.01	13.874	
2,200.00	2,200.00	2,191.08	2,184.73	5.89	6.48	78.11	35.98	170.93	175.34	162.98	12.37	14.177	
2,300.00	2,299.99	2,286.91	2,280.12	6.07	6.69	37.70	38.18	179.86	183.91	171.18	12.72	14.453	
2,400.00	2,399.91	2,381.81	2,374.32	6.24	6.90	38.17	40.92	190.96	192.87	179.79	13.08	14.746	
2,500.00	2,499.69	2,476.43	2,467.94	6.42	7.12	39.00	44.20	204.29	202.29	188.86	13.43	15.064	
2,600.00	2,599.27	2,570.73	2,560.87	6.59	7.34	40.12	48.03	219.80	212.21	198.44	13.77	15.413	
2,700.00	2,698.57	2,664.68	2,653.04	6.76	7.56	41.48	52.38	237.47	222.71	208.61	14.10	15.794	
2,800.00	2,797.62	2,758.24	2,744.35	6.85	7.78	43.01	57.26	257.25	234.29	219.94	14.36	16.321	
2,900.00	2,896.65	2,851.26	2,834.62	7.00	7.98	44.37	62.63	279.06	248.33	233.69	14.64	16.958	
3,000.00	2,995.68	2,948.42	2,928.48	7.15	8.17	45.58	68.64	303.43	264.19	249.23	14.96	17.658	
3,100.00	3,094.70	3,047.00	3,023.70	7.30	8.38	46.66	74.75	328.20	280.21	264.89	15.32	18.290	
3,200.00	3,193.73	3,145.58	3,118.92	7.46	8.59	47.62	80.86	352.98	296.32	280.64	15.68	18.893	
3,300.00	3,292.76	3,244.16	3,214.14	7.61	8.80	48.49	86.96	377.76	312.50	296.45	16.05	19.469	
3,400.00	3,391.78	3,342.73	3,309.35	7.77	9.03	49.26	93.07	402.54	328.75	312.33	16.42	20.018	
3,500.00	3,490.81	3,441.31	3,404.57	7.93	9.27	49.97	99.18	427.31	345.05	328.25	16.80	20.542	
3,600.00	3,589.84	3,539.89	3,499.79	8.09	9.53	50.61	105.29	452.09	361.40	344.22	17.18	21.041	
3,700.00	3,688.87	3,638.47	3,595.00	8.25	9.81	51.20	111.39	476.87	377.78	360.22	17.56	21.518	
3,800.00	3,787.89	3,737.04	3,690.22	8.42	10.11	51.74	117.50	501.65	394.20	376.26	17.94	21.972	
3,900.00	3,886.92	3,835.62	3,785.44	8.58	10.41	52.23	123.61	526.42	410.66	392.33	18.33	22.405	
4,000.00	3,985.95	3,934.20	3,880.65	8.75	10.72	52.69	129.72	551.20	427.14	408.42	18.72	22.820	
4,100.00	4,084.98	4,032.78	3,975.87	8.92	11.03	53.11	135.82	575.98	443.64	424.53	19.11	23.214	
4,200.00	4,184.00	4,131.35	4,071.09	9.09	11.35	53.51	141.93	600.76	460.17	440.67	19.51	23.592	
4,300.00	4,283.03	4,229.93	4,166.31	9.26	11.66	53.87	148.04	625.54	476.72	456.81	19.90	23.952	
4,400.00	4,382.06	4,328.51	4,261.52	9.43	11.98	54.21	154.15	650.31	493.28	472.98	20.30	24.297	
4,500.00	4,481.09	4,427.09	4,356.74	9.60	12.30	54.53	160.25	675.09	509.86	489.16	20.70	24.626	
4,600.00	4,580.11	4,525.66	4,451.96	9.77	12.62	54.83	166.36	699.87	526.46	505.35	21.11	24.942	
4,700.00	4,679.14	4,624.24	4,547.17	9.95	12.95	55.11	172.47	724.65	543.07	521.55	21.51	25.244	
4,800.00	4,778.17	4,722.82	4,642.39	10.12	13.27	55.37	178.58	749.42	559.69	537.76	21.92	25.533	
4,900.00	4,877.31	4,821.32	4,737.54	10.28	13.60	55.73	184.68	774.18	576.80	554.50	22.30	25.863	
5,000.00	4,976.75	4,919.59	4,832.45	10.47	13.92	55.92	190.77	798.88	595.34	572.64	22.70	26.224	
5,100.00	5,076.44	5,017.53	4,927.06	10.65	14.25	55.93	196.84	823.50	615.33	592.24	23.09	26.650	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: Reference		0-MWD+HRGM+SAG+FDIR (rev.5) Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Offset Well Error:		0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,176.30	5,115.10	5,021.30	10.82	14.58	55.77	202.88	848.02	636.77	613.31	23.46	27.141	
5,300.00	5,276.26	5,212.21	5,115.10	10.98	14.90	55.47	208.90	872.43	659.70	635.88	23.82	27.698	
5,400.00	5,376.26	5,308.87	5,208.47	11.05	15.23	95.39	214.89	896.73	683.99	659.88	24.11	28.373	
5,500.00	5,476.26	5,405.47	5,301.77	11.15	15.55	94.71	220.87	921.01	708.57	684.14	24.43	29.008	
5,600.00	5,576.26	5,502.06	5,395.07	11.24	15.88	94.07	226.86	945.29	733.23	708.49	24.75	29.630	
5,700.00	5,676.26	5,598.65	5,488.36	11.33	16.20	93.47	232.84	969.57	757.99	732.92	25.07	30.239	
5,800.00	5,776.26	5,695.24	5,581.66	11.43	16.53	92.90	238.83	993.84	782.81	757.42	25.39	30.836	
5,900.00	5,876.26	5,791.83	5,674.96	11.52	16.86	92.38	244.81	1,018.12	807.70	781.99	25.71	31.421	
6,000.00	5,976.26	5,888.42	5,768.26	11.61	17.19	91.88	250.79	1,042.40	832.65	806.63	26.03	31.994	
6,100.00	6,076.26	6,004.35	5,880.49	11.71	17.56	91.34	257.74	1,070.56	856.87	830.46	26.41	32.446	
6,200.00	6,176.26	6,129.37	6,002.44	11.80	17.93	90.86	264.33	1,097.31	878.20	851.37	26.83	32.735	
6,300.00	6,276.26	6,256.13	6,126.93	11.89	18.26	90.47	270.03	1,120.46	896.43	869.21	27.22	32.931	
6,400.00	6,376.26	6,384.37	6,253.62	11.99	18.56	90.15	274.80	1,139.78	911.49	883.90	27.59	33.036	
6,500.00	6,476.26	6,513.83	6,382.10	12.08	18.81	89.92	278.57	1,155.09	923.32	895.39	27.93	33.055	
6,600.00	6,576.26	6,644.22	6,511.98	12.17	19.00	89.75	281.32	1,166.22	931.87	903.63	28.24	32.999	
6,700.00	6,676.26	6,775.25	6,642.81	12.26	19.15	89.65	283.00	1,173.07	937.11	908.59	28.51	32.866	
6,800.00	6,776.26	6,906.61	6,774.14	12.35	19.26	89.61	283.62	1,175.56	939.00	910.27	28.73	32.682	
6,900.00	6,876.26	7,008.72	6,876.26	12.45	19.30	89.61	283.62	1,175.57	939.01	910.15	28.86	32.535	
7,000.00	6,976.26	7,108.72	6,976.26	12.54	19.35	89.61	283.62	1,175.57	939.01	910.01	29.00	32.375	
7,100.00	7,076.26	7,208.72	7,076.26	12.63	19.40	89.61	283.62	1,175.57	939.01	909.87	29.15	32.217	
7,200.00	7,176.26	7,308.72	7,176.26	12.72	19.45	89.61	283.62	1,175.57	939.01	909.72	29.29	32.060	
7,300.00	7,276.26	7,408.72	7,276.26	12.81	19.50	89.61	283.62	1,175.57	939.01	909.58	29.43	31.905	
7,400.00	7,376.26	7,508.72	7,376.26	12.90	19.56	89.61	283.62	1,175.57	939.01	909.44	29.57	31.750	
7,500.00	7,476.26	7,608.72	7,476.26	13.00	19.61	89.61	283.62	1,175.57	939.01	909.29	29.72	31.598	
7,600.00	7,576.26	7,708.72	7,576.26	13.09	19.66	89.61	283.62	1,175.57	939.01	909.15	29.86	31.446	
7,700.00	7,676.26	7,808.72	7,676.26	13.18	19.71	89.61	283.62	1,175.57	939.01	909.01	30.00	31.297	
7,800.00	7,776.26	7,908.72	7,776.26	13.27	19.76	89.61	283.62	1,175.57	939.01	908.86	30.15	31.148	
7,900.00	7,876.26	8,008.72	7,876.26	13.36	19.82	89.61	283.62	1,175.57	939.01	908.72	30.29	31.000	
8,000.00	7,976.26	8,108.72	7,976.26	13.45	19.87	89.61	283.62	1,175.57	939.01	908.58	30.43	30.854	
8,100.00	8,076.26	8,208.72	8,076.26	13.54	19.92	89.61	283.62	1,175.57	939.01	908.43	30.58	30.710	
8,200.00	8,176.26	8,308.72	8,176.26	13.63	19.97	89.61	283.62	1,175.57	939.01	908.29	30.72	30.566	
8,300.00	8,276.26	8,408.72	8,276.26	13.72	20.03	89.61	283.62	1,175.57	939.01	908.15	30.86	30.424	
8,400.00	8,376.26	8,508.72	8,376.26	13.81	20.08	89.61	283.62	1,175.57	939.01	908.00	31.01	30.282	
8,500.00	8,476.26	8,608.72	8,476.26	13.90	20.13	89.61	283.62	1,175.57	939.01	907.86	31.15	30.142	
8,600.00	8,576.26	8,708.72	8,576.26	13.99	20.19	89.61	283.62	1,175.57	939.01	907.72	31.30	30.004	
8,700.00	8,676.26	8,808.72	8,676.26	14.08	20.24	89.61	283.62	1,175.57	939.01	907.57	31.44	29.866	
8,800.00	8,776.26	8,908.72	8,776.26	14.17	20.30	89.61	283.62	1,175.57	939.01	907.43	31.58	29.730	
8,900.00	8,876.26	9,008.72	8,876.26	14.26	20.35	89.61	283.62	1,175.57	939.01	907.28	31.73	29.594	
9,000.00	8,976.26	9,108.72	8,976.26	14.35	20.40	89.61	283.62	1,175.57	939.01	907.14	31.87	29.460	
9,100.00	9,076.26	9,208.72	9,076.26	14.44	20.46	89.61	283.62	1,175.57	939.01	906.99	32.02	29.327	
9,200.00	9,176.26	9,308.72	9,176.26	14.53	20.51	89.61	283.62	1,175.57	939.01	906.85	32.16	29.195	
9,300.00	9,276.26	9,408.72	9,276.26	14.62	20.57	89.61	283.62	1,175.57	939.01	906.70	32.31	29.064	
9,400.00	9,376.26	9,508.72	9,376.26	14.71	20.62	89.61	283.62	1,175.57	939.01	906.56	32.45	28.935	
9,500.00	9,476.26	9,608.72	9,476.26	14.80	20.68	89.61	283.62	1,175.57	939.01	906.41	32.60	28.806	
9,600.00	9,576.26	9,708.72	9,576.26	14.89	20.74	89.61	283.62	1,175.57	939.01	906.27	32.74	28.678	
9,700.00	9,676.26	9,808.72	9,676.26	14.97	20.79	89.61	283.62	1,175.57	939.01	906.12	32.89	28.551	
9,800.00	9,776.26	9,908.72	9,776.26	15.06	20.85	89.61	283.62	1,175.57	939.01	905.98	33.03	28.426	
9,900.00	9,876.26	10,008.72	9,876.26	15.15	20.90	89.61	283.62	1,175.57	939.01	905.83	33.18	28.301	
10,000.00	9,976.26	10,108.72	9,976.26	15.24	20.96	89.61	283.62	1,175.57	939.01	905.69	33.32	28.177	
10,100.00	10,076.26	10,208.72	10,076.26	15.33	21.02	89.61	283.62	1,175.57	939.01	905.54	33.47	28.055	
10,200.00	10,176.26	10,308.72	10,176.26	15.42	21.07	89.61	283.62	1,175.57	939.01	905.40	33.62	27.933	
10,300.00	10,276.26	10,408.72	10,276.26	15.51	21.13	89.61	283.62	1,175.57	939.01	905.25	33.76	27.812	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: Reference		0-MWD+HRGM+SAG+FDIR (rev.5) Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Offset Well Error: 0.50 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,400.00	10,376.26	10,508.72	10,376.26	15.59	21.19	89.61	283.62	1,175.57	939.01	905.10	33.91	27.693	
10,500.00	10,476.26	10,608.72	10,476.26	15.68	21.24	89.61	283.62	1,175.57	939.01	904.96	34.05	27.574	
10,600.00	10,576.26	10,708.72	10,576.26	15.77	21.30	89.61	283.62	1,175.57	939.01	904.81	34.20	27.456	
10,700.00	10,676.26	10,808.72	10,676.26	15.86	21.36	89.61	283.62	1,175.57	939.01	904.66	34.35	27.339	
10,800.00	10,776.26	10,908.72	10,776.26	15.95	21.42	89.61	283.62	1,175.57	939.01	904.52	34.49	27.223	
10,900.00	10,876.26	11,008.72	10,876.26	16.04	21.47	89.61	283.62	1,175.57	939.01	904.37	34.64	27.108	
11,000.00	10,976.26	11,108.72	10,976.26	16.12	21.53	89.61	283.62	1,175.57	939.01	904.23	34.79	26.994	
11,100.00	11,076.26	11,208.72	11,076.26	16.21	21.59	89.61	283.62	1,175.57	939.01	904.08	34.93	26.880	
11,200.00	11,176.26	11,308.72	11,176.26	16.30	21.65	89.61	283.62	1,175.57	939.01	903.93	35.08	26.768	
11,300.00	11,276.26	11,408.72	11,276.26	16.39	21.71	89.61	283.62	1,175.57	939.01	903.78	35.23	26.656	
11,400.00	11,376.26	11,508.72	11,376.26	16.48	21.76	89.61	283.62	1,175.57	939.01	903.64	35.37	26.545	
11,500.00	11,476.26	11,608.72	11,476.26	16.56	21.82	89.61	283.62	1,175.57	939.01	903.49	35.52	26.436	
11,508.33	11,484.58	11,617.05	11,484.58	16.57	21.83	89.61	283.62	1,175.57	939.01	903.48	35.53	26.427	
11,600.00	11,576.26	11,708.65	11,576.17	16.65	21.87	89.64	283.19	1,175.57	939.01	903.37	35.65	26.342	
11,700.00	11,676.26	11,806.57	11,673.23	16.74	21.93	90.38	271.08	1,175.68	939.12	903.42	35.70	26.304	
11,800.00	11,776.26	11,897.91	11,760.68	16.83	21.97	91.96	245.05	1,175.90	940.00	904.27	35.74	26.304	
11,900.00	11,876.26	11,979.30	11,834.25	16.91	22.00	94.07	210.41	1,176.20	942.93	907.15	35.78	26.351	
12,000.00	11,976.24	12,050.00	11,893.63	16.97	22.03	-82.91	172.11	1,176.53	949.30	913.43	35.87	26.466	
12,100.00	12,075.06	12,116.23	11,944.58	17.02	22.06	-79.96	129.86	1,176.89	958.32	922.37	35.95	26.655	
12,200.00	12,169.87	12,180.49	11,989.04	17.06	22.11	-77.17	83.52	1,177.29	968.74	932.62	36.12	26.821	
12,300.00	12,257.78	12,250.00	12,030.97	17.11	22.19	-74.48	28.13	1,177.77	979.67	943.32	36.34	26.957	
12,400.00	12,336.13	12,300.00	12,056.82	17.16	22.26	-72.49	-14.65	1,178.14	990.17	953.36	36.82	26.895	
12,500.00	12,402.54	12,365.84	12,085.00	17.22	22.39	-70.55	-74.11	1,178.65	999.57	962.28	37.29	26.808	
12,600.00	12,454.98	12,426.14	12,104.67	17.28	22.53	-69.12	-131.08	1,179.14	1,007.27	969.38	37.89	26.585	
12,700.00	12,491.87	12,486.04	12,118.18	17.37	22.71	-68.13	-189.40	1,179.64	1,012.80	974.24	38.56	26.264	
12,800.00	12,512.08	12,550.00	12,125.80	17.49	22.93	-67.58	-252.88	1,180.19	1,015.86	976.59	39.26	25.872	
12,900.00	12,516.27	12,621.42	12,127.28	17.67	23.21	-67.50	-324.26	1,180.81	1,016.40	976.43	39.97	25.431	
13,000.00	12,517.14	12,721.42	12,128.16	17.92	23.66	-67.50	-424.26	1,181.67	1,016.40	975.68	40.72	24.963	
13,100.00	12,518.02	12,821.42	12,129.03	18.29	24.17	-67.50	-524.25	1,182.53	1,016.40	974.79	41.61	24.428	
13,200.00	12,518.89	12,921.42	12,129.90	18.77	24.74	-67.50	-624.24	1,183.39	1,016.40	973.77	42.64	23.839	
13,300.00	12,519.76	13,021.42	12,130.77	19.37	25.35	-67.50	-724.23	1,184.25	1,016.40	972.61	43.79	23.212	
13,400.00	12,520.64	13,121.42	12,131.64	20.06	26.01	-67.50	-824.23	1,185.11	1,016.40	971.35	45.06	22.558	
13,500.00	12,521.51	13,221.42	12,132.51	20.83	26.72	-67.50	-924.22	1,185.97	1,016.40	969.97	46.43	21.890	
13,600.00	12,522.38	13,321.42	12,133.39	21.67	27.46	-67.50	-1,024.21	1,186.84	1,016.40	968.50	47.91	21.217	
13,700.00	12,523.26	13,421.42	12,134.26	22.56	28.25	-67.50	-1,124.20	1,187.70	1,016.41	966.94	49.47	20.547	
13,800.00	12,524.13	13,521.42	12,135.13	23.51	29.08	-67.50	-1,224.20	1,188.56	1,016.41	965.30	51.11	19.887	
13,900.00	12,525.00	13,621.42	12,136.00	24.50	29.94	-67.50	-1,324.19	1,189.42	1,016.41	963.58	52.82	19.242	
14,000.00	12,525.88	13,721.42	12,136.87	25.53	30.83	-67.50	-1,424.18	1,190.28	1,016.41	961.81	54.60	18.614	
14,100.00	12,526.75	13,821.42	12,137.74	26.59	31.75	-67.50	-1,524.17	1,191.14	1,016.41	959.97	56.44	18.008	
14,200.00	12,527.62	13,921.42	12,138.62	27.67	32.70	-67.50	-1,624.17	1,192.00	1,016.41	958.07	58.34	17.423	
14,300.00	12,528.50	14,021.42	12,139.49	28.79	33.68	-67.50	-1,724.16	1,192.86	1,016.41	956.13	60.28	16.862	
14,400.00	12,529.37	14,121.42	12,140.36	29.92	34.69	-67.50	-1,824.15	1,193.73	1,016.41	954.15	62.27	16.324	
14,500.00	12,530.24	14,221.42	12,141.23	31.07	35.71	-67.50	-1,924.14	1,194.59	1,016.41	952.12	64.29	15.809	
14,600.00	12,531.12	14,321.42	12,142.10	32.25	36.76	-67.50	-2,024.14	1,195.45	1,016.41	950.06	66.36	15.317	
14,700.00	12,531.99	14,421.42	12,142.97	33.43	37.82	-67.50	-2,124.13	1,196.31	1,016.42	947.96	68.45	14.848	
14,800.00	12,532.87	14,521.42	12,143.85	34.63	38.91	-67.50	-2,224.12	1,197.17	1,016.42	945.84	70.58	14.401	
14,900.00	12,533.74	14,621.42	12,144.72	35.85	40.01	-67.50	-2,324.11	1,198.03	1,016.42	943.68	72.74	13.974	
15,000.00	12,534.61	14,721.42	12,145.59	37.07	41.12	-67.50	-2,424.11	1,198.89	1,016.42	941.50	74.91	13.568	
15,100.00	12,535.49	14,821.42	12,146.46	38.30	42.25	-67.50	-2,524.10	1,199.75	1,016.42	939.30	77.12	13.180	
15,200.00	12,536.36	14,921.42	12,147.33	39.55	43.40	-67.50	-2,624.09	1,200.62	1,016.42	937.08	79.34	12.811	
15,300.00	12,537.23	15,021.42	12,148.20	40.80	44.55	-67.50	-2,724.08	1,201.48	1,016.42	934.84	81.58	12.458	
15,400.00	12,538.11	15,121.42	12,149.07	42.06	45.72	-67.50	-2,824.08	1,202.34	1,016.42	932.58	83.85	12.122	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:				Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
15,500.00	12,538.98	15,221.42	12,149.95	43.32	46.90	-67.50	-2,924.07	1,203.20	1,016.42	930.30	86.12	11.802
15,600.00	12,539.85	15,321.42	12,150.82	44.59	48.09	-67.50	-3,024.06	1,204.06	1,016.42	928.01	88.42	11.496
15,700.00	12,540.73	15,421.42	12,151.69	45.87	49.29	-67.50	-3,124.05	1,204.92	1,016.43	925.70	90.72	11.204
15,800.00	12,541.60	15,521.42	12,152.56	47.16	50.49	-67.49	-3,224.05	1,205.78	1,016.43	923.38	93.04	10.924
15,900.00	12,542.47	15,621.42	12,153.43	48.44	51.71	-67.49	-3,324.04	1,206.64	1,016.43	921.05	95.37	10.657
16,000.00	12,543.35	15,721.42	12,154.30	49.73	52.93	-67.49	-3,424.03	1,207.51	1,016.43	918.71	97.72	10.402
16,100.00	12,544.22	15,821.42	12,155.18	51.03	54.16	-67.49	-3,524.02	1,208.37	1,016.43	916.36	100.07	10.157
16,200.00	12,545.09	15,921.42	12,156.05	52.33	55.39	-67.49	-3,624.02	1,209.23	1,016.43	914.00	102.43	9.923
16,300.00	12,545.97	16,021.42	12,156.92	53.63	56.63	-67.49	-3,724.01	1,210.09	1,016.43	911.63	104.81	9.698
16,400.00	12,546.84	16,121.42	12,157.79	54.94	57.88	-67.49	-3,824.00	1,210.95	1,016.43	909.25	107.19	9.483
16,500.00	12,547.71	16,221.42	12,158.66	56.25	59.13	-67.49	-3,923.99	1,211.81	1,016.43	906.86	109.57	9.276
16,600.00	12,548.59	16,321.42	12,159.53	57.56	60.39	-67.49	-4,023.99	1,212.67	1,016.43	904.46	111.97	9.078
16,700.00	12,549.46	16,421.42	12,160.41	58.88	61.65	-67.49	-4,123.98	1,213.53	1,016.44	902.06	114.37	8.887
16,800.00	12,550.33	16,521.42	12,161.28	60.20	62.92	-67.49	-4,223.97	1,214.40	1,016.44	899.65	116.78	8.704
16,900.00	12,551.21	16,621.42	12,162.15	61.52	64.19	-67.49	-4,323.96	1,215.26	1,016.44	897.24	119.20	8.527
17,000.00	12,552.08	16,721.42	12,163.02	62.84	65.47	-67.49	-4,423.96	1,216.12	1,016.44	894.82	121.62	8.358
17,100.00	12,552.95	16,821.42	12,163.89	64.16	66.74	-67.49	-4,523.95	1,216.98	1,016.44	892.39	124.04	8.194
17,200.00	12,553.83	16,921.42	12,164.76	65.49	68.03	-67.49	-4,623.94	1,217.84	1,016.44	889.96	126.48	8.037
17,300.00	12,554.70	17,021.42	12,165.64	66.82	69.31	-67.49	-4,723.93	1,218.70	1,016.44	887.53	128.91	7.885
17,400.00	12,555.57	17,121.42	12,166.51	68.14	70.60	-67.49	-4,823.93	1,219.56	1,016.44	885.09	131.35	7.738
17,500.00	12,556.45	17,221.42	12,167.38	69.48	71.89	-67.49	-4,923.92	1,220.43	1,016.44	882.65	133.80	7.597
17,600.00	12,557.32	17,321.42	12,168.25	70.81	73.19	-67.49	-5,023.91	1,221.29	1,016.44	880.20	136.25	7.460
17,700.00	12,558.19	17,421.42	12,169.12	72.14	74.48	-67.49	-5,123.90	1,222.15	1,016.44	877.75	138.70	7.328
17,800.00	12,559.07	17,521.42	12,169.99	73.48	75.78	-67.49	-5,223.90	1,223.01	1,016.45	875.29	141.16	7.201
17,900.00	12,559.94	17,621.42	12,170.87	74.81	77.09	-67.49	-5,323.89	1,223.87	1,016.45	872.83	143.62	7.078
18,000.00	12,560.81	17,721.42	12,171.74	76.15	78.39	-67.49	-5,423.88	1,224.73	1,016.45	870.37	146.08	6.958
18,100.00	12,561.69	17,821.42	12,172.61	77.49	79.70	-67.49	-5,523.87	1,225.59	1,016.45	867.90	148.54	6.843
18,200.00	12,562.56	17,921.42	12,173.48	78.83	81.01	-67.49	-5,623.87	1,226.45	1,016.45	865.44	151.01	6.731
18,300.00	12,563.43	18,021.42	12,174.35	80.17	82.32	-67.49	-5,723.86	1,227.32	1,016.45	862.96	153.49	6.622
18,400.00	12,564.31	18,121.42	12,175.22	81.51	83.63	-67.49	-5,823.85	1,228.18	1,016.45	860.49	155.96	6.517
18,500.00	12,565.18	18,221.42	12,176.10	82.86	84.94	-67.49	-5,923.84	1,229.04	1,016.45	858.01	158.44	6.415
18,600.00	12,566.05	18,321.42	12,176.97	84.20	86.26	-67.49	-6,023.84	1,229.90	1,016.45	855.54	160.92	6.317
18,700.00	12,566.93	18,421.42	12,177.84	85.54	87.58	-67.49	-6,123.83	1,230.76	1,016.45	853.05	163.40	6.221
18,800.00	12,567.80	18,521.42	12,178.71	86.89	88.90	-67.49	-6,223.82	1,231.62	1,016.46	850.57	165.88	6.128
18,900.00	12,568.67	18,621.42	12,179.58	88.24	90.22	-67.49	-6,323.81	1,232.48	1,016.46	848.09	168.37	6.037
19,000.00	12,569.55	18,721.42	12,180.45	89.58	91.54	-67.49	-6,423.81	1,233.34	1,016.46	845.60	170.86	5.949
19,100.00	12,570.42	18,821.42	12,181.32	90.93	92.86	-67.49	-6,523.80	1,234.21	1,016.46	843.11	173.35	5.864
19,200.00	12,571.29	18,921.42	12,182.20	92.28	94.19	-67.49	-6,623.79	1,235.07	1,016.46	840.62	175.84	5.781
19,300.00	12,572.17	19,021.42	12,183.07	93.63	95.51	-67.49	-6,723.78	1,235.93	1,016.46	838.12	178.34	5.700
19,400.00	12,573.04	19,121.42	12,183.94	94.98	96.84	-67.49	-6,823.78	1,236.79	1,016.46	835.63	180.83	5.621
19,500.00	12,573.91	19,221.42	12,184.81	96.33	98.17	-67.49	-6,923.77	1,237.65	1,016.46	833.13	183.33	5.544
19,600.00	12,574.79	19,321.42	12,185.68	97.68	99.50	-67.49	-7,023.76	1,238.51	1,016.46	830.64	185.83	5.470
19,700.00	12,575.66	19,421.42	12,186.55	99.03	100.83	-67.49	-7,123.75	1,239.37	1,016.46	828.14	188.33	5.397
19,800.00	12,576.54	19,521.42	12,187.43	100.38	102.16	-67.49	-7,223.75	1,240.23	1,016.47	825.64	190.83	5.327
19,900.00	12,577.41	19,621.42	12,188.30	101.73	103.50	-67.49	-7,323.74	1,241.10	1,016.47	823.13	193.33	5.258
20,000.00	12,578.28	19,721.42	12,189.17	103.08	104.83	-67.49	-7,423.73	1,241.96	1,016.47	820.63	195.84	5.190
20,100.00	12,579.16	19,821.42	12,190.04	104.44	106.16	-67.49	-7,523.72	1,242.82	1,016.47	818.12	198.34	5.125
20,200.00	12,580.03	19,921.42	12,190.91	105.79	107.50	-67.49	-7,623.72	1,243.68	1,016.47	815.62	200.85	5.061
20,300.00	12,580.90	20,021.42	12,191.78	107.14	108.84	-67.49	-7,723.71	1,244.54	1,016.47	813.11	203.36	4.998
20,400.00	12,581.78	20,121.42	12,192.66	108.50	110.17	-67.49	-7,823.70	1,245.40	1,016.47	810.60	205.87	4.937
20,500.00	12,582.65	20,221.42	12,193.53	109.85	111.51	-67.49	-7,923.69	1,246.26	1,016.47	808.09	208.38	4.878
20,600.00	12,583.52	20,321.42	12,194.40	111.21	112.85	-67.49	-8,023.69	1,247.13	1,016.47	805.58	210.89	4.820

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)												Rule Assigned:			
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
20,700.00	12,584.40	20,421.42	12,195.27	112.56	114.19	-67.49	-8,123.68	1,247.99	1,016.47	803.07	213.40	4.763			
20,800.00	12,585.27	20,521.42	12,196.14	113.92	115.53	-67.49	-8,223.67	1,248.85	1,016.47	800.56	215.92	4.708			
20,900.00	12,586.14	20,621.42	12,197.01	115.27	116.87	-67.49	-8,323.66	1,249.71	1,016.48	798.04	218.43	4.654			
21,000.00	12,587.02	20,721.42	12,197.89	116.63	118.21	-67.49	-8,423.66	1,250.57	1,016.48	795.53	220.95	4.601			
21,100.00	12,587.89	20,821.42	12,198.76	117.99	119.56	-67.49	-8,523.65	1,251.43	1,016.48	793.01	223.46	4.549			
21,200.00	12,588.76	20,921.42	12,199.63	119.34	120.90	-67.49	-8,623.64	1,252.29	1,016.48	790.50	225.98	4.498			
21,300.00	12,589.64	21,021.42	12,200.50	120.70	122.24	-67.49	-8,723.63	1,253.15	1,016.48	787.98	228.50	4.449			
21,400.00	12,590.51	21,121.42	12,201.37	122.06	123.59	-67.49	-8,823.63	1,254.02	1,016.48	785.46	231.02	4.400			
21,500.00	12,591.38	21,221.42	12,202.24	123.42	124.93	-67.49	-8,923.62	1,254.88	1,016.48	782.94	233.54	4.353			
21,600.00	12,592.26	21,321.42	12,203.12	124.77	126.28	-67.49	-9,023.61	1,255.74	1,016.48	780.42	236.06	4.306			
21,700.00	12,593.13	21,421.42	12,203.99	126.13	127.62	-67.49	-9,123.60	1,256.60	1,016.48	777.90	238.58	4.261			
21,800.00	12,594.00	21,521.42	12,204.86	127.49	128.97	-67.49	-9,223.60	1,257.46	1,016.48	775.38	241.10	4.216			
21,900.00	12,594.88	21,621.42	12,205.73	128.85	130.31	-67.49	-9,323.59	1,258.32	1,016.49	772.86	243.62	4.172			
22,000.00	12,595.75	21,721.42	12,206.60	130.21	131.66	-67.49	-9,423.58	1,259.18	1,016.49	770.34	246.15	4.130			
22,100.00	12,596.62	21,821.42	12,207.47	131.57	133.01	-67.49	-9,523.57	1,260.04	1,016.49	767.82	248.67	4.088			
22,200.00	12,597.50	21,921.42	12,208.34	132.93	134.36	-67.49	-9,623.57	1,260.91	1,016.49	765.29	251.20	4.047			
22,300.00	12,598.37	22,021.42	12,209.22	134.29	135.71	-67.49	-9,723.56	1,261.77	1,016.49	762.77	253.72	4.006			
22,400.00	12,599.24	22,121.42	12,210.09	135.65	137.06	-67.49	-9,823.55	1,262.63	1,016.49	760.24	256.25	3.967			
22,500.00	12,600.12	22,221.42	12,210.96	137.01	138.40	-67.49	-9,923.54	1,263.49	1,016.49	757.72	258.77	3.928			
22,600.00	12,600.99	22,321.42	12,211.83	138.37	139.75	-67.49	-10,023.54	1,264.35	1,016.49	755.19	261.30	3.890			
22,700.00	12,601.86	22,421.42	12,212.70	139.73	141.10	-67.49	-10,123.53	1,265.21	1,016.49	752.66	263.83	3.853			
22,708.97	12,601.94	22,430.38	12,212.78	139.85	141.23	-67.49	-10,132.49	1,265.29	1,016.49	752.44	264.05	3.850			
22,796.26	12,602.70	22,512.90	12,213.50	141.04	142.34	-67.49	-10,215.00	1,266.00	1,016.51	750.22	266.29	3.817	SF		

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:				Offset Well Error:		0.50 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)
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	CC
400.00	400.00	374.18	374.17	2.33	2.29	73.31	695.54	2,319.55	2,421.73	2,417.14	4.59	528.041	ES
500.00	500.00	448.30	448.26	2.63	2.58	73.35	694.15	2,321.21	2,423.33	2,418.19	5.13	471.968	
600.00	600.00	522.31	522.18	2.91	2.84	73.42	691.84	2,323.95	2,426.00	2,420.36	5.64	430.435	
700.00	700.00	600.00	599.69	3.16	3.10	73.53	688.43	2,328.02	2,429.75	2,423.64	6.11	397.503	
800.00	800.00	682.68	682.07	3.40	3.21	73.66	683.89	2,333.43	2,434.44	2,427.99	6.45	377.431	
900.00	900.00	782.30	781.31	3.62	3.43	73.83	678.31	2,340.08	2,439.30	2,432.39	6.90	353.281	
1,000.00	1,000.00	881.92	880.55	3.84	3.67	74.00	672.73	2,346.73	2,444.17	2,436.82	7.36	332.284	
1,100.00	1,100.00	981.54	979.79	4.04	3.90	74.17	667.15	2,353.38	2,449.07	2,441.28	7.79	314.425	
1,200.00	1,200.00	1,081.16	1,079.03	4.23	4.12	74.34	661.57	2,360.03	2,453.99	2,445.78	8.21	299.009	
1,300.00	1,300.00	1,180.78	1,178.27	4.42	4.34	74.51	655.99	2,366.69	2,458.93	2,450.32	8.61	285.520	
1,400.00	1,400.00	1,280.40	1,277.52	4.60	4.56	74.67	650.41	2,373.34	2,463.89	2,454.88	9.01	273.585	
1,500.00	1,500.00	1,380.02	1,376.76	4.78	4.78	74.84	644.83	2,379.99	2,468.87	2,459.48	9.40	262.750	
1,600.00	1,600.00	1,450.66	1,447.11	4.95	4.93	74.96	640.85	2,385.00	2,474.32	2,464.61	9.71	254.733	
1,700.00	1,700.00	1,500.00	1,496.18	5.11	5.04	75.05	638.02	2,389.21	2,481.32	2,471.35	9.98	248.744	
1,800.00	1,800.00	1,573.73	1,569.40	5.28	5.22	75.19	633.71	2,396.70	2,489.76	2,479.46	10.30	241.732	
1,900.00	1,900.00	1,634.93	1,630.06	5.44	5.36	75.31	630.07	2,403.98	2,499.79	2,489.20	10.59	236.041	
2,000.00	2,000.00	1,700.00	1,694.41	5.59	5.52	75.45	626.12	2,412.79	2,511.36	2,500.48	10.89	230.647	SF

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)							Rule Assigned:				Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)
0.00	0.00	1.00	0.00	0.50	0.50	171.12	-160.00	25.00	161.94				
100.00	100.00	101.00	100.00	0.98	0.99	171.12	-160.00	25.00	161.94	159.97	1.97	82.302	
200.00	200.00	201.00	200.00	1.56	1.57	171.12	-160.00	25.00	161.94	158.81	3.13	51.798	
300.00	300.00	301.00	300.00	1.98	1.98	171.12	-160.00	25.00	161.94	157.98	3.97	40.835	
400.00	400.00	401.00	400.00	2.33	2.33	171.12	-160.00	25.00	161.94	157.28	4.66	34.737	
500.00	500.00	501.02	500.02	2.63	2.64	171.12	-160.00	25.00	161.94	156.67	5.27	30.718	
600.00	600.00	603.39	602.37	2.91	2.99	171.53	-159.42	23.73	161.19	155.35	5.85	27.573	
700.00	700.00	705.60	704.50	3.16	3.30	172.79	-157.71	19.97	159.03	152.66	6.37	24.972	
800.00	800.00	807.52	806.18	3.40	3.58	174.93	-154.88	13.74	155.61	148.77	6.84	22.751	
900.00	900.00	907.66	905.95	3.62	3.72	177.78	-151.30	5.87	151.53	144.34	7.18	21.090	
1,000.00	1,000.00	1,007.28	1,005.19	3.84	3.94	-179.21	-147.70	-2.03	147.80	140.19	7.61	19.418	
1,100.00	1,100.00	1,106.90	1,104.43	4.04	4.15	-176.06	-144.10	-9.93	144.51	136.49	8.02	18.013	
1,200.00	1,200.00	1,206.57	1,203.72	4.23	4.37	-172.76	-140.50	-17.84	141.68	133.26	8.42	16.819	
1,300.00	1,300.00	1,307.03	1,303.66	4.42	4.62	-168.75	-136.28	-27.12	139.00	130.19	8.81	15.780	
1,400.00	1,400.00	1,406.88	1,402.70	4.60	4.87	-163.54	-131.01	-38.71	136.63	127.44	9.19	14.867	
1,500.00	1,500.00	1,506.00	1,500.65	4.78	5.12	-157.15	-124.71	-52.54	135.33	125.76	9.57	14.140	
1,523.03	1,523.03	1,528.71	1,523.03	4.82	5.18	-155.53	-123.12	-56.03	135.27	125.61	9.66	14.004	
1,600.00	1,600.00	1,604.27	1,597.32	4.95	5.35	-149.73	-117.43	-68.53	135.99	126.04	9.95	13.663	
1,700.00	1,700.00	1,702.15	1,693.27	5.11	5.50	-141.77	-109.40	-86.18	139.43	129.15	10.28	13.561	
1,800.00	1,800.00	1,800.14	1,789.29	5.28	5.70	-134.26	-101.31	-103.95	145.55	134.86	10.69	13.621	
1,900.00	1,900.00	1,898.14	1,885.32	5.44	5.90	-127.45	-93.22	-121.73	154.02	142.94	11.09	13.892	
2,000.00	2,000.00	1,996.13	1,981.35	5.59	6.10	-121.39	-85.13	-139.50	164.49	153.01	11.48	14.326	
2,100.00	2,100.00	2,094.12	2,077.38	5.74	6.31	-116.10	-77.04	-157.28	176.59	164.72	11.87	14.878	
2,200.00	2,200.00	2,192.12	2,173.41	5.89	6.52	-111.50	-68.96	-175.05	190.01	177.76	12.25	15.513	
2,300.00	2,299.99	2,290.03	2,269.35	6.07	6.73	-148.07	-60.87	-192.81	205.60	192.95	12.64	16.262	
2,400.00	2,399.91	2,387.73	2,365.09	6.24	6.94	-145.04	-52.81	-210.53	224.06	211.03	13.02	17.202	
2,500.00	2,499.69	2,485.15	2,460.56	6.42	7.16	-142.78	-44.76	-228.20	245.03	231.63	13.40	18.286	
2,600.00	2,599.27	2,582.23	2,555.69	6.59	7.40	-141.18	-36.75	-245.81	268.25	254.48	13.77	19.479	
2,700.00	2,698.57	2,678.90	2,650.42	6.76	7.64	-140.11	-28.77	-263.34	293.54	279.40	14.14	20.758	
2,800.00	2,797.62	2,775.20	2,744.79	6.85	7.88	-139.57	-20.82	-280.81	320.38	305.94	14.44	22.186	
2,900.00	2,896.65	2,871.48	2,839.14	7.00	8.13	-139.20	-12.87	-298.28	347.34	332.54	14.80	23.475	
3,000.00	2,995.68	2,967.75	2,933.48	7.15	8.38	-138.89	-4.93	-315.74	374.30	359.15	15.15	24.702	
3,100.00	3,094.70	3,064.03	3,027.83	7.30	8.63	-138.62	3.02	-333.20	401.28	385.77	15.51	25.870	
3,200.00	3,193.73	3,160.30	3,122.17	7.46	8.88	-138.39	10.97	-350.67	428.27	412.39	15.87	26.981	
3,300.00	3,292.76	3,256.58	3,216.52	7.61	9.13	-138.18	18.92	-368.13	455.26	439.02	16.24	28.039	
3,400.00	3,391.78	3,352.86	3,310.86	7.77	9.39	-137.99	26.87	-385.59	482.25	465.65	16.60	29.047	
3,500.00	3,490.81	3,449.13	3,405.21	7.93	9.64	-137.83	34.81	-403.05	509.25	492.28	16.97	30.009	
3,600.00	3,589.84	3,545.41	3,499.55	8.09	9.90	-137.68	42.76	-420.52	536.25	518.91	17.34	30.927	
3,700.00	3,688.87	3,641.69	3,593.90	8.25	10.15	-137.54	50.71	-437.98	563.26	545.55	17.71	31.803	
3,800.00	3,787.89	3,737.96	3,688.24	8.42	10.41	-137.42	58.66	-455.44	590.27	572.18	18.08	32.641	
3,900.00	3,886.92	3,834.24	3,782.59	8.58	10.66	-137.31	66.61	-472.91	617.28	598.82	18.46	33.442	
4,000.00	3,985.95	3,930.52	3,876.93	8.75	10.92	-137.21	74.55	-490.37	644.29	625.46	18.83	34.209	
4,100.00	4,084.98	4,026.79	3,971.28	8.92	11.18	-137.12	82.50	-507.83	671.30	652.09	19.21	34.943	
4,200.00	4,184.00	4,123.07	4,065.62	9.09	11.44	-137.03	90.45	-525.30	698.32	678.73	19.59	35.646	
4,300.00	4,283.03	4,219.35	4,159.97	9.26	11.69	-136.95	98.40	-542.76	725.34	705.37	19.97	36.321	
4,400.00	4,382.06	4,315.62	4,254.32	9.43	11.95	-136.87	106.34	-560.22	752.36	732.00	20.35	36.968	
4,500.00	4,481.09	4,411.90	4,348.66	9.60	12.21	-136.81	114.29	-577.69	779.38	758.64	20.73	37.589	
4,600.00	4,580.11	4,508.17	4,443.01	9.77	12.47	-136.74	122.24	-595.15	806.40	785.28	21.12	38.186	
4,700.00	4,679.14	4,604.45	4,537.35	9.95	12.73	-136.68	130.19	-612.61	833.42	811.92	21.50	38.759	
4,800.00	4,778.17	4,700.73	4,631.70	10.12	12.99	-136.62	138.14	-630.08	860.44	838.55	21.89	39.311	
4,900.00	4,877.31	4,797.16	4,726.20	10.28	13.25	-136.76	146.10	-647.57	886.85	864.60	22.25	39.857	
5,000.00	4,976.75	4,894.04	4,821.13	10.47	13.51	-136.82	154.09	-665.14	911.46	888.83	22.63	40.268	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:						Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.00	5,076.44	4,991.29	4,916.43	10.65	13.77	-136.75	162.12	-682.78	934.23	911.23	23.01	40.603		
5,200.00	5,176.30	5,088.85	5,012.04	10.82	14.04	-136.57	170.18	-700.48	955.18	931.81	23.37	40.870		
5,300.00	5,276.26	5,186.66	5,107.88	10.98	14.30	-136.28	178.25	-718.22	974.32	950.60	23.72	41.079		
5,400.00	5,376.26	5,284.64	5,203.89	11.05	14.57	-95.34	186.34	-735.99	991.90	967.91	23.99	41.349		
5,500.00	5,476.26	5,382.63	5,299.92	11.15	14.83	-94.78	194.43	-753.76	1,009.32	985.03	24.29	41.549		
5,600.00	5,576.26	5,480.62	5,395.95	11.24	15.10	-94.24	202.52	-771.54	1,026.84	1,002.24	24.60	41.748		
5,700.00	5,676.26	5,578.62	5,491.98	11.33	15.36	-93.72	210.61	-789.31	1,044.44	1,019.54	24.90	41.945		
5,800.00	5,776.26	5,676.61	5,588.01	11.43	15.63	-93.21	218.70	-807.09	1,062.12	1,036.92	25.20	42.141		
5,900.00	5,876.26	5,774.61	5,684.03	11.52	15.89	-92.72	226.79	-824.86	1,079.89	1,054.38	25.51	42.335		
6,000.00	5,976.26	5,872.60	5,780.06	11.61	16.16	-92.25	234.88	-842.64	1,097.72	1,071.91	25.82	42.522		
6,100.00	6,076.26	5,993.63	5,898.86	11.71	16.48	-91.71	244.46	-863.69	1,114.96	1,088.77	26.19	42.566		
6,200.00	6,176.26	6,127.92	6,031.43	11.80	16.79	-91.22	253.33	-883.18	1,129.34	1,102.75	26.59	42.469		
6,300.00	6,276.26	6,263.59	6,166.03	11.89	17.05	-90.85	260.32	-898.54	1,140.59	1,113.63	26.96	42.305		
6,400.00	6,376.26	6,400.29	6,302.18	11.99	17.27	-90.59	265.36	-909.62	1,148.65	1,121.35	27.30	42.078		
6,500.00	6,476.26	6,537.69	6,439.38	12.08	17.43	-90.44	268.39	-916.27	1,153.47	1,125.88	27.59	41.805		
6,600.00	6,576.26	6,675.45	6,577.11	12.17	17.53	-90.39	269.37	-918.43	1,155.04	1,127.24	27.80	41.547		
6,607.60	6,583.85	6,685.92	6,587.58	12.18	17.54	-90.39	269.36	-918.41	1,155.02	1,127.21	27.81	41.528		
6,700.00	6,676.26	6,774.60	6,676.26	12.26	17.58	-90.39	269.37	-918.43	1,155.04	1,127.10	27.94	41.339		
6,800.00	6,776.26	6,874.60	6,776.26	12.35	17.64	-90.39	269.37	-918.43	1,155.04	1,126.95	28.09	41.119		
6,900.00	6,876.26	6,974.60	6,876.26	12.45	17.70	-90.39	269.37	-918.43	1,155.04	1,126.80	28.24	40.901		
7,000.00	6,976.26	7,074.60	6,976.26	12.54	17.76	-90.39	269.37	-918.43	1,155.04	1,126.65	28.39	40.686		
7,100.00	7,076.26	7,174.60	7,076.26	12.63	17.82	-90.39	269.37	-918.43	1,155.04	1,126.50	28.54	40.472		
7,200.00	7,176.26	7,274.60	7,176.26	12.72	17.88	-90.39	269.37	-918.43	1,155.04	1,126.35	28.69	40.261		
7,300.00	7,276.26	7,374.60	7,276.26	12.81	17.94	-90.39	269.37	-918.43	1,155.04	1,126.20	28.84	40.052		
7,400.00	7,376.26	7,474.60	7,376.26	12.90	18.00	-90.39	269.37	-918.43	1,155.04	1,126.05	28.99	39.844		
7,500.00	7,476.26	7,574.60	7,476.26	13.00	18.06	-90.39	269.37	-918.43	1,155.04	1,125.90	29.14	39.639		
7,600.00	7,576.26	7,674.60	7,576.26	13.09	18.12	-90.39	269.37	-918.43	1,155.04	1,125.75	29.29	39.436		
7,700.00	7,676.26	7,774.60	7,676.26	13.18	18.18	-90.39	269.37	-918.43	1,155.04	1,125.60	29.44	39.235		
7,800.00	7,776.26	7,874.60	7,776.26	13.27	18.24	-90.39	269.37	-918.43	1,155.04	1,125.45	29.59	39.036		
7,900.00	7,876.26	7,974.60	7,876.26	13.36	18.30	-90.39	269.37	-918.43	1,155.04	1,125.30	29.74	38.839		
8,000.00	7,976.26	8,074.60	7,976.26	13.45	18.36	-90.39	269.37	-918.43	1,155.04	1,125.15	29.89	38.643		
8,100.00	8,076.26	8,174.60	8,076.26	13.54	18.42	-90.39	269.37	-918.43	1,155.04	1,125.00	30.04	38.450		
8,200.00	8,176.26	8,274.60	8,176.26	13.63	18.48	-90.39	269.37	-918.43	1,155.04	1,124.85	30.19	38.258		
8,300.00	8,276.26	8,374.60	8,276.26	13.72	18.54	-90.39	269.37	-918.43	1,155.04	1,124.70	30.34	38.068		
8,400.00	8,376.26	8,474.60	8,376.26	13.81	18.60	-90.39	269.37	-918.43	1,155.04	1,124.54	30.49	37.880		
8,500.00	8,476.26	8,574.60	8,476.26	13.90	18.66	-90.39	269.37	-918.43	1,155.04	1,124.39	30.64	37.694		
8,600.00	8,576.26	8,674.60	8,576.26	13.99	18.73	-90.39	269.37	-918.43	1,155.04	1,124.24	30.79	37.509		
8,700.00	8,676.26	8,774.60	8,676.26	14.08	18.79	-90.39	269.37	-918.43	1,155.04	1,124.09	30.94	37.326		
8,800.00	8,776.26	8,874.60	8,776.26	14.17	18.85	-90.39	269.37	-918.43	1,155.04	1,123.94	31.10	37.145		
8,900.00	8,876.26	8,974.60	8,876.26	14.26	18.91	-90.39	269.37	-918.43	1,155.04	1,123.79	31.25	36.966		
9,000.00	8,976.26	9,074.60	8,976.26	14.35	18.97	-90.39	269.37	-918.43	1,155.04	1,123.64	31.40	36.788		
9,100.00	9,076.26	9,174.60	9,076.26	14.44	19.04	-90.39	269.37	-918.43	1,155.04	1,123.49	31.55	36.612		
9,200.00	9,176.26	9,274.60	9,176.26	14.53	19.10	-90.39	269.37	-918.43	1,155.04	1,123.34	31.70	36.437		
9,300.00	9,276.26	9,374.60	9,276.26	14.62	19.16	-90.39	269.37	-918.43	1,155.04	1,123.19	31.85	36.264		
9,400.00	9,376.26	9,474.60	9,376.26	14.71	19.23	-90.39	269.37	-918.43	1,155.04	1,123.03	32.00	36.093		
9,500.00	9,476.26	9,574.60	9,476.26	14.80	19.29	-90.39	269.37	-918.43	1,155.04	1,122.88	32.15	35.923		
9,600.00	9,576.26	9,674.60	9,576.26	14.89	19.35	-90.39	269.37	-918.43	1,155.04	1,122.73	32.30	35.754		
9,700.00	9,676.26	9,774.60	9,676.26	14.97	19.41	-90.39	269.37	-918.43	1,155.04	1,122.58	32.46	35.587		
9,800.00	9,776.26	9,874.60	9,776.26	15.06	19.48	-90.39	269.37	-918.43	1,155.04	1,122.43	32.61	35.422		
9,900.00	9,876.26	9,974.60	9,876.26	15.15	19.54	-90.39	269.37	-918.43	1,155.04	1,122.28	32.76	35.258		
10,000.00	9,976.26	10,074.60	9,976.26	15.24	19.61	-90.39	269.37	-918.43	1,155.04	1,122.13	32.91	35.095		
10,100.00	10,076.26	10,174.60	10,076.26	15.33	19.67	-90.39	269.37	-918.43	1,155.04	1,121.97	33.06	34.934		

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:				Offset Site Error:		0.00 usft	
Reference Offset				Semi Major Axis		Offset Wellbore Centre			Distance			Offset Well Error:		0.50 usft			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
10,200.00	10,176.26	10,274.60	10,176.26	15.42	19.73	-90.39	269.37	-918.43	1,155.04	1,121.82	33.22	34.774					
10,300.00	10,276.26	10,374.60	10,276.26	15.51	19.80	-90.39	269.37	-918.43	1,155.04	1,121.67	33.37	34.616					
10,400.00	10,376.26	10,474.60	10,376.26	15.59	19.86	-90.39	269.37	-918.43	1,155.04	1,121.52	33.52	34.459					
10,500.00	10,476.26	10,574.60	10,476.26	15.68	19.93	-90.39	269.37	-918.43	1,155.04	1,121.37	33.67	34.304					
10,600.00	10,576.26	10,674.60	10,576.26	15.77	19.99	-90.39	269.37	-918.43	1,155.04	1,121.21	33.82	34.149					
10,700.00	10,676.26	10,774.60	10,676.26	15.86	20.06	-90.39	269.37	-918.43	1,155.04	1,121.06	33.98	33.996					
10,800.00	10,776.26	10,874.60	10,776.26	15.95	20.12	-90.39	269.37	-918.43	1,155.04	1,120.91	34.13	33.844					
10,900.00	10,876.26	10,974.60	10,876.26	16.04	20.18	-90.39	269.37	-918.43	1,155.04	1,120.76	34.28	33.694					
11,000.00	10,976.26	11,074.60	10,976.26	16.12	20.25	-90.39	269.37	-918.43	1,155.04	1,120.60	34.43	33.545					
11,100.00	11,076.26	11,174.60	11,076.26	16.21	20.31	-90.39	269.37	-918.43	1,155.04	1,120.46	34.58	33.406					
11,149.54	11,125.80	11,224.20	11,125.80	16.26	20.32	-90.49	267.29	-918.41	1,155.03	1,120.43	34.61	33.373					
11,200.00	11,176.26	11,273.97	11,175.15	16.30	20.34	-90.81	260.90	-918.36	1,155.05	1,120.42	34.63	33.355					
11,300.00	11,276.26	11,367.75	11,265.81	16.39	20.35	-91.98	237.37	-918.15	1,155.47	1,120.83	34.64	33.355					
11,400.00	11,376.26	11,450.00	11,341.26	16.48	20.35	-93.59	204.79	-917.87	1,157.25	1,122.60	34.65	33.398					
11,500.00	11,476.26	11,525.02	11,405.37	16.56	20.34	-95.51	165.94	-917.54	1,161.64	1,126.96	34.68	33.494					
11,600.00	11,576.26	11,587.05	11,454.18	16.65	20.33	-97.38	127.71	-917.21	1,169.83	1,135.02	34.81	33.610					
11,700.00	11,676.26	11,639.23	11,491.85	16.74	20.33	-99.14	91.62	-916.90	1,182.78	1,147.71	35.07	33.728					
11,800.00	11,776.26	11,683.06	11,520.83	16.83	20.34	-100.73	58.77	-916.62	1,201.18	1,165.69	35.49	33.841					
11,900.00	11,876.26	11,719.97	11,543.24	16.91	20.36	-102.13	29.44	-916.36	1,225.39	1,189.30	36.09	33.955					
12,000.00	11,976.24	11,750.00	11,560.05	16.97	20.38	76.12	4.56	-916.15	1,255.33	1,218.51	36.82	34.097					
12,100.00	12,075.06	11,784.37	11,577.65	17.02	20.40	71.61	-24.95	-915.90	1,287.69	1,250.16	37.53	34.307					
12,200.00	12,169.87	11,819.15	11,593.63	17.06	20.44	67.35	-55.84	-915.63	1,320.04	1,281.75	38.29	34.474					
12,300.00	12,257.78	11,850.00	11,606.21	17.11	20.48	63.62	-84.00	-915.39	1,350.83	1,311.74	39.09	34.561					
12,400.00	12,336.13	11,900.00	11,623.34	17.16	20.56	60.06	-130.96	-914.98	1,378.69	1,338.92	39.77	34.666					
12,500.00	12,402.54	11,931.43	11,631.98	17.22	20.62	57.49	-161.17	-914.72	1,402.48	1,361.96	40.53	34.606					
12,600.00	12,454.98	11,970.45	11,640.38	17.28	20.70	55.44	-199.26	-914.40	1,421.42	1,380.22	41.20	34.501					
12,700.00	12,491.87	12,000.00	11,645.01	17.37	20.77	54.09	-228.45	-914.14	1,434.88	1,393.05	41.82	34.308					
12,800.00	12,512.08	12,050.00	11,649.40	17.49	20.91	53.29	-278.24	-913.72	1,442.17	1,399.84	42.33	34.067					
12,900.00	12,516.27	12,118.18	11,650.35	17.67	21.13	53.14	-346.40	-913.13	1,443.60	1,400.85	42.75	33.766					
13,000.00	12,517.14	12,218.18	11,651.22	17.92	21.49	53.14	-446.39	-912.27	1,443.61	1,400.37	43.23	33.390					
13,100.00	12,518.02	12,318.18	11,652.08	18.29	21.92	53.14	-546.39	-911.41	1,443.61	1,399.78	43.83	32.939					
13,200.00	12,518.89	12,418.18	11,652.95	18.77	22.40	53.14	-646.38	-910.55	1,443.61	1,399.09	44.53	32.423					
13,300.00	12,519.76	12,518.18	11,653.81	19.37	22.94	53.14	-746.37	-909.69	1,443.62	1,398.29	45.33	31.850					
13,400.00	12,520.64	12,618.18	11,654.68	20.06	23.53	53.14	-846.36	-908.83	1,443.62	1,397.40	46.22	31.232					
13,500.00	12,521.51	12,718.18	11,655.55	20.83	24.17	53.14	-946.36	-907.97	1,443.63	1,396.42	47.21	30.578					
13,600.00	12,522.38	12,818.18	11,656.41	21.67	24.86	53.14	-1,046.35	-907.10	1,443.63	1,395.35	48.28	29.899					
13,700.00	12,523.26	12,918.18	11,657.28	22.56	25.60	53.14	-1,146.34	-906.24	1,443.64	1,394.20	49.44	29.201					
13,800.00	12,524.13	13,018.18	11,658.14	23.51	26.38	53.14	-1,246.33	-905.38	1,443.64	1,392.98	50.66	28.494					
13,900.00	12,525.00	13,118.18	11,659.01	24.50	27.20	53.14	-1,346.33	-904.52	1,443.65	1,391.69	51.96	27.783					
14,000.00	12,525.88	13,218.18	11,659.88	25.53	28.06	53.14	-1,446.32	-903.66	1,443.65	1,390.33	53.32	27.074					
14,100.00	12,526.75	13,318.18	11,660.74	26.59	28.96	53.14	-1,546.31	-902.80	1,443.66	1,388.91	54.74	26.372					
14,200.00	12,527.62	13,418.18	11,661.61	27.67	29.90	53.14	-1,646.30	-901.94	1,443.66	1,387.44	56.22	25.680					
14,300.00	12,528.50	13,518.18	11,662.47	28.79	30.86	53.14	-1,746.30	-901.08	1,443.67	1,385.92	57.74	25.001					
14,400.00	12,529.37	13,618.18	11,663.34	29.92	31.86	53.14	-1,846.29	-900.22	1,443.67	1,384.35	59.32	24.339					
14,500.00	12,530.24	13,718.18	11,664.21	31.07	32.88	53.14	-1,946.28	-899.36	1,443.67	1,382.74	60.93	23.694					
14,600.00	12,531.12	13,818.18	11,665.07	32.25	33.92	53.14	-2,046.28	-898.50	1,443.68	1,381.09	62.59	23.067					
14,700.00	12,531.99	13,918.18	11,665.94	33.43	34.99	53.14	-2,146.27	-897.64	1,443.68	1,379.41	64.28	22.460					
14,800.00	12,532.87	14,018.18	11,666.80	34.63	36.08	53.14	-2,246.26	-896.78	1,443.69	1,377.68	66.00	21.873					
14,900.00	12,533.74	14,118.18	11,667.67	35.85	37.18	53.14	-2,346.25	-895.91	1,443.69	1,375.93	67.76	21.306					
15,000.00	12,534.61	14,218.18	11,668.54	37.07	38.30	53.14	-2,446.25	-895.05	1,443.70	1,374.15	69.55	20.759					
15,100.00	12,535.49	14,318.18	11,669.40	38.30	39.44	53.14	-2,546.24	-894.19	1,443.70	1,372.34	71.36	20.231					
15,200.00	12,536.36	14,418.18	11,670.27	39.55	40.60	53.14	-2,646.23	-893.33	1,443.71	1,370.51	73.20	19.724					

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)		Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)			
20,500.00	12,582.65	19,718.18	11,716.17	109.85	109.17	53.12	-7,945.84	-847.71	1,443.95	1,259.52	184.43	7.829			
20,600.00	12,583.52	19,818.18	11,717.03	111.21	110.51	53.12	-8,045.83	-846.85	1,443.96	1,257.33	186.63	7.737			
20,700.00	12,584.40	19,918.18	11,717.90	112.56	111.86	53.12	-8,145.82	-845.99	1,443.96	1,255.13	188.83	7.647			
20,800.00	12,585.27	20,018.18	11,718.76	113.92	113.20	53.12	-8,245.81	-845.13	1,443.97	1,252.93	191.03	7.559			
20,900.00	12,586.14	20,118.18	11,719.63	115.27	114.55	53.12	-8,345.81	-844.27	1,443.97	1,250.74	193.23	7.473			
21,000.00	12,587.02	20,218.18	11,720.50	116.63	115.89	53.12	-8,445.80	-843.41	1,443.98	1,248.54	195.44	7.388			
21,100.00	12,587.89	20,318.18	11,721.36	117.99	117.24	53.12	-8,545.79	-842.55	1,443.98	1,246.34	197.64	7.306			
21,200.00	12,588.76	20,418.18	11,722.23	119.34	118.59	53.12	-8,645.78	-841.69	1,443.99	1,244.14	199.85	7.225			
21,300.00	12,589.64	20,518.18	11,723.09	120.70	119.94	53.12	-8,745.78	-840.83	1,443.99	1,241.93	202.06	7.146			
21,400.00	12,590.51	20,618.18	11,723.96	122.06	121.28	53.12	-8,845.77	-839.97	1,443.99	1,239.73	204.26	7.069			
21,500.00	12,591.38	20,718.18	11,724.83	123.42	122.63	53.12	-8,945.76	-839.11	1,444.00	1,237.53	206.47	6.994			
21,600.00	12,592.26	20,818.18	11,725.69	124.77	123.98	53.12	-9,045.75	-838.25	1,444.00	1,235.32	208.68	6.920			
21,700.00	12,593.13	20,918.18	11,726.56	126.13	125.33	53.12	-9,145.75	-837.38	1,444.01	1,233.11	210.89	6.847			
21,800.00	12,594.00	21,018.18	11,727.42	127.49	126.68	53.12	-9,245.74	-836.52	1,444.01	1,230.91	213.11	6.776			
21,900.00	12,594.88	21,118.18	11,728.29	128.85	128.03	53.12	-9,345.73	-835.66	1,444.02	1,228.70	215.32	6.706			
22,000.00	12,595.75	21,218.18	11,729.16	130.21	129.38	53.12	-9,445.72	-834.80	1,444.02	1,226.49	217.53	6.638			
22,100.00	12,596.62	21,318.18	11,730.02	131.57	130.73	53.12	-9,545.72	-833.94	1,444.03	1,224.28	219.75	6.571			
22,200.00	12,597.50	21,418.18	11,730.89	132.93	132.09	53.12	-9,645.71	-833.08	1,444.03	1,222.07	221.96	6.506			
22,300.00	12,598.37	21,518.18	11,731.75	134.29	133.44	53.12	-9,745.70	-832.22	1,444.04	1,219.86	224.18	6.441			
22,400.00	12,599.24	21,618.18	11,732.62	135.65	134.79	53.12	-9,845.69	-831.36	1,444.04	1,217.64	226.40	6.378			
22,500.00	12,600.12	21,718.18	11,733.49	137.01	136.14	53.12	-9,945.69	-830.50	1,444.05	1,215.43	228.62	6.316			
22,600.00	12,600.99	21,818.18	11,734.35	138.37	137.50	53.12	-10,045.68	-829.64	1,444.05	1,213.22	230.83	6.256			
22,700.00	12,601.86	21,918.18	11,735.22	139.73	138.85	53.12	-10,145.67	-828.78	1,444.06	1,211.00	233.05	6.196			
22,708.04	12,601.93	21,926.22	11,735.29	139.84	138.96	53.12	-10,153.71	-828.71	1,444.06	1,210.82	233.23	6.191			
22,796.26	12,602.70	22,008.51	11,736.00	141.04	140.07	53.12	-10,236.00	-828.00	1,444.07	1,208.90	235.18	6.140	SF		

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:						Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre			Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
0.00	0.00	0.00	0.00	0.50	0.50	45.00	25.00	25.00	35.36					
100.00	100.00	100.00	100.00	0.98	0.98	45.00	25.00	25.00	35.36	33.39	1.96	18.018	CC, ES	
200.00	200.00	200.00	200.00	1.56	1.56	45.00	25.00	25.00	35.36	32.23	3.12	11.324		
300.00	300.00	300.00	300.00	1.98	1.98	45.00	25.00	25.00	35.36	31.39	3.96	8.923		
400.00	400.00	399.08	399.07	2.33	2.41	45.39	25.72	26.07	36.63	31.89	4.74	7.736		
500.00	500.00	498.02	497.93	2.63	2.78	46.40	27.86	29.26	40.46	35.05	5.40	7.485		
600.00	600.00	596.70	596.40	2.91	3.11	47.71	31.43	34.56	46.85	40.84	6.01	7.799		
700.00	700.00	695.88	695.22	3.16	3.25	48.99	36.16	41.58	55.31	48.91	6.40	8.642		
800.00	800.00	795.50	794.46	3.40	3.50	49.96	41.00	48.79	63.97	57.09	6.88	9.293		
900.00	900.00	895.12	893.70	3.62	3.74	50.69	45.85	55.99	72.64	65.29	7.35	9.885		
1,000.00	1,000.00	994.74	992.94	3.84	3.97	51.26	50.69	63.19	81.32	73.53	7.80	10.432		
1,100.00	1,100.00	1,094.35	1,092.18	4.04	4.20	51.73	55.54	70.40	90.01	81.78	8.23	10.941		
1,200.00	1,200.00	1,193.97	1,191.42	4.23	4.42	52.11	60.39	77.60	98.70	90.06	8.65	11.417		
1,300.00	1,300.00	1,293.59	1,290.66	4.42	4.64	52.43	65.23	84.81	107.40	98.35	9.05	11.865		
1,400.00	1,400.00	1,393.21	1,389.90	4.60	4.86	52.71	70.08	92.01	116.10	106.65	9.45	12.287		
1,500.00	1,500.00	1,492.83	1,489.14	4.78	5.07	52.94	74.93	99.21	124.80	114.96	9.84	12.687		
1,600.00	1,600.00	1,592.45	1,588.38	4.95	5.28	53.14	79.77	106.42	133.51	123.29	10.22	13.066		
1,700.00	1,700.00	1,692.07	1,687.62	5.11	5.48	53.32	84.62	113.62	142.21	131.62	10.59	13.426		
1,800.00	1,800.00	1,791.69	1,786.86	5.28	5.69	53.48	89.47	120.83	150.92	139.96	10.96	13.770		
1,900.00	1,900.00	1,891.31	1,886.10	5.44	5.89	53.62	94.31	128.03	159.62	148.30	11.32	14.099		
2,000.00	2,000.00	1,990.93	1,985.34	5.59	6.09	53.75	99.16	135.23	168.33	156.65	11.68	14.414		
2,100.00	2,100.00	2,090.55	2,084.58	5.74	6.29	53.86	104.00	142.44	177.04	165.01	12.03	14.716		
2,200.00	2,200.00	2,190.17	2,183.82	5.89	6.50	53.97	108.85	149.64	185.75	173.36	12.39	14.994		
2,300.00	2,299.99	2,285.86	2,279.07	6.07	6.70	13.65	113.97	157.24	194.06	181.30	12.76	15.212		
2,400.00	2,399.91	2,380.60	2,373.12	6.24	6.92	13.98	120.32	166.69	202.28	189.16	13.12	15.413		
2,500.00	2,499.69	2,475.14	2,466.66	6.42	7.14	14.46	127.96	178.04	210.45	196.96	13.49	15.603		
2,600.00	2,599.27	2,571.18	2,561.34	6.59	7.31	15.09	136.97	191.43	218.46	204.66	13.80	15.831		
2,700.00	2,698.57	2,670.94	2,659.58	6.76	7.50	15.88	146.64	205.81	224.56	210.39	14.16	15.856		
2,800.00	2,797.62	2,770.79	2,757.91	6.85	7.70	16.79	156.31	220.19	228.75	214.30	14.46	15.824		
2,900.00	2,896.65	2,870.64	2,856.25	7.00	7.91	17.69	165.99	234.58	232.87	218.06	14.81	15.724		
3,000.00	2,995.68	2,970.49	2,954.58	7.15	8.12	18.55	175.67	248.96	237.04	221.88	15.16	15.631		
3,100.00	3,094.70	3,070.34	3,052.91	7.30	8.32	19.38	185.35	263.35	241.27	225.75	15.52	15.544		
3,200.00	3,193.73	3,170.19	3,151.25	7.46	8.53	20.19	195.03	277.73	245.54	229.66	15.88	15.462		
3,300.00	3,292.76	3,270.04	3,249.58	7.61	8.73	20.97	204.71	292.12	249.86	233.62	16.24	15.386		
3,400.00	3,391.78	3,369.89	3,347.91	7.77	8.94	21.72	214.38	306.50	254.23	237.63	16.60	15.314		
3,500.00	3,490.81	3,469.74	3,446.25	7.93	9.15	22.44	224.06	320.89	258.63	241.67	16.96	15.247		
3,600.00	3,589.84	3,569.59	3,544.58	8.09	9.35	23.15	233.74	335.27	263.08	245.75	17.33	15.183		
3,700.00	3,688.87	3,669.44	3,642.91	8.25	9.56	23.82	243.42	349.66	267.57	249.88	17.69	15.127		
3,800.00	3,787.89	3,774.85	3,746.86	8.42	9.78	24.54	253.18	364.17	271.34	253.24	18.09	14.995		
3,900.00	3,886.92	3,882.32	3,853.28	8.58	10.02	25.36	261.54	376.59	272.47	253.96	18.51	14.722		
4,000.00	3,985.95	3,989.75	3,960.03	8.75	10.25	26.28	268.22	386.52	270.88	251.98	18.90	14.331		
4,100.00	4,084.98	4,096.95	4,066.86	8.92	10.46	27.35	273.21	393.94	266.62	247.34	19.27	13.834		
4,200.00	4,184.00	4,203.76	4,173.50	9.09	10.67	28.60	276.51	398.85	259.71	240.09	19.62	13.237		
4,300.00	4,283.03	4,310.01	4,279.71	9.26	10.85	30.08	278.15	401.28	250.22	230.30	19.93	12.557		
4,400.00	4,382.06	4,412.36	4,382.06	9.43	10.92	31.79	278.35	401.58	238.58	218.45	20.13	11.853		
4,500.00	4,481.09	4,511.39	4,481.09	9.60	11.00	33.63	278.35	401.58	226.84	206.48	20.36	11.144		
4,600.00	4,580.11	4,610.42	4,580.11	9.77	11.08	35.68	278.35	401.58	215.36	194.78	20.58	10.464		
4,700.00	4,679.14	4,709.44	4,679.14	9.95	11.17	37.94	278.35	401.58	204.18	183.37	20.80	9.815		
4,800.00	4,778.17	4,808.47	4,778.17	10.12	11.25	40.47	278.35	401.58	193.35	172.33	21.02	9.199		
4,900.00	4,877.31	4,907.61	4,877.31	10.28	11.33	43.02	278.35	401.58	183.57	162.36	21.21	8.654		
5,000.00	4,976.75	5,007.06	4,976.75	10.47	11.41	45.27	278.35	401.58	176.02	154.59	21.43	8.213		
5,100.00	5,076.44	5,106.74	5,076.44	10.65	11.50	47.09	278.35	401.58	170.54	148.90	21.65	7.879		

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:				Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
5,200.00	5,176.30	5,206.60	5,176.30	10.82	11.58	48.38	278.35	401.58	166.99	145.14	21.86	7.641
5,300.00	5,276.26	5,306.56	5,276.26	10.98	11.66	49.05	278.35	401.58	165.23	143.17	22.06	7.490
5,399.51	5,375.76	5,406.07	5,375.76	11.05	11.74	89.70	278.35	401.58	164.79	142.59	22.20	7.423
5,400.00	5,376.26	5,406.56	5,376.26	11.05	11.75	89.61	278.35	401.58	165.00	142.80	22.20	7.432
5,500.00	5,476.26	5,506.56	5,476.26	11.15	11.83	89.61	278.35	401.58	165.00	142.63	22.38	7.373
5,600.00	5,576.26	5,606.56	5,576.26	11.24	11.91	89.61	278.35	401.58	165.00	142.45	22.56	7.316
5,700.00	5,676.26	5,706.56	5,676.26	11.33	11.99	89.61	278.35	401.58	165.00	142.27	22.73	7.259
5,800.00	5,776.26	5,806.56	5,776.26	11.43	12.08	89.61	278.35	401.58	165.00	142.10	22.91	7.203
5,900.00	5,876.26	5,906.56	5,876.26	11.52	12.16	89.61	278.35	401.58	165.00	141.92	23.08	7.148
6,000.00	5,976.26	6,006.56	5,976.26	11.61	12.24	89.61	278.35	401.58	165.00	141.74	23.26	7.094
6,100.00	6,076.26	6,106.56	6,076.26	11.71	12.33	89.61	278.35	401.58	165.00	141.57	23.44	7.041
6,200.00	6,176.26	6,206.56	6,176.26	11.80	12.41	89.61	278.35	401.58	165.00	141.39	23.61	6.988
6,300.00	6,276.26	6,306.56	6,276.26	11.89	12.49	89.61	278.35	401.58	165.00	141.22	23.79	6.937
6,400.00	6,376.26	6,406.56	6,376.26	11.99	12.58	89.61	278.35	401.58	165.00	141.04	23.96	6.886
6,500.00	6,476.26	6,506.56	6,476.26	12.08	12.66	89.61	278.35	401.58	165.00	140.87	24.14	6.836
6,600.00	6,576.26	6,606.56	6,576.26	12.17	12.74	89.61	278.35	401.58	165.00	140.69	24.31	6.787
6,700.00	6,676.26	6,706.56	6,676.26	12.26	12.83	89.61	278.35	401.58	165.00	140.52	24.49	6.739
6,800.00	6,776.26	6,806.56	6,776.26	12.35	12.91	89.61	278.35	401.58	165.00	140.34	24.66	6.691
6,900.00	6,876.26	6,906.56	6,876.26	12.45	12.99	89.61	278.35	401.58	165.00	140.17	24.84	6.644
7,000.00	6,976.26	7,006.56	6,976.26	12.54	13.07	89.61	278.35	401.58	165.00	139.99	25.01	6.598
7,100.00	7,076.26	7,106.56	7,076.26	12.63	13.16	89.61	278.35	401.58	165.00	139.82	25.18	6.552
7,200.00	7,176.26	7,206.56	7,176.26	12.72	13.24	89.61	278.35	401.58	165.00	139.65	25.36	6.507
7,300.00	7,276.26	7,306.56	7,276.26	12.81	13.32	89.61	278.35	401.58	165.00	139.47	25.53	6.463
7,400.00	7,376.26	7,406.56	7,376.26	12.90	13.41	89.61	278.35	401.58	165.00	139.30	25.70	6.419
7,500.00	7,476.26	7,506.56	7,476.26	13.00	13.49	89.61	278.35	401.58	165.00	139.13	25.88	6.376
7,600.00	7,576.26	7,606.56	7,576.26	13.09	13.57	89.61	278.35	401.58	165.00	138.95	26.05	6.334
7,700.00	7,676.26	7,706.56	7,676.26	13.18	13.66	89.61	278.35	401.58	165.00	138.78	26.22	6.292
7,800.00	7,776.26	7,806.56	7,776.26	13.27	13.74	89.61	278.35	401.58	165.00	138.61	26.40	6.251
7,900.00	7,876.26	7,906.56	7,876.26	13.36	13.82	89.61	278.35	401.58	165.00	138.43	26.57	6.210
8,000.00	7,976.26	8,006.56	7,976.26	13.45	13.91	89.61	278.35	401.58	165.00	138.26	26.74	6.170
8,100.00	8,076.26	8,106.56	8,076.26	13.54	13.99	89.61	278.35	401.58	165.00	138.09	26.92	6.130
8,200.00	8,176.26	8,206.56	8,176.26	13.63	14.07	89.61	278.35	401.58	165.00	137.92	27.09	6.091
8,300.00	8,276.26	8,306.56	8,276.26	13.72	14.15	89.61	278.35	401.58	165.00	137.74	27.26	6.053
8,400.00	8,376.26	8,406.56	8,376.26	13.81	14.24	89.61	278.35	401.58	165.00	137.57	27.43	6.015
8,500.00	8,476.26	8,506.56	8,476.26	13.90	14.32	89.61	278.35	401.58	165.00	137.40	27.61	5.977
8,600.00	8,576.26	8,606.56	8,576.26	13.99	14.40	89.61	278.35	401.58	165.00	137.23	27.78	5.940
8,700.00	8,676.26	8,706.56	8,676.26	14.08	14.49	89.61	278.35	401.58	165.00	137.05	27.95	5.904
8,800.00	8,776.26	8,806.56	8,776.26	14.17	14.57	89.61	278.35	401.58	165.00	136.88	28.12	5.868
8,900.00	8,876.26	8,906.56	8,876.26	14.26	14.65	89.61	278.35	401.58	165.00	136.71	28.29	5.832
9,000.00	8,976.26	9,006.56	8,976.26	14.35	14.73	89.61	278.35	401.58	165.00	136.54	28.46	5.797
9,100.00	9,076.26	9,106.56	9,076.26	14.44	14.82	89.61	278.35	401.58	165.00	136.37	28.64	5.762
9,200.00	9,176.26	9,206.56	9,176.26	14.53	14.90	89.61	278.35	401.58	165.00	136.20	28.81	5.728
9,300.00	9,276.26	9,306.56	9,276.26	14.62	14.98	89.61	278.35	401.58	165.00	136.03	28.98	5.694
9,400.00	9,376.26	9,406.56	9,376.26	14.71	15.07	89.61	278.35	401.58	165.00	135.85	29.15	5.661
9,500.00	9,476.26	9,506.56	9,476.26	14.80	15.15	89.61	278.35	401.58	165.00	135.68	29.32	5.627
9,600.00	9,576.26	9,606.56	9,576.26	14.89	15.23	89.61	278.35	401.58	165.00	135.51	29.49	5.595
9,700.00	9,676.26	9,706.56	9,676.26	14.97	15.32	89.61	278.35	401.58	165.00	135.34	29.66	5.563
9,800.00	9,776.26	9,806.56	9,776.26	15.06	15.40	89.61	278.35	401.58	165.00	135.17	29.83	5.531
9,900.00	9,876.26	9,906.56	9,876.26	15.15	15.48	89.61	278.35	401.58	165.00	135.00	30.00	5.499
10,000.00	9,976.26	10,006.56	9,976.26	15.24	15.56	89.61	278.35	401.58	165.00	134.83	30.18	5.468
10,100.00	10,076.26	10,106.56	10,076.26	15.33	15.65	89.61	278.35	401.58	165.00	134.66	30.35	5.437
10,200.00	10,176.26	10,206.56	10,176.26	15.42	15.73	89.61	278.35	401.58	165.00	134.49	30.52	5.407

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	0.00 usft
												Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Reference (usft)	Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
10,300.00	10,276.26	10,306.56	10,276.26	15.51	15.81	89.61	278.35	401.58	165.00	134.32	30.69	5.377	
10,400.00	10,376.26	10,406.56	10,376.26	15.59	15.90	89.61	278.35	401.58	165.00	134.15	30.86	5.347	
10,500.00	10,476.26	10,506.56	10,476.26	15.68	15.98	89.61	278.35	401.58	165.00	133.98	31.03	5.318	
10,600.00	10,576.26	10,606.56	10,576.26	15.77	16.06	89.61	278.35	401.58	165.00	133.81	31.20	5.289	
10,700.00	10,676.26	10,706.56	10,676.26	15.86	16.14	89.61	278.35	401.58	165.00	133.64	31.37	5.260	
10,800.00	10,776.26	10,806.56	10,776.26	15.95	16.23	89.61	278.35	401.58	165.00	133.47	31.54	5.232	
10,900.00	10,876.26	10,906.56	10,876.26	16.04	16.31	89.61	278.35	401.58	165.00	133.30	31.71	5.204	
11,000.00	10,976.26	11,006.56	10,976.26	16.12	16.39	89.61	278.35	401.58	165.00	133.13	31.88	5.176	
11,016.58	10,992.84	11,023.14	10,992.84	16.14	16.41	89.61	278.35	401.58	165.00	133.10	31.91	5.171	
11,100.00	11,076.26	11,106.56	11,076.26	16.21	16.48	89.61	278.35	401.58	165.00	132.95	32.05	5.148	
11,100.01	11,076.27	11,106.57	11,076.27	16.21	16.48	89.61	278.35	401.58	165.00	132.95	32.05	5.148	SF
11,200.00	11,176.26	11,205.50	11,174.71	16.30	16.52	92.58	269.78	401.65	165.25	133.17	32.08	5.152	
11,300.00	11,276.26	11,300.00	11,266.03	16.39	16.57	100.73	245.92	401.86	168.53	136.47	32.06	5.257	
11,400.00	11,376.26	11,382.75	11,341.84	16.48	16.62	111.22	212.95	402.14	180.91	148.33	32.58	5.554	
11,500.00	11,476.26	11,455.54	11,404.01	16.56	16.67	121.60	175.18	402.47	207.74	173.57	34.17	6.080	
11,600.00	11,576.26	11,517.40	11,452.72	16.65	16.72	130.13	137.09	402.80	250.05	213.52	36.53	6.845	
11,700.00	11,676.26	11,569.48	11,490.35	16.74	16.77	136.60	101.12	403.11	305.46	266.50	38.96	7.841	
11,800.00	11,776.26	11,613.25	11,519.35	16.83	16.81	141.39	68.34	403.39	370.76	329.67	41.09	9.023	
11,900.00	11,876.26	11,650.00	11,541.70	16.91	16.85	144.94	39.18	403.64	443.29	400.42	42.87	10.339	
12,000.00	11,976.24	11,681.86	11,559.53	16.97	16.89	-29.75	12.79	403.87	520.63	476.28	44.35	11.739	
12,100.00	12,075.06	11,714.53	11,576.26	17.02	16.94	-23.15	-15.27	404.11	594.64	548.96	45.68	13.018	
12,200.00	12,169.87	11,750.00	11,592.58	17.06	16.99	-18.81	-46.75	404.38	661.89	614.98	46.91	14.110	
12,300.00	12,257.78	11,785.65	11,606.99	17.11	17.05	-15.93	-79.35	404.66	721.35	673.27	48.08	15.004	
12,400.00	12,336.13	11,823.16	11,619.93	17.16	17.11	-13.96	-114.55	404.96	772.25	723.11	49.13	15.717	
12,500.00	12,402.54	11,850.00	11,627.77	17.22	17.17	-12.67	-140.22	405.18	814.18	763.98	50.20	16.220	
12,600.00	12,454.98	11,900.00	11,639.12	17.28	17.28	-11.69	-188.90	405.60	846.11	795.19	50.92	16.617	
12,700.00	12,491.87	11,950.00	11,646.19	17.37	17.41	-11.10	-238.38	406.03	868.42	816.87	51.56	16.844	
12,800.00	12,512.08	11,979.63	11,648.34	17.49	17.49	-10.83	-267.93	406.28	880.28	828.10	52.18	16.871	
12,900.00	12,516.27	12,046.86	11,649.34	17.67	17.71	-10.78	-335.14	406.86	882.53	830.04	52.49	16.815	
13,000.00	12,517.14	12,146.86	11,650.21	17.92	18.11	-10.78	-435.13	407.72	882.53	829.88	52.65	16.763	
13,100.00	12,518.02	12,246.86	11,651.09	18.29	18.59	-10.78	-535.12	408.58	882.52	829.70	52.83	16.706	
13,200.00	12,518.89	12,346.86	11,651.96	18.77	19.16	-10.78	-635.12	409.45	882.52	829.50	53.03	16.643	
13,300.00	12,519.76	12,446.86	11,652.84	19.37	19.81	-10.78	-735.11	410.31	882.52	829.27	53.25	16.575	
13,400.00	12,520.64	12,546.86	11,653.72	20.06	20.53	-10.78	-835.10	411.17	882.52	829.03	53.48	16.501	
13,500.00	12,521.51	12,646.86	11,654.59	20.83	21.33	-10.78	-935.09	412.03	882.51	828.77	53.74	16.422	
13,600.00	12,522.38	12,746.86	11,655.47	21.67	22.18	-10.78	-1,035.09	412.89	882.51	828.49	54.02	16.338	
13,700.00	12,523.26	12,846.86	11,656.35	22.56	23.08	-10.78	-1,135.08	413.75	882.51	828.20	54.31	16.250	
13,800.00	12,524.13	12,946.86	11,657.22	23.51	24.04	-10.78	-1,235.07	414.61	882.50	827.88	54.62	16.157	
13,900.00	12,525.00	13,046.86	11,658.10	24.50	25.03	-10.78	-1,335.06	415.47	882.50	827.55	54.95	16.060	
14,000.00	12,525.88	13,146.86	11,658.98	25.53	26.06	-10.78	-1,435.05	416.33	882.50	827.20	55.29	15.960	
14,100.00	12,526.75	13,246.86	11,659.85	26.59	27.12	-10.78	-1,535.05	417.19	882.49	826.84	55.66	15.856	
14,200.00	12,527.62	13,346.86	11,660.73	27.67	28.21	-10.78	-1,635.04	418.05	882.49	826.45	56.04	15.748	
14,300.00	12,528.50	13,446.86	11,661.61	28.79	29.32	-10.78	-1,735.03	418.92	882.49	826.06	56.43	15.638	
14,400.00	12,529.37	13,546.86	11,662.48	29.92	30.46	-10.78	-1,835.02	419.78	882.49	825.64	56.85	15.524	
14,500.00	12,530.24	13,646.86	11,663.36	31.07	31.61	-10.78	-1,935.02	420.64	882.48	825.21	57.27	15.409	
14,600.00	12,531.12	13,746.86	11,664.23	32.25	32.79	-10.78	-2,035.01	421.50	882.48	824.77	57.71	15.290	
14,700.00	12,531.99	13,846.86	11,665.11	33.43	33.97	-10.78	-2,135.00	422.36	882.48	824.30	58.17	15.170	
14,800.00	12,532.87	13,946.86	11,665.99	34.63	35.17	-10.78	-2,234.99	423.22	882.47	823.83	58.64	15.048	
14,900.00	12,533.74	14,046.86	11,666.86	35.85	36.39	-10.78	-2,334.99	424.08	882.47	823.34	59.13	14.924	
15,000.00	12,534.61	14,146.86	11,667.74	37.07	37.61	-10.78	-2,434.98	424.94	882.47	822.84	59.63	14.799	
15,100.00	12,535.49	14,246.86	11,668.62	38.30	38.84	-10.78	-2,534.97	425.80	882.47	822.32	60.14	14.673	
15,200.00	12,536.36	14,346.86	11,669.49	39.55	40.09	-10.78	-2,634.96	426.66	882.46	821.79	60.67	14.545	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,300.00	12,537.23	14,446.86	11,670.37	40.80	41.34	-10.78	-2,734.96	427.53	882.46	821.25	61.21	14.417		
15,400.00	12,538.11	14,546.86	11,671.25	42.06	42.60	-10.78	-2,834.95	428.39	882.46	820.69	61.76	14.288		
15,500.00	12,538.98	14,646.86	11,672.12	43.32	43.86	-10.78	-2,934.94	429.25	882.45	820.13	62.33	14.159		
15,600.00	12,539.85	14,746.86	11,673.00	44.59	45.13	-10.78	-3,034.93	430.11	882.45	819.55	62.90	14.029		
15,700.00	12,540.73	14,846.86	11,673.87	45.87	46.41	-10.78	-3,134.93	430.97	882.45	818.96	63.49	13.899		
15,800.00	12,541.60	14,946.86	11,674.75	47.16	47.69	-10.78	-3,234.92	431.83	882.44	818.36	64.09	13.769		
15,900.00	12,542.47	15,046.86	11,675.63	48.44	48.98	-10.78	-3,334.91	432.69	882.44	817.75	64.70	13.640		
16,000.00	12,543.35	15,146.86	11,676.50	49.73	50.27	-10.78	-3,434.90	433.55	882.44	817.12	65.32	13.510		
16,100.00	12,544.22	15,246.86	11,677.38	51.03	51.57	-10.78	-3,534.90	434.41	882.44	816.49	65.95	13.381		
16,200.00	12,545.09	15,346.86	11,678.26	52.33	52.87	-10.78	-3,634.89	435.27	882.43	815.85	66.59	13.252		
16,300.00	12,545.97	15,446.86	11,679.13	53.63	54.17	-10.78	-3,734.88	436.14	882.43	815.19	67.24	13.124		
16,400.00	12,546.84	15,546.86	11,680.01	54.94	55.48	-10.78	-3,834.87	437.00	882.43	814.53	67.90	12.997		
16,500.00	12,547.71	15,646.86	11,680.89	56.25	56.78	-10.78	-3,934.87	437.86	882.42	813.86	68.56	12.870		
16,600.00	12,548.59	15,746.86	11,681.76	57.56	58.10	-10.78	-4,034.86	438.72	882.42	813.18	69.24	12.744		
16,700.00	12,549.46	15,846.86	11,682.64	58.88	59.41	-10.78	-4,134.85	439.58	882.42	812.49	69.93	12.619		
16,800.00	12,550.33	15,946.86	11,683.52	60.20	60.73	-10.78	-4,234.84	440.44	882.42	811.79	70.62	12.495		
16,900.00	12,551.21	16,046.86	11,684.39	61.52	62.05	-10.78	-4,334.84	441.30	882.41	811.09	71.32	12.372		
17,000.00	12,552.08	16,146.86	11,685.27	62.84	63.37	-10.78	-4,434.83	442.16	882.41	810.38	72.03	12.250		
17,100.00	12,552.95	16,246.86	11,686.14	64.16	64.69	-10.78	-4,534.82	443.02	882.41	809.66	72.75	12.129		
17,200.00	12,553.83	16,346.86	11,687.02	65.49	66.02	-10.78	-4,634.81	443.88	882.40	808.93	73.48	12.010		
17,300.00	12,554.70	16,446.86	11,687.90	66.82	67.35	-10.78	-4,734.81	444.74	882.40	808.19	74.21	11.891		
17,400.00	12,555.57	16,546.86	11,688.77	68.14	68.68	-10.78	-4,834.80	445.61	882.40	807.45	74.95	11.774		
17,500.00	12,556.45	16,646.86	11,689.65	69.48	70.01	-10.78	-4,934.79	446.47	882.39	806.70	75.69	11.658		
17,600.00	12,557.32	16,746.86	11,690.53	70.81	71.34	-10.78	-5,034.78	447.33	882.39	805.95	76.45	11.543		
17,700.00	12,558.19	16,846.86	11,691.40	72.14	72.67	-10.78	-5,134.78	448.19	882.39	805.18	77.20	11.429		
17,800.00	12,559.07	16,946.86	11,692.28	73.48	74.01	-10.78	-5,234.77	449.05	882.39	804.42	77.97	11.317		
17,900.00	12,559.94	17,046.86	11,693.16	74.81	75.34	-10.78	-5,334.76	449.91	882.38	803.64	78.74	11.206		
18,000.00	12,560.81	17,146.86	11,694.03	76.15	76.68	-10.78	-5,434.75	450.77	882.38	802.86	79.52	11.097		
18,100.00	12,561.69	17,246.86	11,694.91	77.49	78.02	-10.78	-5,534.75	451.63	882.38	802.08	80.30	10.988		
18,200.00	12,562.56	17,346.86	11,695.79	78.83	79.36	-10.78	-5,634.74	452.49	882.37	801.28	81.09	10.881		
18,300.00	12,563.43	17,446.86	11,696.66	80.17	80.70	-10.78	-5,734.73	453.35	882.37	800.49	81.88	10.776		
18,400.00	12,564.31	17,546.86	11,697.54	81.51	82.04	-10.78	-5,834.72	454.22	882.37	799.69	82.68	10.672		
18,500.00	12,565.18	17,646.86	11,698.41	82.86	83.38	-10.78	-5,934.72	455.08	882.36	798.88	83.49	10.569		
18,600.00	12,566.05	17,746.86	11,699.29	84.20	84.73	-10.78	-6,034.71	455.94	882.36	798.07	84.29	10.468		
18,700.00	12,566.93	17,846.86	11,700.17	85.54	86.07	-10.78	-6,134.70	456.80	882.36	797.25	85.11	10.367		
18,800.00	12,567.80	17,946.86	11,701.04	86.89	87.42	-10.78	-6,234.69	457.66	882.36	796.43	85.93	10.269		
18,900.00	12,568.67	18,046.86	11,701.92	88.24	88.76	-10.78	-6,334.69	458.52	882.35	795.60	86.75	10.171		
19,000.00	12,569.55	18,146.86	11,702.80	89.58	90.11	-10.78	-6,434.68	459.38	882.35	794.77	87.58	10.075		
19,100.00	12,570.42	18,246.86	11,703.67	90.93	91.46	-10.78	-6,534.67	460.24	882.35	793.94	88.41	9.980		
19,200.00	12,571.29	18,346.86	11,704.55	92.28	92.80	-10.78	-6,634.66	461.10	882.34	793.10	89.24	9.887		
19,300.00	12,572.17	18,446.86	11,705.43	93.63	94.15	-10.78	-6,734.66	461.96	882.34	792.26	90.08	9.795		
19,400.00	12,573.04	18,546.86	11,706.30	94.98	95.50	-10.78	-6,834.65	462.83	882.34	791.41	90.93	9.704		
19,500.00	12,573.91	18,646.86	11,707.18	96.33	96.85	-10.78	-6,934.64	463.69	882.34	790.56	91.77	9.614		
19,600.00	12,574.79	18,746.86	11,708.05	97.68	98.20	-10.78	-7,034.63	464.55	882.33	789.71	92.63	9.526		
19,700.00	12,575.66	18,846.86	11,708.93	99.03	99.55	-10.78	-7,134.62	465.41	882.33	788.85	93.48	9.439		
19,800.00	12,576.54	18,946.86	11,709.81	100.38	100.90	-10.78	-7,234.62	466.27	882.33	787.99	94.34	9.353		
19,900.00	12,577.41	19,046.86	11,710.68	101.73	102.26	-10.78	-7,334.61	467.13	882.32	787.12	95.20	9.268		
20,000.00	12,578.28	19,146.86	11,711.56	103.08	103.61	-10.78	-7,434.60	467.99	882.32	786.26	96.06	9.185		
20,100.00	12,579.16	19,246.86	11,712.44	104.44	104.96	-10.78	-7,534.59	468.85	882.32	785.38	96.93	9.102		
20,200.00	12,580.03	19,346.86	11,713.31	105.79	106.31	-10.78	-7,634.59	469.71	882.31	784.51	97.80	9.021		
20,300.00	12,580.90	19,446.86	11,714.19	107.14	107.67	-10.78	-7,734.58	470.57	882.31	783.63	98.68	8.941		
20,400.00	12,581.78	19,546.86	11,715.07	108.50	109.02	-10.78	-7,834.57	471.43	882.31	782.75	99.56	8.862		

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:					Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)
20,500.00	12,582.65	19,646.86	11,715.94	109.85	110.38	-10.78	-7,934.56	472.30	882.31	781.87	100.44	8.785	
20,600.00	12,583.52	19,746.86	11,716.82	111.21	111.73	-10.78	-8,034.56	473.16	882.30	780.98	101.32	8.708	
20,700.00	12,584.40	19,846.86	11,717.70	112.56	113.09	-10.78	-8,134.55	474.02	882.30	780.10	102.20	8.633	
20,800.00	12,585.27	19,946.86	11,718.57	113.92	114.44	-10.78	-8,234.54	474.88	882.30	779.20	103.09	8.558	
20,900.00	12,586.14	20,046.86	11,719.45	115.27	115.80	-10.78	-8,334.53	475.74	882.29	778.31	103.98	8.485	
21,000.00	12,587.02	20,146.86	11,720.32	116.63	117.15	-10.78	-8,434.53	476.60	882.29	777.41	104.88	8.413	
21,100.00	12,587.89	20,246.86	11,721.20	117.99	118.51	-10.78	-8,534.52	477.46	882.29	776.51	105.77	8.341	
21,200.00	12,588.76	20,346.86	11,722.08	119.34	119.87	-10.78	-8,634.51	478.32	882.28	775.61	106.67	8.271	
21,300.00	12,589.64	20,446.86	11,722.95	120.70	121.22	-10.78	-8,734.50	479.18	882.28	774.71	107.57	8.202	
21,400.00	12,590.51	20,546.86	11,723.83	122.06	122.58	-10.78	-8,834.50	480.04	882.28	773.80	108.48	8.133	
21,500.00	12,591.38	20,646.86	11,724.71	123.42	123.94	-10.78	-8,934.49	480.91	882.28	772.89	109.38	8.066	
21,600.00	12,592.26	20,746.86	11,725.58	124.77	125.30	-10.78	-9,034.48	481.77	882.27	771.98	110.29	8.000	
21,700.00	12,593.13	20,846.86	11,726.46	126.13	126.66	-10.78	-9,134.47	482.63	882.27	771.07	111.20	7.934	
21,800.00	12,594.00	20,946.86	11,727.34	127.49	128.01	-10.78	-9,234.47	483.49	882.27	770.16	112.11	7.870	
21,900.00	12,594.88	21,046.86	11,728.21	128.85	129.37	-10.78	-9,334.46	484.35	882.26	769.24	113.02	7.806	
22,000.00	12,595.75	21,146.86	11,729.09	130.21	130.73	-10.78	-9,434.45	485.21	882.26	768.32	113.94	7.743	
22,100.00	12,596.62	21,246.86	11,729.97	131.57	132.09	-10.78	-9,534.44	486.07	882.26	767.40	114.86	7.681	
22,200.00	12,597.50	21,346.86	11,730.84	132.93	133.45	-10.78	-9,634.44	486.93	882.26	766.48	115.78	7.620	
22,300.00	12,598.37	21,446.86	11,731.72	134.29	134.81	-10.78	-9,734.43	487.79	882.25	765.55	116.70	7.560	
22,400.00	12,599.24	21,546.86	11,732.59	135.65	136.17	-10.78	-9,834.42	488.65	882.25	764.63	117.62	7.501	
22,500.00	12,600.12	21,646.86	11,733.47	137.01	137.53	-10.78	-9,934.41	489.52	882.25	763.70	118.55	7.442	
22,600.00	12,600.99	21,746.86	11,734.35	138.37	138.89	-10.78	-10,034.41	490.38	882.24	762.77	119.47	7.384	
22,700.00	12,601.86	21,846.86	11,735.22	139.73	140.25	-10.78	-10,134.40	491.24	882.24	761.84	120.40	7.327	
22,784.69	12,602.60	21,931.55	11,735.97	140.88	141.40	-10.78	-10,219.08	491.97	882.24	761.05	121.19	7.280	
22,796.26	12,602.70	21,935.47	11,736.00	141.04	141.45	-10.78	-10,223.00	492.00	882.27	760.85	121.42	7.266	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)													Offset Site Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Offset Well Error: 0.50 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	3.00	0.00	0.50	0.50	69.74	856.00	2,319.00	2,471.94					
100.00	100.00	103.00	100.00	0.98	1.00	69.74	856.00	2,319.00	2,471.94	2,469.96	1.98	1,249.329		
200.00	200.00	203.00	200.00	1.56	1.57	69.74	856.00	2,319.00	2,471.94	2,468.81	3.13	788.572		
300.00	300.00	305.54	302.54	1.98	2.00	69.74	856.00	2,319.00	2,471.94	2,467.96	3.98	620.728		
400.00	400.00	490.11	487.03	2.33	2.73	69.82	851.71	2,317.01	2,470.13	2,465.14	4.99	495.361		
500.00	500.00	655.34	651.83	2.63	3.16	70.01	841.07	2,312.08	2,464.99	2,459.31	5.68	434.220		
600.00	600.00	754.96	751.07	2.91	3.36	70.15	833.20	2,308.43	2,458.84	2,452.68	6.15	399.521		
700.00	700.00	854.58	850.31	3.16	3.60	70.30	825.32	2,304.78	2,452.70	2,446.05	6.65	369.019		
800.00	800.00	954.20	949.55	3.40	3.83	70.44	817.44	2,301.13	2,446.58	2,439.47	7.11	343.892		
900.00	900.00	1,053.82	1,048.79	3.62	4.05	70.59	809.56	2,297.47	2,440.48	2,432.91	7.56	322.756		
1,000.00	1,000.00	1,153.44	1,148.03	3.84	4.27	70.74	801.69	2,293.82	2,434.39	2,426.40	7.99	304.630		
1,100.00	1,100.00	1,253.27	1,247.49	4.04	4.44	70.88	793.79	2,290.16	2,428.31	2,419.96	8.36	290.559		
1,200.00	1,200.00	1,431.09	1,424.20	4.23	4.84	71.22	775.98	2,281.90	2,420.64	2,411.73	8.91	271.709		
1,300.00	1,300.00	1,606.70	1,597.64	4.42	5.29	71.69	751.08	2,270.36	2,409.82	2,400.32	9.50	253.537		
1,400.00	1,400.00	1,753.53	1,741.59	4.60	5.61	72.20	724.86	2,258.21	2,396.17	2,386.17	10.00	239.701		
1,500.00	1,500.00	1,851.34	1,837.27	4.78	5.81	72.57	706.42	2,249.65	2,381.96	2,371.57	10.39	229.255		
1,600.00	1,600.00	1,949.16	1,932.95	4.95	6.01	72.93	687.97	2,241.10	2,367.85	2,357.05	10.80	219.297		
1,700.00	1,700.00	2,046.97	2,028.63	5.11	6.22	73.31	669.53	2,232.55	2,353.84	2,342.63	11.20	210.109		
1,800.00	1,800.00	2,144.79	2,124.31	5.28	6.43	73.68	651.08	2,224.00	2,339.93	2,328.32	11.61	201.602		
1,900.00	1,900.00	2,242.61	2,219.99	5.44	6.64	74.06	632.64	2,215.45	2,326.12	2,314.11	12.01	193.702		
2,000.00	2,000.00	2,340.42	2,315.67	5.59	6.85	74.45	614.19	2,206.89	2,312.41	2,300.01	12.41	186.379		
2,100.00	2,100.00	2,438.24	2,411.35	5.74	7.10	74.84	595.75	2,198.34	2,298.82	2,286.00	12.81	179.420		
2,200.00	2,200.00	2,536.05	2,507.03	5.89	7.37	75.23	577.30	2,189.79	2,285.33	2,272.12	13.21	173.004		
2,300.00	2,299.99	2,633.60	2,602.44	6.07	7.65	35.30	558.91	2,181.26	2,270.89	2,257.26	13.63	166.650		
2,400.00	2,399.91	2,730.55	2,697.27	6.24	7.92	35.90	540.63	2,172.78	2,254.47	2,240.43	14.04	160.585		
2,500.00	2,499.69	2,826.84	2,791.46	6.42	8.19	36.57	522.47	2,164.36	2,236.13	2,221.68	14.45	154.758		
2,600.00	2,599.27	2,922.41	2,884.95	6.59	8.46	37.30	504.45	2,156.01	2,215.91	2,201.05	14.86	149.144		
2,700.00	2,698.57	3,017.20	2,977.66	6.76	8.73	38.11	486.57	2,147.72	2,193.88	2,178.62	15.26	143.721		
2,800.00	2,797.62	3,111.32	3,069.73	6.85	9.00	38.82	468.82	2,139.49	2,170.55	2,154.94	15.60	139.119		
2,900.00	2,896.65	3,205.40	3,161.76	7.00	9.26	39.47	451.08	2,131.27	2,147.38	2,131.39	15.99	134.255		
3,000.00	2,995.68	3,299.48	3,253.78	7.15	9.53	40.14	433.34	2,123.04	2,124.51	2,108.11	16.39	129.609		
3,100.00	3,094.70	3,393.56	3,345.81	7.30	9.80	40.82	415.60	2,114.81	2,101.93	2,085.14	16.79	125.168		
3,200.00	3,193.73	3,487.64	3,437.83	7.46	10.07	41.51	397.86	2,106.59	2,079.66	2,062.46	17.20	120.924		
3,300.00	3,292.76	3,581.72	3,529.85	7.61	10.34	42.22	380.12	2,098.36	2,057.70	2,040.10	17.61	116.867		
3,400.00	3,391.78	3,671.93	3,618.10	7.77	10.58	42.91	363.13	2,090.49	2,036.09	2,018.11	17.98	113.216		
3,500.00	3,490.81	3,745.45	3,690.21	7.93	10.77	43.46	350.12	2,084.45	2,015.47	1,997.13	18.33	109.935		
3,600.00	3,589.84	3,819.93	3,763.52	8.09	10.96	43.99	338.23	2,078.94	1,996.12	1,977.43	18.69	106.790		
3,700.00	3,688.87	3,900.00	3,842.61	8.25	11.15	44.53	326.90	2,073.69	1,978.03	1,958.98	19.05	103.822		
3,800.00	3,787.89	3,971.57	3,913.51	8.42	11.31	44.98	318.04	2,069.58	1,961.15	1,941.77	19.38	101.199		
3,900.00	3,886.92	4,048.66	3,990.07	8.58	11.46	45.44	309.86	2,065.78	1,945.46	1,925.76	19.71	98.724		
4,000.00	3,985.95	4,126.52	4,067.56	8.75	11.61	45.87	303.01	2,062.61	1,930.94	1,910.92	20.02	96.440		
4,100.00	4,084.98	4,200.00	4,140.82	8.92	11.73	46.23	297.86	2,060.22	1,917.55	1,897.23	20.32	94.375		
4,200.00	4,184.00	4,284.34	4,225.03	9.09	11.85	46.62	293.54	2,058.22	1,905.24	1,884.63	20.61	92.426		
4,300.00	4,283.03	4,364.19	4,304.82	9.26	11.94	46.94	290.99	2,057.04	1,894.02	1,873.13	20.89	90.682		
4,400.00	4,382.06	4,444.57	4,385.20	9.43	12.00	47.22	289.96	2,056.56	1,883.84	1,862.72	21.12	89.206		
4,500.00	4,481.09	4,540.46	4,481.09	9.60	12.02	47.52	289.94	2,056.55	1,874.35	1,853.04	21.31	87.968		
4,600.00	4,580.11	4,639.49	4,580.11	9.77	12.06	47.83	289.94	2,056.55	1,864.93	1,843.41	21.52	86.676		
4,700.00	4,679.14	4,738.52	4,679.14	9.95	12.10	48.15	289.94	2,056.55	1,855.57	1,833.84	21.73	85.407		
4,800.00	4,778.17	4,837.54	4,778.17	10.12	12.14	48.47	289.94	2,056.55	1,846.26	1,824.33	21.94	84.160		
4,900.00	4,877.31	4,936.68	4,877.31	10.28	12.18	48.69	289.94	2,056.55	1,837.59	1,815.46	22.12	83.057		
5,000.00	4,976.75	5,036.13	4,976.75	10.47	12.22	48.86	289.94	2,056.55	1,830.65	1,808.31	22.33	81.968		
5,100.00	5,076.44	5,135.81	5,076.44	10.65	12.26	48.99	289.94	2,056.55	1,825.45	1,802.92	22.53	81.013		

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)		Rule Assigned:		Offset Site Error:		Offset Well Error:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Reference (usft)	Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,200.00	5,176.30	5,235.67	5,176.30	10.82	12.30	49.07	289.94	2,056.55	1,821.99	1,799.27	22.72	80.191			
5,300.00	5,276.26	5,335.63	5,276.26	10.98	12.34	49.12	289.94	2,056.55	1,820.24	1,797.35	22.90	79.503			
5,399.57	5,375.82	5,435.20	5,375.82	11.05	12.38	89.61	289.94	2,056.55	1,819.80	1,796.80	23.00	79.134	CC		
5,400.00	5,376.26	5,435.63	5,376.26	11.05	12.38	89.60	289.94	2,056.55	1,820.01	1,797.02	23.00	79.142			
5,500.00	5,476.26	5,535.63	5,476.26	11.15	12.42	89.60	289.94	2,056.55	1,820.01	1,796.88	23.13	78.676			
5,600.00	5,576.26	5,635.63	5,576.26	11.24	12.47	89.60	289.94	2,056.55	1,820.01	1,796.74	23.27	78.215			
5,700.00	5,676.26	5,735.63	5,676.26	11.33	12.51	89.60	289.94	2,056.55	1,820.01	1,796.61	23.41	77.758			
5,800.00	5,776.26	5,835.63	5,776.26	11.43	12.55	89.60	289.94	2,056.55	1,820.01	1,796.47	23.54	77.306			
5,900.00	5,876.26	5,935.63	5,876.26	11.52	12.60	89.60	289.94	2,056.55	1,820.01	1,796.33	23.68	76.859			
6,000.00	5,976.26	6,035.63	5,976.26	11.61	12.64	89.60	289.94	2,056.55	1,820.01	1,796.20	23.82	76.417			
6,100.00	6,076.26	6,135.63	6,076.26	11.71	12.69	89.60	289.94	2,056.55	1,820.01	1,796.06	23.95	75.978			
6,200.00	6,176.26	6,235.63	6,176.26	11.80	12.73	89.60	289.94	2,056.55	1,820.01	1,795.92	24.09	75.544			
6,300.00	6,276.26	6,335.63	6,276.26	11.89	12.78	89.60	289.94	2,056.55	1,820.01	1,795.78	24.23	75.115			
6,400.00	6,376.26	6,435.63	6,376.26	11.99	12.82	89.60	289.94	2,056.55	1,820.01	1,795.65	24.37	74.689			
6,500.00	6,476.26	6,535.63	6,476.26	12.08	12.87	89.60	289.94	2,056.55	1,820.01	1,795.51	24.51	74.268			
6,600.00	6,576.26	6,635.63	6,576.26	12.17	12.92	89.60	289.94	2,056.55	1,820.01	1,795.37	24.64	73.851			
6,700.00	6,676.26	6,735.63	6,676.26	12.26	12.96	89.60	289.94	2,056.55	1,820.01	1,795.23	24.78	73.438			
6,800.00	6,776.26	6,835.63	6,776.26	12.35	13.01	89.60	289.94	2,056.55	1,820.01	1,795.09	24.92	73.029			
6,900.00	6,876.26	6,935.63	6,876.26	12.45	13.06	89.60	289.94	2,056.55	1,820.01	1,794.95	25.06	72.624			
7,000.00	6,976.26	7,035.63	6,976.26	12.54	13.11	89.60	289.94	2,056.55	1,820.01	1,794.81	25.20	72.223			
7,100.00	7,076.26	7,135.63	7,076.26	12.63	13.15	89.60	289.94	2,056.55	1,820.01	1,794.68	25.34	71.826			
7,200.00	7,176.26	7,235.63	7,176.26	12.72	13.20	89.60	289.94	2,056.55	1,820.01	1,794.54	25.48	71.433			
7,300.00	7,276.26	7,335.63	7,276.26	12.81	13.25	89.60	289.94	2,056.55	1,820.01	1,794.40	25.62	71.043			
7,400.00	7,376.26	7,435.63	7,376.26	12.90	13.30	89.60	289.94	2,056.55	1,820.01	1,794.26	25.76	70.657			
7,500.00	7,476.26	7,535.63	7,476.26	13.00	13.35	89.60	289.94	2,056.55	1,820.01	1,794.12	25.90	70.275			
7,600.00	7,576.26	7,635.63	7,576.26	13.09	13.40	89.60	289.94	2,056.55	1,820.01	1,793.98	26.04	69.896			
7,700.00	7,676.26	7,735.63	7,676.26	13.18	13.45	89.60	289.94	2,056.55	1,820.01	1,793.83	26.18	69.521			
7,800.00	7,776.26	7,835.63	7,776.26	13.27	13.50	89.60	289.94	2,056.55	1,820.01	1,793.69	26.32	69.149			
7,900.00	7,876.26	7,935.63	7,876.26	13.36	13.55	89.60	289.94	2,056.55	1,820.01	1,793.55	26.46	68.781			
8,000.00	7,976.26	8,035.63	7,976.26	13.45	13.61	89.60	289.94	2,056.55	1,820.01	1,793.41	26.60	68.416			
8,100.00	8,076.26	8,135.63	8,076.26	13.54	13.66	89.60	289.94	2,056.55	1,820.01	1,793.27	26.74	68.055			
8,200.00	8,176.26	8,235.63	8,176.26	13.63	13.71	89.60	289.94	2,056.55	1,820.01	1,793.13	26.88	67.696			
8,300.00	8,276.26	8,335.63	8,276.26	13.72	13.76	89.60	289.94	2,056.55	1,820.01	1,792.99	27.03	67.342			
8,400.00	8,376.26	8,435.63	8,376.26	13.81	13.81	89.60	289.94	2,056.55	1,820.01	1,792.85	27.17	66.990			
8,500.00	8,476.26	8,535.63	8,476.26	13.90	13.87	89.60	289.94	2,056.55	1,820.01	1,792.70	27.31	66.642			
8,600.00	8,576.26	8,635.63	8,576.26	13.99	13.92	89.60	289.94	2,056.55	1,820.01	1,792.56	27.45	66.296			
8,700.00	8,676.26	8,735.63	8,676.26	14.08	13.97	89.60	289.94	2,056.55	1,820.01	1,792.42	27.60	65.954			
8,800.00	8,776.26	8,835.63	8,776.26	14.17	14.03	89.60	289.94	2,056.55	1,820.01	1,792.28	27.74	65.615			
8,900.00	8,876.26	8,935.63	8,876.26	14.26	14.08	89.60	289.94	2,056.55	1,820.01	1,792.13	27.88	65.279			
9,000.00	8,976.26	9,035.63	8,976.26	14.35	14.14	89.60	289.94	2,056.55	1,820.01	1,791.99	28.02	64.946			
9,100.00	9,076.26	9,135.63	9,076.26	14.44	14.19	89.60	289.94	2,056.55	1,820.01	1,791.85	28.17	64.617			
9,200.00	9,176.26	9,235.63	9,176.26	14.53	14.24	89.60	289.94	2,056.55	1,820.01	1,791.70	28.31	64.289			
9,300.00	9,276.26	9,335.63	9,276.26	14.62	14.30	89.60	289.94	2,056.55	1,820.01	1,791.56	28.45	63.965			
9,400.00	9,376.26	9,435.63	9,376.26	14.71	14.36	89.60	289.94	2,056.55	1,820.01	1,791.42	28.60	63.644			
9,500.00	9,476.26	9,535.63	9,476.26	14.80	14.41	89.60	289.94	2,056.55	1,820.01	1,791.27	28.74	63.326			
9,600.00	9,576.26	9,635.63	9,576.26	14.89	14.47	89.60	289.94	2,056.55	1,820.01	1,791.13	28.88	63.010			
9,700.00	9,676.26	9,735.63	9,676.26	14.97	14.52	89.60	289.94	2,056.55	1,820.01	1,790.99	29.03	62.697			
9,800.00	9,776.26	9,835.63	9,776.26	15.06	14.58	89.60	289.94	2,056.55	1,820.01	1,790.84	29.17	62.387			
9,900.00	9,876.26	9,935.63	9,876.26	15.15	14.64	89.60	289.94	2,056.55	1,820.01	1,790.70	29.32	62.080			
10,000.00	9,976.26	10,035.63	9,976.26	15.24	14.69	89.60	289.94	2,056.55	1,820.01	1,790.55	29.46	61.775			
10,100.00	10,076.26	10,135.63	10,076.26	15.33	14.75	89.60	289.94	2,056.55	1,820.01	1,790.41	29.61	61.473			
10,200.00	10,176.26	10,235.63	10,176.26	15.42	14.81	89.60	289.94	2,056.55	1,820.01	1,790.26	29.75	61.173			

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance		Offset Well Error: 0.50 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,276.26	10,335.63	10,276.26	15.51	14.87	89.60	289.94	2,056.55	1,820.01	1,790.12	29.90	60.877	
10,400.00	10,376.26	10,435.63	10,376.26	15.59	14.92	89.60	289.94	2,056.55	1,820.01	1,789.97	30.04	60.582	
10,500.00	10,476.26	10,535.63	10,476.26	15.68	14.98	89.60	289.94	2,056.55	1,820.01	1,789.83	30.19	60.290	
10,600.00	10,576.26	10,635.63	10,576.26	15.77	15.04	89.60	289.94	2,056.55	1,820.01	1,789.68	30.33	60.001	
10,700.00	10,676.26	10,735.63	10,676.26	15.86	15.10	89.60	289.94	2,056.55	1,820.01	1,789.54	30.48	59.714	
10,800.00	10,776.26	10,835.63	10,776.26	15.95	15.16	89.60	289.94	2,056.55	1,820.01	1,789.39	30.62	59.430	
10,900.00	10,876.26	10,935.63	10,876.26	16.04	15.22	89.60	289.94	2,056.55	1,820.01	1,789.24	30.77	59.148	
11,000.00	10,976.26	11,035.63	10,976.26	16.12	15.27	89.60	289.94	2,056.55	1,820.01	1,789.10	30.91	58.874	
11,004.43	10,980.69	11,040.07	10,980.69	16.13	15.28	89.60	289.94	2,056.55	1,820.01	1,789.09	30.92	58.862	
11,100.00	11,076.26	11,135.20	11,075.77	16.21	15.34	89.66	287.95	2,056.57	1,820.02	1,788.97	31.05	58.622	
11,200.00	11,176.26	11,231.53	11,170.64	16.30	15.51	90.17	271.90	2,056.71	1,820.15	1,788.90	31.25	58.250	ES
11,300.00	11,276.26	11,320.25	11,254.52	16.39	15.74	91.07	243.26	2,056.97	1,820.84	1,789.30	31.54	57.734	
11,400.00	11,376.26	11,400.00	11,325.34	16.48	16.00	92.22	206.75	2,057.31	1,822.80	1,790.90	31.90	57.141	
11,500.00	11,476.26	11,465.90	11,379.59	16.56	16.27	93.39	169.39	2,057.65	1,826.82	1,794.50	32.31	56.535	
11,600.00	11,576.26	11,522.85	11,422.74	16.65	16.54	94.55	132.27	2,057.98	1,833.60	1,800.83	32.77	55.948	
11,700.00	11,676.26	11,570.76	11,456.05	16.74	16.80	95.62	97.85	2,058.30	1,843.72	1,810.45	33.28	55.403	
11,800.00	11,776.26	11,611.11	11,481.79	16.83	17.05	96.59	66.79	2,058.58	1,857.60	1,823.77	33.83	54.909	
11,900.00	11,876.26	11,650.00	11,504.47	16.91	17.31	97.57	35.21	2,058.87	1,875.51	1,841.05	34.46	54.432	
12,000.00	11,976.24	11,674.69	11,517.73	16.97	17.49	-80.53	14.39	2,059.05	1,897.42	1,862.36	35.06	54.124	
12,100.00	12,075.06	11,700.00	11,530.39	17.02	17.68	-77.52	-7.53	2,059.25	1,921.16	1,885.54	35.62	53.934	
12,200.00	12,169.87	11,750.00	11,552.49	17.06	18.08	-74.10	-52.36	2,059.66	1,945.06	1,908.75	36.32	53.557	
12,300.00	12,257.78	11,773.12	11,561.36	17.11	18.28	-71.47	-73.71	2,059.86	1,967.81	1,930.92	36.89	53.346	
12,400.00	12,336.13	11,800.00	11,570.59	17.16	18.52	-69.05	-98.95	2,060.08	1,988.65	1,951.18	37.47	53.073	
12,500.00	12,402.54	11,850.00	11,584.57	17.22	18.98	-66.78	-146.94	2,060.52	2,006.49	1,968.31	38.18	52.556	
12,600.00	12,454.98	11,883.71	11,591.61	17.28	19.30	-65.18	-179.90	2,060.82	2,020.73	1,981.93	38.80	52.085	
12,700.00	12,491.87	11,921.82	11,597.21	17.37	19.68	-64.04	-217.58	2,061.16	2,030.79	1,991.36	39.43	51.498	
12,800.00	12,512.08	11,950.00	11,599.74	17.49	19.96	-63.44	-245.65	2,061.42	2,036.36	1,996.37	39.99	50.919	
12,900.00	12,516.27	12,021.60	11,601.15	17.67	20.70	-63.31	-317.22	2,062.07	2,037.39	1,996.55	40.84	49.884	
13,000.00	12,517.14	12,121.60	11,601.67	17.92	21.76	-63.30	-417.21	2,062.98	2,037.59	1,995.59	42.00	48.513	
13,100.00	12,518.02	12,221.60	11,602.20	18.29	22.87	-63.29	-517.21	2,063.89	2,037.79	1,994.53	43.27	47.098	
13,200.00	12,518.89	12,321.60	11,602.72	18.77	24.00	-63.29	-617.20	2,064.80	2,037.99	1,993.36	44.63	45.662	
13,300.00	12,519.76	12,421.60	11,603.25	19.37	25.15	-63.28	-717.20	2,065.70	2,038.19	1,992.10	46.09	44.223	
13,400.00	12,520.64	12,521.60	11,603.77	20.06	26.32	-63.27	-817.19	2,066.61	2,038.39	1,990.76	47.63	42.796	
13,500.00	12,521.51	12,621.60	11,604.30	20.83	27.51	-63.26	-917.18	2,067.52	2,038.59	1,989.34	49.25	41.395	
13,600.00	12,522.38	12,721.60	11,604.82	21.67	28.72	-63.25	-1,017.18	2,068.43	2,038.79	1,987.85	50.93	40.028	
13,700.00	12,523.26	12,821.60	11,605.35	22.56	29.94	-63.24	-1,117.17	2,069.34	2,038.99	1,986.30	52.68	38.702	
13,800.00	12,524.13	12,921.60	11,605.87	23.51	31.17	-63.24	-1,217.17	2,070.25	2,039.19	1,984.70	54.49	37.422	
13,900.00	12,525.00	13,021.60	11,606.40	24.50	32.42	-63.23	-1,317.16	2,071.16	2,039.39	1,983.04	56.35	36.191	
14,000.00	12,525.88	13,121.60	11,606.92	25.53	33.67	-63.22	-1,417.15	2,072.07	2,039.59	1,981.33	58.26	35.011	
14,100.00	12,526.75	13,221.60	11,607.45	26.59	34.93	-63.21	-1,517.15	2,072.98	2,039.79	1,979.58	60.20	33.881	
14,200.00	12,527.62	13,321.60	11,607.97	27.67	36.20	-63.20	-1,617.14	2,073.88	2,039.99	1,977.80	62.19	32.802	
14,300.00	12,528.50	13,421.60	11,608.50	28.79	37.48	-63.20	-1,717.13	2,074.79	2,040.19	1,975.97	64.21	31.773	
14,400.00	12,529.37	13,521.59	11,609.02	29.92	38.76	-63.19	-1,817.13	2,075.70	2,040.39	1,974.12	66.26	30.791	
14,500.00	12,530.24	13,621.59	11,609.55	31.07	40.05	-63.18	-1,917.12	2,076.61	2,040.59	1,972.24	68.35	29.857	
14,600.00	12,531.12	13,721.59	11,610.07	32.25	41.35	-63.17	-2,017.12	2,077.52	2,040.79	1,970.33	70.45	28.966	
14,700.00	12,531.99	13,821.59	11,610.60	33.43	42.64	-63.16	-2,117.11	2,078.43	2,040.99	1,968.40	72.58	28.119	
14,800.00	12,532.87	13,921.59	11,611.12	34.63	43.95	-63.16	-2,217.10	2,079.34	2,041.19	1,966.45	74.74	27.312	
14,900.00	12,533.74	14,021.59	11,611.65	35.85	45.25	-63.15	-2,317.10	2,080.25	2,041.39	1,964.48	76.91	26.543	
15,000.00	12,534.61	14,121.59	11,612.17	37.07	46.56	-63.14	-2,417.09	2,081.16	2,041.59	1,962.49	79.10	25.810	
15,100.00	12,535.49	14,221.59	11,612.70	38.30	47.88	-63.13	-2,517.09	2,082.06	2,041.79	1,960.48	81.31	25.112	
15,200.00	12,536.36	14,321.59	11,613.22	39.55	49.19	-63.12	-2,617.08	2,082.97	2,041.99	1,958.46	83.53	24.447	
15,300.00	12,537.23	14,421.59	11,613.75	40.80	50.51	-63.11	-2,717.07	2,083.88	2,042.19	1,956.42	85.76	23.812	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

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

Rule Assigned:

Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,583.52	19,721.56	11,641.58	111.21	122.02	-62.69	-8,016.75	2,132.06	2,052.86	1,841.23	211.62	9.700	
20,700.00	12,584.40	19,821.56	11,642.10	112.56	123.38	-62.68	-8,116.74	2,132.96	2,053.06	1,839.01	214.05	9.592	
20,800.00	12,585.27	19,921.56	11,642.63	113.92	124.74	-62.67	-8,216.74	2,133.87	2,053.26	1,836.79	216.47	9.485	
20,900.00	12,586.14	20,021.55	11,643.15	115.27	126.10	-62.66	-8,316.73	2,134.78	2,053.47	1,834.57	218.89	9.381	
21,000.00	12,587.02	20,121.55	11,643.68	116.63	127.47	-62.66	-8,416.72	2,135.69	2,053.67	1,832.35	221.32	9.279	
21,100.00	12,587.89	20,221.55	11,644.20	117.99	128.83	-62.65	-8,516.72	2,136.60	2,053.87	1,830.13	223.74	9.180	
21,200.00	12,588.76	20,321.55	11,644.73	119.34	130.19	-62.64	-8,616.71	2,137.51	2,054.07	1,827.91	226.17	9.082	
21,300.00	12,589.64	20,421.55	11,645.25	120.70	131.55	-62.63	-8,716.71	2,138.42	2,054.28	1,825.68	228.59	8.987	
21,400.00	12,590.51	20,521.55	11,645.78	122.06	132.92	-62.62	-8,816.70	2,139.33	2,054.48	1,823.46	231.02	8.893	
21,500.00	12,591.38	20,621.55	11,646.30	123.42	134.28	-62.62	-8,916.69	2,140.24	2,054.68	1,821.24	233.44	8.802	
21,600.00	12,592.26	20,721.55	11,646.83	124.77	135.64	-62.61	-9,016.69	2,141.14	2,054.88	1,819.02	235.87	8.712	
21,700.00	12,593.13	20,821.55	11,647.35	126.13	137.00	-62.60	-9,116.68	2,142.05	2,055.09	1,816.79	238.29	8.624	
21,800.00	12,594.00	20,921.55	11,647.88	127.49	138.37	-62.59	-9,216.68	2,142.96	2,055.29	1,814.57	240.72	8.538	
21,900.00	12,594.88	21,021.55	11,648.40	128.85	139.73	-62.58	-9,316.67	2,143.87	2,055.49	1,812.34	243.15	8.454	
22,000.00	12,595.75	21,121.55	11,648.93	130.21	141.09	-62.58	-9,416.66	2,144.78	2,055.70	1,810.12	245.58	8.371	
22,100.00	12,596.62	21,221.55	11,649.45	131.57	142.46	-62.57	-9,516.66	2,145.69	2,055.90	1,807.90	248.00	8.290	
22,200.00	12,597.50	21,321.55	11,649.98	132.93	143.82	-62.56	-9,616.65	2,146.60	2,056.10	1,805.67	250.43	8.210	
22,300.00	12,598.37	21,421.55	11,650.50	134.29	145.18	-62.55	-9,716.64	2,147.51	2,056.30	1,803.45	252.86	8.132	
22,400.00	12,599.24	21,521.55	11,651.03	135.65	146.55	-62.54	-9,816.64	2,148.42	2,056.51	1,801.22	255.29	8.056	
22,500.00	12,600.12	21,621.54	11,651.55	137.01	147.91	-62.54	-9,916.63	2,149.32	2,056.71	1,799.00	257.71	7.981	
22,600.00	12,600.99	21,721.54	11,652.08	138.37	149.27	-62.53	-10,016.63	2,150.23	2,056.91	1,796.77	260.14	7.907	
22,700.00	12,601.86	21,821.54	11,652.60	139.73	150.64	-62.52	-10,116.62	2,151.14	2,057.12	1,794.55	262.57	7.835	
22,796.26	12,602.70	21,915.93	11,653.10	141.04	151.93	-62.51	-10,211.00	2,152.00	2,057.31	1,792.43	264.88	7.767	SF

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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 158H - OH - Plan 1

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)							Rule Assigned:					Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	0.00	0.00	0.50	0.50	73.86	671.00	2,319.00	2,414.13					
100.00	100.00	100.00	100.00	0.98	0.98	73.86	671.00	2,319.00	2,414.13	2,412.16	1.96	1,230.326		
200.00	200.00	200.00	200.00	1.56	1.56	73.86	671.00	2,319.00	2,414.13	2,411.00	3.12	773.201		
300.00	300.00	300.00	300.00	1.98	1.98	73.86	671.00	2,319.00	2,414.13	2,410.16	3.96	609.271	CC	
400.00	400.00	376.61	376.61	2.33	2.30	73.88	670.46	2,319.54	2,414.61	2,410.02	4.59	526.043	ES	
500.00	500.00	453.17	453.12	2.63	2.60	73.93	668.83	2,321.17	2,416.06	2,410.92	5.14	469.977		
600.00	600.00	529.59	529.46	2.91	2.87	74.01	666.12	2,323.88	2,418.49	2,412.85	5.64	428.480		
700.00	700.00	605.84	605.51	3.16	3.10	74.12	662.35	2,327.65	2,421.90	2,415.80	6.10	396.973		
800.00	800.00	696.96	696.29	3.40	3.23	74.28	656.80	2,333.20	2,426.10	2,419.64	6.46	375.796		
900.00	900.00	796.58	795.53	3.62	3.47	74.46	650.66	2,339.34	2,430.39	2,423.46	6.92	351.016		
1,000.00	1,000.00	896.20	894.77	3.84	3.70	74.63	644.52	2,345.48	2,434.70	2,427.32	7.37	330.204		
1,100.00	1,100.00	995.82	994.01	4.04	3.93	74.81	638.38	2,351.62	2,439.03	2,431.23	7.80	312.501		
1,200.00	1,200.00	1,095.43	1,093.25	4.23	4.15	74.99	632.24	2,357.76	2,443.39	2,435.17	8.22	297.202		
1,300.00	1,300.00	1,195.05	1,192.49	4.42	4.38	75.17	626.10	2,363.90	2,447.77	2,439.14	8.63	283.598		
1,400.00	1,400.00	1,259.57	1,256.74	4.60	4.52	75.28	622.12	2,368.30	2,452.83	2,443.88	8.95	274.142		
1,500.00	1,500.00	1,321.06	1,317.89	4.78	4.66	75.40	618.29	2,373.49	2,459.45	2,450.20	9.25	265.822		
1,600.00	1,600.00	1,400.00	1,396.25	4.95	4.85	75.56	613.33	2,381.61	2,467.74	2,458.14	9.60	257.056		
1,700.00	1,700.00	1,443.45	1,439.31	5.11	4.95	75.65	610.58	2,386.77	2,477.38	2,467.53	9.86	251.336		
1,800.00	1,800.00	1,500.00	1,495.24	5.28	5.09	75.77	606.99	2,394.21	2,488.69	2,478.55	10.14	245.415		
1,900.00	1,900.00	1,564.86	1,559.26	5.44	5.24	75.92	602.84	2,403.78	2,501.53	2,491.09	10.45	239.492		
2,000.00	2,000.00	1,625.11	1,618.57	5.59	5.38	76.06	598.96	2,413.63	2,515.92	2,505.19	10.73	234.404	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 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)														Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Reference (usft)	Major Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	1.00	0.00	0.50	0.50	180.00	-185.00	0.00	185.00	183.03	1.97	94.021			
100.00	100.00	101.00	100.00	0.98	0.99	180.00	-185.00	0.00	185.00	181.87	3.13	59.173			
200.00	200.00	201.00	200.00	1.56	1.57	180.00	-185.00	0.00	185.00	181.03	3.97	46.647			
300.00	300.00	301.02	300.02	1.98	1.99	-180.00	-185.00	0.00	185.00	181.03	3.97	46.647			
400.00	400.00	402.91	401.89	2.33	2.42	-179.60	-184.46	-1.28	184.48	179.80	4.68	39.437			
500.00	500.00	504.65	503.55	2.63	2.80	-178.42	-182.88	-5.05	182.98	177.69	5.30	34.549			
600.00	600.00	606.10	604.77	2.91	3.12	-176.41	-180.25	-11.30	180.67	174.83	5.84	30.928			
700.00	700.00	706.14	704.44	3.16	3.27	-173.79	-176.92	-19.25	178.01	171.78	6.23	28.558			
800.00	800.00	805.76	803.68	3.40	3.52	-171.07	-173.55	-27.26	175.72	169.00	6.72	26.163			
900.00	900.00	905.38	902.92	3.62	3.76	-168.29	-170.19	-35.26	173.83	166.66	7.17	24.231			
1,000.00	1,000.00	1,005.00	1,002.16	3.84	3.99	-165.46	-166.83	-43.27	172.36	164.75	7.61	22.646			
1,100.00	1,100.00	1,104.62	1,101.40	4.04	4.22	-162.59	-163.47	-51.27	171.33	163.29	8.03	21.333			
1,200.00	1,200.00	1,204.24	1,200.64	4.23	4.43	-159.68	-160.11	-59.28	170.73	162.30	8.43	20.246			
1,282.82	1,282.82	1,286.74	1,282.82	4.39	4.54	-157.22	-157.26	-66.05	170.57	161.89	8.68	19.655	CC		
1,300.00	1,300.00	1,303.84	1,299.83	4.42	4.57	-156.65	-156.61	-67.59	170.58	161.85	8.73	19.533	ES		
1,400.00	1,400.00	1,403.00	1,398.35	4.60	4.83	-152.89	-152.26	-77.96	171.07	161.94	9.13	18.742			
1,500.00	1,500.00	1,501.52	1,495.91	4.78	5.09	-148.35	-146.96	-90.59	172.68	163.16	9.52	18.133			
1,600.00	1,600.00	1,599.26	1,592.32	4.95	5.34	-143.17	-140.74	-105.41	176.00	166.08	9.92	17.735			
1,700.00	1,700.00	1,696.11	1,687.41	5.11	5.59	-137.53	-133.63	-122.33	181.60	171.27	10.33	17.576			
1,800.00	1,800.00	1,791.96	1,781.03	5.28	5.83	-131.66	-125.68	-141.26	190.02	179.28	10.75	17.681			
1,900.00	1,900.00	1,888.59	1,875.02	5.44	6.00	-125.84	-116.98	-161.97	201.35	190.23	11.12	18.107			
2,000.00	2,000.00	1,985.82	1,969.56	5.59	6.21	-120.61	-108.19	-182.90	214.68	203.14	11.53	18.618			
2,100.00	2,100.00	2,083.06	2,064.11	5.74	6.42	-116.00	-99.40	-203.84	229.60	217.67	11.93	19.238			
2,200.00	2,200.00	2,180.30	2,158.66	5.89	6.63	-111.96	-90.61	-224.77	245.85	233.52	12.33	19.938			
2,300.00	2,299.99	2,277.43	2,253.11	6.07	6.85	-148.90	-81.83	-245.68	264.26	251.52	12.74	20.744			
2,400.00	2,399.91	2,374.31	2,347.31	6.24	7.08	-146.06	-73.07	-266.54	285.60	272.47	13.14	21.742			
2,500.00	2,499.69	2,470.87	2,441.20	6.42	7.33	-143.84	-64.34	-287.32	309.52	295.99	13.53	22.884			
2,600.00	2,599.27	2,567.04	2,534.72	6.59	7.60	-142.15	-55.65	-308.03	335.74	321.83	13.91	24.137			
2,700.00	2,698.57	2,662.77	2,627.80	6.76	7.88	-140.90	-46.99	-328.64	364.10	349.81	14.29	25.478			
2,800.00	2,797.62	2,758.10	2,720.49	6.85	8.16	-140.17	-38.38	-349.16	394.03	379.42	14.61	26.978			
2,900.00	2,896.65	2,853.40	2,813.16	7.00	8.44	-139.65	-29.76	-369.68	424.10	409.13	14.97	28.328			
3,000.00	2,995.68	2,948.70	2,905.83	7.15	8.72	-139.19	-21.14	-390.20	454.21	438.87	15.34	29.611			
3,100.00	3,094.70	3,044.01	2,998.50	7.30	9.01	-138.79	-12.53	-410.71	484.33	468.62	15.71	30.830			
3,200.00	3,193.73	3,139.31	3,091.16	7.46	9.30	-138.43	-3.91	-431.23	514.48	498.40	16.08	31.990			
3,300.00	3,292.76	3,234.61	3,183.83	7.61	9.59	-138.11	4.70	-451.75	544.64	528.18	16.46	33.093			
3,400.00	3,391.78	3,329.91	3,276.50	7.77	9.88	-137.83	13.32	-472.26	574.82	557.98	16.83	34.144			
3,500.00	3,490.81	3,425.22	3,369.17	7.93	10.17	-137.58	21.93	-492.78	605.00	587.79	17.21	35.146			
3,600.00	3,589.84	3,520.52	3,461.84	8.09	10.46	-137.35	30.55	-513.30	635.20	617.60	17.59	36.101			
3,700.00	3,688.87	3,615.82	3,554.50	8.25	10.75	-137.14	39.17	-533.81	665.40	647.42	17.98	37.013			
3,800.00	3,787.89	3,711.12	3,647.17	8.42	11.05	-136.95	47.78	-554.33	695.61	677.25	18.36	37.883			
3,900.00	3,886.92	3,806.43	3,739.84	8.58	11.34	-136.77	56.40	-574.85	725.83	707.08	18.75	38.715			
4,000.00	3,985.95	3,901.73	3,832.51	8.75	11.63	-136.61	65.01	-595.37	756.06	736.92	19.14	39.510			
4,100.00	4,084.98	3,997.03	3,925.18	8.92	11.93	-136.46	73.63	-615.88	786.29	766.76	19.52	40.271			
4,200.00	4,184.00	4,092.33	4,017.85	9.09	12.23	-136.32	82.24	-636.40	816.52	796.60	19.92	41.000			
4,300.00	4,283.03	4,187.64	4,110.51	9.26	12.52	-136.20	90.86	-656.92	846.76	826.45	20.31	41.698			
4,400.00	4,382.06	4,282.94	4,203.18	9.43	12.82	-136.08	99.48	-677.43	877.00	856.30	20.70	42.367			
4,500.00	4,481.09	4,378.24	4,295.85	9.60	13.12	-135.97	108.09	-697.95	907.24	886.15	21.09	43.009			
4,600.00	4,580.11	4,473.54	4,388.52	9.77	13.41	-135.86	116.71	-718.47	937.49	916.00	21.49	43.625			
4,700.00	4,679.14	4,568.85	4,481.19	9.95	13.71	-135.76	125.32	-738.98	967.74	945.85	21.89	44.216			
4,800.00	4,778.17	4,664.15	4,573.85	10.12	14.01	-135.67	133.94	-759.50	997.99	975.71	22.28	44.785			
4,900.00	4,877.31	4,759.62	4,666.69	10.28	14.31	-135.81	142.57	-780.06	1,027.65	1,005.00	22.66	45.354			
5,000.00	4,976.75	4,855.57	4,759.99	10.47	14.61	-135.90	151.24	-800.71	1,055.56	1,032.50	23.05	45.788			

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)												Rule Assigned:			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Reference (usft)	Major Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning		
							+N/-S (usft)	+E/-W (usft)							
5,100.00	5,076.44	4,951.94	4,853.69	10.65	14.91	-135.88	159.96	-821.46	1,081.67	1,058.23	23.44	46.152			
5,200.00	5,176.30	5,048.67	4,947.74	10.82	15.21	-135.75	168.70	-842.28	1,106.01	1,082.20	23.81	46.453			
5,300.00	5,276.26	5,145.68	5,042.07	10.98	15.52	-135.53	177.47	-863.17	1,128.58	1,104.41	24.17	46.702			
5,400.00	5,376.26	5,242.89	5,136.59	11.05	15.82	-94.64	186.26	-884.09	1,149.62	1,125.17	24.45	47.028			
5,500.00	5,476.26	5,340.12	5,231.14	11.15	16.13	-94.12	195.05	-905.03	1,170.51	1,145.75	24.76	47.275			
5,600.00	5,576.26	5,437.36	5,325.69	11.24	16.44	-93.61	203.84	-925.96	1,191.50	1,166.43	25.07	47.520			
5,700.00	5,676.26	5,534.59	5,420.24	11.33	16.74	-93.12	212.63	-946.89	1,212.57	1,187.18	25.39	47.762			
5,800.00	5,776.26	5,631.83	5,514.79	11.43	17.05	-92.65	221.42	-967.83	1,233.73	1,208.02	25.70	48.002			
5,900.00	5,876.26	5,742.34	5,622.30	11.52	17.39	-92.14	231.31	-991.39	1,254.79	1,228.73	26.06	48.145			
6,000.00	5,976.26	5,882.57	5,759.57	11.61	17.79	-91.59	242.40	-1,017.80	1,273.43	1,246.91	26.52	48.025			
6,100.00	6,076.26	6,024.78	5,899.75	11.71	18.13	-91.15	251.65	-1,039.81	1,288.79	1,261.86	26.94	47.845			
6,200.00	6,176.26	6,168.62	6,042.34	11.80	18.42	-90.81	258.94	-1,057.17	1,300.79	1,273.47	27.32	47.609			
6,300.00	6,276.26	6,313.68	6,186.77	11.89	18.66	-90.57	264.18	-1,069.66	1,309.36	1,281.69	27.67	47.321			
6,400.00	6,376.26	6,459.58	6,332.43	11.99	18.83	-90.43	267.31	-1,077.10	1,314.45	1,286.48	27.97	46.995			
6,500.00	6,476.26	6,603.44	6,476.26	12.08	18.95	-90.39	268.28	-1,079.42	1,316.03	1,287.86	28.17	46.710			
6,600.00	6,576.26	6,703.44	6,576.26	12.17	19.00	-90.39	268.28	-1,079.42	1,316.03	1,287.71	28.32	46.468			
6,700.00	6,676.26	6,803.44	6,676.26	12.26	19.06	-90.39	268.28	-1,079.42	1,316.03	1,287.56	28.47	46.228			
6,800.00	6,776.26	6,903.44	6,776.26	12.35	19.11	-90.39	268.28	-1,079.42	1,316.03	1,287.42	28.62	45.991			
6,900.00	6,876.26	7,003.44	6,876.26	12.45	19.16	-90.39	268.28	-1,079.42	1,316.03	1,287.27	28.76	45.756			
7,000.00	6,976.26	7,103.44	6,976.26	12.54	19.22	-90.39	268.28	-1,079.42	1,316.03	1,287.12	28.91	45.523			
7,100.00	7,076.26	7,203.44	7,076.26	12.63	19.27	-90.39	268.28	-1,079.42	1,316.03	1,286.97	29.06	45.293			
7,200.00	7,176.26	7,303.44	7,176.26	12.72	19.33	-90.39	268.28	-1,079.42	1,316.03	1,286.83	29.20	45.064			
7,300.00	7,276.26	7,403.44	7,276.26	12.81	19.38	-90.39	268.28	-1,079.42	1,316.03	1,286.68	29.35	44.838			
7,400.00	7,376.26	7,503.44	7,376.26	12.90	19.44	-90.39	268.28	-1,079.42	1,316.03	1,286.53	29.50	44.614			
7,500.00	7,476.26	7,603.44	7,476.26	13.00	19.49	-90.39	268.28	-1,079.42	1,316.03	1,286.38	29.65	44.392			
7,600.00	7,576.26	7,703.44	7,576.26	13.09	19.55	-90.39	268.28	-1,079.42	1,316.03	1,286.24	29.79	44.172			
7,700.00	7,676.26	7,803.44	7,676.26	13.18	19.61	-90.39	268.28	-1,079.42	1,316.03	1,286.09	29.94	43.955			
7,800.00	7,776.26	7,903.44	7,776.26	13.27	19.66	-90.39	268.28	-1,079.42	1,316.03	1,285.94	30.09	43.739			
7,900.00	7,876.26	8,003.44	7,876.26	13.36	19.72	-90.39	268.28	-1,079.42	1,316.03	1,285.79	30.24	43.525			
8,000.00	7,976.26	8,103.44	7,976.26	13.45	19.77	-90.39	268.28	-1,079.42	1,316.03	1,285.65	30.38	43.313			
8,100.00	8,076.26	8,203.44	8,076.26	13.54	19.83	-90.39	268.28	-1,079.42	1,316.03	1,285.50	30.53	43.104			
8,200.00	8,176.26	8,303.44	8,176.26	13.63	19.89	-90.39	268.28	-1,079.42	1,316.03	1,285.35	30.68	42.896			
8,300.00	8,276.26	8,403.44	8,276.26	13.72	19.94	-90.39	268.28	-1,079.42	1,316.03	1,285.20	30.83	42.690			
8,400.00	8,376.26	8,503.44	8,376.26	13.81	20.00	-90.39	268.28	-1,079.42	1,316.03	1,285.05	30.98	42.485			
8,500.00	8,476.26	8,603.44	8,476.26	13.90	20.06	-90.39	268.28	-1,079.42	1,316.03	1,284.91	31.12	42.283			
8,600.00	8,576.26	8,703.44	8,576.26	13.99	20.12	-90.39	268.28	-1,079.42	1,316.03	1,284.76	31.27	42.083			
8,700.00	8,676.26	8,803.44	8,676.26	14.08	20.17	-90.39	268.28	-1,079.42	1,316.03	1,284.61	31.42	41.884			
8,800.00	8,776.26	8,903.44	8,776.26	14.17	20.23	-90.39	268.28	-1,079.42	1,316.03	1,284.46	31.57	41.687			
8,900.00	8,876.26	9,003.44	8,876.26	14.26	20.29	-90.39	268.28	-1,079.42	1,316.03	1,284.31	31.72	41.492			
9,000.00	8,976.26	9,103.44	8,976.26	14.35	20.35	-90.39	268.28	-1,079.42	1,316.03	1,284.16	31.87	41.298			
9,100.00	9,076.26	9,203.44	9,076.26	14.44	20.41	-90.39	268.28	-1,079.42	1,316.03	1,284.02	32.02	41.106			
9,200.00	9,176.26	9,303.44	9,176.26	14.53	20.46	-90.39	268.28	-1,079.42	1,316.03	1,283.87	32.16	40.916			
9,300.00	9,276.26	9,403.44	9,276.26	14.62	20.52	-90.39	268.28	-1,079.42	1,316.03	1,283.72	32.31	40.727			
9,400.00	9,376.26	9,503.44	9,376.26	14.71	20.58	-90.39	268.28	-1,079.42	1,316.03	1,283.57	32.46	40.541			
9,500.00	9,476.26	9,603.44	9,476.26	14.80	20.64	-90.39	268.28	-1,079.42	1,316.03	1,283.42	32.61	40.355			
9,600.00	9,576.26	9,703.44	9,576.26	14.89	20.70	-90.39	268.28	-1,079.42	1,316.03	1,283.27	32.76	40.171			
9,700.00	9,676.26	9,803.44	9,676.26	14.97	20.76	-90.39	268.28	-1,079.42	1,316.03	1,283.12	32.91	39.989			
9,800.00	9,776.26	9,903.44	9,776.26	15.06	20.82	-90.39	268.28	-1,079.42	1,316.03	1,282.97	33.06	39.809			
9,900.00	9,876.26	10,003.44	9,876.26	15.15	20.88	-90.39	268.28	-1,079.42	1,316.03	1,282.82	33.21	39.630			
10,000.00	9,976.26	10,103.44	9,976.26	15.24	20.94	-90.39	268.28	-1,079.42	1,316.03	1,282.67	33.36	39.452			
10,100.00	10,076.26	10,203.44	10,076.26	15.33	21.00	-90.39	268.28	-1,079.42	1,316.03	1,282.52	33.51	39.276			
10,200.00	10,176.26	10,303.44	10,176.26	15.42	21.06	-90.39	268.28	-1,079.42	1,316.03	1,282.37	33.66	39.101			

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:				Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
10,300.00	10,276.26	10,403.44	10,276.26	15.51	21.12	-90.39	268.28	-1,079.42	1,316.03	1,282.22	33.81	38.928
10,400.00	10,376.26	10,503.44	10,376.26	15.59	21.18	-90.39	268.28	-1,079.42	1,316.03	1,282.07	33.96	38.757
10,500.00	10,476.26	10,603.44	10,476.26	15.68	21.24	-90.39	268.28	-1,079.42	1,316.03	1,281.92	34.11	38.586
10,600.00	10,576.26	10,703.44	10,576.26	15.77	21.30	-90.39	268.28	-1,079.42	1,316.03	1,281.77	34.26	38.417
10,700.00	10,676.26	10,803.44	10,676.26	15.86	21.36	-90.39	268.28	-1,079.42	1,316.03	1,281.62	34.41	38.250
10,800.00	10,776.26	10,903.44	10,776.26	15.95	21.42	-90.39	268.28	-1,079.42	1,316.03	1,281.47	34.56	38.084
10,900.00	10,876.26	11,003.44	10,876.26	16.04	21.48	-90.39	268.28	-1,079.42	1,316.03	1,281.32	34.71	37.919
11,000.00	10,976.26	11,103.44	10,976.26	16.12	21.54	-90.39	268.28	-1,079.42	1,316.03	1,281.17	34.86	37.755
11,100.00	11,076.26	11,203.44	11,076.26	16.21	21.60	-90.39	268.28	-1,079.42	1,316.03	1,281.02	35.01	37.593
11,200.00	11,176.26	11,303.44	11,176.26	16.30	21.66	-90.39	268.28	-1,079.42	1,316.03	1,280.87	35.16	37.432
11,300.00	11,276.26	11,403.44	11,276.26	16.39	21.72	-90.39	268.28	-1,079.42	1,316.03	1,280.72	35.31	37.273
11,400.00	11,376.26	11,503.44	11,376.26	16.48	21.79	-90.39	268.28	-1,079.42	1,316.03	1,280.57	35.46	37.115
11,500.00	11,476.26	11,603.44	11,476.26	16.56	21.85	-90.39	268.28	-1,079.42	1,316.03	1,280.42	35.61	36.958
11,600.00	11,576.26	11,703.44	11,576.26	16.65	21.91	-90.39	268.28	-1,079.42	1,316.03	1,280.27	35.76	36.802
11,700.00	11,676.26	11,803.44	11,676.26	16.74	21.97	-90.39	268.28	-1,079.42	1,316.03	1,280.12	35.91	36.647
11,800.00	11,776.26	11,903.44	11,776.26	16.83	22.03	-90.39	268.28	-1,079.42	1,316.03	1,279.97	36.06	36.494
11,900.00	11,876.26	12,003.44	11,876.26	16.91	22.10	-90.39	268.28	-1,079.42	1,316.03	1,279.82	36.21	36.342
12,000.00	11,976.24	12,103.59	11,976.38	16.97	22.14	90.09	266.93	-1,079.41	1,316.03	1,279.75	36.28	36.270
12,100.00	12,075.06	12,203.84	12,075.27	17.02	22.16	90.04	251.35	-1,079.27	1,316.03	1,279.89	36.14	36.417
12,167.78	12,139.94	12,271.67	12,139.99	17.05	22.15	90.01	231.12	-1,079.10	1,316.03	1,280.06	35.97	36.589
12,200.00	12,169.87	12,303.89	12,169.77	17.06	22.15	89.99	218.87	-1,078.99	1,316.03	1,280.15	35.88	36.678
12,300.00	12,257.78	12,403.74	12,257.03	17.11	22.11	89.94	170.57	-1,078.58	1,316.03	1,280.48	35.55	37.018
12,400.00	12,336.13	12,503.41	12,334.45	17.16	22.07	89.89	108.02	-1,078.04	1,316.03	1,280.82	35.21	37.381
12,500.00	12,402.54	12,602.90	12,399.78	17.22	22.06	89.85	33.15	-1,077.40	1,316.03	1,281.12	34.91	37.696
12,600.00	12,454.98	12,702.22	12,451.11	17.28	22.09	89.81	-51.74	-1,076.67	1,316.04	1,281.30	34.74	37.887
12,700.00	12,491.87	12,801.40	12,486.99	17.37	22.18	89.78	-144.06	-1,075.87	1,316.04	1,281.30	34.74	37.887
12,800.00	12,512.08	12,900.47	12,506.42	17.49	22.35	89.75	-241.07	-1,075.04	1,316.04	1,281.09	34.95	37.657
12,900.00	12,516.27	12,999.87	12,510.29	17.67	22.60	89.74	-340.34	-1,074.18	1,316.04	1,280.67	35.38	37.202
13,000.00	12,517.14	13,099.87	12,511.16	17.92	22.92	89.74	-440.33	-1,073.32	1,316.04	1,280.01	36.04	36.520
13,100.00	12,518.02	13,199.87	12,512.04	18.29	23.29	89.74	-540.32	-1,072.46	1,316.04	1,279.16	36.89	35.677
13,200.00	12,518.89	13,299.87	12,512.91	18.77	23.73	89.74	-640.32	-1,071.60	1,316.04	1,278.13	37.92	34.708
13,300.00	12,519.76	13,399.87	12,513.78	19.37	24.22	89.74	-740.31	-1,070.74	1,316.05	1,276.93	39.11	33.649
13,400.00	12,520.64	13,499.87	12,514.66	20.06	24.76	89.74	-840.30	-1,069.88	1,316.05	1,275.59	40.45	32.532
13,500.00	12,521.51	13,599.87	12,515.53	20.83	25.36	89.74	-940.29	-1,069.02	1,316.05	1,274.11	41.93	31.385
13,600.00	12,522.38	13,699.87	12,516.40	21.67	26.00	89.74	-1,040.29	-1,068.16	1,316.05	1,272.51	43.53	30.231
13,700.00	12,523.26	13,799.87	12,517.28	22.56	26.70	89.74	-1,140.28	-1,067.30	1,316.05	1,270.81	45.24	29.090
13,800.00	12,524.13	13,899.87	12,518.15	23.51	27.43	89.74	-1,240.27	-1,066.44	1,316.05	1,269.00	47.05	27.973
13,900.00	12,525.00	13,999.87	12,519.02	24.50	28.21	89.74	-1,340.26	-1,065.58	1,316.05	1,267.11	48.94	26.892
14,000.00	12,525.88	14,099.87	12,519.89	25.53	29.03	89.74	-1,440.26	-1,064.71	1,316.05	1,265.14	50.91	25.852
14,100.00	12,526.75	14,199.87	12,520.77	26.59	29.88	89.74	-1,540.25	-1,063.85	1,316.05	1,263.10	52.94	24.858
14,200.00	12,527.62	14,299.87	12,521.64	27.67	30.77	89.74	-1,640.24	-1,062.99	1,316.05	1,261.01	55.04	23.910
14,300.00	12,528.50	14,399.87	12,522.51	28.79	31.70	89.74	-1,740.23	-1,062.13	1,316.05	1,258.86	57.19	23.011
14,400.00	12,529.37	14,499.87	12,523.39	29.92	32.65	89.74	-1,840.23	-1,061.27	1,316.05	1,256.66	59.39	22.158
14,500.00	12,530.24	14,599.87	12,524.26	31.07	33.63	89.74	-1,940.22	-1,060.41	1,316.05	1,254.41	61.64	21.352
14,600.00	12,531.12	14,699.87	12,525.13	32.25	34.63	89.74	-2,040.21	-1,059.55	1,316.05	1,252.13	63.92	20.590
14,700.00	12,531.99	14,799.87	12,526.01	33.43	35.66	89.74	-2,140.20	-1,058.69	1,316.05	1,249.82	66.23	19.870
14,800.00	12,532.87	14,899.87	12,526.88	34.63	36.72	89.74	-2,240.20	-1,057.83	1,316.05	1,247.47	68.58	19.190
14,900.00	12,533.74	14,999.87	12,527.75	35.85	37.79	89.74	-2,340.19	-1,056.97	1,316.05	1,245.09	70.96	18.547
15,000.00	12,534.61	15,099.87	12,528.63	37.07	38.88	89.74	-2,440.18	-1,056.11	1,316.05	1,242.69	73.36	17.940
15,100.00	12,535.49	15,199.87	12,529.50	38.30	39.99	89.74	-2,540.17	-1,055.25	1,316.05	1,240.27	75.78	17.366
15,200.00	12,536.36	15,299.87	12,530.37	39.55	41.11	89.74	-2,640.17	-1,054.39	1,316.05	1,237.83	78.23	16.824
15,300.00	12,537.23	15,399.87	12,531.24	40.80	42.25	89.74	-2,740.16	-1,053.53	1,316.05	1,235.36	80.69	16.310

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:				Offset Site Error:		0.00 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Offset Well Error:		0.50 usft				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
15,400.00	12,538.11	15,499.87	12,532.12	42.06	43.40	89.74	-2,840.15	-1,052.67	1,316.05	1,232.88	83.17	15.823					
15,500.00	12,538.98	15,599.87	12,532.99	43.32	44.56	89.74	-2,940.14	-1,051.80	1,316.05	1,230.39	85.67	15.362					
15,600.00	12,539.85	15,699.87	12,533.86	44.59	45.74	89.74	-3,040.14	-1,050.94	1,316.05	1,227.87	88.18	14.925					
15,700.00	12,540.73	15,799.87	12,534.74	45.87	46.92	89.74	-3,140.13	-1,050.08	1,316.05	1,225.35	90.70	14.509					
15,800.00	12,541.60	15,899.87	12,535.61	47.16	48.12	89.74	-3,240.12	-1,049.22	1,316.05	1,222.81	93.24	14.115					
15,900.00	12,542.47	15,999.87	12,536.48	48.44	49.32	89.74	-3,340.11	-1,048.36	1,316.05	1,220.27	95.79	13.739					
16,000.00	12,543.35	16,099.87	12,537.36	49.73	50.53	89.74	-3,440.11	-1,047.50	1,316.05	1,217.71	98.35	13.382					
16,100.00	12,544.22	16,199.87	12,538.23	51.03	51.76	89.74	-3,540.10	-1,046.64	1,316.05	1,215.14	100.91	13.041					
16,200.00	12,545.09	16,299.87	12,539.10	52.33	52.98	89.74	-3,640.09	-1,045.78	1,316.05	1,212.57	103.49	12.717					
16,300.00	12,545.97	16,399.87	12,539.98	53.63	54.22	89.74	-3,740.08	-1,044.92	1,316.06	1,209.98	106.07	12.407					
16,400.00	12,546.84	16,499.87	12,540.85	54.94	55.46	89.74	-3,840.08	-1,044.06	1,316.06	1,207.39	108.67	12.111					
16,500.00	12,547.71	16,599.87	12,541.72	56.25	56.71	89.74	-3,940.07	-1,043.20	1,316.06	1,204.79	111.27	11.828					
16,600.00	12,548.59	16,699.87	12,542.59	57.56	57.96	89.74	-4,040.06	-1,042.34	1,316.06	1,202.19	113.87	11.557					
16,700.00	12,549.46	16,799.87	12,543.47	58.88	59.22	89.74	-4,140.05	-1,041.48	1,316.06	1,199.57	116.48	11.298					
16,800.00	12,550.33	16,899.87	12,544.34	60.20	60.48	89.74	-4,240.05	-1,040.62	1,316.06	1,196.96	119.10	11.050					
16,900.00	12,551.21	16,999.87	12,545.21	61.52	61.75	89.74	-4,340.04	-1,039.76	1,316.06	1,194.33	121.72	10.812					
17,000.00	12,552.08	17,099.87	12,546.09	62.84	63.02	89.74	-4,440.03	-1,038.90	1,316.06	1,191.71	124.35	10.583					
17,100.00	12,552.95	17,199.87	12,546.96	64.16	64.30	89.74	-4,540.02	-1,038.03	1,316.06	1,189.07	126.98	10.364					
17,200.00	12,553.83	17,299.87	12,547.83	65.49	65.58	89.74	-4,640.02	-1,037.17	1,316.06	1,186.44	129.62	10.153					
17,300.00	12,554.70	17,399.87	12,548.71	66.82	66.86	89.74	-4,740.01	-1,036.31	1,316.06	1,183.80	132.26	9.950					
17,400.00	12,555.57	17,499.87	12,549.58	68.14	68.15	89.74	-4,840.00	-1,035.45	1,316.06	1,181.15	134.91	9.755					
17,500.00	12,556.45	17,599.87	12,550.45	69.48	69.44	89.74	-4,939.99	-1,034.59	1,316.06	1,178.50	137.56	9.567					
17,600.00	12,557.32	17,699.87	12,551.32	70.81	70.73	89.74	-5,039.99	-1,033.73	1,316.06	1,175.85	140.21	9.386					
17,700.00	12,558.19	17,799.87	12,552.20	72.14	72.03	89.74	-5,139.98	-1,032.87	1,316.06	1,173.19	142.87	9.212					
17,800.00	12,559.07	17,899.87	12,553.07	73.48	73.33	89.74	-5,239.97	-1,032.01	1,316.06	1,170.54	145.53	9.044					
17,900.00	12,559.94	17,999.87	12,553.94	74.81	74.63	89.74	-5,339.96	-1,031.15	1,316.06	1,167.87	148.19	8.881					
18,000.00	12,560.81	18,099.87	12,554.82	76.15	75.93	89.74	-5,439.96	-1,030.29	1,316.06	1,165.21	150.85	8.724					
18,100.00	12,561.69	18,199.87	12,555.69	77.49	77.24	89.74	-5,539.95	-1,029.43	1,316.06	1,162.54	153.52	8.573					
18,200.00	12,562.56	18,299.87	12,556.56	78.83	78.55	89.74	-5,639.94	-1,028.57	1,316.06	1,159.87	156.19	8.426					
18,300.00	12,563.43	18,399.87	12,557.44	80.17	79.86	89.74	-5,739.93	-1,027.71	1,316.06	1,157.20	158.86	8.284					
18,400.00	12,564.31	18,499.87	12,558.31	81.51	81.17	89.74	-5,839.93	-1,026.85	1,316.06	1,154.53	161.54	8.147					
18,500.00	12,565.18	18,599.87	12,559.18	82.86	82.49	89.74	-5,939.92	-1,025.99	1,316.06	1,151.85	164.21	8.014					
18,600.00	12,566.05	18,699.87	12,560.06	84.20	83.80	89.74	-6,039.91	-1,025.12	1,316.06	1,149.17	166.89	7.886					
18,700.00	12,566.93	18,799.87	12,560.93	85.54	85.12	89.74	-6,139.90	-1,024.26	1,316.06	1,146.49	169.57	7.761					
18,800.00	12,567.80	18,899.87	12,561.80	86.89	86.44	89.74	-6,239.90	-1,023.40	1,316.06	1,143.81	172.25	7.640					
18,900.00	12,568.67	18,999.87	12,562.67	88.24	87.76	89.74	-6,339.89	-1,022.54	1,316.06	1,141.13	174.94	7.523					
19,000.00	12,569.55	19,099.87	12,563.55	89.58	89.08	89.74	-6,439.88	-1,021.68	1,316.06	1,138.44	177.62	7.409					
19,100.00	12,570.42	19,199.87	12,564.42	90.93	90.41	89.74	-6,539.87	-1,020.82	1,316.06	1,135.75	180.31	7.299					
19,200.00	12,571.29	19,299.87	12,565.29	92.28	91.73	89.74	-6,639.87	-1,019.96	1,316.06	1,133.06	183.00	7.192					
19,300.00	12,572.17	19,399.87	12,566.17	93.63	93.06	89.74	-6,739.86	-1,019.10	1,316.07	1,130.37	185.69	7.087					
19,400.00	12,573.04	19,499.87	12,567.04	94.98	94.39	89.74	-6,839.85	-1,018.24	1,316.07	1,127.68	188.38	6.986					
19,500.00	12,573.91	19,599.87	12,567.91	96.33	95.72	89.74	-6,939.84	-1,017.38	1,316.07	1,124.99	191.08	6.888					
19,600.00	12,574.79	19,699.87	12,568.79	97.68	97.05	89.74	-7,039.84	-1,016.52	1,316.07	1,122.30	193.77	6.792					
19,700.00	12,575.66	19,799.87	12,569.66	99.03	98.38	89.74	-7,139.83	-1,015.66	1,316.07	1,119.60	196.47	6.699					
19,800.00	12,576.54	19,899.87	12,570.53	100.38	99.71	89.74	-7,239.82	-1,014.80	1,316.07	1,116.90	199.16	6.608					
19,900.00	12,577.41	19,999.87	12,571.40	101.73	101.04	89.74	-7,339.81	-1,013.94	1,316.07	1,114.20	201.86	6.520					
20,000.00	12,578.28	20,099.87	12,572.28	103.08	102.38	89.74	-7,439.81	-1,013.08	1,316.07	1,111.51	204.56	6.434					
20,100.00	12,579.16	20,199.87	12,573.15	104.44	103.71	89.74	-7,539.80	-1,012.22	1,316.07	1,108.81	207.26	6.350					
20,200.00	12,580.03	20,299.87	12,574.02	105.79	105.05	89.74	-7,639.79	-1,011.35	1,316.07	1,106.10	209.96	6.268					
20,300.00	12,580.90	20,399.87	12,574.90	107.14	106.39	89.74	-7,739.78	-1,010.49	1,316.07	1,103.40	212.67	6.188					
20,400.00	12,581.78	20,499.87	12,575.77	108.50	107.72	89.74	-7,839.78	-1,009.63	1,316.07	1,100.70	215.37	6.111					
20,500.00	12,582.65	20,599.87	12,576.64	109.85	109.06	89.74	-7,939.77	-1,008.77	1,316.07	1,098.00	218.07	6.035					

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 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)		Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)			
20,600.00	12,583.52	20,699.87	12,577.52	111.21	110.40	89.74	-8,039.76	-1,007.91	1,316.07	1,095.29	220.78	5.961			
20,700.00	12,584.40	20,799.87	12,578.39	112.56	111.74	89.74	-8,139.75	-1,007.05	1,316.07	1,092.59	223.48	5.889			
20,800.00	12,585.27	20,899.87	12,579.26	113.92	113.08	89.74	-8,239.75	-1,006.19	1,316.07	1,089.88	226.19	5.818			
20,900.00	12,586.14	20,999.87	12,580.14	115.27	114.42	89.74	-8,339.74	-1,005.33	1,316.07	1,087.17	228.90	5.750			
21,000.00	12,587.02	21,099.87	12,581.01	116.63	115.77	89.74	-8,439.73	-1,004.47	1,316.07	1,084.46	231.61	5.682			
21,100.00	12,587.89	21,199.87	12,581.88	117.99	117.11	89.74	-8,539.72	-1,003.61	1,316.07	1,081.76	234.32	5.617			
21,200.00	12,588.76	21,299.87	12,582.75	119.34	118.45	89.74	-8,639.72	-1,002.75	1,316.07	1,079.05	237.03	5.552			
21,300.00	12,589.64	21,399.87	12,583.63	120.70	119.80	89.74	-8,739.71	-1,001.89	1,316.07	1,076.34	239.74	5.490			
21,400.00	12,590.51	21,499.87	12,584.50	122.06	121.14	89.74	-8,839.70	-1,001.03	1,316.07	1,073.63	242.45	5.428			
21,500.00	12,591.38	21,599.87	12,585.37	123.42	122.49	89.74	-8,939.69	-1,000.17	1,316.07	1,070.91	245.16	5.368			
21,600.00	12,592.26	21,699.87	12,586.25	124.77	123.83	89.74	-9,039.69	-999.31	1,316.07	1,068.20	247.87	5.310			
21,700.00	12,593.13	21,799.87	12,587.12	126.13	125.18	89.74	-9,139.68	-998.44	1,316.07	1,065.49	250.58	5.252			
21,800.00	12,594.00	21,899.87	12,587.99	127.49	126.53	89.74	-9,239.67	-997.58	1,316.07	1,062.78	253.30	5.196			
21,900.00	12,594.88	21,999.87	12,588.87	128.85	127.87	89.74	-9,339.66	-996.72	1,316.07	1,060.06	256.01	5.141			
22,000.00	12,595.75	22,099.87	12,589.74	130.21	129.22	89.74	-9,439.66	-995.86	1,316.07	1,057.35	258.73	5.087			
22,100.00	12,596.62	22,199.87	12,590.61	131.57	130.57	89.74	-9,539.65	-995.00	1,316.07	1,054.63	261.44	5.034			
22,200.00	12,597.50	22,299.87	12,591.48	132.93	131.92	89.74	-9,639.64	-994.14	1,316.07	1,051.92	264.16	4.982			
22,300.00	12,598.37	22,399.87	12,592.36	134.29	133.27	89.74	-9,739.63	-993.28	1,316.08	1,049.20	266.87	4.931			
22,400.00	12,599.24	22,499.87	12,593.23	135.65	134.62	89.74	-9,839.63	-992.42	1,316.08	1,046.49	269.59	4.882			
22,500.00	12,600.12	22,599.87	12,594.10	137.01	135.97	89.74	-9,939.62	-991.56	1,316.08	1,043.77	272.31	4.833			
22,600.00	12,600.99	22,699.87	12,594.98	138.37	137.32	89.74	-10,039.61	-990.70	1,316.08	1,041.05	275.02	4.785			
22,700.00	12,601.86	22,799.87	12,595.85	139.73	138.67	89.74	-10,139.60	-989.84	1,316.08	1,038.33	277.74	4.738			
22,796.26	12,602.70	22,896.13	12,596.69	141.04	139.97	89.74	-10,235.86	-989.01	1,316.08	1,035.72	280.36	4.694	SF		

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:				Offset Site Error:		0.00 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Offset Well Error:		0.50 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
0.00	0.00	2.00	0.00	0.50	0.50	69.94	856.00	2,344.00	2,495.41								
100.00	100.00	102.00	100.00	0.98	0.99	69.94	856.00	2,344.00	2,495.41	2,493.44	1.97	1,264.698					
200.00	200.00	202.00	200.00	1.56	1.57	69.94	856.00	2,344.00	2,495.41	2,492.28	3.13	797.115					
300.00	300.00	302.00	300.00	1.98	1.99	69.94	856.00	2,344.00	2,495.41	2,491.44	3.97	628.686					
400.00	400.00	402.00	400.00	2.33	2.34	69.94	856.00	2,344.00	2,495.41	2,490.75	4.66	534.931					
500.00	500.00	503.45	501.45	2.63	2.65	69.94	856.00	2,344.00	2,495.41	2,490.13	5.28	472.738					
600.00	600.00	675.88	673.82	2.91	3.19	70.01	852.20	2,342.62	2,493.90	2,487.87	6.03	413.429					
700.00	700.00	841.63	839.18	3.16	3.58	70.21	841.66	2,338.78	2,489.51	2,482.89	6.62	376.052					
800.00	800.00	941.25	938.42	3.40	3.74	70.36	833.50	2,335.81	2,483.93	2,476.91	7.02	353.883					
900.00	900.00	1,040.87	1,037.66	3.62	3.95	70.52	825.34	2,332.84	2,478.37	2,470.91	7.45	332.582					
1,000.00	1,000.00	1,140.49	1,136.90	3.84	4.16	70.67	817.19	2,329.87	2,472.82	2,464.95	7.87	314.237					
1,100.00	1,100.00	1,240.11	1,236.14	4.04	4.32	70.83	809.03	2,326.90	2,467.29	2,459.06	8.23	299.647					
1,200.00	1,200.00	1,498.34	1,492.79	4.23	4.82	71.23	785.44	2,311.67	2,458.96	2,450.06	8.89	276.519					
1,300.00	1,300.00	1,773.48	1,763.95	4.42	5.44	71.67	754.50	2,277.30	2,443.49	2,433.83	9.66	252.955					
1,400.00	1,400.00	2,022.54	2,006.24	4.60	5.99	72.07	721.45	2,230.20	2,421.12	2,410.78	10.34	234.113					
1,500.00	1,500.00	2,119.13	2,099.54	4.78	6.18	72.24	707.80	2,209.25	2,396.09	2,385.38	10.71	223.743					
1,600.00	1,600.00	2,215.73	2,192.84	4.95	6.41	72.40	694.16	2,188.31	2,371.08	2,359.98	11.10	213.706					
1,700.00	1,700.00	2,312.32	2,286.14	5.11	6.67	72.57	680.51	2,167.36	2,346.08	2,334.61	11.47	204.467					
1,800.00	1,800.00	2,408.91	2,379.44	5.28	6.95	72.74	666.86	2,146.42	2,321.11	2,309.26	11.85	195.836					
1,900.00	1,900.00	2,505.50	2,472.74	5.44	7.24	72.92	653.21	2,125.47	2,296.15	2,283.93	12.23	187.761					
2,000.00	2,000.00	2,602.10	2,566.04	5.59	7.54	73.10	639.56	2,104.52	2,271.22	2,258.62	12.60	180.190					
2,100.00	2,100.00	2,698.69	2,659.34	5.74	7.84	73.28	625.91	2,083.58	2,246.31	2,233.33	12.98	173.073					
2,200.00	2,200.00	2,795.28	2,752.64	5.89	8.15	73.47	612.26	2,062.63	2,221.42	2,208.07	13.35	166.370					
2,300.00	2,299.99	2,891.54	2,845.62	6.07	8.46	33.42	598.65	2,041.76	2,195.50	2,181.75	13.74	159.733					
2,400.00	2,399.91	2,987.08	2,937.90	6.24	8.77	33.92	585.15	2,021.04	2,167.50	2,153.37	14.13	153.362					
2,500.00	2,499.69	3,081.84	3,029.43	6.42	9.08	34.49	571.76	2,000.49	2,137.48	2,122.96	14.52	147.222					
2,600.00	2,599.27	3,175.75	3,120.14	6.59	9.39	35.13	558.49	1,980.13	2,105.46	2,090.56	14.90	141.286					
2,700.00	2,698.57	3,268.75	3,209.97	6.76	9.69	35.85	545.35	1,959.96	2,071.51	2,056.23	15.28	135.532					
2,800.00	2,797.62	3,361.00	3,299.08	6.85	10.00	36.41	532.31	1,939.95	2,036.12	2,020.52	15.60	130.526					
2,900.00	2,896.65	3,453.20	3,388.14	7.00	10.31	36.88	519.28	1,919.96	2,000.74	1,984.77	15.96	125.321					
3,000.00	2,995.68	3,545.40	3,477.20	7.15	10.62	37.37	506.25	1,899.97	1,965.48	1,949.15	16.34	120.322					
3,100.00	3,094.70	3,637.60	3,566.25	7.30	10.94	37.87	493.22	1,879.97	1,930.36	1,913.65	16.71	115.522					
3,200.00	3,193.73	3,729.80	3,655.31	7.46	11.25	38.40	480.20	1,859.98	1,895.37	1,878.29	17.09	110.910					
3,300.00	3,292.76	3,822.00	3,744.37	7.61	11.57	38.94	467.17	1,839.98	1,860.54	1,843.07	17.47	106.479					
3,400.00	3,391.78	3,914.19	3,833.42	7.77	11.88	39.50	454.14	1,819.99	1,825.86	1,808.00	17.86	102.220					
3,500.00	3,490.81	4,006.39	3,922.48	7.93	12.20	40.08	441.11	1,800.00	1,791.35	1,773.09	18.26	98.127					
3,600.00	3,589.84	4,098.59	4,011.54	8.09	12.52	40.68	428.08	1,780.00	1,757.01	1,738.35	18.65	94.191					
3,700.00	3,688.87	4,190.79	4,100.59	8.25	12.84	41.31	415.05	1,760.01	1,722.86	1,703.80	19.06	90.406					
3,800.00	3,787.89	4,282.99	4,189.65	8.42	13.16	41.96	402.02	1,740.02	1,688.90	1,669.44	19.47	86.766					
3,900.00	3,886.92	4,375.19	4,278.71	8.58	13.48	42.64	388.99	1,720.02	1,655.16	1,635.28	19.88	83.263					
4,000.00	3,985.95	4,467.39	4,367.76	8.75	13.80	43.34	375.96	1,700.03	1,621.63	1,601.34	20.30	79.893					
4,100.00	4,084.98	4,559.58	4,456.82	8.92	14.12	44.08	362.94	1,680.04	1,588.35	1,567.63	20.72	76.653					
4,200.00	4,184.00	4,637.48	4,532.11	9.09	14.39	44.72	352.03	1,663.31	1,555.56	1,534.43	21.13	73.613					
4,300.00	4,283.03	4,700.00	4,592.79	9.26	14.60	45.23	343.81	1,650.68	1,524.39	1,502.86	21.52	70.825					
4,400.00	4,382.06	4,774.96	4,665.85	9.43	14.83	45.83	334.66	1,636.65	1,494.94	1,473.01	21.93	68.172					
4,500.00	4,481.09	4,845.09	4,734.50	9.60	15.03	46.39	326.81	1,624.60	1,467.27	1,444.95	22.32	65.734					
4,600.00	4,580.11	4,916.13	4,804.28	9.77	15.23	46.95	319.57	1,613.49	1,441.39	1,418.68	22.71	63.471					
4,700.00	4,679.14	5,000.00	4,886.97	9.95	15.44	47.59	311.92	1,601.76	1,417.36	1,394.25	23.11	61.324					
4,800.00	4,778.17	5,060.76	4,947.06	10.12	15.57	48.05	307.01	1,594.22	1,394.99	1,371.53	23.46	59.455					
4,900.00	4,877.31	5,134.44	5,020.11	10.28	15.73	48.37	301.75	1,586.15	1,375.06	1,351.25	23.80	57.773					
5,000.00	4,976.75	5,200.00	5,085.25	10.47	15.86	48.57	297.72	1,579.96	1,358.62	1,334.49	24.13	56.305					
5,100.00	5,076.44	5,285.05	5,169.92	10.65	16.00	48.82	293.40	1,573.33	1,345.57	1,321.10	24.47	54.997					

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 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:						Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,200.00	5,176.30	5,361.56	5,246.24	10.82	16.11	48.97	290.39	1,568.71	1,336.01	1,311.26	24.76	53.969		
5,300.00	5,276.26	5,438.58	5,323.15	10.98	16.20	49.06	288.21	1,565.36	1,329.89	1,304.87	25.01	53.170		
5,400.00	5,376.26	5,515.88	5,400.41	11.05	16.28	89.58	286.87	1,563.31	1,326.98	1,301.81	25.17	52.724		
5,500.00	5,476.26	5,598.47	5,483.00	11.15	16.34	89.60	286.38	1,562.56	1,326.03	1,300.71	25.32	52.372		
5,535.74	5,512.00	5,627.47	5,512.00	11.18	16.35	89.60	286.38	1,562.56	1,326.01	1,300.65	25.36	52.294		
5,600.00	5,576.26	5,691.73	5,576.26	11.24	16.37	89.60	286.38	1,562.56	1,326.01	1,300.57	25.44	52.122		
5,700.00	5,676.26	5,791.73	5,676.26	11.33	16.41	89.60	286.38	1,562.56	1,326.01	1,300.44	25.57	51.857		
5,800.00	5,776.26	5,891.73	5,776.26	11.43	16.44	89.60	286.38	1,562.56	1,326.01	1,300.31	25.70	51.594		
5,900.00	5,876.26	5,991.73	5,876.26	11.52	16.48	89.60	286.38	1,562.56	1,326.01	1,300.18	25.83	51.333		
6,000.00	5,976.26	6,091.73	5,976.26	11.61	16.52	89.60	286.38	1,562.56	1,326.01	1,300.05	25.96	51.075		
6,100.00	6,076.26	6,191.73	6,076.26	11.71	16.56	89.60	286.38	1,562.56	1,326.01	1,299.92	26.09	50.818		
6,200.00	6,176.26	6,291.73	6,176.26	11.80	16.59	89.60	286.38	1,562.56	1,326.01	1,299.79	26.22	50.565		
6,300.00	6,276.26	6,391.73	6,276.26	11.89	16.63	89.60	286.38	1,562.56	1,326.01	1,299.66	26.36	50.313		
6,400.00	6,376.26	6,491.73	6,376.26	11.99	16.67	89.60	286.38	1,562.56	1,326.01	1,299.52	26.49	50.063		
6,500.00	6,476.26	6,591.73	6,476.26	12.08	16.71	89.60	286.38	1,562.56	1,326.01	1,299.39	26.62	49.816		
6,600.00	6,576.26	6,691.73	6,576.26	12.17	16.75	89.60	286.38	1,562.56	1,326.01	1,299.26	26.75	49.570		
6,700.00	6,676.26	6,791.73	6,676.26	12.26	16.79	89.60	286.38	1,562.56	1,326.01	1,299.13	26.88	49.327		
6,800.00	6,776.26	6,891.73	6,776.26	12.35	16.83	89.60	286.38	1,562.56	1,326.01	1,299.00	27.01	49.086		
6,900.00	6,876.26	6,991.73	6,876.26	12.45	16.87	89.60	286.38	1,562.56	1,326.01	1,298.87	27.15	48.846		
7,000.00	6,976.26	7,091.73	6,976.26	12.54	16.91	89.60	286.38	1,562.56	1,326.01	1,298.73	27.28	48.609		
7,100.00	7,076.26	7,191.73	7,076.26	12.63	16.95	89.60	286.38	1,562.56	1,326.01	1,298.60	27.41	48.374		
7,200.00	7,176.26	7,291.73	7,176.26	12.72	16.99	89.60	286.38	1,562.56	1,326.01	1,298.47	27.54	48.140		
7,300.00	7,276.26	7,391.73	7,276.26	12.81	17.03	89.60	286.38	1,562.56	1,326.01	1,298.33	27.68	47.909		
7,400.00	7,376.26	7,491.73	7,376.26	12.90	17.07	89.60	286.38	1,562.56	1,326.01	1,298.20	27.81	47.679		
7,500.00	7,476.26	7,591.73	7,476.26	13.00	17.12	89.60	286.38	1,562.56	1,326.01	1,298.07	27.94	47.452		
7,600.00	7,576.26	7,691.73	7,576.26	13.09	17.16	89.60	286.38	1,562.56	1,326.01	1,297.93	28.08	47.226		
7,700.00	7,676.26	7,791.73	7,676.26	13.18	17.20	89.60	286.38	1,562.56	1,326.01	1,297.80	28.21	47.002		
7,800.00	7,776.26	7,891.73	7,776.26	13.27	17.24	89.60	286.38	1,562.56	1,326.01	1,297.67	28.35	46.779		
7,900.00	7,876.26	7,991.73	7,876.26	13.36	17.29	89.60	286.38	1,562.56	1,326.01	1,297.53	28.48	46.559		
8,000.00	7,976.26	8,091.73	7,976.26	13.45	17.33	89.60	286.38	1,562.56	1,326.01	1,297.40	28.61	46.340		
8,100.00	8,076.26	8,191.73	8,076.26	13.54	17.37	89.60	286.38	1,562.56	1,326.01	1,297.26	28.75	46.123		
8,200.00	8,176.26	8,291.73	8,176.26	13.63	17.42	89.60	286.38	1,562.56	1,326.01	1,297.13	28.88	45.908		
8,300.00	8,276.26	8,391.73	8,276.26	13.72	17.46	89.60	286.38	1,562.56	1,326.01	1,296.99	29.02	45.694		
8,400.00	8,376.26	8,491.73	8,376.26	13.81	17.51	89.60	286.38	1,562.56	1,326.01	1,296.86	29.15	45.483		
8,500.00	8,476.26	8,591.73	8,476.26	13.90	17.55	89.60	286.38	1,562.56	1,326.01	1,296.72	29.29	45.272		
8,600.00	8,576.26	8,691.73	8,576.26	13.99	17.60	89.60	286.38	1,562.56	1,326.01	1,296.59	29.43	45.064		
8,700.00	8,676.26	8,791.73	8,676.26	14.08	17.64	89.60	286.38	1,562.56	1,326.01	1,296.45	29.56	44.857		
8,800.00	8,776.26	8,891.73	8,776.26	14.17	17.69	89.60	286.38	1,562.56	1,326.01	1,296.31	29.70	44.651		
8,900.00	8,876.26	8,991.73	8,876.26	14.26	17.73	89.60	286.38	1,562.56	1,326.01	1,296.18	29.83	44.448		
9,000.00	8,976.26	9,091.73	8,976.26	14.35	17.78	89.60	286.38	1,562.56	1,326.01	1,296.04	29.97	44.246		
9,100.00	9,076.26	9,191.73	9,076.26	14.44	17.83	89.60	286.38	1,562.56	1,326.01	1,295.91	30.11	44.045		
9,200.00	9,176.26	9,291.73	9,176.26	14.53	17.87	89.60	286.38	1,562.56	1,326.01	1,295.77	30.24	43.846		
9,300.00	9,276.26	9,391.73	9,276.26	14.62	17.92	89.60	286.38	1,562.56	1,326.01	1,295.63	30.38	43.648		
9,400.00	9,376.26	9,491.73	9,376.26	14.71	17.97	89.60	286.38	1,562.56	1,326.01	1,295.50	30.52	43.452		
9,500.00	9,476.26	9,591.73	9,476.26	14.80	18.02	89.60	286.38	1,562.56	1,326.01	1,295.36	30.65	43.258		
9,600.00	9,576.26	9,691.73	9,576.26	14.89	18.06	89.60	286.38	1,562.56	1,326.01	1,295.22	30.79	43.065		
9,700.00	9,676.26	9,791.73	9,676.26	14.97	18.11	89.60	286.38	1,562.56	1,326.01	1,295.08	30.93	42.873		
9,800.00	9,776.26	9,891.73	9,776.26	15.06	18.16	89.60	286.38	1,562.56	1,326.01	1,294.95	31.07	42.683		
9,900.00	9,876.26	9,991.73	9,876.26	15.15	18.21	89.60	286.38	1,562.56	1,326.01	1,294.81	31.20	42.495		
10,000.00	9,976.26	10,091.73	9,976.26	15.24	18.26	89.60	286.38	1,562.56	1,326.01	1,294.67	31.34	42.307		
10,100.00	10,076.26	10,191.73	10,076.26	15.33	18.31	89.60	286.38	1,562.56	1,326.01	1,294.53	31.48	42.121		
10,200.00	10,176.26	10,291.73	10,176.26	15.42	18.35	89.60	286.38	1,562.56	1,326.01	1,294.39	31.62	41.937		

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance		Offset Well Error:		0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,276.26	10,391.73	10,276.26	15.51	18.40	89.60	286.38	1,562.56	1,326.01	1,294.25	31.76	41.754	
10,400.00	10,376.26	10,491.73	10,376.26	15.59	18.45	89.60	286.38	1,562.56	1,326.01	1,294.11	31.90	41.572	
10,500.00	10,476.26	10,591.73	10,476.26	15.68	18.50	89.60	286.38	1,562.56	1,326.01	1,293.98	32.04	41.392	
10,600.00	10,576.26	10,691.73	10,576.26	15.77	18.55	89.60	286.38	1,562.56	1,326.01	1,293.84	32.17	41.213	
10,700.00	10,676.26	10,791.73	10,676.26	15.86	18.60	89.60	286.38	1,562.56	1,326.01	1,293.70	32.31	41.035	
10,800.00	10,776.26	10,891.73	10,776.26	15.95	18.65	89.60	286.38	1,562.56	1,326.01	1,293.56	32.45	40.859	
10,900.00	10,876.26	10,991.73	10,876.26	16.04	18.71	89.60	286.38	1,562.56	1,326.01	1,293.42	32.59	40.684	
11,000.00	10,976.26	11,091.73	10,976.26	16.12	18.76	89.60	286.38	1,562.56	1,326.01	1,293.28	32.73	40.510	
11,100.00	11,076.26	11,191.73	11,076.26	16.21	18.81	89.60	286.38	1,562.56	1,326.01	1,293.14	32.87	40.337	
11,200.00	11,176.26	11,291.73	11,176.26	16.30	18.86	89.60	286.38	1,562.56	1,326.01	1,293.00	33.01	40.166	
11,300.00	11,276.26	11,391.73	11,276.26	16.39	18.91	89.60	286.38	1,562.56	1,326.01	1,292.86	33.15	39.996	
11,400.00	11,376.26	11,491.73	11,376.26	16.48	18.96	89.60	286.38	1,562.56	1,326.01	1,292.72	33.29	39.827	
11,500.00	11,476.26	11,591.73	11,476.26	16.56	19.01	89.60	286.38	1,562.56	1,326.01	1,292.58	33.43	39.660	
11,600.00	11,576.26	11,691.73	11,576.26	16.65	19.07	89.60	286.38	1,562.56	1,326.01	1,292.44	33.58	39.493	
11,700.00	11,676.26	11,791.73	11,676.26	16.74	19.12	89.60	286.38	1,562.56	1,326.01	1,292.30	33.72	39.328	
11,800.00	11,776.26	11,891.73	11,776.26	16.83	19.17	89.60	286.38	1,562.56	1,326.01	1,292.15	33.86	39.164	
11,900.00	11,876.26	11,991.73	11,876.26	16.91	19.22	89.60	286.38	1,562.56	1,326.01	1,292.01	34.00	39.004	CC
12,000.00	11,976.24	12,090.56	11,974.66	16.97	19.34	-89.61	278.67	1,562.63	1,326.04	1,291.94	34.10	38.884	
12,100.00	12,075.06	12,187.51	12,068.51	17.02	19.54	-89.16	254.83	1,562.84	1,326.17	1,291.98	34.18	38.797	
12,200.00	12,169.87	12,282.89	12,155.64	17.06	19.80	-88.74	216.27	1,563.19	1,326.36	1,292.05	34.31	38.661	
12,300.00	12,257.78	12,376.90	12,234.08	17.11	20.13	-88.36	164.66	1,563.65	1,326.60	1,292.10	34.50	38.450	
12,400.00	12,336.13	12,469.75	12,302.26	17.16	20.52	-88.03	101.79	1,564.22	1,326.87	1,292.07	34.80	38.132	
12,500.00	12,402.54	12,561.64	12,358.87	17.22	20.99	-87.76	29.53	1,564.87	1,327.13	1,291.90	35.23	37.674	
12,600.00	12,454.98	12,652.79	12,402.91	17.28	21.55	-87.54	-50.16	1,565.59	1,327.36	1,291.54	35.82	37.057	
12,700.00	12,491.87	12,743.42	12,433.64	17.37	22.20	-87.40	-135.32	1,566.35	1,327.54	1,290.94	36.59	36.277	
12,800.00	12,512.08	12,833.74	12,450.53	17.49	22.92	-87.33	-223.95	1,567.15	1,327.65	1,290.10	37.55	35.357	
12,900.00	12,516.27	12,927.28	12,454.13	17.67	23.73	-87.32	-317.36	1,567.99	1,327.70	1,288.99	38.71	34.301	
13,000.00	12,517.14	13,027.28	12,454.65	17.92	24.65	-87.30	-417.35	1,568.89	1,327.75	1,287.64	40.11	33.104	
13,100.00	12,518.02	13,127.28	12,455.18	18.29	25.62	-87.29	-517.35	1,569.79	1,327.81	1,286.16	41.65	31.884	
13,200.00	12,518.89	13,227.28	12,455.71	18.77	26.63	-87.27	-617.34	1,570.69	1,327.86	1,284.56	43.30	30.664	
13,300.00	12,519.76	13,327.28	12,456.23	19.37	27.67	-87.26	-717.33	1,571.59	1,327.92	1,282.85	45.07	29.463	
13,400.00	12,520.64	13,427.28	12,456.76	20.06	28.73	-87.24	-817.33	1,572.49	1,327.97	1,281.04	46.94	28.294	
13,500.00	12,521.51	13,527.28	12,457.29	20.83	29.82	-87.23	-917.32	1,573.39	1,328.03	1,279.14	48.89	27.166	
13,600.00	12,522.38	13,627.28	12,457.81	21.67	30.94	-87.21	-1,017.32	1,574.29	1,328.08	1,277.17	50.91	26.085	
13,700.00	12,523.26	13,727.28	12,458.34	22.56	32.07	-87.20	-1,117.31	1,575.19	1,328.14	1,275.13	53.01	25.056	
13,800.00	12,524.13	13,827.27	12,458.86	23.51	33.22	-87.18	-1,217.30	1,576.09	1,328.19	1,273.03	55.16	24.078	
13,900.00	12,525.00	13,927.27	12,459.39	24.50	34.39	-87.17	-1,317.30	1,576.98	1,328.25	1,270.88	57.37	23.153	
14,000.00	12,525.88	14,027.27	12,459.92	25.53	35.57	-87.15	-1,417.29	1,577.88	1,328.30	1,268.68	59.62	22.279	
14,100.00	12,526.75	14,127.27	12,460.44	26.59	36.76	-87.14	-1,517.29	1,578.78	1,328.36	1,266.44	61.91	21.455	
14,200.00	12,527.62	14,227.27	12,460.97	27.67	37.96	-87.12	-1,617.28	1,579.68	1,328.41	1,264.17	64.24	20.677	
14,300.00	12,528.50	14,327.27	12,461.49	28.79	39.18	-87.11	-1,717.27	1,580.58	1,328.47	1,261.86	66.61	19.945	
14,400.00	12,529.37	14,427.27	12,462.02	29.92	40.40	-87.09	-1,817.27	1,581.48	1,328.53	1,259.53	69.00	19.254	
14,500.00	12,530.24	14,527.27	12,462.55	31.07	41.64	-87.08	-1,917.26	1,582.38	1,328.58	1,257.17	71.42	18.603	
14,600.00	12,531.12	14,627.27	12,463.07	32.25	42.88	-87.06	-2,017.26	1,583.28	1,328.64	1,254.78	73.86	17.989	
14,700.00	12,531.99	14,727.27	12,463.60	33.43	44.12	-87.05	-2,117.25	1,584.18	1,328.69	1,252.38	76.32	17.410	
14,800.00	12,532.87	14,827.27	12,464.13	34.63	45.38	-87.03	-2,217.24	1,585.08	1,328.75	1,249.95	78.80	16.862	
14,900.00	12,533.74	14,927.27	12,464.65	35.85	46.64	-87.02	-2,317.24	1,585.98	1,328.81	1,247.51	81.30	16.345	
15,000.00	12,534.61	15,027.27	12,465.18	37.07	47.91	-87.01	-2,417.23	1,586.88	1,328.86	1,245.05	83.81	15.856	
15,100.00	12,535.49	15,127.27	12,465.70	38.30	49.18	-86.99	-2,517.23	1,587.78	1,328.92	1,242.58	86.34	15.392	
15,200.00	12,536.36	15,227.27	12,466.23	39.55	50.46	-86.98	-2,617.22	1,588.68	1,328.98	1,240.10	88.88	14.953	
15,300.00	12,537.23	15,327.27	12,466.76	40.80	51.74	-86.96	-2,717.21	1,589.58	1,329.03	1,237.61	91.43	14.537	
15,400.00	12,538.11	15,427.26	12,467.28	42.06	53.02	-86.95	-2,817.21	1,590.48	1,329.09	1,235.10	93.99	14.141	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:							Offset Well Error: 0.50 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
15,500.00	12,538.98	15,527.26	12,467.81	43.32	54.31	-86.93	-2,917.20	1,591.38	1,329.15	1,232.59	96.56	13.765		
15,600.00	12,539.85	15,627.26	12,468.34	44.59	55.61	-86.92	-3,017.20	1,592.28	1,329.20	1,230.06	99.14	13.407		
15,700.00	12,540.73	15,727.26	12,468.86	45.87	56.90	-86.90	-3,117.19	1,593.17	1,329.26	1,227.53	101.73	13.067		
15,800.00	12,541.60	15,827.26	12,469.39	47.16	58.20	-86.89	-3,217.18	1,594.07	1,329.32	1,224.99	104.33	12.742		
15,900.00	12,542.47	15,927.26	12,469.91	48.44	59.51	-86.87	-3,317.18	1,594.97	1,329.38	1,222.45	106.93	12.432		
16,000.00	12,543.35	16,027.26	12,470.44	49.73	60.81	-86.86	-3,417.17	1,595.87	1,329.43	1,219.90	109.54	12.137		
16,100.00	12,544.22	16,127.26	12,470.97	51.03	62.12	-86.84	-3,517.17	1,596.77	1,329.49	1,217.34	112.15	11.854		
16,200.00	12,545.09	16,227.26	12,471.49	52.33	63.43	-86.83	-3,617.16	1,597.67	1,329.55	1,214.77	114.78	11.584		
16,300.00	12,545.97	16,327.26	12,472.02	53.63	64.75	-86.81	-3,717.15	1,598.57	1,329.61	1,212.20	117.40	11.325		
16,400.00	12,546.84	16,427.26	12,472.54	54.94	66.06	-86.80	-3,817.15	1,599.47	1,329.66	1,209.63	120.03	11.077		
16,500.00	12,547.71	16,527.26	12,473.07	56.25	67.38	-86.78	-3,917.14	1,600.37	1,329.72	1,207.05	122.67	10.840		
16,600.00	12,548.59	16,627.26	12,473.60	57.56	68.70	-86.77	-4,017.14	1,601.27	1,329.78	1,204.47	125.31	10.612		
16,700.00	12,549.46	16,727.26	12,474.12	58.88	70.02	-86.75	-4,117.13	1,602.17	1,329.84	1,201.88	127.95	10.393		
16,800.00	12,550.33	16,827.26	12,474.65	60.20	71.35	-86.74	-4,217.12	1,603.07	1,329.90	1,199.30	130.60	10.183		
16,900.00	12,551.21	16,927.26	12,475.18	61.52	72.67	-86.72	-4,317.12	1,603.97	1,329.95	1,196.70	133.25	9.981		
17,000.00	12,552.08	17,027.26	12,475.70	62.84	74.00	-86.71	-4,417.11	1,604.87	1,330.01	1,194.11	135.91	9.786		
17,100.00	12,552.95	17,127.25	12,476.23	64.16	75.33	-86.69	-4,517.11	1,605.77	1,330.07	1,191.51	138.56	9.599		
17,200.00	12,553.83	17,227.25	12,476.75	65.49	76.65	-86.68	-4,617.10	1,606.67	1,330.13	1,188.91	141.22	9.419		
17,300.00	12,554.70	17,327.25	12,477.28	66.82	77.99	-86.66	-4,717.09	1,607.57	1,330.19	1,186.30	143.89	9.245		
17,400.00	12,555.57	17,427.25	12,477.81	68.14	79.32	-86.65	-4,817.09	1,608.46	1,330.25	1,183.69	146.55	9.077		
17,500.00	12,556.45	17,527.25	12,478.33	69.48	80.65	-86.63	-4,917.08	1,609.36	1,330.31	1,181.08	149.22	8.915		
17,600.00	12,557.32	17,627.25	12,478.86	70.81	81.99	-86.62	-5,017.08	1,610.26	1,330.36	1,178.47	151.89	8.759		
17,700.00	12,558.19	17,727.25	12,479.38	72.14	83.32	-86.60	-5,117.07	1,611.16	1,330.42	1,175.86	154.56	8.608		
17,800.00	12,559.07	17,827.25	12,479.91	73.48	84.66	-86.59	-5,217.06	1,612.06	1,330.48	1,173.24	157.24	8.462		
17,900.00	12,559.94	17,927.25	12,480.44	74.81	86.00	-86.57	-5,317.06	1,612.96	1,330.54	1,170.63	159.91	8.320		
18,000.00	12,560.81	18,027.25	12,480.96	76.15	87.33	-86.56	-5,417.05	1,613.86	1,330.60	1,168.01	162.59	8.184		
18,100.00	12,561.69	18,127.25	12,481.49	77.49	88.67	-86.54	-5,517.04	1,614.76	1,330.66	1,165.39	165.27	8.051		
18,200.00	12,562.56	18,227.25	12,482.02	78.83	90.01	-86.53	-5,617.04	1,615.66	1,330.72	1,162.77	167.95	7.923		
18,300.00	12,563.43	18,327.25	12,482.54	80.17	91.35	-86.52	-5,717.03	1,616.56	1,330.78	1,160.14	170.64	7.799		
18,400.00	12,564.31	18,427.25	12,483.07	81.51	92.70	-86.50	-5,817.03	1,617.46	1,330.84	1,157.52	173.32	7.678		
18,500.00	12,565.18	18,527.25	12,483.59	82.86	94.04	-86.49	-5,917.02	1,618.36	1,330.90	1,154.89	176.01	7.562		
18,600.00	12,566.05	18,627.25	12,484.12	84.20	95.38	-86.47	-6,017.01	1,619.26	1,330.96	1,152.26	178.69	7.448		
18,700.00	12,566.93	18,727.24	12,484.65	85.54	96.73	-86.46	-6,117.01	1,620.16	1,331.02	1,149.63	181.38	7.338		
18,800.00	12,567.80	18,827.24	12,485.17	86.89	98.07	-86.44	-6,217.00	1,621.06	1,331.08	1,147.00	184.07	7.231		
18,900.00	12,568.67	18,927.24	12,485.70	88.24	99.42	-86.43	-6,317.00	1,621.96	1,331.14	1,144.37	186.76	7.127		
19,000.00	12,569.55	19,027.24	12,486.23	89.58	100.76	-86.41	-6,416.99	1,622.86	1,331.20	1,141.74	189.46	7.026		
19,100.00	12,570.42	19,127.24	12,486.75	90.93	102.11	-86.40	-6,516.98	1,623.76	1,331.26	1,139.11	192.15	6.928		
19,200.00	12,571.29	19,227.24	12,487.28	92.28	103.46	-86.38	-6,616.98	1,624.65	1,331.32	1,136.47	194.84	6.833		
19,300.00	12,572.17	19,327.24	12,487.80	93.63	104.81	-86.37	-6,716.97	1,625.55	1,331.38	1,133.84	197.54	6.740		
19,400.00	12,573.04	19,427.24	12,488.33	94.98	106.16	-86.35	-6,816.97	1,626.45	1,331.44	1,131.20	200.23	6.649		
19,500.00	12,573.91	19,527.24	12,488.86	96.33	107.50	-86.34	-6,916.96	1,627.35	1,331.50	1,128.57	202.93	6.561		
19,600.00	12,574.79	19,627.24	12,489.38	97.68	108.85	-86.32	-7,016.95	1,628.25	1,331.56	1,125.93	205.63	6.476		
19,700.00	12,575.66	19,727.24	12,489.91	99.03	110.20	-86.31	-7,116.95	1,629.15	1,331.62	1,123.29	208.33	6.392		
19,800.00	12,576.54	19,827.24	12,490.43	100.38	111.55	-86.29	-7,216.94	1,630.05	1,331.68	1,120.65	211.03	6.311		
19,900.00	12,577.41	19,927.24	12,490.96	101.73	112.91	-86.28	-7,316.94	1,630.95	1,331.74	1,118.02	213.73	6.231		
20,000.00	12,578.28	20,027.24	12,491.49	103.08	114.26	-86.26	-7,416.93	1,631.85	1,331.80	1,115.38	216.43	6.154		
20,100.00	12,579.16	20,127.24	12,492.01	104.44	115.61	-86.25	-7,516.92	1,632.75	1,331.86	1,112.74	219.13	6.078		
20,200.00	12,580.03	20,227.24	12,492.54	105.79	116.96	-86.23	-7,616.92	1,633.65	1,331.92	1,110.09	221.83	6.004		
20,300.00	12,580.90	20,327.24	12,493.07	107.14	118.31	-86.22	-7,716.91	1,634.55	1,331.99	1,107.45	224.53	5.932		
20,400.00	12,581.78	20,427.23	12,493.59	108.50	119.67	-86.20	-7,816.91	1,635.45	1,332.05	1,104.81	227.24	5.862		
20,500.00	12,582.65	20,527.23	12,494.12	109.85	121.02	-86.19	-7,916.90	1,636.35	1,332.11	1,102.17	229.94	5.793		
20,600.00	12,583.52	20,627.23	12,494.64	111.21	122.37	-86.17	-8,016.89	1,637.25	1,332.17	1,099.53	232.64	5.726		

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)		Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Offset Well Error: 0.50 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	+N/-S (usft)	+E/-W (usft)		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
20,700.00	12,584.40	20,727.23	12,495.17	112.56	123.73	-86.16	-8,116.89	1,638.15	1,332.23	1,096.88	235.35	5.661		
20,800.00	12,585.27	20,827.23	12,495.70	113.92	125.08	-86.15	-8,216.88	1,639.05	1,332.29	1,094.24	238.05	5.597		
20,900.00	12,586.14	20,927.23	12,496.22	115.27	126.44	-86.13	-8,316.88	1,639.94	1,332.35	1,091.60	240.76	5.534		
21,000.00	12,587.02	21,027.23	12,496.75	116.63	127.79	-86.12	-8,416.87	1,640.84	1,332.42	1,088.95	243.46	5.473		
21,100.00	12,587.89	21,127.23	12,497.27	117.99	129.15	-86.10	-8,516.86	1,641.74	1,332.48	1,086.31	246.17	5.413		
21,200.00	12,588.76	21,227.23	12,497.80	119.34	130.50	-86.09	-8,616.86	1,642.64	1,332.54	1,083.66	248.88	5.354		
21,300.00	12,589.64	21,327.23	12,498.33	120.70	131.86	-86.07	-8,716.85	1,643.54	1,332.60	1,081.02	251.59	5.297		
21,400.00	12,590.51	21,427.23	12,498.85	122.06	133.21	-86.06	-8,816.85	1,644.44	1,332.66	1,078.37	254.29	5.241		
21,500.00	12,591.38	21,527.23	12,499.38	123.42	134.57	-86.04	-8,916.84	1,645.34	1,332.73	1,075.73	257.00	5.186		
21,600.00	12,592.26	21,627.23	12,499.91	124.77	135.93	-86.03	-9,016.83	1,646.24	1,332.79	1,073.08	259.71	5.132		
21,700.00	12,593.13	21,727.23	12,500.43	126.13	137.28	-86.01	-9,116.83	1,647.14	1,332.85	1,070.43	262.42	5.079		
21,800.00	12,594.00	21,827.23	12,500.96	127.49	138.64	-86.00	-9,216.82	1,648.04	1,332.91	1,067.79	265.13	5.027		
21,900.00	12,594.88	21,927.23	12,501.48	128.85	140.00	-85.98	-9,316.82	1,648.94	1,332.98	1,065.14	267.84	4.977		
22,000.00	12,595.75	22,027.22	12,502.01	130.21	141.36	-85.97	-9,416.81	1,649.84	1,333.04	1,062.49	270.55	4.927		
22,100.00	12,596.62	22,127.22	12,502.54	131.57	142.72	-85.95	-9,516.80	1,650.74	1,333.10	1,059.85	273.26	4.879		
22,200.00	12,597.50	22,227.22	12,503.06	132.93	144.07	-85.94	-9,616.80	1,651.64	1,333.17	1,057.20	275.97	4.831		
22,300.00	12,598.37	22,327.22	12,503.59	134.29	145.43	-85.92	-9,716.79	1,652.54	1,333.23	1,054.55	278.68	4.784		
22,400.00	12,599.24	22,427.22	12,504.12	135.65	146.79	-85.91	-9,816.79	1,653.44	1,333.29	1,051.90	281.39	4.738		
22,500.00	12,600.12	22,527.22	12,504.64	137.01	148.15	-85.89	-9,916.78	1,654.34	1,333.35	1,049.26	284.10	4.693		
22,600.00	12,600.99	22,627.22	12,505.17	138.37	149.51	-85.88	-10,016.77	1,655.24	1,333.42	1,046.61	286.81	4.649		
22,700.00	12,601.86	22,727.22	12,505.69	139.73	150.87	-85.86	-10,116.77	1,656.13	1,333.48	1,043.96	289.52	4.606		
22,796.26	12,602.70	22,823.46	12,506.20	141.04	152.16	-85.85	-10,213.00	1,657.00	1,333.54	1,041.45	292.10	4.565	ES, SF	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:				Offset Well Error:		0.50 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.50	0.50	73.46	696.00	2,344.00	2,445.15				
100.00	100.00	100.00	100.00	0.98	0.98	73.46	696.00	2,344.00	2,445.15	2,443.19	1.96	1,246.136	
200.00	200.00	200.00	200.00	1.56	1.56	73.46	696.00	2,344.00	2,445.15	2,442.03	3.12	783.137	
300.00	300.00	300.00	300.00	1.98	1.98	73.46	696.00	2,344.00	2,445.15	2,441.19	3.96	617.101	CC, ES
400.00	400.00	366.03	366.03	2.33	2.26	73.47	695.80	2,344.54	2,445.84	2,441.27	4.58	534.525	
500.00	500.00	432.02	431.99	2.63	2.53	73.49	695.22	2,346.14	2,447.93	2,442.80	5.12	477.904	
600.00	600.00	500.00	499.91	2.91	2.77	73.54	694.21	2,348.92	2,451.40	2,445.77	5.63	435.549	
700.00	700.00	596.72	596.50	3.16	3.03	73.61	692.48	2,353.68	2,455.61	2,449.47	6.14	399.991	
800.00	800.00	696.59	696.23	3.40	3.28	73.68	690.69	2,358.59	2,459.83	2,453.20	6.63	371.197	
900.00	900.00	796.45	795.95	3.62	3.52	73.75	688.90	2,363.50	2,464.05	2,456.96	7.09	347.611	
1,000.00	1,000.00	896.31	895.68	3.84	3.75	73.82	687.12	2,368.41	2,468.27	2,460.74	7.53	327.818	
1,100.00	1,100.00	996.18	995.40	4.04	3.97	73.89	685.33	2,373.32	2,472.50	2,464.55	7.95	310.899	
1,200.00	1,200.00	1,096.04	1,095.13	4.23	4.19	73.96	683.54	2,378.23	2,476.73	2,468.37	8.36	296.215	
1,300.00	1,300.00	1,195.90	1,194.86	4.42	4.40	74.04	681.75	2,383.14	2,480.97	2,472.21	8.76	283.311	
1,400.00	1,400.00	1,295.77	1,294.58	4.60	4.61	74.11	679.97	2,388.05	2,485.21	2,476.07	9.14	271.854	
1,500.00	1,500.00	1,395.63	1,394.31	4.78	4.81	74.18	678.18	2,392.97	2,489.45	2,479.94	9.52	261.590	
1,600.00	1,600.00	1,495.49	1,494.04	4.95	5.02	74.25	676.39	2,397.88	2,493.70	2,483.82	9.89	252.246	
1,700.00	1,700.00	1,574.22	1,572.62	5.11	5.19	74.32	674.47	2,402.21	2,498.35	2,488.14	10.21	244.686	
1,800.00	1,800.00	1,651.40	1,649.55	5.28	5.37	74.42	671.42	2,407.51	2,503.90	2,493.37	10.53	237.817	
1,900.00	1,900.00	1,728.31	1,726.10	5.44	5.54	74.55	667.22	2,413.82	2,510.37	2,499.53	10.84	231.524	
2,000.00	2,000.00	1,800.00	1,797.28	5.59	5.71	74.70	662.29	2,420.63	2,517.77	2,506.63	11.14	225.981	SF

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)							Rule Assigned:				Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre			Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		
0.00	0.00	0.00	0.00	0.50	0.50	180.00	-160.00	0.00	160.00				
100.00	100.00	100.00	100.00	0.98	0.98	180.00	-160.00	0.00	160.00	158.04	1.96	81.542	
200.00	200.00	200.00	200.00	1.56	1.56	180.00	-160.00	0.00	160.00	156.88	3.12	51.245	
300.00	300.00	300.00	300.00	1.98	1.98	180.00	-160.00	0.00	160.00	156.04	3.96	40.380	
400.00	400.00	403.26	403.24	2.33	2.43	-179.67	-158.94	-0.91	158.98	154.26	4.72	33.696	
500.00	500.00	506.36	506.26	2.63	2.81	-178.66	-155.77	-3.63	155.94	150.57	5.37	29.031	
600.00	600.00	609.16	608.83	2.91	3.13	-176.90	-150.52	-8.15	151.00	145.06	5.94	25.432	
700.00	700.00	709.47	708.76	3.16	3.29	-174.52	-143.95	-13.80	144.87	138.54	6.33	22.872	
800.00	800.00	809.09	808.00	3.40	3.54	-171.94	-137.36	-19.46	138.97	132.15	6.81	20.399	
900.00	900.00	908.71	907.24	3.62	3.78	-169.13	-130.78	-25.12	133.37	126.10	7.27	18.355	
1,000.00	1,000.00	1,008.33	1,006.48	3.84	4.01	-166.08	-124.20	-30.78	128.12	120.42	7.70	16.643	
1,100.00	1,100.00	1,107.95	1,105.72	4.04	4.24	-162.78	-117.61	-36.45	123.26	115.15	8.11	15.194	
1,200.00	1,200.00	1,207.65	1,205.04	4.23	4.47	-159.23	-111.02	-42.11	118.85	110.33	8.52	13.954	
1,300.00	1,300.00	1,308.50	1,305.37	4.42	4.73	-154.71	-103.25	-48.79	114.33	105.42	8.90	12.840	
1,400.00	1,400.00	1,408.74	1,404.79	4.60	4.98	-148.58	-93.54	-57.14	109.72	100.45	9.27	11.834	
1,500.00	1,500.00	1,507.89	1,502.86	4.78	5.13	-141.07	-82.50	-66.64	106.09	96.52	9.57	11.088	
1,600.00	1,600.00	1,606.79	1,600.67	4.95	5.34	-133.15	-71.41	-76.17	104.42	94.47	9.94	10.501	
1,630.63	1,630.63	1,637.09	1,630.63	5.00	5.41	-130.69	-68.02	-79.09	104.32	94.26	10.06	10.371	CC, ES
1,700.00	1,700.00	1,705.69	1,698.48	5.11	5.55	-125.14	-60.33	-85.71	104.82	94.50	10.32	10.154	
1,800.00	1,800.00	1,804.59	1,796.30	5.28	5.77	-117.34	-49.24	-95.24	107.28	96.57	10.71	10.018	
1,900.00	1,900.00	1,903.49	1,894.11	5.44	5.98	-110.01	-38.15	-104.78	111.66	100.56	11.10	10.061	
2,000.00	2,000.00	2,002.39	1,991.93	5.59	6.19	-103.32	-27.07	-114.31	117.75	106.26	11.49	10.250	
2,100.00	2,100.00	2,101.29	2,089.74	5.74	6.39	-97.35	-15.98	-123.84	125.29	113.42	11.88	10.551	
2,200.00	2,200.00	2,200.20	2,187.55	5.89	6.60	-92.10	-4.89	-133.38	134.05	121.79	12.26	10.935	
2,300.00	2,299.99	2,299.12	2,285.39	6.07	6.81	-128.28	6.20	-142.91	144.60	131.95	12.64	11.437	
2,400.00	2,399.91	2,398.03	2,383.21	6.24	7.02	-125.30	17.28	-152.45	157.30	144.29	13.01	12.088	
2,500.00	2,499.69	2,496.86	2,480.96	6.42	7.22	-123.46	28.36	-161.98	171.75	158.38	13.37	12.843	
2,600.00	2,599.27	2,595.55	2,578.57	6.59	7.43	-122.53	39.43	-171.49	187.71	173.98	13.73	13.674	
2,700.00	2,698.57	2,694.03	2,675.96	6.76	7.63	-122.33	50.47	-180.98	205.06	190.98	14.08	14.566	
2,800.00	2,797.62	2,792.30	2,773.15	6.85	7.84	-122.72	61.48	-190.46	223.50	209.13	14.37	15.558	
2,900.00	2,896.65	2,890.56	2,870.33	7.00	8.04	-123.14	72.50	-199.93	242.02	227.31	14.71	16.453	
3,000.00	2,995.68	2,988.81	2,967.50	7.15	8.24	-123.50	83.51	-209.40	260.56	245.50	15.06	17.306	
3,100.00	3,094.70	3,087.07	3,064.68	7.30	8.45	-123.82	94.53	-218.87	279.10	263.70	15.40	18.119	
3,200.00	3,193.73	3,185.32	3,161.85	7.46	8.65	-124.10	105.54	-228.35	297.65	281.90	15.75	18.894	
3,300.00	3,292.76	3,283.58	3,259.03	7.61	8.85	-124.34	116.55	-237.82	316.21	300.10	16.11	19.634	
3,400.00	3,391.78	3,381.83	3,356.20	7.77	9.05	-124.56	127.57	-247.29	334.77	318.31	16.46	20.340	
3,500.00	3,490.81	3,480.09	3,453.38	7.93	9.26	-124.75	138.58	-256.76	353.34	336.52	16.81	21.015	
3,600.00	3,589.84	3,578.34	3,550.55	8.09	9.46	-124.92	149.60	-266.23	371.91	354.74	17.17	21.661	
3,700.00	3,688.87	3,676.60	3,647.73	8.25	9.66	-125.08	160.61	-275.70	390.48	372.95	17.53	22.278	
3,800.00	3,787.89	3,774.85	3,744.90	8.42	9.86	-125.23	171.63	-285.18	409.05	391.17	17.89	22.870	
3,900.00	3,886.92	3,873.10	3,842.08	8.58	10.06	-125.36	182.64	-294.65	427.63	409.38	18.25	23.436	
4,000.00	3,985.95	3,971.36	3,939.25	8.75	10.27	-125.48	193.66	-304.12	446.21	427.60	18.61	23.980	
4,100.00	4,084.98	4,069.61	4,036.43	8.92	10.47	-125.59	204.67	-313.59	464.79	445.82	18.97	24.501	
4,200.00	4,184.00	4,167.87	4,133.60	9.09	10.67	-125.69	215.68	-323.06	483.37	464.04	19.33	25.002	
4,300.00	4,283.03	4,266.12	4,230.78	9.26	10.87	-125.78	226.70	-332.54	501.96	482.26	19.70	25.482	
4,400.00	4,382.06	4,364.38	4,327.95	9.43	11.07	-125.87	237.71	-342.01	520.54	500.48	20.06	25.948	
4,500.00	4,481.09	4,469.95	4,432.46	9.60	11.29	-126.01	249.01	-351.72	538.68	518.23	20.45	26.341	
4,600.00	4,580.11	4,579.55	4,541.34	9.77	11.52	-126.37	258.52	-359.90	554.95	534.10	20.84	26.627	
4,700.00	4,679.14	4,689.64	4,651.02	9.95	11.74	-126.94	265.68	-366.06	569.27	548.05	21.21	26.838	
4,800.00	4,778.17	4,800.06	4,761.26	10.12	11.95	-127.71	270.46	-370.17	581.67	560.12	21.56	26.984	
4,900.00	4,877.31	4,910.73	4,871.88	10.28	12.13	-128.69	272.82	-372.20	591.70	569.86	21.84	27.092	
5,000.00	4,976.75	5,015.61	4,976.75	10.47	12.20	-129.57	273.09	-372.43	598.56	576.50	22.06	27.128	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:					Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)
5,100.00	5,076.44	5,115.29	5,076.44	10.65	12.28	-130.21	273.09	-372.43	603.63	581.33	22.30	27.069	
5,200.00	5,176.30	5,215.15	5,176.30	10.82	12.37	-130.63	273.09	-372.43	607.06	584.53	22.53	26.950	
5,300.00	5,276.26	5,315.11	5,276.26	10.98	12.45	-130.84	273.09	-372.43	608.79	586.06	22.74	26.773	
5,400.00	5,376.26	5,415.11	5,376.26	11.05	12.53	-90.39	273.09	-372.43	609.02	586.14	22.88	26.619	
5,500.00	5,476.26	5,515.11	5,476.26	11.15	12.61	-90.39	273.09	-372.43	609.02	585.97	23.05	26.417	
5,600.00	5,576.26	5,615.11	5,576.26	11.24	12.69	-90.39	273.09	-372.43	609.02	585.80	23.23	26.219	
5,700.00	5,676.26	5,715.11	5,676.26	11.33	12.77	-90.39	273.09	-372.43	609.02	585.62	23.40	26.024	
5,800.00	5,776.26	5,815.11	5,776.26	11.43	12.86	-90.39	273.09	-372.43	609.02	585.45	23.58	25.832	
5,900.00	5,876.26	5,915.11	5,876.26	11.52	12.94	-90.39	273.09	-372.43	609.02	585.27	23.75	25.643	
6,000.00	5,976.26	6,015.11	5,976.26	11.61	13.02	-90.39	273.09	-372.43	609.02	585.10	23.92	25.456	
6,100.00	6,076.26	6,115.11	6,076.26	11.71	13.10	-90.39	273.09	-372.43	609.02	584.93	24.10	25.273	
6,200.00	6,176.26	6,215.11	6,176.26	11.80	13.18	-90.39	273.09	-372.43	609.02	584.75	24.27	25.093	
6,300.00	6,276.26	6,315.11	6,276.26	11.89	13.27	-90.39	273.09	-372.43	609.02	584.58	24.44	24.915	
6,400.00	6,376.26	6,415.11	6,376.26	11.99	13.35	-90.39	273.09	-372.43	609.02	584.41	24.62	24.740	
6,500.00	6,476.26	6,515.11	6,476.26	12.08	13.43	-90.39	273.09	-372.43	609.02	584.23	24.79	24.567	
6,600.00	6,576.26	6,615.11	6,576.26	12.17	13.51	-90.39	273.09	-372.43	609.02	584.06	24.96	24.397	
6,700.00	6,676.26	6,715.11	6,676.26	12.26	13.59	-90.39	273.09	-372.43	609.02	583.89	25.14	24.229	
6,800.00	6,776.26	6,815.11	6,776.26	12.35	13.68	-90.39	273.09	-372.43	609.02	583.72	25.31	24.064	
6,900.00	6,876.26	6,915.11	6,876.26	12.45	13.76	-90.39	273.09	-372.43	609.02	583.54	25.48	23.901	
7,000.00	6,976.26	7,015.11	6,976.26	12.54	13.84	-90.39	273.09	-372.43	609.02	583.37	25.65	23.741	
7,100.00	7,076.26	7,115.11	7,076.26	12.63	13.92	-90.39	273.09	-372.43	609.02	583.20	25.83	23.583	
7,200.00	7,176.26	7,215.11	7,176.26	12.72	14.00	-90.39	273.09	-372.43	609.02	583.03	26.00	23.427	
7,300.00	7,276.26	7,315.11	7,276.26	12.81	14.09	-90.39	273.09	-372.43	609.02	582.86	26.17	23.273	
7,400.00	7,376.26	7,415.11	7,376.26	12.90	14.17	-90.39	273.09	-372.43	609.02	582.68	26.34	23.121	
7,500.00	7,476.26	7,515.11	7,476.26	13.00	14.25	-90.39	273.09	-372.43	609.02	582.51	26.51	22.971	
7,600.00	7,576.26	7,615.11	7,576.26	13.09	14.33	-90.39	273.09	-372.43	609.02	582.34	26.68	22.824	
7,700.00	7,676.26	7,715.11	7,676.26	13.18	14.41	-90.39	273.09	-372.43	609.02	582.17	26.86	22.678	
7,800.00	7,776.26	7,815.11	7,776.26	13.27	14.50	-90.39	273.09	-372.43	609.02	582.00	27.03	22.534	
7,900.00	7,876.26	7,915.11	7,876.26	13.36	14.58	-90.39	273.09	-372.43	609.02	581.83	27.20	22.393	
8,000.00	7,976.26	8,015.11	7,976.26	13.45	14.66	-90.39	273.09	-372.43	609.02	581.66	27.37	22.253	
8,100.00	8,076.26	8,115.11	8,076.26	13.54	14.74	-90.39	273.09	-372.43	609.02	581.48	27.54	22.114	
8,200.00	8,176.26	8,215.11	8,176.26	13.63	14.82	-90.39	273.09	-372.43	609.02	581.31	27.71	21.978	
8,300.00	8,276.26	8,315.11	8,276.26	13.72	14.91	-90.39	273.09	-372.43	609.02	581.14	27.88	21.844	
8,400.00	8,376.26	8,415.11	8,376.26	13.81	14.99	-90.39	273.09	-372.43	609.02	580.97	28.05	21.711	
8,500.00	8,476.26	8,515.11	8,476.26	13.90	15.07	-90.39	273.09	-372.43	609.02	580.80	28.22	21.579	
8,600.00	8,576.26	8,615.11	8,576.26	13.99	15.15	-90.39	273.09	-372.43	609.02	580.63	28.39	21.450	
8,700.00	8,676.26	8,715.11	8,676.26	14.08	15.23	-90.39	273.09	-372.43	609.02	580.46	28.56	21.322	
8,800.00	8,776.26	8,815.11	8,776.26	14.17	15.32	-90.39	273.09	-372.43	609.02	580.29	28.73	21.196	
8,900.00	8,876.26	8,915.11	8,876.26	14.26	15.40	-90.39	273.09	-372.43	609.02	580.12	28.90	21.071	
9,000.00	8,976.26	9,015.11	8,976.26	14.35	15.48	-90.39	273.09	-372.43	609.02	579.95	29.07	20.947	
9,100.00	9,076.26	9,115.11	9,076.26	14.44	15.56	-90.39	273.09	-372.43	609.02	579.78	29.24	20.826	
9,200.00	9,176.26	9,215.11	9,176.26	14.53	15.64	-90.39	273.09	-372.43	609.02	579.61	29.41	20.705	
9,300.00	9,276.26	9,315.11	9,276.26	14.62	15.73	-90.39	273.09	-372.43	609.02	579.44	29.58	20.586	
9,400.00	9,376.26	9,415.11	9,376.26	14.71	15.81	-90.39	273.09	-372.43	609.02	579.27	29.75	20.469	
9,500.00	9,476.26	9,515.11	9,476.26	14.80	15.89	-90.39	273.09	-372.43	609.02	579.10	29.92	20.353	
9,600.00	9,576.26	9,615.11	9,576.26	14.89	15.97	-90.39	273.09	-372.43	609.02	578.93	30.09	20.238	
9,700.00	9,676.26	9,715.11	9,676.26	14.97	16.06	-90.39	273.09	-372.43	609.02	578.76	30.26	20.125	
9,800.00	9,776.26	9,815.11	9,776.26	15.06	16.14	-90.39	273.09	-372.43	609.02	578.59	30.43	20.013	
9,900.00	9,876.26	9,915.11	9,876.26	15.15	16.22	-90.39	273.09	-372.43	609.02	578.42	30.60	19.902	
10,000.00	9,976.26	10,015.11	9,976.26	15.24	16.30	-90.39	273.09	-372.43	609.02	578.25	30.77	19.792	
10,100.00	10,076.26	10,115.11	10,076.26	15.33	16.38	-90.39	273.09	-372.43	609.02	578.08	30.94	19.684	
10,200.00	10,176.26	10,215.11	10,176.26	15.42	16.47	-90.39	273.09	-372.43	609.02	577.92	31.11	19.577	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:				Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
10,300.00	10,276.26	10,315.11	10,276.26	15.51	16.55	-90.39	273.09	-372.43	609.02	577.75	31.28	19.471
10,400.00	10,376.26	10,415.11	10,376.26	15.59	16.63	-90.39	273.09	-372.43	609.02	577.58	31.45	19.367
10,500.00	10,476.26	10,515.11	10,476.26	15.68	16.71	-90.39	273.09	-372.43	609.02	577.41	31.62	19.263
10,600.00	10,576.26	10,615.11	10,576.26	15.77	16.79	-90.39	273.09	-372.43	609.02	577.24	31.79	19.161
10,700.00	10,676.26	10,715.11	10,676.26	15.86	16.88	-90.39	273.09	-372.43	609.02	577.07	31.95	19.059
10,800.00	10,776.26	10,815.11	10,776.26	15.95	16.96	-90.39	273.09	-372.43	609.02	576.90	32.12	18.959
10,900.00	10,876.26	10,915.11	10,876.26	16.04	17.04	-90.39	273.09	-372.43	609.02	576.73	32.29	18.860
11,000.00	10,976.26	11,015.11	10,976.26	16.12	17.12	-90.39	273.09	-372.43	609.02	576.56	32.46	18.762
11,100.00	11,076.26	11,115.11	11,076.26	16.21	17.20	-90.39	273.09	-372.43	609.02	576.40	32.63	18.665
11,200.00	11,176.26	11,215.11	11,176.26	16.30	17.29	-90.39	273.09	-372.43	609.02	576.23	32.80	18.569
11,300.00	11,276.26	11,315.11	11,276.26	16.39	17.37	-90.39	273.09	-372.43	609.02	576.06	32.97	18.474
11,400.00	11,376.26	11,415.11	11,376.26	16.48	17.45	-90.39	273.09	-372.43	609.02	575.89	33.13	18.380
11,500.00	11,476.26	11,515.11	11,476.26	16.56	17.53	-90.39	273.09	-372.43	609.02	575.72	33.30	18.288
11,600.00	11,576.26	11,615.11	11,576.26	16.65	17.62	-90.39	273.09	-372.43	609.02	575.55	33.47	18.196
11,700.00	11,676.26	11,715.11	11,676.26	16.74	17.70	-90.39	273.09	-372.43	609.02	575.38	33.64	18.105
11,800.00	11,776.26	11,815.11	11,776.26	16.83	17.78	-90.39	273.09	-372.43	609.02	575.22	33.81	18.014
11,900.00	11,876.26	11,915.11	11,876.26	16.91	17.86	-90.39	273.09	-372.43	609.02	575.05	33.97	17.926
12,000.00	11,976.24	12,015.17	11,976.29	16.97	17.91	90.07	271.74	-372.42	609.02	574.97	34.05	17.885
12,067.36	12,043.10	12,082.57	12,043.10	17.00	17.93	90.00	263.18	-372.34	609.02	575.07	33.95	17.939
12,100.00	12,075.06	12,115.20	12,074.98	17.02	17.94	89.97	256.23	-372.28	609.02	575.14	33.89	17.972
12,200.00	12,169.87	12,215.04	12,169.30	17.06	17.96	89.87	223.89	-372.01	609.02	575.42	33.61	18.121
12,300.00	12,257.78	12,314.71	12,256.44	17.11	17.98	89.77	175.78	-371.59	609.03	575.77	33.26	18.313
12,400.00	12,336.13	12,414.20	12,333.82	17.16	18.01	89.69	113.43	-371.06	609.03	576.15	32.89	18.519
12,500.00	12,402.54	12,513.55	12,399.17	17.22	18.04	89.61	38.78	-370.41	609.04	576.46	32.57	18.697
12,600.00	12,454.98	12,612.76	12,450.61	17.28	18.10	89.54	-45.91	-369.68	609.04	576.65	32.39	18.805
12,700.00	12,491.87	12,711.86	12,486.65	17.37	18.17	89.49	-138.09	-368.89	609.05	576.66	32.39	18.803
12,800.00	12,512.08	12,810.89	12,506.28	17.49	18.29	89.45	-235.02	-368.06	609.05	576.43	32.62	18.671
12,900.00	12,516.27	12,910.27	12,510.28	17.67	18.44	89.44	-334.26	-367.20	609.05	575.97	33.08	18.410
13,000.00	12,517.14	13,010.27	12,511.15	17.92	18.64	89.44	-434.25	-366.34	609.05	575.26	33.79	18.025
13,100.00	12,518.02	13,110.27	12,512.03	18.29	18.91	89.44	-534.24	-365.48	609.05	574.36	34.70	17.553
13,200.00	12,518.89	13,210.27	12,512.90	18.77	19.24	89.44	-634.23	-364.62	609.05	573.26	35.79	17.016
13,300.00	12,519.76	13,310.27	12,513.77	19.37	19.66	89.44	-734.23	-363.76	609.05	572.00	37.06	16.435
13,400.00	12,520.64	13,410.27	12,514.65	20.06	20.17	89.44	-834.22	-362.90	609.05	570.58	38.48	15.829
13,500.00	12,521.51	13,510.27	12,515.52	20.83	20.77	89.44	-934.21	-362.04	609.05	569.02	40.03	15.214
13,600.00	12,522.38	13,610.27	12,516.39	21.67	21.44	89.44	-1,034.20	-361.17	609.05	567.34	41.71	14.602
13,700.00	12,523.26	13,710.27	12,517.27	22.56	22.20	89.44	-1,134.20	-360.31	609.05	565.56	43.50	14.002
13,800.00	12,524.13	13,810.27	12,518.14	23.51	23.02	89.44	-1,234.19	-359.45	609.05	563.67	45.38	13.422
13,900.00	12,525.00	13,910.27	12,519.01	24.50	23.90	89.44	-1,334.18	-358.59	609.05	561.71	47.34	12.864
14,000.00	12,525.88	14,010.27	12,519.89	25.53	24.83	89.44	-1,434.17	-357.73	609.05	559.67	49.38	12.333
14,100.00	12,526.75	14,110.27	12,520.76	26.59	25.80	89.44	-1,534.17	-356.87	609.05	557.57	51.49	11.829
14,200.00	12,527.62	14,210.27	12,521.63	27.67	26.81	89.44	-1,634.16	-356.01	609.05	555.40	53.65	11.352
14,300.00	12,528.50	14,310.27	12,522.51	28.79	27.85	89.44	-1,734.15	-355.15	609.05	553.19	55.86	10.903
14,400.00	12,529.37	14,410.27	12,523.38	29.92	28.93	89.44	-1,834.14	-354.29	609.05	550.93	58.12	10.479
14,500.00	12,530.24	14,510.27	12,524.25	31.07	30.03	89.44	-1,934.14	-353.43	609.05	548.64	60.42	10.081
14,600.00	12,531.12	14,610.27	12,525.13	32.25	31.15	89.44	-2,034.13	-352.57	609.05	546.30	62.75	9.706
14,700.00	12,531.99	14,710.27	12,526.00	33.43	32.30	89.44	-2,134.12	-351.70	609.05	543.94	65.12	9.353
14,800.00	12,532.87	14,810.27	12,526.87	34.63	33.46	89.44	-2,234.11	-350.84	609.05	541.55	67.51	9.022
14,900.00	12,533.74	14,910.27	12,527.75	35.85	34.63	89.44	-2,334.11	-349.98	609.05	539.13	69.93	8.710
15,000.00	12,534.61	15,010.27	12,528.62	37.07	35.83	89.44	-2,434.10	-349.12	609.05	536.69	72.37	8.416
15,100.00	12,535.49	15,110.27	12,529.49	38.30	37.03	89.44	-2,534.09	-348.26	609.05	534.22	74.83	8.139
15,200.00	12,536.36	15,210.27	12,530.36	39.55	38.25	89.44	-2,634.08	-347.40	609.05	531.74	77.31	7.878
15,300.00	12,537.23	15,310.27	12,531.24	40.80	39.47	89.44	-2,734.08	-346.54	609.05	529.24	79.81	7.631

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)							Rule Assigned:				Offset Well Error:		0.50 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre			Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
15,400.00	12,538.11	15,410.27	12,532.11	42.06	40.71	89.44	-2,834.07	-345.68	609.05	526.73	82.32	7.398		
15,500.00	12,538.98	15,510.27	12,532.98	43.32	41.95	89.44	-2,934.06	-344.82	609.05	524.20	84.85	7.178		
15,600.00	12,539.85	15,610.27	12,533.86	44.59	43.21	89.44	-3,034.05	-343.96	609.05	521.66	87.39	6.969		
15,700.00	12,540.73	15,710.27	12,534.73	45.87	44.46	89.44	-3,134.05	-343.10	609.05	519.11	89.94	6.772		
15,800.00	12,541.60	15,810.27	12,535.60	47.16	45.73	89.44	-3,234.04	-342.23	609.05	516.55	92.50	6.584		
15,900.00	12,542.47	15,910.27	12,536.48	48.44	47.00	89.44	-3,334.03	-341.37	609.05	513.98	95.08	6.406		
16,000.00	12,543.35	16,010.27	12,537.35	49.73	48.28	89.44	-3,434.02	-340.51	609.05	511.40	97.66	6.237		
16,100.00	12,544.22	16,110.27	12,538.22	51.03	49.56	89.44	-3,534.02	-339.65	609.05	508.81	100.25	6.075		
16,200.00	12,545.09	16,210.27	12,539.10	52.33	50.85	89.44	-3,634.01	-338.79	609.05	506.21	102.85	5.922		
16,300.00	12,545.97	16,310.27	12,539.97	53.63	52.14	89.44	-3,734.00	-337.93	609.05	503.60	105.45	5.776		
16,400.00	12,546.84	16,410.27	12,540.84	54.94	53.44	89.44	-3,833.99	-337.07	609.05	500.99	108.06	5.636		
16,500.00	12,547.71	16,510.27	12,541.72	56.25	54.74	89.44	-3,933.99	-336.21	609.06	498.37	110.68	5.503		
16,600.00	12,548.59	16,610.27	12,542.59	57.56	56.04	89.44	-4,033.98	-335.35	609.06	495.75	113.30	5.375		
16,700.00	12,549.46	16,710.27	12,543.46	58.88	57.34	89.44	-4,133.97	-334.49	609.06	493.12	115.93	5.254		
16,800.00	12,550.33	16,810.27	12,544.34	60.20	58.65	89.44	-4,233.96	-333.62	609.06	490.49	118.57	5.137		
16,900.00	12,551.21	16,910.27	12,545.21	61.52	59.97	89.44	-4,333.96	-332.76	609.06	487.85	121.21	5.025		
17,000.00	12,552.08	17,010.27	12,546.08	62.84	61.28	89.44	-4,433.95	-331.90	609.06	485.21	123.85	4.918		
17,100.00	12,552.95	17,110.27	12,546.96	64.16	62.60	89.44	-4,533.94	-331.04	609.06	482.56	126.50	4.815		
17,200.00	12,553.83	17,210.27	12,547.83	65.49	63.91	89.44	-4,633.93	-330.18	609.06	479.91	129.15	4.716		
17,300.00	12,554.70	17,310.27	12,548.70	66.82	65.24	89.44	-4,733.93	-329.32	609.06	477.25	131.80	4.621		
17,400.00	12,555.57	17,410.27	12,549.58	68.14	66.56	89.44	-4,833.92	-328.46	609.06	474.60	134.46	4.530		
17,500.00	12,556.45	17,510.27	12,550.45	69.48	67.88	89.44	-4,933.91	-327.60	609.06	471.94	137.12	4.442		
17,600.00	12,557.32	17,610.27	12,551.32	70.81	69.21	89.44	-5,033.90	-326.74	609.06	469.27	139.78	4.357		
17,700.00	12,558.19	17,710.27	12,552.20	72.14	70.54	89.44	-5,133.90	-325.88	609.06	466.60	142.45	4.276		
17,800.00	12,559.07	17,810.27	12,553.07	73.48	71.87	89.44	-5,233.89	-325.02	609.06	463.93	145.12	4.197		
17,900.00	12,559.94	17,910.27	12,553.94	74.81	73.20	89.44	-5,333.88	-324.15	609.06	461.26	147.79	4.121		
18,000.00	12,560.81	18,010.27	12,554.82	76.15	74.53	89.44	-5,433.87	-323.29	609.06	458.59	150.47	4.048		
18,100.00	12,561.69	18,110.27	12,555.69	77.49	75.87	89.44	-5,533.87	-322.43	609.06	455.91	153.15	3.977		
18,200.00	12,562.56	18,210.27	12,556.56	78.83	77.20	89.44	-5,633.86	-321.57	609.06	453.23	155.82	3.909		
18,300.00	12,563.43	18,310.27	12,557.44	80.17	78.54	89.44	-5,733.85	-320.71	609.06	450.55	158.51	3.842		
18,400.00	12,564.31	18,410.27	12,558.31	81.51	79.88	89.44	-5,833.84	-319.85	609.06	447.87	161.19	3.779		
18,500.00	12,565.18	18,510.27	12,559.18	82.86	81.22	89.44	-5,933.84	-318.99	609.06	445.18	163.87	3.717		
18,600.00	12,566.05	18,610.27	12,560.05	84.20	82.56	89.44	-6,033.83	-318.13	609.06	442.50	166.56	3.657		
18,700.00	12,566.93	18,710.27	12,560.93	85.54	83.90	89.44	-6,133.82	-317.27	609.06	439.81	169.25	3.599		
18,800.00	12,567.80	18,810.27	12,561.80	86.89	85.24	89.44	-6,233.81	-316.41	609.06	437.12	171.94	3.542		
18,900.00	12,568.67	18,910.27	12,562.67	88.24	86.58	89.44	-6,333.81	-315.55	609.06	434.43	174.63	3.488		
19,000.00	12,569.55	19,010.27	12,563.55	89.58	87.92	89.44	-6,433.80	-314.68	609.06	431.73	177.32	3.435		
19,100.00	12,570.42	19,110.27	12,564.42	90.93	89.27	89.44	-6,533.79	-313.82	609.06	429.04	180.02	3.383		
19,200.00	12,571.29	19,210.27	12,565.29	92.28	90.61	89.44	-6,633.78	-312.96	609.06	426.34	182.71	3.333		
19,300.00	12,572.17	19,310.27	12,566.17	93.63	91.96	89.44	-6,733.78	-312.10	609.06	423.64	185.41	3.285		
19,400.00	12,573.04	19,410.27	12,567.04	94.98	93.31	89.44	-6,833.77	-311.24	609.06	420.95	188.11	3.238		
19,500.00	12,573.91	19,510.27	12,567.91	96.33	94.65	89.44	-6,933.76	-310.38	609.06	418.25	190.81	3.192		
19,600.00	12,574.79	19,610.27	12,568.79	97.68	96.00	89.44	-7,033.75	-309.52	609.06	415.55	193.51	3.147		
19,700.00	12,575.66	19,710.27	12,569.66	99.03	97.35	89.44	-7,133.75	-308.66	609.06	412.84	196.21	3.104		
19,800.00	12,576.54	19,810.27	12,570.53	100.38	98.70	89.44	-7,233.74	-307.80	609.06	410.14	198.92	3.062		
19,900.00	12,577.41	19,910.27	12,571.41	101.73	100.05	89.44	-7,333.73	-306.94	609.06	407.44	201.62	3.021		
20,000.00	12,578.28	20,010.27	12,572.28	103.08	101.40	89.44	-7,433.72	-306.08	609.06	404.73	204.32	2.981		
20,100.00	12,579.16	20,110.27	12,573.15	104.44	102.75	89.44	-7,533.72	-305.21	609.06	402.03	207.03	2.942		
20,200.00	12,580.03	20,210.27	12,574.03	105.79	104.10	89.44	-7,633.71	-304.35	609.06	399.32	209.74	2.904		
20,300.00	12,580.90	20,310.27	12,574.90	107.14	105.45	89.44	-7,733.70	-303.49	609.06	396.61	212.44	2.867		
20,400.00	12,581.78	20,410.27	12,575.77	108.50	106.80	89.44	-7,833.69	-302.63	609.06	393.91	215.15	2.831		
20,500.00	12,582.65	20,510.27	12,576.65	109.85	108.16	89.44	-7,933.69	-301.77	609.06	391.20	217.86	2.796		

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Offset Well Error: 0.50 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,583.52	20,610.27	12,577.52	111.21	109.51	89.44	-8,033.68	-300.91	609.06	388.49	220.57	2.761	
20,700.00	12,584.40	20,710.27	12,578.39	112.56	110.86	89.44	-8,133.67	-300.05	609.06	385.78	223.28	2.728	
20,800.00	12,585.27	20,810.27	12,579.27	113.92	112.22	89.44	-8,233.66	-299.19	609.06	383.07	225.99	2.695	
20,900.00	12,586.14	20,910.27	12,580.14	115.27	113.57	89.44	-8,333.66	-298.33	609.06	380.35	228.70	2.663	
21,000.00	12,587.02	21,010.27	12,581.01	116.63	114.93	89.44	-8,433.65	-297.47	609.06	377.64	231.42	2.632	
21,100.00	12,587.89	21,110.27	12,581.89	117.99	116.28	89.44	-8,533.64	-296.61	609.06	374.93	234.13	2.601	
21,200.00	12,588.76	21,210.27	12,582.76	119.34	117.64	89.44	-8,633.63	-295.74	609.06	372.21	236.84	2.572	
21,300.00	12,589.64	21,310.27	12,583.63	120.70	118.99	89.44	-8,733.63	-294.88	609.06	369.50	239.56	2.542	
21,400.00	12,590.51	21,410.27	12,584.51	122.06	120.35	89.44	-8,833.62	-294.02	609.06	366.79	242.27	2.514	
21,500.00	12,591.38	21,510.27	12,585.38	123.42	121.70	89.44	-8,933.61	-293.16	609.06	364.07	244.99	2.486	
21,600.00	12,592.26	21,610.27	12,586.25	124.77	123.06	89.44	-9,033.60	-292.30	609.06	361.35	247.70	2.459	
21,700.00	12,593.13	21,710.27	12,587.13	126.13	124.42	89.44	-9,133.59	-291.44	609.06	358.64	250.42	2.432	
21,800.00	12,594.00	21,810.27	12,588.00	127.49	125.77	89.44	-9,233.59	-290.58	609.06	355.92	253.14	2.406	
21,900.00	12,594.88	21,910.27	12,588.87	128.85	127.13	89.44	-9,333.58	-289.72	609.06	353.20	255.85	2.380	
22,000.00	12,595.75	22,010.27	12,589.75	130.21	128.49	89.44	-9,433.57	-288.86	609.06	350.49	258.57	2.355	
22,100.00	12,596.62	22,110.27	12,590.62	131.57	129.85	89.44	-9,533.56	-288.00	609.06	347.77	261.29	2.331	
22,200.00	12,597.50	22,210.27	12,591.49	132.93	131.21	89.44	-9,633.56	-287.14	609.06	345.05	264.01	2.307	
22,300.00	12,598.37	22,310.27	12,592.36	134.29	132.56	89.44	-9,733.55	-286.27	609.06	342.33	266.73	2.283	
22,400.00	12,599.24	22,410.27	12,593.24	135.65	133.92	89.44	-9,833.54	-285.41	609.06	339.61	269.45	2.260	
22,500.00	12,600.12	22,510.27	12,594.11	137.01	135.28	89.44	-9,933.53	-284.55	609.06	336.89	272.17	2.238	
22,600.00	12,600.99	22,610.27	12,594.98	138.37	136.64	89.43	-10,033.53	-283.69	609.06	334.17	274.89	2.216	
22,700.00	12,601.86	22,710.27	12,595.86	139.73	138.00	89.43	-10,133.52	-282.83	609.06	331.45	277.61	2.194	
22,796.26	12,602.70	22,806.53	12,596.70	141.04	139.31	89.43	-10,229.77	-282.00	609.06	328.83	280.23	2.173	SF

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:				Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
0.00	0.00	3.00	0.00	0.50	0.50	68.66	906.00	2,319.00	2,489.70			
100.00	100.00	103.00	100.00	0.98	1.00	68.66	906.00	2,319.00	2,489.70	2,487.72	1.98	1,258.303
200.00	200.00	203.00	200.00	1.56	1.57	68.66	906.00	2,319.00	2,489.70	2,486.56	3.13	794.236
300.00	300.00	303.00	300.00	1.98	1.99	68.66	906.00	2,319.00	2,489.70	2,485.73	3.97	626.699
400.00	400.00	403.00	400.00	2.33	2.34	68.66	906.00	2,319.00	2,489.70	2,485.03	4.67	533.359
500.00	500.00	503.00	500.00	2.63	2.64	68.66	906.00	2,319.00	2,489.70	2,484.42	5.28	471.776
600.00	600.00	603.00	600.00	2.91	2.92	68.66	906.00	2,319.00	2,489.70	2,483.87	5.83	427.215
700.00	700.00	704.18	701.18	3.16	3.18	68.66	906.00	2,319.00	2,489.70	2,483.36	6.34	392.869
800.00	800.00	843.44	840.40	3.40	3.56	68.72	903.31	2,318.80	2,488.86	2,481.97	6.89	361.356
900.00	900.00	959.24	956.06	3.62	3.81	68.83	897.69	2,318.37	2,486.73	2,479.39	7.34	338.782
1,000.00	1,000.00	1,059.10	1,055.79	3.84	4.00	68.94	892.48	2,317.98	2,484.48	2,476.74	7.74	321.047
1,100.00	1,100.00	1,158.96	1,155.52	4.04	4.19	69.05	887.27	2,317.58	2,482.24	2,474.12	8.12	305.593
1,200.00	1,200.00	1,261.98	1,258.39	4.23	4.32	69.16	881.87	2,317.18	2,480.00	2,471.57	8.44	293.919
1,300.00	1,300.00	1,399.63	1,395.66	4.42	4.59	69.38	871.81	2,316.42	2,476.89	2,468.05	8.84	280.247
1,400.00	1,400.00	1,513.05	1,508.50	4.60	4.71	69.62	860.33	2,315.55	2,472.59	2,463.46	9.13	270.880
1,500.00	1,500.00	1,612.50	1,607.40	4.78	4.90	69.84	849.96	2,314.77	2,468.22	2,458.74	9.49	260.222
1,600.00	1,600.00	1,711.95	1,706.31	4.95	5.09	70.06	839.60	2,313.98	2,463.89	2,454.05	9.84	250.489
1,700.00	1,700.00	1,811.41	1,805.22	5.11	5.27	70.28	829.23	2,313.20	2,459.59	2,449.41	10.18	241.555
1,800.00	1,800.00	1,910.86	1,904.13	5.28	5.46	70.50	818.87	2,312.42	2,455.33	2,444.81	10.52	233.317
1,900.00	1,900.00	2,010.31	2,003.03	5.44	5.65	70.72	808.51	2,311.63	2,451.11	2,440.25	10.86	225.689
2,000.00	2,000.00	2,109.76	2,101.94	5.59	5.83	70.95	798.14	2,310.85	2,446.92	2,435.73	11.19	218.601
2,100.00	2,100.00	2,209.22	2,200.85	5.74	6.02	71.17	787.78	2,310.06	2,442.78	2,431.25	11.52	211.992
2,200.00	2,200.00	2,308.67	2,299.76	5.89	6.20	71.39	777.41	2,309.28	2,438.67	2,426.82	11.85	205.812
2,300.00	2,299.99	2,408.00	2,398.54	6.07	6.39	31.20	767.06	2,308.50	2,433.48	2,421.28	12.19	199.574
2,400.00	2,399.91	2,507.04	2,497.04	6.24	6.57	31.53	756.74	2,307.72	2,426.10	2,413.57	12.53	193.603
2,500.00	2,499.69	2,605.72	2,595.19	6.42	6.75	31.91	746.45	2,306.94	2,416.57	2,403.70	12.87	187.821
2,600.00	2,599.27	2,703.98	2,692.91	6.59	6.94	32.35	736.21	2,306.17	2,404.90	2,391.70	13.20	182.204
2,700.00	2,698.57	2,801.75	2,790.14	6.76	7.12	32.84	726.02	2,305.40	2,391.13	2,377.60	13.53	176.731
2,800.00	2,797.62	2,899.10	2,886.95	6.85	7.30	33.29	715.88	2,304.63	2,375.79	2,362.00	13.79	172.345
2,900.00	2,896.65	2,996.41	2,983.73	7.00	7.48	33.70	705.74	2,303.86	2,360.45	2,346.35	14.10	167.458
3,000.00	2,995.68	3,093.72	3,080.51	7.15	7.66	34.12	695.60	2,303.10	2,345.24	2,330.83	14.41	162.769
3,100.00	3,094.70	3,191.03	3,177.29	7.30	7.84	34.55	685.46	2,302.33	2,330.15	2,315.43	14.72	158.268
3,200.00	3,193.73	3,288.34	3,274.06	7.46	8.02	34.98	675.31	2,301.56	2,315.20	2,300.16	15.04	153.947
3,300.00	3,292.76	3,385.65	3,370.84	7.61	8.20	35.41	665.17	2,300.80	2,300.38	2,285.02	15.36	149.796
3,400.00	3,391.78	3,482.96	3,467.62	7.77	8.37	35.85	655.03	2,300.03	2,285.69	2,270.01	15.68	145.808
3,500.00	3,490.81	3,580.27	3,564.40	7.93	8.55	36.30	644.89	2,299.26	2,271.14	2,255.15	16.00	141.976
3,600.00	3,589.84	3,677.58	3,661.18	8.09	8.73	36.75	634.75	2,298.50	2,256.74	2,240.42	16.32	138.291
3,700.00	3,688.87	3,774.89	3,757.95	8.25	8.91	37.21	624.61	2,297.73	2,242.48	2,225.84	16.64	134.748
3,800.00	3,787.89	3,872.20	3,854.73	8.42	9.09	37.67	614.47	2,296.96	2,228.36	2,211.40	16.97	131.338
3,900.00	3,886.92	3,969.52	3,951.51	8.58	9.27	38.14	604.32	2,296.20	2,214.40	2,197.11	17.29	128.058
4,000.00	3,985.95	4,066.83	4,048.29	8.75	9.45	38.62	594.18	2,295.43	2,200.59	2,182.97	17.62	124.899
4,100.00	4,084.98	4,164.14	4,145.07	8.92	9.63	39.10	584.04	2,294.66	2,186.93	2,168.98	17.95	121.858
4,200.00	4,184.00	4,261.45	4,241.84	9.09	9.81	39.58	573.90	2,293.90	2,173.43	2,155.16	18.28	118.928
4,300.00	4,283.03	4,358.76	4,338.62	9.26	9.99	40.07	563.76	2,293.13	2,160.10	2,141.49	18.60	116.105
4,400.00	4,382.06	4,456.07	4,435.40	9.43	10.17	40.57	553.62	2,292.36	2,146.92	2,127.99	18.94	113.384
4,500.00	4,481.09	4,553.38	4,532.18	9.60	10.35	41.08	543.48	2,291.60	2,133.92	2,114.65	19.27	110.760
4,600.00	4,580.11	4,650.69	4,628.95	9.77	10.52	41.59	533.33	2,290.83	2,121.08	2,101.49	19.60	108.229
4,700.00	4,679.14	4,748.00	4,725.73	9.95	10.70	42.10	523.19	2,290.06	2,108.42	2,088.49	19.93	105.787
4,800.00	4,778.17	4,845.31	4,822.51	10.12	10.88	42.62	513.05	2,289.30	2,095.94	2,075.67	20.26	103.430
4,900.00	4,877.31	4,942.81	4,919.47	10.28	11.06	43.04	502.89	2,288.53	2,084.26	2,063.69	20.57	101.303
5,000.00	4,976.75	5,040.82	5,016.95	10.47	11.24	43.41	492.68	2,287.76	2,074.62	2,053.71	20.91	99.218
5,100.00	5,076.44	5,139.30	5,114.89	10.65	11.42	43.76	482.41	2,286.98	2,066.99	2,045.76	21.24	97.334

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)		Rule Assigned:		Offset Site Error:		Offset Well Error:	
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Minimum	Separation
Measured Depth	Vertical Depth	Reference	Toolface	+N/-S	+E/-W	Separation	Factor
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)
5,200.00	5,176.30	5,238.16	5,213.21	10.82	11.60	44.08	472.11
5,300.00	5,276.26	5,337.35	5,311.86	10.98	11.79	44.38	461.77
5,400.00	5,376.26	5,436.77	5,410.73	11.05	11.97	85.14	451.41
5,500.00	5,476.26	5,536.23	5,509.64	11.15	12.15	85.43	441.05
5,600.00	5,576.26	5,635.68	5,608.55	11.24	12.33	85.71	430.68
5,700.00	5,676.26	5,735.13	5,707.46	11.33	12.52	86.00	420.32
5,800.00	5,776.26	5,834.58	5,806.36	11.43	12.70	86.29	409.95
5,900.00	5,876.26	5,934.04	5,905.27	11.52	12.88	86.57	399.59
6,000.00	5,976.26	6,033.49	6,004.18	11.61	13.06	86.86	389.22
6,100.00	6,076.26	6,132.94	6,103.09	11.71	13.25	87.15	378.86
6,200.00	6,176.26	6,232.39	6,201.99	11.80	13.43	87.44	368.50
6,300.00	6,276.26	6,331.85	6,300.90	11.89	13.61	87.73	358.13
6,400.00	6,376.26	6,431.30	6,399.81	11.99	13.79	88.02	347.77
6,500.00	6,476.26	6,530.75	6,498.72	12.08	13.98	88.31	337.40
6,600.00	6,576.26	6,630.20	6,597.62	12.17	14.16	88.60	327.04
6,700.00	6,676.26	6,729.65	6,696.53	12.26	14.34	88.89	316.67
6,800.00	6,776.26	6,826.45	6,792.83	12.35	14.50	89.16	306.98
6,900.00	6,876.26	6,921.66	6,887.75	12.45	14.68	89.37	299.61
7,000.00	6,976.26	7,017.18	6,983.14	12.54	14.85	89.51	294.58
7,100.00	7,076.26	7,112.90	7,078.82	12.63	14.99	89.59	291.93
7,184.74	7,161.00	7,195.08	7,161.00	12.71	15.03	89.60	291.49
7,200.00	7,176.26	7,210.34	7,176.26	12.72	15.03	89.60	291.49
7,300.00	7,276.26	7,310.34	7,276.26	12.81	15.05	89.60	291.49
7,400.00	7,376.26	7,410.34	7,376.26	12.90	15.08	89.60	291.49
7,500.00	7,476.26	7,510.34	7,476.26	13.00	15.10	89.60	291.49
7,600.00	7,576.26	7,610.34	7,576.26	13.09	15.13	89.60	291.49
7,700.00	7,676.26	7,710.34	7,676.26	13.18	15.16	89.60	291.49
7,800.00	7,776.26	7,810.34	7,776.26	13.27	15.18	89.60	291.49
7,900.00	7,876.26	7,910.34	7,876.26	13.36	15.21	89.60	291.49
8,000.00	7,976.26	8,010.34	7,976.26	13.45	15.24	89.60	291.49
8,100.00	8,076.26	8,110.34	8,076.26	13.54	15.26	89.60	291.49
8,200.00	8,176.26	8,210.34	8,176.26	13.63	15.29	89.60	291.49
8,300.00	8,276.26	8,310.34	8,276.26	13.72	15.32	89.60	291.49
8,400.00	8,376.26	8,410.34	8,376.26	13.81	15.35	89.60	291.49
8,500.00	8,476.26	8,510.34	8,476.26	13.90	15.38	89.60	291.49
8,600.00	8,576.26	8,610.34	8,576.26	13.99	15.41	89.60	291.49
8,700.00	8,676.26	8,710.34	8,676.26	14.08	15.44	89.60	291.49
8,800.00	8,776.26	8,810.34	8,776.26	14.17	15.47	89.60	291.49
8,900.00	8,876.26	8,910.34	8,876.26	14.26	15.50	89.60	291.49
9,000.00	8,976.26	9,010.34	8,976.26	14.35	15.53	89.60	291.49
9,100.00	9,076.26	9,110.34	9,076.26	14.44	15.56	89.60	291.49
9,200.00	9,176.26	9,210.34	9,176.26	14.53	15.59	89.60	291.49
9,300.00	9,276.26	9,310.34	9,276.26	14.62	15.62	89.60	291.49
9,400.00	9,376.26	9,410.34	9,376.26	14.71	15.65	89.60	291.49
9,500.00	9,476.26	9,510.34	9,476.26	14.80	15.69	89.60	291.49
9,600.00	9,576.26	9,610.34	9,576.26	14.89	15.72	89.60	291.49
9,700.00	9,676.26	9,710.34	9,676.26	14.97	15.75	89.60	291.49
9,800.00	9,776.26	9,810.34	9,776.26	15.06	15.79	89.60	291.49
9,900.00	9,876.26	9,910.34	9,876.26	15.15	15.82	89.60	291.49
10,000.00	9,976.26	10,010.34	9,976.26	15.24	15.86	89.60	291.49
10,100.00	10,076.26	10,110.34	10,076.26	15.33	15.89	89.60	291.49
10,200.00	10,176.26	10,210.34	10,176.26	15.42	15.93	89.60	291.49

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance		Offset Well Error:		0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,276.26	10,310.34	10,276.26	15.51	15.96	89.60	291.49	2,272.55	2,036.02	2,005.97	30.05	67.765	
10,400.00	10,376.26	10,410.34	10,376.26	15.59	16.00	89.60	291.49	2,272.55	2,036.02	2,005.85	30.17	67.492	
10,500.00	10,476.26	10,510.34	10,476.26	15.68	16.03	89.60	291.49	2,272.55	2,036.02	2,005.73	30.29	67.220	
10,600.00	10,576.26	10,610.34	10,576.26	15.77	16.07	89.60	291.49	2,272.55	2,036.02	2,005.61	30.41	66.949	
10,700.00	10,676.26	10,710.34	10,676.26	15.86	16.11	89.60	291.49	2,272.55	2,036.02	2,005.49	30.53	66.681	
10,800.00	10,776.26	10,810.34	10,776.26	15.95	16.14	89.60	291.49	2,272.55	2,036.02	2,005.36	30.66	66.413	
10,900.00	10,876.26	10,910.34	10,876.26	16.04	16.18	89.60	291.49	2,272.55	2,036.02	2,005.24	30.78	66.148	
11,000.00	10,976.26	11,010.34	10,976.26	16.12	16.22	89.60	291.49	2,272.55	2,036.02	2,005.12	30.90	65.883	
11,100.00	11,076.26	11,110.34	11,076.26	16.21	16.26	89.60	291.49	2,272.55	2,036.02	2,004.99	31.03	65.621	
11,200.00	11,176.26	11,210.34	11,176.26	16.30	16.30	89.60	291.49	2,272.55	2,036.02	2,004.87	31.15	65.359	
11,300.00	11,276.26	11,310.34	11,276.26	16.39	16.33	89.60	291.49	2,272.55	2,036.02	2,004.74	31.28	65.099	
11,400.00	11,376.26	11,410.34	11,376.26	16.48	16.37	89.60	291.49	2,272.55	2,036.02	2,004.62	31.40	64.841	
11,500.00	11,476.26	11,510.34	11,476.26	16.56	16.41	89.60	291.49	2,272.55	2,036.02	2,004.49	31.53	64.584	
11,600.00	11,576.26	11,610.34	11,576.26	16.65	16.45	89.60	291.49	2,272.55	2,036.02	2,004.37	31.65	64.329	
11,700.00	11,676.26	11,710.34	11,676.26	16.74	16.49	89.60	291.49	2,272.55	2,036.02	2,004.24	31.78	64.075	
11,800.00	11,776.26	11,810.34	11,776.26	16.83	16.53	89.60	291.49	2,272.55	2,036.02	2,004.12	31.90	63.824	
11,808.14	11,784.40	11,818.48	11,784.40	16.83	16.53	89.60	291.49	2,272.55	2,036.02	2,004.11	31.91	63.804	CC
11,900.00	11,876.26	11,910.17	11,876.09	16.91	16.59	89.61	291.10	2,272.55	2,036.02	2,004.00	32.02	63.584	
12,000.00	11,976.24	12,007.90	11,972.97	16.97	16.83	-89.59	279.22	2,272.66	2,036.08	2,003.90	32.18	63.279	
12,100.00	12,075.06	12,102.99	12,063.98	17.02	17.09	-89.18	252.02	2,272.91	2,036.25	2,003.92	32.33	62.989	
12,200.00	12,169.87	12,196.04	12,147.49	17.06	17.36	-88.80	211.21	2,273.28	2,036.51	2,003.96	32.55	62.574	
12,300.00	12,257.78	12,287.34	12,221.96	17.11	17.60	-88.46	158.56	2,273.76	2,036.83	2,003.98	32.85	62.000	
12,400.00	12,336.13	12,377.18	12,286.17	17.16	17.83	-88.16	95.87	2,274.33	2,037.17	2,003.90	33.27	61.232	
12,500.00	12,402.54	12,465.84	12,339.17	17.22	18.02	-87.91	24.90	2,274.97	2,037.51	2,003.68	33.83	60.232	
12,600.00	12,454.98	12,553.62	12,380.25	17.28	18.52	-87.72	-52.56	2,275.68	2,037.80	2,003.25	34.55	58.981	
12,700.00	12,491.87	12,640.76	12,408.87	17.37	19.35	-87.59	-134.78	2,276.42	2,038.02	2,002.57	35.45	57.482	
12,800.00	12,512.08	12,727.55	12,424.66	17.49	20.22	-87.53	-220.03	2,277.20	2,038.16	2,001.62	36.53	55.789	
12,900.00	12,516.27	12,818.55	12,428.12	17.67	21.19	-87.52	-310.92	2,278.03	2,038.21	2,000.40	37.81	53.909	
13,000.00	12,517.14	12,918.55	12,428.65	17.92	22.29	-87.51	-410.91	2,278.93	2,038.28	1,998.94	39.33	51.821	
13,100.00	12,518.02	13,018.55	12,429.17	18.29	23.42	-87.50	-510.90	2,279.84	2,038.34	1,997.36	40.98	49.736	
13,200.00	12,518.89	13,118.55	12,429.70	18.77	24.57	-87.49	-610.90	2,280.75	2,038.40	1,995.66	42.75	47.687	
13,300.00	12,519.76	13,218.55	12,430.22	19.37	25.74	-87.48	-710.89	2,281.66	2,038.46	1,993.86	44.61	45.696	
13,400.00	12,520.64	13,318.55	12,430.75	20.06	26.94	-87.47	-810.89	2,282.57	2,038.53	1,991.97	46.56	43.780	
13,500.00	12,521.51	13,418.55	12,431.27	20.83	28.14	-87.46	-910.88	2,283.48	2,038.59	1,990.00	48.60	41.950	
13,600.00	12,522.38	13,518.55	12,431.80	21.67	29.37	-87.45	-1,010.87	2,284.39	2,038.65	1,987.96	50.70	40.211	
13,700.00	12,523.26	13,618.55	12,432.32	22.56	30.60	-87.44	-1,110.87	2,285.30	2,038.72	1,985.86	52.86	38.566	
13,800.00	12,524.13	13,718.55	12,432.85	23.51	31.85	-87.43	-1,210.86	2,286.21	2,038.78	1,983.70	55.08	37.014	
13,900.00	12,525.00	13,818.55	12,433.37	24.50	33.10	-87.42	-1,310.85	2,287.11	2,038.84	1,981.50	57.35	35.552	
14,000.00	12,525.88	13,918.55	12,433.90	25.53	34.37	-87.41	-1,410.85	2,288.02	2,038.91	1,979.25	59.66	34.177	
14,100.00	12,526.75	14,018.55	12,434.42	26.59	35.64	-87.40	-1,510.84	2,288.93	2,038.97	1,976.97	62.00	32.885	
14,200.00	12,527.62	14,118.55	12,434.95	27.67	36.92	-87.40	-1,610.84	2,289.84	2,039.04	1,974.65	64.38	31.671	
14,300.00	12,528.50	14,218.54	12,435.47	28.79	38.21	-87.39	-1,710.83	2,290.75	2,039.10	1,972.31	66.79	30.530	
14,400.00	12,529.37	14,318.54	12,436.00	29.92	39.50	-87.38	-1,810.82	2,291.66	2,039.16	1,969.94	69.23	29.457	
14,500.00	12,530.24	14,418.54	12,436.52	31.07	40.79	-87.37	-1,910.82	2,292.57	2,039.23	1,967.54	71.68	28.448	
14,600.00	12,531.12	14,518.54	12,437.05	32.25	42.09	-87.36	-2,010.81	2,293.48	2,039.29	1,965.13	74.16	27.498	
14,700.00	12,531.99	14,618.54	12,437.57	33.43	43.40	-87.35	-2,110.81	2,294.38	2,039.35	1,962.70	76.66	26.603	
14,800.00	12,532.87	14,718.54	12,438.10	34.63	44.71	-87.34	-2,210.80	2,295.29	2,039.42	1,960.25	79.17	25.759	
14,900.00	12,533.74	14,818.54	12,438.62	35.85	46.02	-87.33	-2,310.79	2,296.20	2,039.48	1,957.78	81.70	24.962	
15,000.00	12,534.61	14,918.54	12,439.15	37.07	47.34	-87.32	-2,410.79	2,297.11	2,039.55	1,955.30	84.25	24.210	
15,100.00	12,535.49	15,018.54	12,439.67	38.30	48.65	-87.31	-2,510.78	2,298.02	2,039.61	1,952.81	86.80	23.498	
15,200.00	12,536.36	15,118.54	12,440.20	39.55	49.98	-87.30	-2,610.78	2,298.93	2,039.67	1,950.31	89.37	22.823	
15,300.00	12,537.23	15,218.54	12,440.72	40.80	51.30	-87.29	-2,710.77	2,299.84	2,039.74	1,947.79	91.94	22.184	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: Reference		0-MWD+HRGM+SAG+FDIR (rev.5)		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Offset Well Error: 0.50 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	12,538.11	15,318.54	12,441.25	42.06	52.63	-87.28	-2,810.76	2,300.75	2,039.80	1,945.27	94.53	21.578	
15,500.00	12,538.98	15,418.54	12,441.77	43.32	53.95	-87.27	-2,910.76	2,301.66	2,039.87	1,942.74	97.13	21.002	
15,600.00	12,539.85	15,518.54	12,442.30	44.59	55.29	-87.26	-3,010.75	2,302.56	2,039.93	1,940.20	99.73	20.455	
15,700.00	12,540.73	15,618.54	12,442.82	45.87	56.62	-87.25	-3,110.74	2,303.47	2,040.00	1,937.66	102.34	19.934	
15,800.00	12,541.60	15,718.54	12,443.35	47.16	57.95	-87.24	-3,210.74	2,304.38	2,040.06	1,935.11	104.96	19.437	
15,900.00	12,542.47	15,818.54	12,443.87	48.44	59.29	-87.23	-3,310.73	2,305.29	2,040.13	1,932.55	107.58	18.964	
16,000.00	12,543.35	15,918.53	12,444.40	49.73	60.62	-87.22	-3,410.73	2,306.20	2,040.19	1,929.98	110.21	18.512	
16,100.00	12,544.22	16,018.53	12,444.92	51.03	61.96	-87.21	-3,510.72	2,307.11	2,040.26	1,927.41	112.84	18.081	
16,200.00	12,545.09	16,118.53	12,445.45	52.33	63.30	-87.20	-3,610.71	2,308.02	2,040.32	1,924.84	115.48	17.668	
16,300.00	12,545.97	16,218.53	12,445.97	53.63	64.64	-87.19	-3,710.71	2,308.93	2,040.39	1,922.26	118.12	17.273	
16,400.00	12,546.84	16,318.53	12,446.50	54.94	65.99	-87.18	-3,810.70	2,309.84	2,040.45	1,919.68	120.77	16.895	
16,500.00	12,547.71	16,418.53	12,447.02	56.25	67.33	-87.17	-3,910.70	2,310.74	2,040.51	1,917.09	123.42	16.533	
16,600.00	12,548.59	16,518.53	12,447.55	57.56	68.67	-87.16	-4,010.69	2,311.65	2,040.58	1,914.50	126.08	16.185	
16,700.00	12,549.46	16,618.53	12,448.07	58.88	70.02	-87.15	-4,110.68	2,312.56	2,040.65	1,911.91	128.74	15.851	
16,800.00	12,550.33	16,718.53	12,448.60	60.20	71.37	-87.14	-4,210.68	2,313.47	2,040.71	1,909.31	131.40	15.531	
16,900.00	12,551.21	16,818.53	12,449.12	61.52	72.71	-87.13	-4,310.67	2,314.38	2,040.78	1,906.71	134.06	15.222	
17,000.00	12,552.08	16,918.53	12,449.65	62.84	74.06	-87.12	-4,410.66	2,315.29	2,040.84	1,904.11	136.73	14.926	
17,100.00	12,552.95	17,018.53	12,450.17	64.16	75.41	-87.11	-4,510.66	2,316.20	2,040.91	1,901.50	139.40	14.640	
17,200.00	12,553.83	17,118.53	12,450.70	65.49	76.76	-87.10	-4,610.65	2,317.11	2,040.97	1,898.90	142.08	14.365	
17,300.00	12,554.70	17,218.53	12,451.22	66.82	78.11	-87.09	-4,710.65	2,318.02	2,041.04	1,896.29	144.75	14.100	
17,400.00	12,555.57	17,318.53	12,451.75	68.14	79.46	-87.08	-4,810.64	2,318.92	2,041.10	1,893.67	147.43	13.845	
17,500.00	12,556.45	17,418.53	12,452.27	69.48	80.81	-87.07	-4,910.63	2,319.83	2,041.17	1,891.06	150.11	13.598	
17,600.00	12,557.32	17,518.52	12,452.80	70.81	82.16	-87.07	-5,010.63	2,320.74	2,041.23	1,888.44	152.79	13.360	
17,700.00	12,558.19	17,618.52	12,453.32	72.14	83.52	-87.06	-5,110.62	2,321.65	2,041.30	1,885.83	155.47	13.130	
17,800.00	12,559.07	17,718.52	12,453.85	73.48	84.87	-87.05	-5,210.62	2,322.56	2,041.36	1,883.21	158.16	12.907	
17,900.00	12,559.94	17,818.52	12,454.37	74.81	86.22	-87.04	-5,310.61	2,323.47	2,041.43	1,880.58	160.85	12.692	
18,000.00	12,560.81	17,918.52	12,454.90	76.15	87.58	-87.03	-5,410.60	2,324.38	2,041.50	1,877.96	163.53	12.484	
18,100.00	12,561.69	18,018.52	12,455.42	77.49	88.93	-87.02	-5,510.60	2,325.29	2,041.56	1,875.34	166.22	12.282	
18,200.00	12,562.56	18,118.52	12,455.95	78.83	90.29	-87.01	-5,610.59	2,326.20	2,041.63	1,872.71	168.92	12.087	
18,300.00	12,563.43	18,218.52	12,456.47	80.17	91.64	-87.00	-5,710.59	2,327.10	2,041.69	1,870.09	171.61	11.897	
18,400.00	12,564.31	18,318.52	12,457.00	81.51	93.00	-86.99	-5,810.58	2,328.01	2,041.76	1,867.46	174.30	11.714	
18,500.00	12,565.18	18,418.52	12,457.52	82.86	94.36	-86.98	-5,910.57	2,328.92	2,041.83	1,864.83	177.00	11.536	
18,600.00	12,566.05	18,518.52	12,458.05	84.20	95.71	-86.97	-6,010.57	2,329.83	2,041.89	1,862.20	179.70	11.363	
18,700.00	12,566.93	18,618.52	12,458.57	85.54	97.07	-86.96	-6,110.56	2,330.74	2,041.96	1,859.57	182.39	11.195	
18,800.00	12,567.80	18,718.52	12,459.10	86.89	98.43	-86.95	-6,210.55	2,331.65	2,042.03	1,856.93	185.09	11.032	
18,900.00	12,568.67	18,818.52	12,459.62	88.24	99.79	-86.94	-6,310.55	2,332.56	2,042.09	1,854.30	187.79	10.874	
19,000.00	12,569.55	18,918.52	12,460.15	89.58	101.14	-86.93	-6,410.54	2,333.47	2,042.16	1,851.67	190.49	10.720	
19,100.00	12,570.42	19,018.52	12,460.67	90.93	102.50	-86.92	-6,510.54	2,334.37	2,042.22	1,849.03	193.19	10.571	
19,200.00	12,571.29	19,118.51	12,461.20	92.28	103.86	-86.91	-6,610.53	2,335.28	2,042.29	1,846.39	195.90	10.425	
19,300.00	12,572.17	19,218.51	12,461.72	93.63	105.22	-86.90	-6,710.52	2,336.19	2,042.36	1,843.76	198.60	10.284	
19,400.00	12,573.04	19,318.51	12,462.25	94.98	106.58	-86.89	-6,810.52	2,337.10	2,042.42	1,841.12	201.30	10.146	
19,500.00	12,573.91	19,418.51	12,462.77	96.33	107.94	-86.88	-6,910.51	2,338.01	2,042.49	1,838.48	204.01	10.012	
19,600.00	12,574.79	19,518.51	12,463.30	97.68	109.30	-86.87	-7,010.51	2,338.92	2,042.56	1,835.84	206.72	9.881	
19,700.00	12,575.66	19,618.51	12,463.82	99.03	110.66	-86.86	-7,110.50	2,339.83	2,042.62	1,833.20	209.42	9.754	
19,800.00	12,576.54	19,718.51	12,464.35	100.38	112.02	-86.85	-7,210.49	2,340.74	2,042.69	1,830.56	212.13	9.629	
19,900.00	12,577.41	19,818.51	12,464.88	101.73	113.38	-86.84	-7,310.49	2,341.65	2,042.76	1,827.92	214.84	9.508	
20,000.00	12,578.28	19,918.51	12,465.40	103.08	114.74	-86.83	-7,410.48	2,342.55	2,042.83	1,825.28	217.55	9.390	
20,100.00	12,579.16	20,018.51	12,465.93	104.44	116.10	-86.82	-7,510.47	2,343.46	2,042.89	1,822.64	220.25	9.275	
20,200.00	12,580.03	20,118.51	12,466.45	105.79	117.46	-86.81	-7,610.47	2,344.37	2,042.96	1,820.00	222.96	9.163	
20,300.00	12,580.90	20,218.51	12,466.98	107.14	118.82	-86.80	-7,710.46	2,345.28	2,043.03	1,817.35	225.67	9.053	
20,400.00	12,581.78	20,318.51	12,467.50	108.50	120.18	-86.79	-7,810.46	2,346.19	2,043.09	1,814.71	228.38	8.946	
20,500.00	12,582.65	20,418.51	12,468.03	109.85	121.55	-86.78	-7,910.45	2,347.10	2,043.16	1,812.07	231.10	8.841	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)													Offset Site Error: 0.00 usft	
Reference Offset Semi Major Axis													Offset Well Error: 0.50 usft	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
20,600.00	12,583.52	20,518.51	12,468.55	111.21	122.91	-86.77	-8,010.44	2,348.01	2,043.23	1,809.42	233.81	8.739		
20,700.00	12,584.40	20,618.51	12,469.08	112.56	124.27	-86.76	-8,110.44	2,348.92	2,043.30	1,806.78	236.52	8.639		
20,800.00	12,585.27	20,718.50	12,469.60	113.92	125.63	-86.76	-8,210.43	2,349.83	2,043.36	1,804.13	239.23	8.541		
20,900.00	12,586.14	20,818.50	12,470.13	115.27	126.99	-86.75	-8,310.43	2,350.73	2,043.43	1,801.49	241.95	8.446		
21,000.00	12,587.02	20,918.50	12,470.65	116.63	128.36	-86.74	-8,410.42	2,351.64	2,043.50	1,798.84	244.66	8.352		
21,100.00	12,587.89	21,018.50	12,471.18	117.99	129.72	-86.73	-8,510.41	2,352.55	2,043.57	1,796.19	247.37	8.261		
21,200.00	12,588.76	21,118.50	12,471.70	119.34	131.08	-86.72	-8,610.41	2,353.46	2,043.63	1,793.55	250.09	8.172		
21,300.00	12,589.64	21,218.50	12,472.23	120.70	132.44	-86.71	-8,710.40	2,354.37	2,043.70	1,790.90	252.80	8.084		
21,400.00	12,590.51	21,318.50	12,472.75	122.06	133.81	-86.70	-8,810.40	2,355.28	2,043.77	1,788.25	255.52	7.999		
21,500.00	12,591.38	21,418.50	12,473.28	123.42	135.17	-86.69	-8,910.39	2,356.19	2,043.84	1,785.61	258.23	7.915		
21,600.00	12,592.26	21,518.50	12,473.80	124.77	136.53	-86.68	-9,010.38	2,357.10	2,043.91	1,782.96	260.95	7.833		
21,700.00	12,593.13	21,618.50	12,474.33	126.13	137.90	-86.67	-9,110.38	2,358.01	2,043.97	1,780.31	263.66	7.752		
21,800.00	12,594.00	21,718.50	12,474.85	127.49	139.26	-86.66	-9,210.37	2,358.91	2,044.04	1,777.66	266.38	7.673		
21,900.00	12,594.88	21,818.50	12,475.38	128.85	140.62	-86.65	-9,310.36	2,359.82	2,044.11	1,775.01	269.10	7.596		
22,000.00	12,595.75	21,918.50	12,475.90	130.21	141.99	-86.64	-9,410.36	2,360.73	2,044.18	1,772.37	271.81	7.521		
22,100.00	12,596.62	22,018.50	12,476.43	131.57	143.35	-86.63	-9,510.35	2,361.64	2,044.25	1,769.72	274.53	7.446		
22,200.00	12,597.50	22,118.50	12,476.95	132.93	144.72	-86.62	-9,610.35	2,362.55	2,044.32	1,767.07	277.25	7.374		
22,300.00	12,598.37	22,218.50	12,477.48	134.29	146.08	-86.61	-9,710.34	2,363.46	2,044.38	1,764.42	279.96	7.302		
22,400.00	12,599.24	22,318.50	12,478.00	135.65	147.44	-86.60	-9,810.33	2,364.37	2,044.45	1,761.77	282.68	7.232		
22,500.00	12,600.12	22,418.49	12,478.53	137.01	148.81	-86.59	-9,910.33	2,365.28	2,044.52	1,759.12	285.40	7.164		
22,600.00	12,600.99	22,518.49	12,479.05	138.37	150.17	-86.58	-10,010.32	2,366.19	2,044.59	1,756.47	288.12	7.096		
22,700.00	12,601.86	22,618.49	12,479.58	139.73	151.54	-86.57	-10,110.32	2,367.09	2,044.66	1,753.82	290.84	7.030		
22,796.26	12,602.70	22,714.75	12,480.08	141.04	152.85	-86.56	-10,206.57	2,367.97	2,044.72	1,751.27	293.45	6.968	ES, SF	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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 217H - OH - Plan 1

Offset Site Error: 0.00 usft

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:						Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)	
0.00	0.00	1.00	0.00	0.50	0.50	0.00	25.00	0.00	25.00					
100.00	100.00	101.00	100.00	0.98	0.99	0.00	25.00	0.00	25.00	23.03	1.97	12.706		
200.00	200.00	201.00	200.00	1.56	1.57	0.00	25.00	0.00	25.00	21.87	3.13	7.996		
300.00	300.00	301.00	300.00	1.98	1.98	0.00	25.00	0.00	25.00	21.03	3.97	6.304		
400.00	400.00	401.00	400.00	2.33	2.33	0.00	25.00	0.00	25.00	20.34	4.66	5.363		
500.00	500.00	501.00	500.00	2.63	2.64	0.00	25.00	0.00	25.00	19.73	5.27	4.742		
600.00	600.00	601.00	600.00	2.91	2.91	0.00	25.00	0.00	25.00	19.18	5.82	4.294		
700.00	700.00	701.00	700.00	3.16	3.17	0.00	25.00	0.00	25.00	18.67	6.33	3.949		
800.00	800.00	801.00	800.00	3.40	3.40	0.00	25.00	0.00	25.00	18.20	6.80	3.675		
900.00	900.00	901.00	900.00	3.62	3.63	0.00	25.00	0.00	25.00	17.75	7.25	3.449		
1,000.00	1,000.00	1,001.00	1,000.00	3.84	3.76	0.13	25.00	0.06	25.00	17.40	7.60	3.290		
1,060.64	1,060.64	1,061.64	1,060.64	3.96	3.91	2.00	24.97	0.87	24.98	17.15	7.84	3.189	CC	
1,100.00	1,100.00	1,100.99	1,099.97	4.04	4.00	4.39	24.93	1.91	25.01	17.02	7.99	3.130	ES	
1,200.00	1,200.00	1,200.80	1,199.68	4.23	4.24	14.43	24.78	6.38	25.59	17.21	8.37	3.056		
1,300.00	1,300.00	1,300.32	1,298.95	4.42	4.46	28.67	24.53	13.41	27.98	19.22	8.76	3.194		
1,400.00	1,400.00	1,399.90	1,398.14	4.60	4.60	42.32	24.23	22.07	32.82	23.72	9.10	3.606		
1,500.00	1,500.00	1,499.52	1,497.39	4.78	4.78	52.11	23.93	30.74	39.04	29.56	9.48	4.118		
1,600.00	1,600.00	1,599.14	1,596.63	4.95	4.96	59.07	23.62	39.42	46.08	36.24	9.84	4.681		
1,700.00	1,700.00	1,698.76	1,695.87	5.11	5.13	64.13	23.32	48.10	53.61	43.41	10.20	5.256		
1,800.00	1,800.00	1,798.37	1,795.11	5.28	5.31	67.93	23.02	56.77	61.46	50.91	10.55	5.826		
1,900.00	1,900.00	1,897.99	1,894.35	5.44	5.49	70.86	22.71	65.45	69.51	58.62	10.89	6.383		
2,000.00	2,000.00	1,997.61	1,993.59	5.59	5.67	73.18	22.41	74.13	77.71	66.48	11.23	6.921		
2,100.00	2,100.00	2,097.23	2,092.83	5.74	5.85	75.05	22.11	82.81	86.01	74.45	11.56	7.440		
2,200.00	2,200.00	2,196.85	2,192.07	5.89	6.03	76.59	21.81	91.48	94.38	82.48	11.90	7.933		
2,300.00	2,299.99	2,294.19	2,288.94	6.07	6.22	37.59	21.99	100.91	102.84	90.60	12.24	8.404		
2,400.00	2,399.91	2,391.11	2,385.16	6.24	6.42	39.28	23.27	112.49	111.76	99.18	12.58	8.887		
2,500.00	2,499.69	2,487.78	2,480.82	6.42	6.62	41.13	25.65	126.20	121.20	108.29	12.91	9.389		
2,600.00	2,599.27	2,584.17	2,575.84	6.59	6.82	43.07	29.12	142.01	131.22	117.98	13.24	9.913		
2,700.00	2,698.57	2,680.28	2,670.16	6.76	7.03	45.05	33.65	159.91	141.85	128.30	13.56	10.463		
2,800.00	2,797.62	2,776.08	2,763.69	6.85	7.23	46.98	39.24	179.85	153.55	139.74	13.81	11.121		
2,900.00	2,896.65	2,871.41	2,856.23	7.00	7.43	48.33	45.87	201.76	167.53	153.41	14.11	11.870		
3,000.00	2,995.68	2,969.05	2,950.56	7.15	7.62	49.24	53.45	225.77	183.22	168.78	14.44	12.685		
3,100.00	3,094.70	3,067.76	3,045.91	7.30	7.81	50.00	61.17	250.13	199.05	184.25	14.79	13.457		
3,200.00	3,193.73	3,166.47	3,141.25	7.46	8.00	50.65	68.88	274.48	214.90	199.75	15.14	14.191		
3,300.00	3,292.76	3,265.17	3,236.60	7.61	8.19	51.21	76.60	298.84	230.77	215.27	15.50	14.889		
3,400.00	3,391.78	3,363.88	3,331.94	7.77	8.41	51.70	84.31	323.20	246.67	230.81	15.86	15.552		
3,500.00	3,490.81	3,462.59	3,427.29	7.93	8.69	52.13	92.03	347.55	262.58	246.35	16.23	16.182		
3,600.00	3,589.84	3,561.30	3,522.63	8.09	8.97	52.51	99.74	371.91	278.50	261.90	16.60	16.782		
3,700.00	3,688.87	3,660.01	3,617.98	8.25	9.26	52.85	107.46	396.27	294.43	277.46	16.97	17.352		
3,800.00	3,787.89	3,758.72	3,713.32	8.42	9.55	53.15	115.17	420.62	310.37	293.03	17.34	17.894		
3,900.00	3,886.92	3,857.43	3,808.66	8.58	9.85	53.43	122.88	444.98	326.32	308.60	17.72	18.410		
4,000.00	3,985.95	3,956.13	3,904.01	8.75	10.15	53.68	130.60	469.34	342.28	324.17	18.11	18.902		
4,100.00	4,084.98	4,054.84	3,999.35	8.92	10.45	53.90	138.31	493.69	358.24	339.75	18.49	19.371		
4,200.00	4,184.00	4,153.55	4,094.70	9.09	10.75	54.11	146.03	518.05	374.21	355.32	18.88	19.818		
4,300.00	4,283.03	4,252.26	4,190.04	9.26	11.06	54.30	153.74	542.41	390.18	370.90	19.27	20.244		
4,400.00	4,382.06	4,350.97	4,285.39	9.43	11.37	54.48	161.46	566.76	406.15	386.48	19.67	20.651		
4,500.00	4,481.09	4,449.68	4,380.73	9.60	11.68	54.64	169.17	591.12	422.13	402.07	20.06	21.040		
4,600.00	4,580.11	4,548.38	4,476.08	9.77	11.99	54.79	176.88	615.48	438.11	417.65	20.46	21.412		
4,700.00	4,679.14	4,647.09	4,571.42	9.95	12.31	54.93	184.60	639.84	454.10	433.23	20.86	21.767		
4,800.00	4,778.17	4,745.80	4,666.77	10.12	12.63	55.06	192.31	664.19	470.08	448.82	21.26	22.107		
4,900.00	4,877.31	4,844.43	4,762.03	10.28	12.94	55.27	200.02	688.53	486.56	464.92	21.64	22.484		
5,000.00	4,976.75	4,942.79	4,857.04	10.47	13.26	55.28	207.71	712.80	504.49	482.45	22.03	22.896		

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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 217H - OH - Plan 1

Offset Site Error: 0.00 usft

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:				Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
5,100.00	5,076.44	5,040.81	4,951.72	10.65	13.58	55.09	215.37	736.99	523.89	501.48	22.41	23.374
5,200.00	5,176.30	5,138.43	5,046.01	10.82	13.90	54.72	223.00	761.07	544.81	522.04	22.78	23.920
5,300.00	5,276.26	5,235.57	5,139.84	10.98	14.22	54.20	230.59	785.04	567.29	544.17	23.12	24.533
5,400.00	5,376.26	5,332.24	5,233.22	11.05	14.54	93.91	238.15	808.90	591.21	567.81	23.40	25.265
5,500.00	5,476.26	5,435.51	5,333.04	11.15	14.87	92.98	246.14	834.15	615.27	591.54	23.74	25.922
5,600.00	5,576.26	5,550.53	5,444.88	11.24	15.22	92.11	254.24	859.70	637.23	613.10	24.13	26.409
5,700.00	5,676.26	5,667.11	5,559.02	11.33	15.54	91.40	261.40	882.31	656.47	631.97	24.51	26.788
5,800.00	5,776.26	5,785.08	5,675.20	11.43	15.82	90.83	267.57	901.80	672.92	648.05	24.86	27.063
5,900.00	5,876.26	5,904.22	5,793.12	11.52	16.08	90.38	272.70	918.00	686.49	661.28	25.20	27.238
6,000.00	5,976.26	6,024.33	5,912.47	11.61	16.29	90.04	276.75	930.78	697.12	671.60	25.52	27.320
6,100.00	6,076.26	6,145.17	6,032.92	11.71	16.46	89.80	279.67	940.02	704.77	678.97	25.81	27.310
6,200.00	6,176.26	6,266.50	6,154.10	11.80	16.60	89.66	281.45	945.63	709.41	683.35	26.07	27.216
6,300.00	6,276.26	6,388.08	6,275.66	11.89	16.70	89.61	282.07	947.58	711.02	684.77	26.25	27.089
6,400.00	6,376.26	6,488.68	6,376.26	11.99	16.76	89.61	282.07	947.58	711.02	684.62	26.39	26.938
6,500.00	6,476.26	6,588.68	6,476.26	12.08	16.82	89.61	282.07	947.58	711.02	684.47	26.55	26.785
6,600.00	6,576.26	6,688.68	6,576.26	12.17	16.87	89.61	282.07	947.58	711.02	684.32	26.70	26.633
6,700.00	6,676.26	6,788.68	6,676.26	12.26	16.93	89.61	282.07	947.58	711.02	684.17	26.85	26.483
6,800.00	6,776.26	6,888.68	6,776.26	12.35	16.99	89.61	282.07	947.58	711.02	684.02	27.00	26.335
6,900.00	6,876.26	6,988.68	6,876.26	12.45	17.05	89.61	282.07	947.58	711.02	683.87	27.15	26.188
7,000.00	6,976.26	7,088.68	6,976.26	12.54	17.11	89.61	282.07	947.58	711.02	683.71	27.30	26.043
7,100.00	7,076.26	7,188.68	7,076.26	12.63	17.17	89.61	282.07	947.58	711.02	683.56	27.45	25.899
7,200.00	7,176.26	7,288.68	7,176.26	12.72	17.22	89.61	282.07	947.58	711.02	683.41	27.60	25.757
7,300.00	7,276.26	7,388.68	7,276.26	12.81	17.28	89.61	282.07	947.58	711.02	683.26	27.76	25.616
7,400.00	7,376.26	7,488.68	7,376.26	12.90	17.34	89.61	282.07	947.58	711.02	683.11	27.91	25.477
7,500.00	7,476.26	7,588.68	7,476.26	13.00	17.40	89.61	282.07	947.58	711.02	682.96	28.06	25.339
7,600.00	7,576.26	7,688.68	7,576.26	13.09	17.46	89.61	282.07	947.58	711.02	682.80	28.21	25.203
7,700.00	7,676.26	7,788.68	7,676.26	13.18	17.52	89.61	282.07	947.58	711.02	682.65	28.36	25.068
7,800.00	7,776.26	7,888.68	7,776.26	13.27	17.58	89.61	282.07	947.58	711.02	682.50	28.52	24.934
7,900.00	7,876.26	7,988.68	7,876.26	13.36	17.64	89.61	282.07	947.58	711.02	682.35	28.67	24.802
8,000.00	7,976.26	8,088.68	7,976.26	13.45	17.70	89.61	282.07	947.58	711.02	682.20	28.82	24.671
8,100.00	8,076.26	8,188.68	8,076.26	13.54	17.76	89.61	282.07	947.58	711.02	682.04	28.97	24.542
8,200.00	8,176.26	8,288.68	8,176.26	13.63	17.83	89.61	282.07	947.58	711.02	681.89	29.12	24.414
8,300.00	8,276.26	8,388.68	8,276.26	13.72	17.89	89.61	282.07	947.58	711.02	681.74	29.28	24.287
8,400.00	8,376.26	8,488.68	8,376.26	13.81	17.95	89.61	282.07	947.58	711.02	681.59	29.43	24.161
8,500.00	8,476.26	8,588.68	8,476.26	13.90	18.01	89.61	282.07	947.58	711.02	681.44	29.58	24.037
8,600.00	8,576.26	8,688.68	8,576.26	13.99	18.07	89.61	282.07	947.58	711.02	681.28	29.73	23.913
8,700.00	8,676.26	8,788.68	8,676.26	14.08	18.13	89.61	282.07	947.58	711.02	681.13	29.89	23.791
8,800.00	8,776.26	8,888.68	8,776.26	14.17	18.19	89.61	282.07	947.58	711.02	680.98	30.04	23.670
8,900.00	8,876.26	8,988.68	8,876.26	14.26	18.26	89.61	282.07	947.58	711.02	680.83	30.19	23.551
9,000.00	8,976.26	9,088.68	8,976.26	14.35	18.32	89.61	282.07	947.58	711.02	680.67	30.34	23.432
9,100.00	9,076.26	9,188.68	9,076.26	14.44	18.38	89.61	282.07	947.58	711.02	680.52	30.50	23.315
9,200.00	9,176.26	9,288.68	9,176.26	14.53	18.44	89.61	282.07	947.58	711.02	680.37	30.65	23.199
9,300.00	9,276.26	9,388.68	9,276.26	14.62	18.50	89.61	282.07	947.58	711.02	680.21	30.80	23.083
9,400.00	9,376.26	9,488.68	9,376.26	14.71	18.57	89.61	282.07	947.58	711.02	680.06	30.96	22.969
9,500.00	9,476.26	9,588.68	9,476.26	14.80	18.63	89.61	282.07	947.58	711.02	679.91	31.11	22.856
9,600.00	9,576.26	9,688.68	9,576.26	14.89	18.69	89.61	282.07	947.58	711.02	679.76	31.26	22.744
9,700.00	9,676.26	9,788.68	9,676.26	14.97	18.76	89.61	282.07	947.58	711.02	679.60	31.41	22.633
9,800.00	9,776.26	9,888.68	9,776.26	15.06	18.82	89.61	282.07	947.58	711.02	679.45	31.57	22.524
9,900.00	9,876.26	9,988.68	9,876.26	15.15	18.88	89.61	282.07	947.58	711.02	679.30	31.72	22.415
10,000.00	9,976.26	10,088.68	9,976.26	15.24	18.95	89.61	282.07	947.58	711.02	679.14	31.87	22.307
10,100.00	10,076.26	10,188.68	10,076.26	15.33	19.01	89.61	282.07	947.58	711.02	678.99	32.03	22.200
10,200.00	10,176.26	10,288.68	10,176.26	15.42	19.07	89.61	282.07	947.58	711.02	678.84	32.18	22.094

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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 217H - OH - Plan 1

Offset Site Error: 0.00 usft

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)							Rule Assigned:				Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,300.00	10,276.26	10,388.68	10,276.26	15.51	19.14	89.61	282.07	947.58	711.02	678.68	32.33	21.989	
10,400.00	10,376.26	10,488.68	10,376.26	15.59	19.20	89.61	282.07	947.58	711.02	678.53	32.49	21.885	
10,500.00	10,476.26	10,588.68	10,476.26	15.68	19.27	89.61	282.07	947.58	711.02	678.37	32.64	21.782	
10,600.00	10,576.26	10,688.68	10,576.26	15.77	19.33	89.61	282.07	947.58	711.02	678.22	32.80	21.680	
10,700.00	10,676.26	10,788.68	10,676.26	15.86	19.40	89.61	282.07	947.58	711.02	678.07	32.95	21.579	
10,800.00	10,776.26	10,888.68	10,776.26	15.95	19.46	89.61	282.07	947.58	711.02	677.91	33.10	21.478	
10,900.00	10,876.26	10,988.68	10,876.26	16.04	19.52	89.61	282.07	947.58	711.02	677.76	33.26	21.379	
11,000.00	10,976.26	11,088.68	10,976.26	16.12	19.59	89.61	282.07	947.58	711.02	677.60	33.41	21.281	
11,100.00	11,076.26	11,188.68	11,076.26	16.21	19.65	89.61	282.07	947.58	711.02	677.45	33.57	21.183	
11,200.00	11,176.26	11,288.68	11,176.26	16.30	19.72	89.61	282.07	947.58	711.02	677.30	33.72	21.086	
11,300.00	11,276.26	11,388.68	11,276.26	16.39	19.79	89.61	282.07	947.58	711.02	677.14	33.87	20.990	
11,400.00	11,376.26	11,488.68	11,376.26	16.48	19.85	89.61	282.07	947.58	711.02	676.99	34.03	20.895	
11,500.00	11,476.26	11,588.68	11,476.26	16.56	19.92	89.61	282.07	947.58	711.02	676.83	34.18	20.800	
11,600.00	11,576.26	11,688.68	11,576.26	16.65	19.98	89.61	282.07	947.58	711.02	676.68	34.34	20.707	
11,700.00	11,676.26	11,788.68	11,676.26	16.74	20.05	89.61	282.07	947.58	711.02	676.52	34.49	20.614	
11,800.00	11,776.26	11,888.68	11,776.26	16.83	20.11	89.61	282.07	947.58	711.02	676.37	34.65	20.522	
11,900.00	11,876.26	11,988.68	11,876.26	16.91	20.18	89.61	282.07	947.58	711.02	676.22	34.80	20.431	
11,956.84	11,933.09	12,045.51	11,933.09	16.94	20.21	-89.97	282.07	947.58	711.02	676.16	34.85	20.400	
12,000.00	11,976.24	12,088.57	11,976.12	16.97	20.24	-89.86	280.66	947.59	711.02	676.15	34.87	20.392	
12,100.00	12,075.06	12,188.16	12,074.36	17.02	20.30	-89.77	265.11	947.73	711.02	676.28	34.75	20.464	
12,200.00	12,169.87	12,287.56	12,168.25	17.06	20.34	-89.68	232.89	948.00	711.03	676.48	34.54	20.585	
12,300.00	12,257.78	12,386.78	12,255.03	17.11	20.38	-89.60	185.04	948.42	711.03	676.74	34.29	20.733	
12,400.00	12,336.13	12,485.85	12,332.16	17.16	20.43	-89.54	123.05	948.95	711.04	676.98	34.06	20.877	
12,500.00	12,402.54	12,584.80	12,397.39	17.22	20.51	-89.49	48.82	949.59	711.04	677.14	33.90	20.975	
12,600.00	12,454.98	12,683.65	12,448.86	17.28	20.64	-89.45	-35.43	950.31	711.05	677.16	33.89	20.984	
12,700.00	12,491.87	12,782.45	12,485.09	17.37	20.84	-89.43	-127.21	951.10	711.05	676.98	34.07	20.873	
12,800.00	12,512.08	12,881.22	12,505.02	17.49	21.12	-89.43	-223.82	951.94	711.05	676.58	34.47	20.628	
12,895.24	12,518.28	12,975.62	12,509.22	17.66	21.46	-89.27	-318.06	952.75	711.07	676.01	35.07	20.278	
12,900.00	12,516.27	12,980.46	12,509.26	17.67	21.48	-89.44	-322.90	952.79	711.05	675.96	35.09	20.262	
13,000.00	12,517.14	13,080.46	12,510.13	17.92	21.91	-89.44	-422.89	953.65	711.05	675.11	35.94	19.783	
13,100.00	12,518.02	13,180.46	12,511.01	18.29	22.42	-89.44	-522.88	954.51	711.05	674.08	36.97	19.231	
13,200.00	12,518.89	13,280.46	12,511.88	18.77	22.98	-89.44	-622.88	955.37	711.05	672.88	38.18	18.626	
13,300.00	12,519.76	13,380.46	12,512.75	19.37	23.60	-89.44	-722.87	956.23	711.05	671.52	39.53	17.987	
13,400.00	12,520.64	13,480.46	12,513.63	20.06	24.28	-89.44	-822.86	957.10	711.05	670.03	41.03	17.332	
13,500.00	12,521.51	13,580.46	12,514.50	20.83	25.00	-89.44	-922.85	957.96	711.05	668.41	42.64	16.674	
13,600.00	12,522.38	13,680.46	12,515.37	21.67	25.78	-89.44	-1,022.85	958.82	711.05	666.68	44.37	16.025	
13,700.00	12,523.26	13,780.46	12,516.25	22.56	26.60	-89.44	-1,122.84	959.68	711.05	664.85	46.20	15.392	
13,800.00	12,524.13	13,880.46	12,517.12	23.51	27.46	-89.44	-1,222.83	960.54	711.05	662.94	48.11	14.780	
13,900.00	12,525.00	13,980.46	12,518.00	24.50	28.35	-89.44	-1,322.82	961.40	711.05	660.95	50.10	14.193	
14,000.00	12,525.88	14,080.46	12,518.87	25.53	29.28	-89.44	-1,422.82	962.26	711.05	658.89	52.16	13.633	
14,100.00	12,526.75	14,180.46	12,519.74	26.59	30.25	-89.44	-1,522.81	963.12	711.05	656.78	54.28	13.101	
14,200.00	12,527.62	14,280.46	12,520.62	27.67	31.24	-89.44	-1,622.80	963.99	711.05	654.61	56.45	12.597	
14,300.00	12,528.50	14,380.46	12,521.49	28.79	32.26	-89.44	-1,722.79	964.85	711.05	652.39	58.67	12.120	
14,400.00	12,529.37	14,480.46	12,522.36	29.92	33.30	-89.44	-1,822.79	965.71	711.05	650.13	60.93	11.670	
14,500.00	12,530.24	14,580.46	12,523.24	31.07	34.37	-89.44	-1,922.78	966.57	711.05	647.83	63.23	11.246	
14,600.00	12,531.12	14,680.46	12,524.11	32.25	35.45	-89.44	-2,022.77	967.43	711.05	645.49	65.56	10.846	
14,700.00	12,531.99	14,780.46	12,524.98	33.43	36.56	-89.44	-2,122.76	968.29	711.05	643.13	67.92	10.469	
14,800.00	12,532.87	14,880.46	12,525.86	34.63	37.68	-89.44	-2,222.76	969.15	711.05	640.74	70.31	10.113	
14,900.00	12,533.74	14,980.46	12,526.73	35.85	38.82	-89.44	-2,322.75	970.01	711.05	638.33	72.73	9.777	
15,000.00	12,534.61	15,080.46	12,527.61	37.07	39.97	-89.44	-2,422.74	970.87	711.05	635.89	75.17	9.460	
15,100.00	12,535.49	15,180.46	12,528.48	38.30	41.14	-89.44	-2,522.73	971.74	711.05	633.43	77.62	9.160	
15,200.00	12,536.36	15,280.46	12,529.35	39.55	42.31	-89.44	-2,622.73	972.60	711.05	630.96	80.10	8.877	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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 217H - OH - Plan 1

Offset Site Error: 0.00 usft

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)							Rule Assigned:				Offset Well Error:		0.50 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre			Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
15,300.00	12,537.23	15,380.46	12,530.23	40.80	43.50	-89.44	-2,722.72	973.46	711.06	628.46	82.59	8.609		
15,400.00	12,538.11	15,480.46	12,531.10	42.06	44.70	-89.44	-2,822.71	974.32	711.06	625.96	85.10	8.356		
15,500.00	12,538.98	15,580.46	12,531.97	43.32	45.91	-89.44	-2,922.70	975.18	711.06	623.44	87.62	8.115		
15,600.00	12,539.85	15,680.46	12,532.85	44.59	47.13	-89.44	-3,022.70	976.04	711.06	620.90	90.15	7.887		
15,700.00	12,540.73	15,780.46	12,533.72	45.87	48.35	-89.44	-3,122.69	976.90	711.06	618.36	92.70	7.670		
15,800.00	12,541.60	15,880.46	12,534.59	47.16	49.59	-89.44	-3,222.68	977.76	711.06	615.80	95.26	7.465		
15,900.00	12,542.47	15,980.46	12,535.47	48.44	50.83	-89.44	-3,322.67	978.62	711.06	613.23	97.82	7.269		
16,000.00	12,543.35	16,080.46	12,536.34	49.73	52.07	-89.44	-3,422.67	979.49	711.06	610.66	100.40	7.082		
16,100.00	12,544.22	16,180.46	12,537.21	51.03	53.32	-89.44	-3,522.66	980.35	711.06	608.07	102.98	6.905		
16,200.00	12,545.09	16,280.46	12,538.09	52.33	54.58	-89.44	-3,622.65	981.21	711.06	605.48	105.57	6.735		
16,300.00	12,545.97	16,380.46	12,538.96	53.63	55.85	-89.44	-3,722.64	982.07	711.06	602.88	108.17	6.573		
16,400.00	12,546.84	16,480.46	12,539.84	54.94	57.11	-89.44	-3,822.64	982.93	711.06	600.28	110.78	6.419		
16,500.00	12,547.71	16,580.46	12,540.71	56.25	58.39	-89.44	-3,922.63	983.79	711.06	597.67	113.39	6.271		
16,600.00	12,548.59	16,680.46	12,541.58	57.56	59.66	-89.44	-4,022.62	984.65	711.06	595.05	116.01	6.129		
16,700.00	12,549.46	16,780.46	12,542.46	58.88	60.94	-89.44	-4,122.61	985.51	711.06	592.42	118.63	5.994		
16,800.00	12,550.33	16,880.46	12,543.33	60.20	62.23	-89.44	-4,222.61	986.38	711.06	589.80	121.26	5.864		
16,900.00	12,551.21	16,980.46	12,544.20	61.52	63.52	-89.44	-4,322.60	987.24	711.06	587.16	123.90	5.739		
17,000.00	12,552.08	17,080.46	12,545.08	62.84	64.81	-89.44	-4,422.59	988.10	711.06	584.52	126.53	5.620		
17,100.00	12,552.95	17,180.46	12,545.95	64.16	66.10	-89.44	-4,522.58	988.96	711.06	581.88	129.18	5.505		
17,200.00	12,553.83	17,280.46	12,546.82	65.49	67.40	-89.44	-4,622.58	989.82	711.06	579.24	131.82	5.394		
17,300.00	12,554.70	17,380.46	12,547.70	66.82	68.70	-89.44	-4,722.57	990.68	711.06	576.59	134.47	5.288		
17,400.00	12,555.57	17,480.46	12,548.57	68.14	70.01	-89.44	-4,822.56	991.54	711.06	573.93	137.13	5.185		
17,500.00	12,556.45	17,580.46	12,549.44	69.48	71.31	-89.44	-4,922.55	992.40	711.06	571.28	139.78	5.087		
17,600.00	12,557.32	17,680.46	12,550.32	70.81	72.62	-89.44	-5,022.55	993.26	711.06	568.62	142.44	4.992		
17,700.00	12,558.19	17,780.46	12,551.19	72.14	73.93	-89.44	-5,122.54	994.13	711.06	565.95	145.11	4.900		
17,800.00	12,559.07	17,880.46	12,552.07	73.48	75.24	-89.44	-5,222.53	994.99	711.06	563.29	147.77	4.812		
17,900.00	12,559.94	17,980.46	12,552.94	74.81	76.56	-89.44	-5,322.52	995.85	711.06	560.62	150.44	4.727		
18,000.00	12,560.81	18,080.46	12,553.81	76.15	77.87	-89.44	-5,422.52	996.71	711.06	557.95	153.11	4.644		
18,100.00	12,561.69	18,180.46	12,554.69	77.49	79.19	-89.44	-5,522.51	997.57	711.06	555.28	155.78	4.564		
18,200.00	12,562.56	18,280.46	12,555.56	78.83	80.51	-89.44	-5,622.50	998.43	711.06	552.60	158.46	4.487		
18,300.00	12,563.43	18,380.46	12,556.43	80.17	81.83	-89.44	-5,722.49	999.29	711.06	549.92	161.14	4.413		
18,400.00	12,564.31	18,480.46	12,557.31	81.51	83.16	-89.44	-5,822.49	1,000.15	711.06	547.24	163.82	4.341		
18,500.00	12,565.18	18,580.46	12,558.18	82.86	84.48	-89.44	-5,922.48	1,001.01	711.06	544.56	166.50	4.271		
18,600.00	12,566.05	18,680.46	12,559.05	84.20	85.81	-89.44	-6,022.47	1,001.88	711.06	541.88	169.18	4.203		
18,700.00	12,566.93	18,780.46	12,559.93	85.54	87.14	-89.44	-6,122.46	1,002.74	711.06	539.19	171.87	4.137		
18,800.00	12,567.80	18,880.46	12,560.80	86.89	88.46	-89.44	-6,222.45	1,003.60	711.06	536.51	174.55	4.074		
18,900.00	12,568.67	18,980.46	12,561.68	88.24	89.79	-89.44	-6,322.45	1,004.46	711.06	533.82	177.24	4.012		
19,000.00	12,569.55	19,080.46	12,562.55	89.58	91.13	-89.44	-6,422.44	1,005.32	711.06	531.13	179.93	3.952		
19,100.00	12,570.42	19,180.46	12,563.42	90.93	92.46	-89.44	-6,522.43	1,006.18	711.06	528.44	182.62	3.894		
19,200.00	12,571.29	19,280.46	12,564.30	92.28	93.79	-89.44	-6,622.42	1,007.04	711.06	525.75	185.32	3.837		
19,300.00	12,572.17	19,380.46	12,565.17	93.63	95.13	-89.44	-6,722.42	1,007.90	711.06	523.05	188.01	3.782		
19,400.00	12,573.04	19,480.46	12,566.04	94.98	96.46	-89.44	-6,822.41	1,008.77	711.06	520.36	190.71	3.729		
19,500.00	12,573.91	19,580.46	12,566.92	96.33	97.80	-89.44	-6,922.40	1,009.63	711.06	517.66	193.40	3.677		
19,600.00	12,574.79	19,680.46	12,567.79	97.68	99.13	-89.44	-7,022.39	1,010.49	711.06	514.96	196.10	3.626		
19,700.00	12,575.66	19,780.46	12,568.66	99.03	100.47	-89.44	-7,122.39	1,011.35	711.06	512.26	198.80	3.577		
19,800.00	12,576.54	19,880.46	12,569.54	100.38	101.81	-89.44	-7,222.38	1,012.21	711.06	509.56	201.50	3.529		
19,900.00	12,577.41	19,980.46	12,570.41	101.73	103.15	-89.44	-7,322.37	1,013.07	711.06	506.86	204.20	3.482		
20,000.00	12,578.28	20,080.46	12,571.28	103.08	104.49	-89.44	-7,422.36	1,013.93	711.06	504.16	206.90	3.437		
20,100.00	12,579.16	20,180.46	12,572.16	104.44	105.83	-89.44	-7,522.36	1,014.79	711.06	501.46	209.61	3.392		
20,200.00	12,580.03	20,280.46	12,573.03	105.79	107.18	-89.44	-7,622.35	1,015.65	711.06	498.75	212.31	3.349		
20,300.00	12,580.90	20,380.46	12,573.91	107.14	108.52	-89.44	-7,722.34	1,016.52	711.06	496.05	215.02	3.307		
20,400.00	12,581.78	20,480.46	12,574.78	108.50	109.86	-89.44	-7,822.33	1,017.38	711.06	493.34	217.72	3.266		

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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 217H - OH - Plan 1

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)													Offset Site Error: 0.00 usft	
Reference Offset Semi Major Axis													Offset Well Error: 0.50 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
20,500.00	12,582.65	20,580.46	12,575.65	109.85	111.21	-89.44	-7,922.33	1,018.24	711.06	490.64	220.43	3.226		
20,600.00	12,583.52	20,680.46	12,576.53	111.21	112.55	-89.44	-8,022.32	1,019.10	711.06	487.93	223.14	3.187		
20,700.00	12,584.40	20,780.46	12,577.40	112.56	113.90	-89.44	-8,122.31	1,019.96	711.06	485.22	225.85	3.148		
20,800.00	12,585.27	20,880.46	12,578.27	113.92	115.24	-89.44	-8,222.30	1,020.82	711.06	482.51	228.55	3.111		
20,900.00	12,586.14	20,980.46	12,579.15	115.27	116.59	-89.44	-8,322.30	1,021.68	711.06	479.80	231.26	3.075		
21,000.00	12,587.02	21,080.46	12,580.02	116.63	117.94	-89.44	-8,422.29	1,022.54	711.07	477.09	233.97	3.039		
21,100.00	12,587.89	21,180.46	12,580.89	117.99	119.28	-89.44	-8,522.28	1,023.40	711.07	474.38	236.69	3.004		
21,200.00	12,588.76	21,280.46	12,581.77	119.34	120.63	-89.44	-8,622.27	1,024.27	711.07	471.67	239.40	2.970		
21,300.00	12,589.64	21,380.46	12,582.64	120.70	121.98	-89.44	-8,722.27	1,025.13	711.07	468.96	242.11	2.937		
21,400.00	12,590.51	21,480.46	12,583.52	122.06	123.33	-89.44	-8,822.26	1,025.99	711.07	466.24	244.82	2.904		
21,500.00	12,591.38	21,580.46	12,584.39	123.42	124.68	-89.44	-8,922.25	1,026.85	711.07	463.53	247.54	2.873		
21,600.00	12,592.26	21,680.46	12,585.26	124.77	126.03	-89.44	-9,022.24	1,027.71	711.07	460.82	250.25	2.841		
21,700.00	12,593.13	21,780.46	12,586.14	126.13	127.38	-89.44	-9,122.24	1,028.57	711.07	458.10	252.97	2.811		
21,800.00	12,594.00	21,880.46	12,587.01	127.49	128.73	-89.44	-9,222.23	1,029.43	711.07	455.39	255.68	2.781		
21,900.00	12,594.88	21,980.46	12,587.88	128.85	130.08	-89.44	-9,322.22	1,030.29	711.07	452.67	258.40	2.752		
22,000.00	12,595.75	22,080.46	12,588.76	130.21	131.43	-89.44	-9,422.21	1,031.16	711.07	449.95	261.11	2.723		
22,100.00	12,596.62	22,180.46	12,589.63	131.57	132.78	-89.44	-9,522.21	1,032.02	711.07	447.24	263.83	2.695		
22,200.00	12,597.50	22,280.46	12,590.50	132.93	134.14	-89.44	-9,622.20	1,032.88	711.07	444.52	266.55	2.668		
22,300.00	12,598.37	22,380.46	12,591.38	134.29	135.49	-89.44	-9,722.19	1,033.74	711.07	441.80	269.26	2.641		
22,400.00	12,599.24	22,480.46	12,592.25	135.65	136.84	-89.44	-9,822.18	1,034.60	711.07	439.09	271.98	2.614		
22,500.00	12,600.12	22,580.46	12,593.12	137.01	138.19	-89.44	-9,922.18	1,035.46	711.07	436.37	274.70	2.589		
22,600.00	12,600.99	22,680.46	12,594.00	138.37	139.55	-89.44	-10,022.17	1,036.32	711.07	433.65	277.42	2.563		
22,700.00	12,601.86	22,780.46	12,594.87	139.73	140.90	-89.44	-10,122.16	1,037.18	711.07	430.93	280.14	2.538		
22,710.23	12,601.95	22,790.68	12,594.96	139.87	141.04	-89.44	-10,132.39	1,037.27	711.07	430.65	280.42	2.536		
22,796.26	12,602.70	22,875.30	12,595.70	141.04	142.19	-89.44	-10,217.00	1,038.00	711.07	428.31	282.76	2.515	SF	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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 218H - OH - Plan 1

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:		0.00 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Offset Well Error:		0.50 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.50	0.50	74.03	671.00	2,344.00	2,438.15					
100.00	100.00	100.00	100.00	0.98	0.98	74.03	671.00	2,344.00	2,438.15	2,436.19	1.96	1,242.570		
200.00	200.00	200.00	200.00	1.56	1.56	74.03	671.00	2,344.00	2,438.15	2,435.03	3.12	780.895		
300.00	300.00	300.00	300.00	1.98	1.98	74.03	671.00	2,344.00	2,438.15	2,434.19	3.96	615.334	CC, ES	
400.00	400.00	365.17	365.17	2.33	2.26	74.03	670.84	2,344.53	2,438.86	2,434.29	4.58	533.074		
500.00	500.00	430.30	430.28	2.63	2.52	74.05	670.34	2,346.12	2,441.01	2,435.88	5.12	476.532		
600.00	600.00	500.00	499.91	2.91	2.78	74.09	669.45	2,349.00	2,444.58	2,438.95	5.64	433.648		
700.00	700.00	560.31	560.11	3.16	2.97	74.14	668.38	2,352.47	2,449.57	2,443.50	6.08	403.031		
800.00	800.00	625.10	624.71	3.40	3.18	74.20	666.91	2,357.21	2,456.00	2,449.49	6.51	377.281		
900.00	900.00	700.00	699.27	3.62	3.42	74.29	664.81	2,363.99	2,463.88	2,456.93	6.95	354.530		
1,000.00	1,000.00	754.09	753.02	3.84	3.57	74.37	663.03	2,369.75	2,473.12	2,465.82	7.31	338.491		
1,100.00	1,100.00	818.22	816.63	4.04	3.73	74.47	660.62	2,377.53	2,483.82	2,476.17	7.65	324.814		
1,200.00	1,200.00	908.95	906.49	4.23	3.86	74.63	656.90	2,389.56	2,495.53	2,487.55	7.98	312.814		
1,300.00	1,300.00	1,007.98	1,004.55	4.42	4.09	74.80	652.82	2,402.73	2,507.30	2,498.91	8.40	298.532	SF	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)														Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Reference (usft)	Major Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	1.00	0.00	0.50	0.50	180.00	-210.00	0.00	210.00	210.00					
100.00	100.00	101.00	100.00	0.98	0.99	180.00	-210.00	0.00	210.00	208.03	1.97	106.726			
200.00	200.00	201.00	200.00	1.56	1.57	180.00	-210.00	0.00	210.00	206.87	3.13	67.170			
300.00	300.00	301.00	300.00	1.98	1.98	180.00	-210.00	0.00	210.00	206.03	3.97	52.953			
400.00	400.00	401.00	400.00	2.33	2.33	180.00	-210.00	0.00	210.00	205.34	4.66	45.046			
500.00	500.00	501.00	500.00	2.63	2.64	180.00	-210.00	0.00	210.00	204.73	5.27	39.835			
600.00	600.00	601.00	600.00	2.91	2.91	180.00	-210.00	0.00	210.00	204.18	5.82	36.066			
700.00	700.00	701.04	700.04	3.16	3.17	-180.00	-210.00	0.00	210.00	203.67	6.33	33.173			
800.00	800.00	805.41	804.40	3.40	3.47	-179.74	-208.89	-0.93	208.93	202.09	6.85	30.514			
900.00	900.00	909.63	908.52	3.62	3.76	-178.97	-205.59	-3.70	205.80	198.48	7.33	28.083			
1,000.00	1,000.00	1,013.53	1,012.18	3.84	4.01	-177.63	-200.15	-8.27	200.69	192.93	7.76	25.861			
1,100.00	1,100.00	1,113.92	1,112.19	4.04	4.14	-175.90	-193.49	-13.86	194.36	186.28	8.09	24.032			
1,200.00	1,200.00	1,213.54	1,211.43	4.23	4.35	-174.06	-186.83	-19.44	188.19	179.71	8.48	22.186			
1,300.00	1,300.00	1,313.16	1,310.67	4.42	4.55	-172.09	-180.18	-25.02	182.22	173.36	8.87	20.555			
1,400.00	1,400.00	1,412.78	1,409.91	4.60	4.75	-170.00	-173.53	-30.60	176.49	167.25	9.24	19.105			
1,500.00	1,500.00	1,512.40	1,509.15	4.78	4.95	-167.77	-166.88	-36.18	171.00	161.40	9.60	17.812			
1,600.00	1,600.00	1,612.02	1,608.39	4.95	5.14	-165.39	-160.23	-41.76	165.80	155.84	9.95	16.656			
1,700.00	1,700.00	1,711.63	1,707.63	5.11	5.34	-162.87	-153.58	-47.34	160.89	150.59	10.30	15.621			
1,800.00	1,800.00	1,811.25	1,806.87	5.28	5.53	-160.19	-146.93	-52.92	156.32	145.68	10.64	14.696			
1,900.00	1,900.00	1,910.87	1,906.11	5.44	5.72	-157.36	-140.28	-58.51	152.11	141.14	10.97	13.870			
2,000.00	2,000.00	2,010.49	2,005.35	5.59	5.92	-154.38	-133.63	-64.09	148.29	137.00	11.29	13.135			
2,100.00	2,100.00	2,110.11	2,104.59	5.74	6.11	-151.25	-126.97	-69.67	144.90	133.30	11.61	12.484			
2,200.00	2,200.00	2,209.70	2,203.80	5.89	6.30	-147.98	-120.32	-75.25	141.97	130.04	11.93	11.903			
2,270.64	2,270.63	2,279.45	2,273.23	6.01	6.44	174.22	-115.41	-79.83	141.01	128.85	12.16	11.600	CC, ES		
2,300.00	2,299.99	2,308.37	2,301.98	6.07	6.50	175.50	-113.24	-82.08	141.18	128.92	12.26	11.519			
2,400.00	2,399.91	2,406.43	2,399.28	6.24	6.71	-179.59	-105.32	-91.22	144.57	131.98	12.59	11.483			
2,500.00	2,499.69	2,503.60	2,495.39	6.42	6.92	-174.21	-96.60	-102.58	152.68	139.75	12.93	11.808			
2,600.00	2,599.27	2,600.00	2,590.36	6.59	7.13	-168.82	-87.10	-116.11	165.87	152.59	13.28	12.493			
2,700.00	2,698.57	2,694.35	2,682.89	6.76	7.34	-163.86	-76.99	-131.52	184.25	170.63	13.62	13.526			
2,800.00	2,797.62	2,790.75	2,777.18	6.85	7.52	-159.65	-66.23	-148.43	206.46	192.56	13.91	14.847			
2,900.00	2,896.65	2,887.21	2,871.54	7.00	7.72	-156.28	-55.47	-165.35	229.66	215.41	14.25	16.118			
3,000.00	2,995.68	2,983.67	2,965.89	7.15	7.91	-153.54	-44.70	-182.28	253.49	238.89	14.60	17.366			
3,100.00	3,094.70	3,080.13	3,060.24	7.30	8.11	-151.26	-33.93	-199.20	277.77	262.82	14.95	18.582			
3,200.00	3,193.73	3,176.59	3,154.59	7.46	8.31	-149.35	-23.17	-216.12	302.40	287.10	15.30	19.761			
3,300.00	3,292.76	3,273.05	3,248.94	7.61	8.51	-147.73	-12.40	-233.04	327.31	311.64	15.66	20.900			
3,400.00	3,391.78	3,369.51	3,343.30	7.77	8.71	-146.33	-1.64	-249.96	352.42	336.40	16.02	21.998			
3,500.00	3,490.81	3,465.97	3,437.65	7.93	8.92	-145.12	9.13	-266.88	377.71	361.33	16.38	23.054			
3,600.00	3,589.84	3,562.43	3,532.00	8.09	9.14	-144.06	19.90	-283.80	403.14	386.39	16.75	24.069			
3,700.00	3,688.87	3,658.89	3,626.35	8.25	9.35	-143.13	30.66	-300.72	428.68	411.56	17.12	25.044			
3,800.00	3,787.89	3,755.35	3,720.71	8.42	9.58	-142.30	41.43	-317.64	454.31	436.83	17.49	25.980			
3,900.00	3,886.92	3,851.81	3,815.06	8.58	9.80	-141.56	52.20	-334.56	480.03	462.17	17.86	26.879			
4,000.00	3,985.95	3,948.27	3,909.41	8.75	10.04	-140.89	62.96	-351.48	505.81	487.58	18.23	27.742			
4,100.00	4,084.98	4,044.73	4,003.76	8.92	10.27	-140.29	73.73	-368.40	531.65	513.05	18.61	28.572			
4,200.00	4,184.00	4,141.19	4,098.12	9.09	10.51	-139.75	84.50	-385.32	557.54	538.56	18.98	29.368			
4,300.00	4,283.03	4,237.65	4,192.47	9.26	10.75	-139.25	95.26	-402.24	583.48	564.11	19.36	30.133			
4,400.00	4,382.06	4,334.11	4,286.82	9.43	10.99	-138.80	106.03	-419.16	609.45	589.70	19.74	30.867			
4,500.00	4,481.09	4,430.58	4,381.17	9.60	11.24	-138.38	116.80	-436.09	635.45	615.33	20.13	31.574			
4,600.00	4,580.11	4,527.04	4,475.52	9.77	11.49	-137.99	127.56	-453.01	661.49	640.98	20.51	32.253			
4,700.00	4,679.14	4,623.50	4,569.88	9.95	11.74	-137.64	138.33	-469.93	687.54	666.65	20.89	32.906			
4,800.00	4,778.17	4,719.96	4,664.23	10.12	11.99	-137.31	149.10	-486.85	713.63	692.35	21.28	33.535			
4,900.00	4,877.31	4,816.55	4,758.72	10.28	12.24	-137.17	159.88	-503.79	739.11	717.47	21.64	34.150			
5,000.00	4,976.75	4,913.52	4,853.56	10.47	12.50	-136.96	170.70	-520.80	762.81	740.78	22.03	34.629			

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Well Error:	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,076.44	5,010.80	4,948.72	10.65	12.75	-136.61	181.56	-537.87	784.70	762.30	22.40	35.027	
5,200.00	5,176.30	5,108.32	5,044.11	10.82	13.01	-136.16	192.44	-554.97	804.82	782.06	22.77	35.352	
5,300.00	5,276.26	5,206.02	5,139.67	10.98	13.27	-135.59	203.35	-572.11	823.22	800.10	23.11	35.616	
5,400.00	5,376.26	5,303.82	5,235.34	11.05	13.53	-94.36	214.27	-589.27	840.15	816.76	23.38	35.928	
5,500.00	5,476.26	5,401.64	5,331.02	11.15	13.79	-93.53	225.18	-606.43	857.01	833.32	23.69	36.179	
5,600.00	5,576.26	5,520.03	5,447.13	11.24	14.08	-92.63	237.57	-625.90	872.99	848.93	24.06	36.282	
5,700.00	5,676.26	5,641.84	5,567.28	11.33	14.36	-91.88	248.31	-642.76	886.54	862.11	24.44	36.279	
5,800.00	5,776.26	5,764.83	5,689.18	11.43	14.61	-91.29	257.05	-656.50	897.55	872.76	24.79	36.207	
5,900.00	5,876.26	5,888.75	5,812.47	11.52	14.82	-90.86	263.72	-666.99	905.92	880.81	25.12	36.069	
6,000.00	5,976.26	6,013.35	5,936.78	11.61	14.99	-90.56	268.26	-674.13	911.61	886.20	25.41	35.872	
6,100.00	6,076.26	6,138.38	6,061.72	11.71	15.13	-90.41	270.63	-677.85	914.57	888.90	25.67	35.625	
6,200.00	6,176.26	6,252.91	6,176.26	11.80	15.21	-90.39	271.00	-678.43	915.03	889.17	25.86	35.382	
6,300.00	6,276.26	6,352.91	6,276.26	11.89	15.28	-90.39	271.00	-678.43	915.03	889.01	26.02	35.169	
6,400.00	6,376.26	6,452.91	6,376.26	11.99	15.35	-90.39	271.00	-678.43	915.03	888.85	26.18	34.954	
6,500.00	6,476.26	6,552.91	6,476.26	12.08	15.42	-90.39	271.00	-678.43	915.03	888.69	26.34	34.742	
6,600.00	6,576.26	6,652.91	6,576.26	12.17	15.49	-90.39	271.00	-678.43	915.03	888.53	26.50	34.532	
6,700.00	6,676.26	6,752.91	6,676.26	12.26	15.56	-90.39	271.00	-678.43	915.03	888.37	26.66	34.324	
6,800.00	6,776.26	6,852.91	6,776.26	12.35	15.63	-90.39	271.00	-678.43	915.03	888.21	26.82	34.120	
6,900.00	6,876.26	6,952.91	6,876.26	12.45	15.70	-90.39	271.00	-678.43	915.03	888.05	26.98	33.917	
7,000.00	6,976.26	7,052.91	6,976.26	12.54	15.77	-90.39	271.00	-678.43	915.03	887.89	27.14	33.717	
7,100.00	7,076.26	7,152.91	7,076.26	12.63	15.84	-90.39	271.00	-678.43	915.03	887.73	27.30	33.519	
7,200.00	7,176.26	7,252.91	7,176.26	12.72	15.91	-90.39	271.00	-678.43	915.03	887.57	27.46	33.324	
7,300.00	7,276.26	7,352.91	7,276.26	12.81	15.98	-90.39	271.00	-678.43	915.03	887.41	27.62	33.131	
7,400.00	7,376.26	7,452.91	7,376.26	12.90	16.05	-90.39	271.00	-678.43	915.03	887.25	27.78	32.940	
7,500.00	7,476.26	7,552.91	7,476.26	13.00	16.12	-90.39	271.00	-678.43	915.03	887.09	27.94	32.752	
7,600.00	7,576.26	7,652.91	7,576.26	13.09	16.19	-90.39	271.00	-678.43	915.03	886.93	28.10	32.565	
7,700.00	7,676.26	7,752.91	7,676.26	13.18	16.26	-90.39	271.00	-678.43	915.03	886.77	28.26	32.381	
7,800.00	7,776.26	7,852.91	7,776.26	13.27	16.34	-90.39	271.00	-678.43	915.03	886.61	28.42	32.198	
7,900.00	7,876.26	7,952.91	7,876.26	13.36	16.41	-90.39	271.00	-678.43	915.03	886.45	28.58	32.018	
8,000.00	7,976.26	8,052.91	7,976.26	13.45	16.48	-90.39	271.00	-678.43	915.03	886.29	28.74	31.840	
8,100.00	8,076.26	8,152.91	8,076.26	13.54	16.55	-90.39	271.00	-678.43	915.03	886.13	28.90	31.664	
8,200.00	8,176.26	8,252.91	8,176.26	13.63	16.62	-90.39	271.00	-678.43	915.03	885.97	29.06	31.489	
8,300.00	8,276.26	8,352.91	8,276.26	13.72	16.69	-90.39	271.00	-678.43	915.03	885.81	29.22	31.317	
8,400.00	8,376.26	8,452.91	8,376.26	13.81	16.77	-90.39	271.00	-678.43	915.03	885.65	29.38	31.146	
8,500.00	8,476.26	8,552.91	8,476.26	13.90	16.84	-90.39	271.00	-678.43	915.03	885.49	29.54	30.978	
8,600.00	8,576.26	8,652.91	8,576.26	13.99	16.91	-90.39	271.00	-678.43	915.03	885.33	29.70	30.811	
8,700.00	8,676.26	8,752.91	8,676.26	14.08	16.98	-90.39	271.00	-678.43	915.03	885.17	29.86	30.645	
8,800.00	8,776.26	8,852.91	8,776.26	14.17	17.05	-90.39	271.00	-678.43	915.03	885.01	30.02	30.482	
8,900.00	8,876.26	8,952.91	8,876.26	14.26	17.13	-90.39	271.00	-678.43	915.03	884.85	30.18	30.320	
9,000.00	8,976.26	9,052.91	8,976.26	14.35	17.20	-90.39	271.00	-678.43	915.03	884.69	30.34	30.161	
9,100.00	9,076.26	9,152.91	9,076.26	14.44	17.27	-90.39	271.00	-678.43	915.03	884.53	30.50	30.002	
9,200.00	9,176.26	9,252.91	9,176.26	14.53	17.34	-90.39	271.00	-678.43	915.03	884.37	30.66	29.846	
9,300.00	9,276.26	9,352.91	9,276.26	14.62	17.41	-90.39	271.00	-678.43	915.03	884.21	30.82	29.691	
9,400.00	9,376.26	9,452.91	9,376.26	14.71	17.49	-90.39	271.00	-678.43	915.03	884.05	30.98	29.537	
9,500.00	9,476.26	9,552.91	9,476.26	14.80	17.56	-90.39	271.00	-678.43	915.03	883.89	31.14	29.385	
9,600.00	9,576.26	9,652.91	9,576.26	14.89	17.63	-90.39	271.00	-678.43	915.03	883.73	31.30	29.235	
9,700.00	9,676.26	9,752.91	9,676.26	14.97	17.71	-90.39	271.00	-678.43	915.03	883.57	31.46	29.086	
9,800.00	9,776.26	9,852.91	9,776.26	15.06	17.78	-90.39	271.00	-678.43	915.03	883.41	31.62	28.939	
9,900.00	9,876.26	9,952.91	9,876.26	15.15	17.85	-90.39	271.00	-678.43	915.03	883.25	31.78	28.793	
10,000.00	9,976.26	10,052.91	9,976.26	15.24	17.93	-90.39	271.00	-678.43	915.03	883.09	31.94	28.649	
10,100.00	10,076.26	10,152.91	10,076.26	15.33	18.00	-90.39	271.00	-678.43	915.03	882.93	32.10	28.506	
10,200.00	10,176.26	10,252.91	10,176.26	15.42	18.07	-90.39	271.00	-678.43	915.03	882.77	32.26	28.364	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance		Offset Well Error:		0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Major Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,276.26	10,352.91	10,276.26	15.51	18.14	-90.39	271.00	-678.43	915.03	882.61	32.42	28.224	
10,400.00	10,376.26	10,452.91	10,376.26	15.59	18.22	-90.39	271.00	-678.43	915.03	882.45	32.58	28.085	
10,500.00	10,476.26	10,552.91	10,476.26	15.68	18.29	-90.39	271.00	-678.43	915.03	882.29	32.74	27.948	
10,600.00	10,576.26	10,652.91	10,576.26	15.77	18.37	-90.39	271.00	-678.43	915.03	882.13	32.90	27.812	
10,700.00	10,676.26	10,752.91	10,676.26	15.86	18.44	-90.39	271.00	-678.43	915.03	881.97	33.06	27.677	
10,800.00	10,776.26	10,852.91	10,776.26	15.95	18.51	-90.39	271.00	-678.43	915.03	881.81	33.22	27.544	
10,900.00	10,876.26	10,952.91	10,876.26	16.04	18.59	-90.39	271.00	-678.43	915.03	881.65	33.38	27.412	
11,000.00	10,976.26	11,052.91	10,976.26	16.12	18.66	-90.39	271.00	-678.43	915.03	881.49	33.54	27.281	
11,100.00	11,076.26	11,152.91	11,076.26	16.21	18.73	-90.39	271.00	-678.43	915.03	881.33	33.70	27.151	
11,200.00	11,176.26	11,252.91	11,176.26	16.30	18.81	-90.39	271.00	-678.43	915.03	881.17	33.86	27.022	
11,300.00	11,276.26	11,352.91	11,276.26	16.39	18.88	-90.39	271.00	-678.43	915.03	881.01	34.02	26.895	
11,400.00	11,376.26	11,452.91	11,376.26	16.48	18.96	-90.39	271.00	-678.43	915.03	880.85	34.18	26.769	
11,500.00	11,476.26	11,552.91	11,476.26	16.56	19.03	-90.39	271.00	-678.43	915.03	880.69	34.34	26.644	
11,600.00	11,576.26	11,652.91	11,576.26	16.65	19.10	-90.39	271.00	-678.43	915.03	880.53	34.50	26.520	
11,700.00	11,676.26	11,752.91	11,676.26	16.74	19.18	-90.39	271.00	-678.43	915.03	880.37	34.66	26.397	
11,800.00	11,776.26	11,852.91	11,776.26	16.83	19.25	-90.39	271.00	-678.43	915.03	880.21	34.82	26.276	
11,900.00	11,876.26	11,952.91	11,876.26	16.91	19.33	-90.39	271.00	-678.43	915.03	880.05	34.98	26.155	
11,900.01	11,876.27	11,952.92	11,876.27	16.91	19.33	-90.39	271.00	-678.43	915.03	880.05	34.98	26.155	
12,000.00	11,976.24	12,052.89	11,976.24	16.97	19.40	90.16	271.00	-678.43	915.03	879.93	35.10	26.067	
12,100.00	12,075.06	12,151.72	12,075.06	17.02	19.47	91.04	271.00	-678.43	915.19	880.10	35.09	26.079	
12,200.00	12,169.87	12,246.52	12,169.87	17.06	19.55	92.79	271.00	-678.43	916.31	881.29	35.02	26.164	
12,300.00	12,257.78	12,334.44	12,257.78	17.11	19.60	95.00	271.00	-678.43	920.04	885.13	34.90	26.359	
12,400.00	12,336.13	12,419.17	12,342.39	17.16	19.65	97.27	267.72	-678.75	928.35	893.62	34.73	26.731	
12,500.00	12,402.54	12,512.95	12,434.40	17.22	19.68	99.41	250.18	-680.43	941.84	907.31	34.54	27.270	
12,600.00	12,454.98	12,620.13	12,534.39	17.28	19.70	101.48	212.20	-684.09	960.11	925.63	34.48	27.844	
12,700.00	12,491.87	12,747.51	12,641.46	17.37	19.73	103.60	143.99	-690.66	982.08	947.32	34.76	28.253	
12,800.00	12,512.08	12,905.23	12,748.95	17.49	19.82	105.81	29.78	-701.66	1,005.79	970.21	35.58	28.268	
12,900.00	12,516.27	13,105.57	12,833.89	17.67	20.09	108.41	-149.71	-718.94	1,027.64	990.78	36.85	27.883	
13,000.00	12,517.14	13,309.83	12,854.44	17.92	20.60	109.04	-351.30	-737.78	1,039.74	1,002.06	37.68	27.596	
13,100.00	12,518.02	13,462.09	12,855.77	18.29	21.11	108.88	-503.35	-745.30	1,045.23	1,006.76	38.47	27.171	
13,200.00	12,518.89	13,593.24	12,856.92	18.77	21.61	108.85	-634.49	-745.60	1,046.11	1,006.72	39.39	26.557	
13,300.00	12,519.76	13,693.24	12,857.80	19.37	22.05	108.85	-734.48	-744.74	1,046.12	1,005.72	40.39	25.900	
13,400.00	12,520.64	13,793.24	12,858.68	20.06	22.55	108.85	-834.47	-743.88	1,046.12	1,004.59	41.53	25.191	
13,500.00	12,521.51	13,893.24	12,859.55	20.83	23.11	108.85	-934.47	-743.01	1,046.12	1,003.33	42.79	24.447	
13,600.00	12,522.38	13,993.24	12,860.43	21.67	23.73	108.85	-1,034.46	-742.15	1,046.12	1,001.95	44.17	23.681	
13,700.00	12,523.26	14,093.24	12,861.31	22.56	24.40	108.85	-1,134.45	-741.29	1,046.12	1,000.46	45.66	22.909	
13,800.00	12,524.13	14,193.24	12,862.19	23.51	25.13	108.85	-1,234.44	-740.43	1,046.13	998.88	47.25	22.140	
13,900.00	12,525.00	14,293.24	12,863.07	24.50	25.91	108.85	-1,334.44	-739.57	1,046.13	997.20	48.92	21.383	
14,000.00	12,525.88	14,393.24	12,863.94	25.53	26.74	108.85	-1,434.43	-738.71	1,046.13	995.45	50.68	20.643	
14,100.00	12,526.75	14,493.24	12,864.82	26.59	27.61	108.86	-1,534.42	-737.85	1,046.13	993.63	52.50	19.926	
14,200.00	12,527.62	14,593.24	12,865.70	27.67	28.52	108.86	-1,634.41	-736.99	1,046.13	991.74	54.39	19.234	
14,300.00	12,528.50	14,693.24	12,866.58	28.79	29.47	108.86	-1,734.41	-736.13	1,046.14	989.80	56.33	18.570	
14,400.00	12,529.37	14,793.24	12,867.46	29.92	30.46	108.86	-1,834.40	-735.27	1,046.14	987.81	58.33	17.934	
14,500.00	12,530.24	14,893.24	12,868.33	31.07	31.47	108.86	-1,934.39	-734.41	1,046.14	985.76	60.38	17.327	
14,600.00	12,531.12	14,993.24	12,869.21	32.25	32.51	108.86	-2,034.38	-733.55	1,046.14	983.68	62.46	16.748	
14,700.00	12,531.99	15,093.24	12,870.09	33.43	33.57	108.86	-2,134.38	-732.69	1,046.14	981.56	64.59	16.197	
14,800.00	12,532.87	15,193.24	12,870.97	34.63	34.66	108.86	-2,234.37	-731.83	1,046.15	979.40	66.75	15.673	
14,900.00	12,533.74	15,293.24	12,871.84	35.85	35.77	108.86	-2,334.36	-730.97	1,046.15	977.21	68.94	15.175	
15,000.00	12,534.61	15,393.24	12,872.72	37.07	36.89	108.86	-2,434.35	-730.11	1,046.15	974.99	71.16	14.702	
15,100.00	12,535.49	15,493.24	12,873.60	38.30	38.04	108.86	-2,534.34	-729.25	1,046.15	972.75	73.40	14.253	
15,200.00	12,536.36	15,593.24	12,874.48	39.55	39.19	108.86	-2,634.34	-728.39	1,046.15	970.49	75.67	13.825	
15,300.00	12,537.23	15,693.24	12,875.36	40.80	40.37	108.86	-2,734.33	-727.53	1,046.16	968.20	77.96	13.419	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: Reference		0-MWD+HRGM+SAG+FDIR (rev.5) Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Offset Well Error:		0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,400.00	12,538.11	15,793.24	12,876.23	42.06	41.55	108.86	-2,834.32	-726.67	1,046.16	965.89	80.27	13.033	
15,500.00	12,538.98	15,893.24	12,877.11	43.32	42.75	108.86	-2,934.31	-725.81	1,046.16	963.57	82.59	12.666	
15,600.00	12,539.85	15,993.24	12,877.99	44.59	43.95	108.86	-3,034.31	-724.95	1,046.16	961.22	84.94	12.317	
15,700.00	12,540.73	16,093.24	12,878.87	45.87	45.17	108.86	-3,134.30	-724.09	1,046.16	958.87	87.30	11.984	
15,800.00	12,541.60	16,193.24	12,879.75	47.16	46.39	108.86	-3,234.29	-723.23	1,046.17	956.50	89.67	11.667	
15,900.00	12,542.47	16,293.24	12,880.62	48.44	47.63	108.86	-3,334.28	-722.37	1,046.17	954.11	92.05	11.365	
16,000.00	12,543.35	16,393.24	12,881.50	49.73	48.87	108.86	-3,434.28	-721.51	1,046.17	951.72	94.45	11.076	
16,100.00	12,544.22	16,493.24	12,882.38	51.03	50.12	108.86	-3,534.27	-720.65	1,046.17	949.31	96.86	10.801	
16,200.00	12,545.09	16,593.24	12,883.26	52.33	51.37	108.86	-3,634.26	-719.79	1,046.17	946.90	99.28	10.538	
16,300.00	12,545.97	16,693.24	12,884.14	53.63	52.63	108.86	-3,734.25	-718.93	1,046.18	944.47	101.71	10.286	
16,400.00	12,546.84	16,793.24	12,885.01	54.94	53.90	108.86	-3,834.25	-718.06	1,046.18	942.03	104.14	10.046	
16,500.00	12,547.71	16,893.24	12,885.89	56.25	55.17	108.86	-3,934.24	-717.20	1,046.18	939.59	106.59	9.815	
16,600.00	12,548.59	16,993.24	12,886.77	57.56	56.44	108.86	-4,034.23	-716.34	1,046.18	937.14	109.04	9.594	
16,700.00	12,549.46	17,093.24	12,887.65	58.88	57.72	108.86	-4,134.22	-715.48	1,046.18	934.68	111.50	9.383	
16,800.00	12,550.33	17,193.24	12,888.52	60.20	59.01	108.86	-4,234.22	-714.62	1,046.19	932.22	113.97	9.180	
16,900.00	12,551.21	17,293.24	12,889.40	61.52	60.29	108.86	-4,334.21	-713.76	1,046.19	929.75	116.44	8.985	
17,000.00	12,552.08	17,393.24	12,890.28	62.84	61.58	108.86	-4,434.20	-712.90	1,046.19	927.27	118.92	8.798	
17,100.00	12,552.95	17,493.24	12,891.16	64.16	62.88	108.86	-4,534.19	-712.04	1,046.19	924.79	121.40	8.618	
17,200.00	12,553.83	17,593.24	12,892.04	65.49	64.18	108.86	-4,634.19	-711.18	1,046.19	922.30	123.89	8.444	
17,300.00	12,554.70	17,693.24	12,892.91	66.82	65.48	108.86	-4,734.18	-710.32	1,046.20	919.81	126.39	8.278	
17,400.00	12,555.57	17,793.24	12,893.79	68.14	66.78	108.86	-4,834.17	-709.46	1,046.20	917.31	128.89	8.117	
17,500.00	12,556.45	17,893.24	12,894.67	69.48	68.09	108.86	-4,934.16	-708.60	1,046.20	914.81	131.39	7.963	
17,600.00	12,557.32	17,993.24	12,895.55	70.81	69.40	108.86	-5,034.16	-707.74	1,046.20	912.31	133.90	7.814	
17,700.00	12,558.19	18,093.24	12,896.43	72.14	70.71	108.86	-5,134.15	-706.88	1,046.20	909.80	136.41	7.670	
17,800.00	12,559.07	18,193.24	12,897.30	73.48	72.02	108.86	-5,234.14	-706.02	1,046.21	907.29	138.92	7.531	
17,900.00	12,559.94	18,293.24	12,898.18	74.81	73.34	108.86	-5,334.13	-705.16	1,046.21	904.77	141.44	7.397	
18,000.00	12,560.81	18,393.24	12,899.06	76.15	74.66	108.86	-5,434.13	-704.30	1,046.21	902.25	143.96	7.267	
18,100.00	12,561.69	18,493.24	12,899.94	77.49	75.98	108.86	-5,534.12	-703.44	1,046.21	899.73	146.48	7.142	
18,200.00	12,562.56	18,593.24	12,900.82	78.83	77.30	108.86	-5,634.11	-702.58	1,046.22	897.20	149.01	7.021	
18,300.00	12,563.43	18,693.24	12,901.69	80.17	78.62	108.86	-5,734.10	-701.72	1,046.22	894.68	151.54	6.904	
18,400.00	12,564.31	18,793.24	12,902.57	81.51	79.95	108.86	-5,834.10	-700.86	1,046.22	892.14	154.07	6.790	
18,500.00	12,565.18	18,893.24	12,903.45	82.86	81.27	108.86	-5,934.09	-700.00	1,046.22	889.61	156.61	6.680	
18,600.00	12,566.05	18,993.24	12,904.33	84.20	82.60	108.87	-6,034.08	-699.14	1,046.22	887.08	159.15	6.574	
18,700.00	12,566.93	19,093.24	12,905.20	85.54	83.93	108.87	-6,134.07	-698.28	1,046.23	884.54	161.69	6.471	
18,800.00	12,567.80	19,193.24	12,906.08	86.89	85.26	108.87	-6,234.07	-697.42	1,046.23	882.00	164.23	6.371	
18,900.00	12,568.67	19,293.24	12,906.96	88.24	86.59	108.87	-6,334.06	-696.56	1,046.23	879.46	166.77	6.273	
19,000.00	12,569.55	19,393.24	12,907.84	89.58	87.92	108.87	-6,434.05	-695.70	1,046.23	876.91	169.32	6.179	
19,100.00	12,570.42	19,493.24	12,908.72	90.93	89.26	108.87	-6,534.04	-694.84	1,046.23	874.37	171.87	6.087	
19,200.00	12,571.29	19,593.24	12,909.59	92.28	90.59	108.87	-6,634.04	-693.97	1,046.24	871.82	174.42	5.998	
19,300.00	12,572.17	19,693.24	12,910.47	93.63	91.93	108.87	-6,734.03	-693.11	1,046.24	869.27	176.97	5.912	
19,400.00	12,573.04	19,793.24	12,911.35	94.98	93.27	108.87	-6,834.02	-692.25	1,046.24	866.72	179.52	5.828	
19,500.00	12,573.91	19,893.24	12,912.23	96.33	94.61	108.87	-6,934.01	-691.39	1,046.24	864.16	182.08	5.746	
19,600.00	12,574.79	19,993.24	12,913.11	97.68	95.94	108.87	-7,034.00	-690.53	1,046.24	861.61	184.63	5.667	
19,700.00	12,575.66	20,093.24	12,913.98	99.03	97.28	108.87	-7,134.00	-689.67	1,046.25	859.05	187.19	5.589	
19,800.00	12,576.54	20,193.24	12,914.86	100.38	98.62	108.87	-7,233.99	-688.81	1,046.25	856.50	189.75	5.514	
19,900.00	12,577.41	20,293.24	12,915.74	101.73	99.97	108.87	-7,333.98	-687.95	1,046.25	853.94	192.31	5.440	
20,000.00	12,578.28	20,393.24	12,916.62	103.08	101.31	108.87	-7,433.97	-687.09	1,046.25	851.38	194.87	5.369	
20,100.00	12,579.16	20,493.24	12,917.50	104.44	102.65	108.87	-7,533.97	-686.23	1,046.25	848.82	197.44	5.299	
20,200.00	12,580.03	20,593.24	12,918.37	105.79	104.00	108.87	-7,633.96	-685.37	1,046.26	846.26	200.00	5.231	
20,300.00	12,580.90	20,693.24	12,919.25	107.14	105.34	108.87	-7,733.95	-684.51	1,046.26	843.69	202.57	5.165	
20,400.00	12,581.78	20,793.24	12,920.13	108.50	106.68	108.87	-7,833.94	-683.65	1,046.26	841.13	205.13	5.100	
20,500.00	12,582.65	20,893.24	12,921.01	109.85	108.03	108.87	-7,933.94	-682.79	1,046.26	838.56	207.70	5.037	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)											
Reference											
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Semi Major Axis Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Distance Between Centres	Rule Assigned: Between Ellipses	Minimum Separation
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)
20,600.00	12,583.52	20,993.24	12,921.88	111.21	109.38	108.87	-8,033.93	-681.93	1,046.26	835.99	210.27
20,700.00	12,584.40	21,093.24	12,922.76	112.56	110.72	108.87	-8,133.92	-681.07	1,046.27	833.43	212.84
20,800.00	12,585.27	21,193.24	12,923.64	113.92	112.07	108.87	-8,233.91	-680.21	1,046.27	830.86	215.41
20,900.00	12,586.14	21,293.24	12,924.52	115.27	113.42	108.87	-8,333.91	-679.35	1,046.27	828.29	217.98
21,000.00	12,587.02	21,393.24	12,925.40	116.63	114.77	108.87	-8,433.90	-678.49	1,046.27	825.72	220.55
21,100.00	12,587.89	21,493.24	12,926.27	117.99	116.12	108.87	-8,533.89	-677.63	1,046.27	823.15	223.13
21,200.00	12,588.76	21,593.24	12,927.15	119.34	117.47	108.87	-8,633.88	-676.77	1,046.28	820.58	225.70
21,300.00	12,589.64	21,693.24	12,928.03	120.70	118.82	108.87	-8,733.88	-675.91	1,046.28	818.00	228.28
21,400.00	12,590.51	21,793.24	12,928.91	122.06	120.17	108.87	-8,833.87	-675.05	1,046.28	815.43	230.85
21,500.00	12,591.38	21,893.24	12,929.79	123.42	121.52	108.87	-8,933.86	-674.19	1,046.28	812.86	233.43
21,600.00	12,592.26	21,993.24	12,930.66	124.77	122.87	108.87	-9,033.85	-673.33	1,046.28	810.28	236.00
21,700.00	12,593.13	22,093.24	12,931.54	126.13	124.22	108.87	-9,133.85	-672.47	1,046.29	807.70	238.58
21,800.00	12,594.00	22,193.24	12,932.42	127.49	125.57	108.87	-9,233.84	-671.61	1,046.29	805.13	241.16
21,900.00	12,594.88	22,293.24	12,933.30	128.85	126.92	108.87	-9,333.83	-670.75	1,046.29	802.55	243.74
22,000.00	12,595.75	22,393.24	12,934.18	130.21	128.28	108.87	-9,433.82	-669.88	1,046.29	799.97	246.32
22,100.00	12,596.62	22,493.24	12,935.05	131.57	129.63	108.87	-9,533.82	-669.02	1,046.29	797.39	248.90
22,200.00	12,597.50	22,593.24	12,935.93	132.93	130.98	108.87	-9,633.81	-668.16	1,046.30	794.82	251.48
22,300.00	12,598.37	22,693.24	12,936.81	134.29	132.34	108.87	-9,733.80	-667.30	1,046.30	792.24	254.06
22,400.00	12,599.24	22,793.24	12,937.69	135.65	133.69	108.87	-9,833.79	-666.44	1,046.30	789.66	256.64
22,500.00	12,600.12	22,893.24	12,938.56	137.01	135.05	108.87	-9,933.79	-665.58	1,046.30	787.08	259.23
22,600.00	12,600.99	22,993.24	12,939.44	138.37	136.40	108.87	-10,033.78	-664.72	1,046.30	784.49	261.81
22,700.00	12,601.86	23,093.24	12,940.32	139.73	137.76	108.87	-10,133.77	-663.86	1,046.31	781.91	264.39
22,796.26	12,602.70	23,189.50	12,941.17	141.04	138.95	108.87	-10,230.03	-663.03	1,046.31	779.56	266.75
											SF

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:					Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)
0.00	0.00	0.00	0.00	0.50	0.50	180.00	-25.00	0.00	25.00				
100.00	100.00	100.00	100.00	0.98	0.98	180.00	-25.00	0.00	25.00	23.04	1.96	12.741	
200.00	200.00	200.00	200.00	1.56	1.56	180.00	-25.00	0.00	25.00	21.88	3.12	8.007	
300.00	300.00	300.00	300.00	1.98	1.98	180.00	-25.00	0.00	25.00	21.04	3.96	6.309	
400.00	400.00	400.00	400.00	2.33	2.33	180.00	-25.00	0.00	25.00	20.34	4.66	5.366	
500.00	500.00	500.00	500.00	2.63	2.63	180.00	-25.00	0.00	25.00	19.73	5.27	4.745	
600.00	600.00	600.00	600.00	2.91	2.91	180.00	-25.00	0.00	25.00	19.18	5.82	4.295	
700.00	700.00	700.00	700.00	3.16	3.16	180.00	-25.00	0.00	25.00	18.67	6.33	3.951	
800.00	800.00	800.00	800.00	3.40	3.40	180.00	-25.00	0.00	25.00	18.20	6.80	3.676	
900.00	900.00	900.00	900.00	3.62	3.62	180.00	-25.00	0.00	25.00	17.75	7.25	3.449	
1,000.00	1,000.00	1,000.00	1,000.00	3.84	3.84	180.00	-25.00	0.00	25.00	17.33	7.67	3.259	
1,100.00	1,100.00	1,100.00	1,100.00	4.04	4.04	180.00	-25.00	0.00	25.00	16.92	8.08	3.095	
1,200.00	1,200.00	1,200.00	1,200.00	4.23	4.23	180.00	-25.00	0.00	25.00	16.53	8.47	2.953	
1,300.00	1,300.00	1,300.00	1,300.00	4.42	4.42	180.00	-25.00	0.00	25.00	16.16	8.84	2.828	
1,400.00	1,400.00	1,400.00	1,400.00	4.60	4.60	180.00	-25.00	0.00	25.00	15.80	9.20	2.717	
1,500.00	1,500.00	1,500.00	1,500.00	4.78	4.78	180.00	-25.00	0.00	25.00	15.45	9.55	2.617	
1,600.00	1,600.00	1,600.06	1,600.05	4.95	4.98	177.00	-24.84	1.30	24.87	14.99	9.89	2.516	
1,652.53	1,652.53	1,652.57	1,652.53	5.03	5.08	173.00	-24.63	3.02	24.81	14.76	10.05	2.468	
1,700.00	1,700.00	1,700.00	1,699.91	5.11	5.17	167.96	-24.36	5.20	24.91	14.71	10.20	2.441	
1,800.00	1,800.00	1,799.62	1,799.32	5.28	5.36	153.68	-23.57	11.66	26.30	15.78	10.53	2.499	
1,900.00	1,900.00	1,899.17	1,898.49	5.44	5.44	138.23	-22.53	20.12	30.24	19.46	10.78	2.805	
2,000.00	2,000.00	1,998.79	1,997.73	5.59	5.59	126.76	-21.47	28.74	35.95	24.84	11.10	3.237	
2,100.00	2,100.00	2,098.41	2,096.97	5.74	5.75	118.65	-20.41	37.36	42.68	31.26	11.42	3.736	
2,200.00	2,200.00	2,198.02	2,196.21	5.89	5.90	112.83	-19.35	45.97	50.03	38.29	11.74	4.262	
2,300.00	2,299.99	2,296.99	2,294.71	6.07	6.07	68.15	-17.53	55.43	57.88	45.83	12.05	4.804	
2,400.00	2,399.91	2,395.73	2,392.72	6.24	6.26	65.14	-14.06	66.79	66.30	53.94	12.36	5.365	
2,500.00	2,499.69	2,494.26	2,490.22	6.42	6.44	62.97	-8.94	80.04	75.17	62.51	12.67	5.934	
2,600.00	2,599.27	2,592.58	2,587.14	6.59	6.63	61.41	-2.19	95.15	84.43	71.45	12.98	6.506	
2,700.00	2,698.57	2,690.71	2,683.42	6.76	6.82	60.28	6.17	112.11	94.03	80.73	13.29	7.073	
2,800.00	2,797.62	2,790.06	2,780.61	6.85	6.99	59.72	15.65	130.44	103.61	90.06	13.55	7.646	
2,900.00	2,896.65	2,889.60	2,877.98	7.00	7.16	59.34	25.15	148.82	113.14	99.26	13.87	8.154	
3,000.00	2,995.68	2,989.15	2,975.35	7.15	7.33	59.02	34.66	167.20	122.67	108.46	14.20	8.636	
3,100.00	3,094.70	3,088.69	3,072.72	7.30	7.51	58.74	44.16	185.58	132.20	117.66	14.54	9.093	
3,200.00	3,193.73	3,188.23	3,170.09	7.46	7.68	58.50	53.67	203.95	141.74	126.86	14.88	9.526	
3,300.00	3,292.76	3,287.77	3,267.46	7.61	7.86	58.30	63.17	222.33	151.28	136.05	15.22	9.938	
3,400.00	3,391.78	3,387.32	3,364.82	7.77	8.04	58.11	72.67	240.71	160.82	145.25	15.57	10.328	
3,500.00	3,490.81	3,486.86	3,462.19	7.93	8.26	57.95	82.18	259.09	170.36	154.44	15.92	10.700	
3,600.00	3,589.84	3,586.40	3,559.56	8.09	8.49	57.81	91.68	277.47	179.90	163.62	16.28	11.052	
3,700.00	3,688.87	3,685.95	3,656.93	8.25	8.72	57.67	101.19	295.84	189.45	172.81	16.64	11.387	
3,800.00	3,787.89	3,785.49	3,754.30	8.42	8.95	57.56	110.69	314.22	198.99	181.99	17.00	11.706	
3,900.00	3,886.92	3,885.03	3,851.67	8.58	9.19	57.45	120.20	332.60	208.54	191.17	17.36	12.010	
4,000.00	3,985.95	3,984.57	3,949.04	8.75	9.43	57.35	129.70	350.98	218.08	200.35	17.73	12.299	
4,100.00	4,084.98	4,084.12	4,046.41	8.92	9.67	57.26	139.21	369.35	227.63	209.53	18.10	12.574	
4,200.00	4,184.00	4,183.66	4,143.77	9.09	9.91	57.18	148.71	387.73	237.18	218.70	18.48	12.837	
4,300.00	4,283.03	4,283.20	4,241.14	9.26	10.16	57.10	158.22	406.11	246.72	227.87	18.85	13.088	
4,400.00	4,382.06	4,382.74	4,338.51	9.43	10.41	57.03	167.72	424.49	256.27	237.04	19.23	13.328	
4,500.00	4,481.09	4,482.29	4,435.88	9.60	10.66	56.97	177.22	442.87	265.82	246.21	19.61	13.557	
4,600.00	4,580.11	4,581.83	4,533.25	9.77	10.91	56.91	186.73	461.24	275.37	255.38	19.99	13.776	
4,700.00	4,679.14	4,681.37	4,630.62	9.95	11.16	56.85	196.23	479.62	284.92	264.55	20.37	13.986	
4,800.00	4,778.17	4,780.91	4,727.99	10.12	11.41	56.80	205.74	498.00	294.47	273.71	20.76	14.186	
4,900.00	4,877.31	4,880.40	4,825.30	10.28	11.67	56.71	215.24	516.37	304.49	283.38	21.12	14.420	
5,000.00	4,976.75	4,979.70	4,922.43	10.47	11.92	56.29	224.72	534.70	315.94	294.45	21.49	14.701	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)							Rule Assigned:				Offset Well Error: 0.50 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Reference (usft)	Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,076.44	5,078.72	5,019.29	10.65	12.18	55.55	234.17	552.98	328.88	307.03	21.85	15.050	
5,200.00	5,176.30	5,179.08	5,117.47	10.82	12.41	54.52	243.73	571.46	343.35	321.17	22.18	15.479	
5,300.00	5,276.26	5,286.10	5,222.57	10.98	12.67	53.32	253.00	589.37	357.88	335.34	22.55	15.871	
5,400.00	5,376.26	5,393.73	5,328.79	11.05	12.90	92.53	260.95	604.75	371.57	348.73	22.84	16.265	
5,500.00	5,476.26	5,502.21	5,436.31	11.15	13.12	91.45	267.57	617.55	383.18	360.03	23.16	16.547	
5,600.00	5,576.26	5,611.43	5,544.93	11.24	13.30	90.65	272.82	627.70	392.39	368.94	23.45	16.732	
5,700.00	5,676.26	5,721.23	5,654.40	11.33	13.46	90.08	276.65	635.11	399.13	375.40	23.73	16.822	
5,800.00	5,776.26	5,831.41	5,764.45	11.43	13.59	89.74	279.04	639.74	403.33	379.36	23.98	16.821	
5,900.00	5,876.26	5,941.80	5,874.82	11.52	13.68	89.61	279.98	641.54	404.98	380.80	24.18	16.750	
6,000.00	5,976.26	6,043.23	5,976.26	11.61	13.74	89.61	279.99	641.57	405.00	380.68	24.32	16.651	
6,100.00	6,076.26	6,143.23	6,076.26	11.71	13.81	89.61	279.99	641.57	405.00	380.51	24.49	16.539	
6,200.00	6,176.26	6,243.23	6,176.26	11.80	13.88	89.61	279.99	641.57	405.00	380.35	24.65	16.429	
6,300.00	6,276.26	6,343.23	6,276.26	11.89	13.96	89.61	279.99	641.57	405.00	380.18	24.82	16.320	
6,400.00	6,376.26	6,443.23	6,376.26	11.99	14.03	89.61	279.99	641.57	405.00	380.02	24.98	16.212	
6,500.00	6,476.26	6,543.23	6,476.26	12.08	14.10	89.61	279.99	641.57	405.00	379.85	25.15	16.106	
6,600.00	6,576.26	6,643.23	6,576.26	12.17	14.18	89.61	279.99	641.57	405.00	379.69	25.31	16.002	
6,700.00	6,676.26	6,743.23	6,676.26	12.26	14.25	89.61	279.99	641.57	405.00	379.53	25.47	15.899	
6,800.00	6,776.26	6,843.23	6,776.26	12.35	14.32	89.61	279.99	641.57	405.00	379.36	25.64	15.797	
6,900.00	6,876.26	6,943.23	6,876.26	12.45	14.40	89.61	279.99	641.57	405.00	379.20	25.80	15.696	
7,000.00	6,976.26	7,043.23	6,976.26	12.54	14.47	89.61	279.99	641.57	405.00	379.03	25.97	15.597	
7,100.00	7,076.26	7,143.23	7,076.26	12.63	14.54	89.61	279.99	641.57	405.00	378.87	26.13	15.499	
7,200.00	7,176.26	7,243.23	7,176.26	12.72	14.62	89.61	279.99	641.57	405.00	378.70	26.29	15.402	
7,300.00	7,276.26	7,343.23	7,276.26	12.81	14.69	89.61	279.99	641.57	405.00	378.54	26.46	15.307	
7,400.00	7,376.26	7,443.23	7,376.26	12.90	14.77	89.61	279.99	641.57	405.00	378.38	26.62	15.212	
7,500.00	7,476.26	7,543.23	7,476.26	13.00	14.84	89.61	279.99	641.57	405.00	378.21	26.79	15.119	
7,600.00	7,576.26	7,643.23	7,576.26	13.09	14.92	89.61	279.99	641.57	405.00	378.05	26.95	15.027	
7,700.00	7,676.26	7,743.23	7,676.26	13.18	14.99	89.61	279.99	641.57	405.00	377.88	27.11	14.936	
7,800.00	7,776.26	7,843.23	7,776.26	13.27	15.06	89.61	279.99	641.57	405.00	377.72	27.28	14.847	
7,900.00	7,876.26	7,943.23	7,876.26	13.36	15.14	89.61	279.99	641.57	405.00	377.56	27.44	14.758	
8,000.00	7,976.26	8,043.23	7,976.26	13.45	15.21	89.61	279.99	641.57	405.00	377.39	27.61	14.670	
8,100.00	8,076.26	8,143.23	8,076.26	13.54	15.29	89.61	279.99	641.57	405.00	377.23	27.77	14.584	
8,200.00	8,176.26	8,243.23	8,176.26	13.63	15.36	89.61	279.99	641.57	405.00	377.07	27.93	14.498	
8,300.00	8,276.26	8,343.23	8,276.26	13.72	15.44	89.61	279.99	641.57	405.00	376.90	28.10	14.414	
8,400.00	8,376.26	8,443.23	8,376.26	13.81	15.51	89.61	279.99	641.57	405.00	376.74	28.26	14.330	
8,500.00	8,476.26	8,543.23	8,476.26	13.90	15.59	89.61	279.99	641.57	405.00	376.57	28.43	14.248	
8,600.00	8,576.26	8,643.23	8,576.26	13.99	15.66	89.61	279.99	641.57	405.00	376.41	28.59	14.166	
8,700.00	8,676.26	8,743.23	8,676.26	14.08	15.74	89.61	279.99	641.57	405.00	376.25	28.75	14.086	
8,800.00	8,776.26	8,843.23	8,776.26	14.17	15.81	89.61	279.99	641.57	405.00	376.08	28.92	14.006	
8,900.00	8,876.26	8,943.23	8,876.26	14.26	15.89	89.61	279.99	641.57	405.00	375.92	29.08	13.927	
9,000.00	8,976.26	9,043.23	8,976.26	14.35	15.96	89.61	279.99	641.57	405.00	375.76	29.24	13.849	
9,100.00	9,076.26	9,143.23	9,076.26	14.44	16.04	89.61	279.99	641.57	405.00	375.59	29.41	13.772	
9,200.00	9,176.26	9,243.23	9,176.26	14.53	16.11	89.61	279.99	641.57	405.00	375.43	29.57	13.696	
9,300.00	9,276.26	9,343.23	9,276.26	14.62	16.19	89.61	279.99	641.57	405.00	375.27	29.73	13.621	
9,400.00	9,376.26	9,443.23	9,376.26	14.71	16.27	89.61	279.99	641.57	405.00	375.10	29.90	13.546	
9,500.00	9,476.26	9,543.23	9,476.26	14.80	16.34	89.61	279.99	641.57	405.00	374.94	30.06	13.473	
9,600.00	9,576.26	9,643.23	9,576.26	14.89	16.42	89.61	279.99	641.57	405.00	374.77	30.22	13.400	
9,700.00	9,676.26	9,743.23	9,676.26	14.97	16.49	89.61	279.99	641.57	405.00	374.61	30.39	13.328	
9,800.00	9,776.26	9,843.23	9,776.26	15.06	16.57	89.61	279.99	641.57	405.00	374.45	30.55	13.256	
9,900.00	9,876.26	9,943.23	9,876.26	15.15	16.65	89.61	279.99	641.57	405.00	374.28	30.71	13.186	
10,000.00	9,976.26	10,043.23	9,976.26	15.24	16.72	89.61	279.99	641.57	405.00	374.12	30.88	13.116	
10,100.00	10,076.26	10,143.23	10,076.26	15.33	16.80	89.61	279.99	641.57	405.00	373.96	31.04	13.047	
10,200.00	10,176.26	10,243.23	10,176.26	15.42	16.87	89.61	279.99	641.57	405.00	373.79	31.21	12.979	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:				Offset Site Error:		0.00 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Offset Well Error:		0.50 usft				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
10,300.00	10,276.26	10,343.23	10,276.26	15.51	16.95	89.61	279.99	641.57	405.00	373.63	31.37	12.911					
10,400.00	10,376.26	10,443.23	10,376.26	15.59	17.03	89.61	279.99	641.57	405.00	373.47	31.53	12.844					
10,500.00	10,476.26	10,543.23	10,476.26	15.68	17.10	89.61	279.99	641.57	405.00	373.30	31.70	12.778					
10,600.00	10,576.26	10,643.23	10,576.26	15.77	17.18	89.61	279.99	641.57	405.00	373.14	31.86	12.712					
10,700.00	10,676.26	10,743.23	10,676.26	15.86	17.25	89.61	279.99	641.57	405.00	372.98	32.02	12.648					
10,800.00	10,776.26	10,843.23	10,776.26	15.95	17.33	89.61	279.99	641.57	405.00	372.81	32.19	12.583					
10,900.00	10,876.26	10,943.23	10,876.26	16.04	17.41	89.61	279.99	641.57	405.00	372.65	32.35	12.520					
11,000.00	10,976.26	11,043.23	10,976.26	16.12	17.48	89.61	279.99	641.57	405.00	372.49	32.51	12.457					
11,100.00	11,076.26	11,143.23	11,076.26	16.21	17.56	89.61	279.99	641.57	405.00	372.32	32.68	12.395					
11,200.00	11,176.26	11,243.23	11,176.26	16.30	17.64	89.61	279.99	641.57	405.00	372.16	32.84	12.333					
11,300.00	11,276.26	11,343.23	11,276.26	16.39	17.71	89.61	279.99	641.57	405.00	372.00	33.00	12.272					
11,400.00	11,376.26	11,443.23	11,376.26	16.48	17.79	89.61	279.99	641.57	405.00	371.83	33.17	12.212					
11,500.00	11,476.26	11,543.23	11,476.26	16.56	17.87	89.61	279.99	641.57	405.00	371.67	33.33	12.152					
11,600.00	11,576.26	11,643.23	11,576.26	16.65	17.94	89.61	279.99	641.57	405.00	371.51	33.49	12.093					
11,700.00	11,676.26	11,743.23	11,676.26	16.74	18.02	89.61	279.99	641.57	405.00	371.34	33.65	12.034					
11,800.00	11,776.26	11,843.23	11,776.26	16.83	18.10	89.61	279.99	641.57	405.00	371.18	33.82	11.976					
11,900.00	11,876.26	11,943.23	11,876.26	16.91	18.17	89.61	279.99	641.57	405.00	371.02	33.98	11.918					
11,950.12	11,926.37	11,993.34	11,926.37	16.94	18.21	-90.00	279.99	641.57	405.00	370.96	34.04	11.897					
12,000.00	11,976.24	12,043.22	11,976.24	16.97	18.25	-90.03	279.99	641.57	405.00	370.90	34.10	11.876					
12,100.00	12,075.06	12,142.04	12,075.06	17.02	18.33	-92.02	279.99	641.57	405.27	371.16	34.11	11.882					
12,200.00	12,169.87	12,236.84	12,169.87	17.06	18.40	-95.97	279.99	641.57	407.61	373.54	34.07	11.962					
12,300.00	12,257.78	12,324.76	12,257.78	17.11	18.46	-100.92	279.99	641.57	415.65	381.59	34.06	12.202					
12,400.00	12,336.13	12,429.40	12,362.19	17.16	18.54	-107.45	274.79	641.07	432.24	398.03	34.21	12.634					
12,500.00	12,402.54	12,564.70	12,492.87	17.22	18.57	-114.96	241.13	637.83	453.27	418.06	35.21	12.874					
12,600.00	12,454.98	12,732.22	12,637.94	17.28	18.60	-122.57	158.94	629.91	474.38	436.35	38.03	12.472					
12,700.00	12,491.87	12,940.41	12,775.31	17.37	18.70	-129.46	4.74	615.07	489.34	446.70	42.64	11.475					
12,800.00	12,512.08	13,182.19	12,853.71	17.49	19.04	-133.96	-221.03	593.33	490.88	444.48	46.39	10.581					
12,900.00	12,516.27	13,312.70	12,858.51	17.67	19.39	-135.20	-350.83	581.59	482.76	435.66	47.10	10.250					
13,000.00	12,517.14	13,400.00	12,859.27	17.92	19.70	-135.70	-437.98	576.54	478.13	430.55	47.58	10.049					
13,100.00	12,518.02	13,491.54	12,860.07	18.29	20.10	-135.97	-529.48	574.11	475.70	427.66	48.04	9.902					
13,200.00	12,518.89	13,585.19	12,860.88	18.77	20.57	-136.02	-623.13	574.38	475.28	426.81	48.47	9.805					
13,239.20	12,519.23	13,624.39	12,861.22	19.00	20.79	-136.02	-662.32	574.72	475.28	426.61	48.67	9.765					
13,300.00	12,519.76	13,685.19	12,861.75	19.37	21.15	-136.02	-723.12	575.24	475.28	426.28	48.99	9.701					
13,400.00	12,520.64	13,785.19	12,862.62	20.06	21.80	-136.02	-823.11	576.11	475.27	425.68	49.59	9.584					
13,500.00	12,521.51	13,885.19	12,863.49	20.83	22.51	-136.02	-923.11	576.97	475.27	425.01	50.26	9.456					
13,600.00	12,522.38	13,985.19	12,864.35	21.67	23.28	-136.02	-1,023.10	577.83	475.27	424.26	51.00	9.318					
13,700.00	12,523.26	14,085.19	12,865.22	22.56	24.10	-136.02	-1,123.09	578.69	475.26	423.45	51.81	9.173					
13,800.00	12,524.13	14,185.19	12,866.09	23.51	24.97	-136.02	-1,223.08	579.55	475.26	422.57	52.69	9.021					
13,900.00	12,525.00	14,285.19	12,866.96	24.50	25.89	-136.02	-1,323.08	580.41	475.25	421.63	53.62	8.863					
14,000.00	12,525.88	14,385.19	12,867.83	25.53	26.85	-136.02	-1,423.07	581.27	475.25	420.64	54.61	8.702					
14,100.00	12,526.75	14,485.19	12,868.69	26.59	27.84	-136.02	-1,523.06	582.13	475.24	419.59	55.66	8.539					
14,200.00	12,527.62	14,585.19	12,869.56	27.67	28.86	-136.02	-1,623.05	582.99	475.24	418.48	56.76	8.373					
14,300.00	12,528.50	14,685.19	12,870.43	28.79	29.91	-136.02	-1,723.05	583.85	475.24	417.33	57.91	8.207					
14,400.00	12,529.37	14,785.19	12,871.30	29.92	30.99	-136.01	-1,823.04	584.71	475.23	416.13	59.10	8.041					
14,500.00	12,530.24	14,885.19	12,872.17	31.07	32.09	-136.01	-1,923.03	585.57	475.23	414.89	60.34	7.876					
14,600.00	12,531.12	14,985.19	12,873.03	32.25	33.21	-136.01	-2,023.02	586.43	475.22	413.61	61.62	7.713					
14,700.00	12,531.99	15,085.19	12,873.90	33.43	34.35	-136.01	-2,123.02	587.29	475.22	412.29	62.93	7.551					
14,800.00	12,532.87	15,185.19	12,874.77	34.63	35.51	-136.01	-2,223.01	588.16	475.22	410.93	64.29	7.392					
14,900.00	12,533.74	15,285.19	12,875.64	35.85	36.68	-136.01	-2,323.00	589.02	475.21	409.54	65.67	7.236					
15,000.00	12,534.61	15,385.19	12,876.51	37.07	37.86	-136.01	-2,422.99	589.88	475.21	408.12	67.09	7.083					
15,100.00	12,535.49	15,485.19	12,877.37	38.30	39.06	-136.01	-2,522.99	590.74	475.20	406.67	68.54	6.933					
15,200.00	12,536.36	15,585.19	12,878.24	39.55	40.27	-136.01	-2,622.98	591.60	475.20	405.19	70.01	6.787					

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: Reference		0-MWD+HRGM+SAG+FDIR (rev.5)		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance		Offset Well Error: 0.50 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,300.00	12,537.23	15,685.19	12,879.11	40.80	41.49	-136.01	-2,722.97	592.46	475.20	403.68	71.51	6.645	
15,400.00	12,538.11	15,785.19	12,879.98	42.06	42.71	-136.01	-2,822.96	593.32	475.19	402.15	73.04	6.506	
15,500.00	12,538.98	15,885.19	12,880.85	43.32	43.95	-136.01	-2,922.96	594.18	475.19	400.60	74.59	6.371	
15,600.00	12,539.85	15,985.19	12,881.71	44.59	45.19	-136.01	-3,022.95	595.04	475.18	399.02	76.16	6.239	
15,700.00	12,540.73	16,085.19	12,882.58	45.87	46.45	-136.01	-3,122.94	595.90	475.18	397.43	77.75	6.111	
15,800.00	12,541.60	16,185.19	12,883.45	47.16	47.70	-136.01	-3,222.93	596.76	475.18	395.81	79.36	5.987	
15,900.00	12,542.47	16,285.19	12,884.32	48.44	48.97	-136.01	-3,322.93	597.62	475.17	394.18	80.99	5.867	
16,000.00	12,543.35	16,385.19	12,885.19	49.73	50.24	-136.01	-3,422.92	598.48	475.17	392.53	82.64	5.750	
16,100.00	12,544.22	16,485.19	12,886.05	51.03	51.51	-136.01	-3,522.91	599.34	475.16	390.87	84.30	5.637	
16,200.00	12,545.09	16,585.19	12,886.92	52.33	52.79	-136.01	-3,622.90	600.21	475.16	389.19	85.97	5.527	
16,300.00	12,545.97	16,685.19	12,887.79	53.63	54.08	-136.01	-3,722.90	601.07	475.16	387.49	87.66	5.420	
16,400.00	12,546.84	16,785.19	12,888.66	54.94	55.36	-136.01	-3,822.89	601.93	475.15	385.79	89.37	5.317	
16,500.00	12,547.71	16,885.19	12,889.53	56.25	56.66	-136.01	-3,922.88	602.79	475.15	384.07	91.08	5.217	
16,600.00	12,548.59	16,985.19	12,890.39	57.56	57.95	-136.01	-4,022.87	603.65	475.14	382.33	92.81	5.120	
16,700.00	12,549.46	17,085.19	12,891.26	58.88	59.25	-136.01	-4,122.87	604.51	475.14	380.59	94.55	5.025	
16,800.00	12,550.33	17,185.19	12,892.13	60.20	60.55	-136.00	-4,222.86	605.37	475.14	378.84	96.30	4.934	
16,900.00	12,551.21	17,285.19	12,893.00	61.52	61.86	-136.00	-4,322.85	606.23	475.13	377.07	98.06	4.845	
17,000.00	12,552.08	17,385.19	12,893.87	62.84	63.17	-136.00	-4,422.84	607.09	475.13	375.30	99.83	4.760	
17,100.00	12,552.95	17,485.19	12,894.73	64.16	64.48	-136.00	-4,522.84	607.95	475.12	373.52	101.61	4.676	
17,200.00	12,553.83	17,585.19	12,895.60	65.49	65.79	-136.00	-4,622.83	608.81	475.12	371.73	103.39	4.595	
17,300.00	12,554.70	17,685.19	12,896.47	66.82	67.11	-136.00	-4,722.82	609.67	475.12	369.93	105.19	4.517	
17,400.00	12,555.57	17,785.19	12,897.34	68.14	68.42	-136.00	-4,822.82	610.53	475.11	368.12	106.99	4.441	
17,500.00	12,556.45	17,885.19	12,898.21	69.48	69.74	-136.00	-4,922.81	611.39	475.11	366.31	108.80	4.367	
17,600.00	12,557.32	17,985.19	12,899.07	70.81	71.06	-136.00	-5,022.80	612.26	475.10	364.49	110.62	4.295	
17,700.00	12,558.19	18,085.19	12,899.94	72.14	72.39	-136.00	-5,122.79	613.12	475.10	362.66	112.44	4.225	
17,800.00	12,559.07	18,185.19	12,900.81	73.48	73.71	-136.00	-5,222.79	613.98	475.10	360.82	114.27	4.158	
17,900.00	12,559.94	18,285.19	12,901.68	74.81	75.04	-136.00	-5,322.78	614.84	475.09	358.98	116.11	4.092	
18,000.00	12,560.81	18,385.19	12,902.55	76.15	76.37	-136.00	-5,422.77	615.70	475.09	357.14	117.95	4.028	
18,100.00	12,561.69	18,485.19	12,903.41	77.49	77.70	-136.00	-5,522.76	616.56	475.08	355.29	119.80	3.966	
18,200.00	12,562.56	18,585.19	12,904.28	78.83	79.03	-136.00	-5,622.76	617.42	475.08	353.43	121.65	3.905	
18,300.00	12,563.43	18,685.19	12,905.15	80.17	80.36	-136.00	-5,722.75	618.28	475.07	351.57	123.51	3.847	
18,400.00	12,564.31	18,785.19	12,906.02	81.51	81.69	-136.00	-5,822.74	619.14	475.07	349.70	125.37	3.789	
18,500.00	12,565.18	18,885.19	12,906.89	82.86	83.03	-136.00	-5,922.73	620.00	475.07	347.83	127.24	3.734	
18,600.00	12,566.05	18,985.19	12,907.76	84.20	84.37	-136.00	-6,022.73	620.86	475.06	345.96	129.11	3.680	
18,700.00	12,566.93	19,085.19	12,908.62	85.54	85.70	-136.00	-6,122.72	621.72	475.06	344.08	130.98	3.627	
18,800.00	12,567.80	19,185.19	12,909.49	86.89	87.04	-136.00	-6,222.71	622.58	475.05	342.19	132.86	3.576	
18,900.00	12,568.67	19,285.19	12,910.36	88.24	88.38	-136.00	-6,322.70	623.44	475.05	340.31	134.74	3.526	
19,000.00	12,569.55	19,385.19	12,911.23	89.58	89.72	-136.00	-6,422.70	624.31	475.05	338.41	136.63	3.477	
19,100.00	12,570.42	19,485.19	12,912.10	90.93	91.06	-135.99	-6,522.69	625.17	475.04	336.52	138.52	3.429	
19,200.00	12,571.29	19,585.19	12,912.96	92.28	92.40	-135.99	-6,622.68	626.03	475.04	334.62	140.42	3.383	
19,300.00	12,572.17	19,685.19	12,913.83	93.63	93.74	-135.99	-6,722.67	626.89	475.03	332.72	142.31	3.338	
19,400.00	12,573.04	19,785.19	12,914.70	94.98	95.09	-135.99	-6,822.67	627.75	475.03	330.82	144.21	3.294	
19,500.00	12,573.91	19,885.19	12,915.57	96.33	96.43	-135.99	-6,922.66	628.61	475.03	328.91	146.12	3.251	
19,600.00	12,574.79	19,985.19	12,916.44	97.68	97.78	-135.99	-7,022.65	629.47	475.02	327.00	148.02	3.209	
19,700.00	12,575.66	20,085.19	12,917.30	99.03	99.12	-135.99	-7,122.64	630.33	475.02	325.09	149.93	3.168	
19,800.00	12,576.54	20,185.19	12,918.17	100.38	100.47	-135.99	-7,222.64	631.19	475.01	323.17	151.84	3.128	
19,900.00	12,577.41	20,285.19	12,919.04	101.73	101.82	-135.99	-7,322.63	632.05	475.01	321.25	153.76	3.089	
20,000.00	12,578.28	20,385.19	12,919.91	103.08	103.16	-135.99	-7,422.62	632.91	475.01	319.33	155.68	3.051	
20,100.00	12,579.16	20,485.19	12,920.78	104.44	104.51	-135.99	-7,522.61	633.77	475.00	317.41	157.59	3.014	
20,200.00	12,580.03	20,585.19	12,921.64	105.79	105.86	-135.99	-7,622.61	634.63	475.00	315.48	159.52	2.978	
20,300.00	12,580.90	20,685.19	12,922.51	107.14	107.21	-135.99	-7,722.60	635.49	474.99	313.55	161.44	2.942	
20,400.00	12,581.78	20,785.19	12,923.38	108.50	108.56	-135.99	-7,822.59	636.36	474.99	311.62	163.37	2.908	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)												Rule Assigned:		Warning	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
20,500.00	12,582.65	20,885.19	12,924.25	109.85	109.91	-135.99	-7,922.58	637.22	474.99	309.69	165.29	2.874			
20,600.00	12,583.52	20,985.19	12,925.12	111.21	111.26	-135.99	-8,022.58	638.08	474.98	307.76	167.22	2.840			
20,700.00	12,584.40	21,085.19	12,925.98	112.56	112.61	-135.99	-8,122.57	638.94	474.98	305.82	169.16	2.808			
20,800.00	12,585.27	21,185.19	12,926.85	113.92	113.96	-135.99	-8,222.56	639.80	474.97	303.88	171.09	2.776			
20,900.00	12,586.14	21,285.19	12,927.72	115.27	115.31	-135.99	-8,322.55	640.66	474.97	301.94	173.03	2.745			
21,000.00	12,587.02	21,385.19	12,928.59	116.63	116.67	-135.99	-8,422.55	641.52	474.97	300.00	174.96	2.715			
21,100.00	12,587.89	21,485.19	12,929.46	117.99	118.02	-135.99	-8,522.54	642.38	474.96	298.06	176.90	2.685			
21,200.00	12,588.76	21,585.19	12,930.32	119.34	119.37	-135.99	-8,622.53	643.24	474.96	296.11	178.84	2.656			
21,300.00	12,589.64	21,685.19	12,931.19	120.70	120.72	-135.99	-8,722.52	644.10	474.95	294.17	180.79	2.627			
21,400.00	12,590.51	21,785.19	12,932.06	122.06	122.08	-135.98	-8,822.52	644.96	474.95	292.22	182.73	2.599			
21,500.00	12,591.38	21,885.19	12,932.93	123.42	123.43	-135.98	-8,922.51	645.82	474.95	290.27	184.67	2.572			
21,600.00	12,592.26	21,985.19	12,933.80	124.77	124.79	-135.98	-9,022.50	646.68	474.94	288.32	186.62	2.545			
21,700.00	12,593.13	22,085.19	12,934.66	126.13	126.14	-135.98	-9,122.49	647.54	474.94	286.37	188.57	2.519			
21,800.00	12,594.00	22,185.19	12,935.53	127.49	127.50	-135.98	-9,222.49	648.41	474.93	284.41	190.52	2.493			
21,900.00	12,594.88	22,285.19	12,936.40	128.85	128.85	-135.98	-9,322.48	649.27	474.93	282.46	192.47	2.468			
22,000.00	12,595.75	22,385.19	12,937.27	130.21	130.21	-135.98	-9,422.47	650.13	474.93	280.50	194.42	2.443			
22,100.00	12,596.62	22,485.19	12,938.14	131.57	131.57	-135.98	-9,522.46	650.99	474.92	278.54	196.38	2.418			
22,200.00	12,597.50	22,585.19	12,939.00	132.93	132.92	-135.98	-9,622.46	651.85	474.92	276.59	198.33	2.395			
22,300.00	12,598.37	22,685.19	12,939.87	134.29	134.28	-135.98	-9,722.45	652.71	474.91	274.63	200.29	2.371			
22,400.00	12,599.24	22,785.19	12,940.74	135.65	135.64	-135.98	-9,822.44	653.57	474.91	272.67	202.24	2.348			
22,500.00	12,600.12	22,885.19	12,941.61	137.01	136.99	-135.98	-9,922.43	654.43	474.90	270.70	204.20	2.326			
22,600.00	12,600.99	22,985.19	12,942.48	138.37	138.35	-135.98	-10,022.43	655.29	474.90	268.74	206.16	2.304			
22,700.00	12,601.86	23,085.19	12,943.34	139.73	139.71	-135.98	-10,122.42	656.15	474.90	266.78	208.12	2.282			
22,796.26	12,602.70	23,181.45	12,944.18	141.04	141.01	-135.98	-10,218.67	656.98	474.89	264.89	210.01	2.261	SF		

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:				Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
0.00	0.00	3.00	0.00	0.50	0.50	68.87	906.00	2,344.00	2,513.00			
100.00	100.00	103.00	100.00	0.98	1.00	68.87	906.00	2,344.00	2,513.00	2,511.02	1.98	1,270.080
200.00	200.00	203.00	200.00	1.56	1.57	68.87	906.00	2,344.00	2,513.00	2,509.87	3.13	801.670
300.00	300.00	303.00	300.00	1.98	1.99	68.87	906.00	2,344.00	2,513.00	2,509.03	3.97	632.565
400.00	400.00	403.00	400.00	2.33	2.34	68.87	906.00	2,344.00	2,513.00	2,508.33	4.67	538.351
500.00	500.00	503.00	500.00	2.63	2.64	68.87	906.00	2,344.00	2,513.00	2,507.72	5.28	476.192
600.00	600.00	603.00	600.00	2.91	2.92	68.87	906.00	2,344.00	2,513.00	2,507.17	5.83	431.214
700.00	700.00	703.00	700.00	3.16	3.17	68.87	906.00	2,344.00	2,513.00	2,506.67	6.33	396.705
800.00	800.00	803.00	800.00	3.40	3.41	68.87	906.00	2,344.00	2,513.00	2,506.19	6.81	369.131
900.00	900.00	903.00	900.00	3.62	3.63	68.87	906.00	2,344.00	2,513.00	2,505.75	7.25	346.434
1,000.00	1,000.00	1,003.00	1,000.00	3.84	3.84	68.87	906.00	2,344.00	2,513.00	2,505.32	7.68	327.319
1,100.00	1,100.00	1,103.00	1,100.00	4.04	4.04	68.87	906.00	2,344.00	2,513.00	2,504.92	8.08	310.928
1,200.00	1,200.00	1,203.00	1,200.00	4.23	4.24	68.87	906.00	2,344.00	2,513.00	2,504.53	8.47	296.666
1,300.00	1,300.00	1,303.00	1,300.00	4.42	4.43	68.87	906.00	2,344.00	2,513.00	2,504.16	8.85	284.106
1,400.00	1,400.00	1,403.00	1,400.00	4.60	4.61	68.87	906.00	2,344.00	2,513.00	2,503.79	9.21	272.931
1,500.00	1,500.00	1,503.00	1,500.00	4.78	4.78	68.87	906.00	2,344.00	2,513.00	2,503.44	9.56	262.902
1,600.00	1,600.00	1,603.00	1,600.00	4.95	4.95	68.87	906.00	2,344.00	2,513.00	2,503.10	9.90	253.834
1,700.00	1,700.00	1,703.00	1,700.00	5.11	5.12	68.87	906.00	2,344.00	2,513.00	2,502.77	10.23	245.582
1,800.00	1,800.00	1,803.00	1,800.00	5.28	5.28	68.87	906.00	2,344.00	2,513.00	2,502.44	10.56	238.029
1,900.00	1,900.00	1,903.00	1,900.00	5.44	5.44	68.87	906.00	2,344.00	2,513.00	2,502.13	10.88	231.080
2,000.00	2,000.00	2,007.24	2,004.24	5.59	5.60	68.87	905.99	2,344.00	2,513.00	2,501.81	11.19	224.534
2,100.00	2,100.00	2,248.33	2,245.16	5.74	5.98	68.95	899.98	2,338.62	2,510.02	2,498.33	11.68	214.811
2,200.00	2,200.00	2,487.46	2,483.14	5.89	6.33	69.19	882.84	2,323.30	2,501.46	2,489.33	12.13	206.183
2,300.00	2,299.99	2,714.17	2,707.02	6.07	6.67	29.24	856.37	2,299.63	2,486.31	2,473.74	12.56	197.899
2,400.00	2,399.91	2,816.41	2,807.46	6.24	6.78	29.65	842.15	2,286.92	2,466.40	2,453.56	12.84	192.111
2,500.00	2,499.69	2,913.22	2,902.58	6.42	6.90	30.10	828.69	2,274.89	2,444.32	2,431.18	13.13	186.105
2,600.00	2,599.27	3,009.35	2,997.02	6.59	7.03	30.61	815.33	2,262.94	2,420.10	2,406.67	13.43	180.180
2,700.00	2,698.57	3,104.72	3,090.71	6.76	7.17	31.17	802.07	2,251.09	2,393.78	2,380.04	13.73	174.332
2,800.00	2,797.62	3,199.46	3,183.79	6.85	7.30	31.63	788.89	2,239.31	2,365.87	2,351.91	13.96	169.454
2,900.00	2,896.65	3,294.16	3,276.82	7.00	7.44	32.03	775.72	2,227.54	2,337.96	2,323.71	14.25	164.096
3,000.00	2,995.68	3,388.85	3,369.86	7.15	7.58	32.44	762.56	2,215.77	2,310.15	2,295.61	14.54	158.890
3,100.00	3,094.70	3,483.55	3,462.89	7.30	7.73	32.86	749.39	2,203.99	2,282.46	2,267.63	14.84	153.838
3,200.00	3,193.73	3,578.24	3,555.93	7.46	7.88	33.28	736.22	2,192.22	2,254.89	2,239.75	15.14	148.935
3,300.00	3,292.76	3,672.94	3,648.96	7.61	8.05	33.72	723.06	2,180.45	2,227.44	2,211.99	15.45	144.174
3,400.00	3,391.78	3,767.63	3,741.99	7.77	8.24	34.17	709.89	2,168.68	2,200.11	2,184.35	15.76	139.577
3,500.00	3,490.81	3,862.33	3,835.03	7.93	8.43	34.63	696.72	2,156.91	2,172.92	2,156.84	16.08	135.124
3,600.00	3,589.84	3,957.02	3,928.06	8.09	8.62	35.10	683.55	2,145.14	2,145.87	2,129.46	16.40	130.813
3,700.00	3,688.87	4,051.72	4,021.09	8.25	8.82	35.58	670.39	2,133.37	2,118.95	2,102.22	16.73	126.643
3,800.00	3,787.89	4,146.41	4,114.13	8.42	9.02	36.07	657.22	2,121.60	2,092.19	2,075.12	17.06	122.611
3,900.00	3,886.92	4,241.11	4,207.16	8.58	9.22	36.58	644.05	2,109.82	2,065.57	2,048.17	17.40	118.713
4,000.00	3,985.95	4,335.80	4,300.20	8.75	9.43	37.10	630.88	2,098.05	2,039.12	2,021.38	17.74	114.944
4,100.00	4,084.98	4,430.50	4,393.23	8.92	9.64	37.63	617.72	2,086.28	2,012.83	1,994.75	18.08	111.302
4,200.00	4,184.00	4,525.19	4,486.26	9.09	9.85	38.17	604.55	2,074.51	1,986.72	1,968.28	18.43	107.783
4,300.00	4,283.03	4,619.89	4,579.30	9.26	10.06	38.73	591.38	2,062.74	1,960.78	1,941.99	18.78	104.383
4,400.00	4,382.06	4,714.59	4,672.33	9.43	10.27	39.31	578.22	2,050.97	1,935.03	1,915.89	19.14	101.098
4,500.00	4,481.09	4,809.28	4,765.36	9.60	10.49	39.90	565.05	2,039.20	1,909.47	1,889.97	19.50	97.925
4,600.00	4,580.11	4,903.98	4,858.40	9.77	10.71	40.50	551.88	2,027.43	1,884.11	1,864.25	19.86	94.860
4,700.00	4,679.14	4,998.67	4,951.43	9.95	10.93	41.12	538.71	2,015.65	1,858.97	1,838.74	20.23	91.899
4,800.00	4,778.17	5,093.37	5,044.46	10.12	11.15	41.75	525.55	2,003.88	1,834.04	1,813.44	20.60	89.039
4,900.00	4,877.31	5,188.34	5,137.77	10.28	11.37	42.19	512.34	1,992.08	1,809.96	1,789.01	20.95	86.401
5,000.00	4,976.75	5,284.08	5,231.83	10.47	11.60	42.56	499.03	1,980.18	1,787.94	1,766.62	21.32	83.844
5,100.00	5,076.44	5,380.54	5,326.60	10.65	11.83	42.91	485.61	1,968.19	1,767.99	1,746.30	21.70	81.491

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:						Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,200.00	5,176.30	5,477.66	5,422.02	10.82	12.06	43.23	472.11	1,956.11	1,750.08	1,728.02	22.06	79.337		
5,300.00	5,276.26	5,575.37	5,518.01	10.98	12.29	43.53	458.52	1,943.97	1,734.17	1,711.76	22.41	77.378		
5,400.00	5,376.26	5,673.55	5,614.47	11.05	12.53	84.35	444.87	1,931.76	1,720.03	1,697.34	22.69	75.804		
5,500.00	5,476.26	5,771.80	5,710.99	11.15	12.77	84.77	431.21	1,919.55	1,706.22	1,683.22	23.01	74.166		
5,600.00	5,576.26	5,870.04	5,807.51	11.24	13.01	85.20	417.55	1,907.34	1,692.51	1,669.19	23.32	72.572		
5,700.00	5,676.26	5,968.29	5,904.03	11.33	13.25	85.63	403.89	1,895.13	1,678.90	1,655.26	23.64	71.019		
5,800.00	5,776.26	6,066.53	6,000.55	11.43	13.49	86.07	390.23	1,882.91	1,665.38	1,641.42	23.96	69.508		
5,900.00	5,876.26	6,164.78	6,097.08	11.52	13.73	86.52	376.57	1,870.70	1,651.96	1,627.68	24.28	68.035		
6,000.00	5,976.26	6,263.02	6,193.60	11.61	13.97	86.98	362.91	1,858.49	1,638.65	1,614.04	24.60	66.602		
6,100.00	6,076.26	6,361.27	6,290.12	11.71	14.21	87.44	349.25	1,846.27	1,625.44	1,600.51	24.93	65.205		
6,200.00	6,176.26	6,455.55	6,382.75	11.80	14.43	87.89	336.15	1,834.57	1,612.35	1,587.13	25.23	63.910		
6,300.00	6,276.26	6,531.72	6,457.77	11.89	14.60	88.23	326.31	1,825.78	1,600.28	1,574.78	25.50	62.761		
6,400.00	6,376.26	6,600.00	6,525.22	11.99	14.75	88.51	318.44	1,818.74	1,589.69	1,563.93	25.76	61.717		
6,500.00	6,476.26	6,685.52	6,609.97	12.08	14.92	88.81	309.86	1,811.06	1,580.49	1,554.46	26.03	60.713		
6,600.00	6,576.26	6,763.04	6,686.98	12.17	15.05	89.05	303.30	1,805.20	1,572.74	1,546.46	26.28	59.850		
6,700.00	6,676.26	6,840.88	6,764.48	12.26	15.18	89.24	297.89	1,800.36	1,566.40	1,539.89	26.51	59.086		
6,800.00	6,776.26	6,918.99	6,842.38	12.35	15.29	89.40	293.64	1,796.56	1,561.47	1,534.74	26.73	58.418		
6,900.00	6,876.26	7,000.00	6,923.28	12.45	15.38	89.51	290.49	1,793.75	1,557.94	1,531.00	26.94	57.834		
7,000.00	6,976.26	7,075.74	6,998.98	12.54	15.46	89.58	288.70	1,792.15	1,555.78	1,528.66	27.12	57.369		
7,100.00	7,076.26	7,158.77	7,082.00	12.63	15.50	89.60	288.03	1,791.55	1,555.02	1,527.76	27.26	57.038		
7,135.36	7,111.62	7,188.39	7,111.62	12.66	15.50	89.60	288.03	1,791.55	1,555.01	1,527.71	27.29	56.971		
7,200.00	7,176.26	7,253.02	7,176.26	12.72	15.52	89.60	288.03	1,791.55	1,555.01	1,527.63	27.37	56.805		
7,300.00	7,276.26	7,353.02	7,276.26	12.81	15.56	89.60	288.03	1,791.55	1,555.01	1,527.50	27.50	56.538		
7,400.00	7,376.26	7,453.02	7,376.26	12.90	15.60	89.60	288.03	1,791.55	1,555.01	1,527.37	27.63	56.274		
7,500.00	7,476.26	7,553.02	7,476.26	13.00	15.64	89.60	288.03	1,791.55	1,555.01	1,527.24	27.76	56.011		
7,600.00	7,576.26	7,653.02	7,576.26	13.09	15.68	89.60	288.03	1,791.55	1,555.01	1,527.12	27.89	55.750		
7,700.00	7,676.26	7,753.02	7,676.26	13.18	15.72	89.60	288.03	1,791.55	1,555.01	1,526.99	28.02	55.491		
7,800.00	7,776.26	7,853.02	7,776.26	13.27	15.76	89.60	288.03	1,791.55	1,555.01	1,526.85	28.15	55.235		
7,900.00	7,876.26	7,953.02	7,876.26	13.36	15.80	89.60	288.03	1,791.55	1,555.01	1,526.72	28.28	54.980		
8,000.00	7,976.26	8,053.02	7,976.26	13.45	15.84	89.60	288.03	1,791.55	1,555.01	1,526.59	28.41	54.727		
8,100.00	8,076.26	8,153.02	8,076.26	13.54	15.89	89.60	288.03	1,791.55	1,555.01	1,526.46	28.54	54.476		
8,200.00	8,176.26	8,253.02	8,176.26	13.63	15.93	89.60	288.03	1,791.55	1,555.01	1,526.33	28.68	54.227		
8,300.00	8,276.26	8,353.02	8,276.26	13.72	15.97	89.60	288.03	1,791.55	1,555.01	1,526.20	28.81	53.980		
8,400.00	8,376.26	8,453.02	8,376.26	13.81	16.01	89.60	288.03	1,791.55	1,555.01	1,526.07	28.94	53.735		
8,500.00	8,476.26	8,553.02	8,476.26	13.90	16.06	89.60	288.03	1,791.55	1,555.01	1,525.94	29.07	53.491		
8,600.00	8,576.26	8,653.02	8,576.26	13.99	16.10	89.60	288.03	1,791.55	1,555.01	1,525.81	29.20	53.249		
8,700.00	8,676.26	8,753.02	8,676.26	14.08	16.14	89.60	288.03	1,791.55	1,555.01	1,525.67	29.33	53.009		
8,800.00	8,776.26	8,853.02	8,776.26	14.17	16.19	89.60	288.03	1,791.55	1,555.01	1,525.54	29.47	52.771		
8,900.00	8,876.26	8,953.02	8,876.26	14.26	16.23	89.60	288.03	1,791.55	1,555.01	1,525.41	29.60	52.535		
9,000.00	8,976.26	9,053.02	8,976.26	14.35	16.27	89.60	288.03	1,791.55	1,555.01	1,525.28	29.73	52.300		
9,100.00	9,076.26	9,153.02	9,076.26	14.44	16.32	89.60	288.03	1,791.55	1,555.01	1,525.14	29.87	52.067		
9,200.00	9,176.26	9,253.02	9,176.26	14.53	16.36	89.60	288.03	1,791.55	1,555.01	1,525.01	30.00	51.836		
9,300.00	9,276.26	9,353.02	9,276.26	14.62	16.41	89.60	288.03	1,791.55	1,555.01	1,524.88	30.13	51.607		
9,400.00	9,376.26	9,453.02	9,376.26	14.71	16.46	89.60	288.03	1,791.55	1,555.01	1,524.74	30.27	51.379		
9,500.00	9,476.26	9,553.02	9,476.26	14.80	16.50	89.60	288.03	1,791.55	1,555.01	1,524.61	30.40	51.152		
9,600.00	9,576.26	9,653.02	9,576.26	14.89	16.55	89.60	288.03	1,791.55	1,555.01	1,524.47	30.53	50.928		
9,700.00	9,676.26	9,753.02	9,676.26	14.97	16.59	89.60	288.03	1,791.55	1,555.01	1,524.34	30.67	50.705		
9,800.00	9,776.26	9,853.02	9,776.26	15.06	16.64	89.60	288.03	1,791.55	1,555.01	1,524.21	30.80	50.484		
9,900.00	9,876.26	9,953.02	9,876.26	15.15	16.69	89.60	288.03	1,791.55	1,555.01	1,524.07	30.94	50.264		
10,000.00	9,976.26	10,053.02	9,976.26	15.24	16.73	89.60	288.03	1,791.55	1,555.01	1,523.94	31.07	50.046		
10,100.00	10,076.26	10,153.02	10,076.26	15.33	16.78	89.60	288.03	1,791.55	1,555.01	1,523.80	31.21	49.829		
10,200.00	10,176.26	10,253.02	10,176.26	15.42	16.83	89.60	288.03	1,791.55	1,555.01	1,523.67	31.34	49.614		

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:				Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
10,300.00	10,276.26	10,353.02	10,276.26	15.51	16.88	89.60	288.03	1,791.55	1,555.01	1,523.53	31.48	49.401
10,400.00	10,376.26	10,453.02	10,376.26	15.59	16.93	89.60	288.03	1,791.55	1,555.01	1,523.39	31.61	49.189
10,500.00	10,476.26	10,553.02	10,476.26	15.68	16.98	89.60	288.03	1,791.55	1,555.01	1,523.26	31.75	48.978
10,600.00	10,576.26	10,653.02	10,576.26	15.77	17.02	89.60	288.03	1,791.55	1,555.01	1,523.12	31.89	48.769
10,700.00	10,676.26	10,753.02	10,676.26	15.86	17.07	89.60	288.03	1,791.55	1,555.01	1,522.99	32.02	48.562
10,800.00	10,776.26	10,853.02	10,776.26	15.95	17.12	89.60	288.03	1,791.55	1,555.01	1,522.85	32.16	48.356
10,900.00	10,876.26	10,953.02	10,876.26	16.04	17.17	89.60	288.03	1,791.55	1,555.01	1,522.71	32.29	48.151
11,000.00	10,976.26	11,053.02	10,976.26	16.12	17.22	89.60	288.03	1,791.55	1,555.01	1,522.58	32.43	47.948
11,100.00	11,076.26	11,153.02	11,076.26	16.21	17.27	89.60	288.03	1,791.55	1,555.01	1,522.44	32.57	47.746
11,200.00	11,176.26	11,253.02	11,176.26	16.30	17.32	89.60	288.03	1,791.55	1,555.01	1,522.30	32.71	47.546
11,300.00	11,276.26	11,353.02	11,276.26	16.39	17.37	89.60	288.03	1,791.55	1,555.01	1,522.16	32.84	47.347
11,400.00	11,376.26	11,453.02	11,376.26	16.48	17.43	89.60	288.03	1,791.55	1,555.01	1,522.03	32.98	47.150
11,500.00	11,476.26	11,553.02	11,476.26	16.56	17.48	89.60	288.03	1,791.55	1,555.01	1,521.89	33.12	46.954
11,600.00	11,576.26	11,653.02	11,576.26	16.65	17.53	89.60	288.03	1,791.55	1,555.01	1,521.75	33.26	46.759
11,700.00	11,676.26	11,753.02	11,676.26	16.74	17.58	89.60	288.03	1,791.55	1,555.01	1,521.61	33.39	46.565
11,800.00	11,776.26	11,853.02	11,776.26	16.83	17.63	89.60	288.03	1,791.55	1,555.01	1,521.48	33.53	46.373
11,900.00	11,876.26	11,953.02	11,876.26	16.91	17.68	89.60	288.03	1,791.55	1,555.01	1,521.34	33.67	46.183
12,000.00	11,976.24	12,053.00	11,976.24	16.97	17.74	-89.94	288.03	1,791.55	1,555.01	1,521.24	33.77	46.049
12,021.31	11,997.48	12,074.25	11,997.48	16.98	17.75	-90.00	288.03	1,791.55	1,555.01	1,521.24	33.76	46.057
12,100.00	12,075.06	12,151.83	12,075.06	17.02	17.79	-90.46	288.03	1,791.55	1,555.06	1,521.32	33.74	46.089
12,200.00	12,169.87	12,246.63	12,169.87	17.06	17.84	-91.50	288.03	1,791.55	1,555.63	1,521.98	33.66	46.222
12,300.00	12,257.78	12,328.54	12,251.76	17.11	17.90	-92.67	287.26	1,791.66	1,557.77	1,524.24	33.53	46.459
12,400.00	12,336.13	12,400.00	12,322.71	17.16	18.00	-93.53	279.20	1,792.81	1,562.96	1,529.53	33.43	46.758
12,500.00	12,402.54	12,479.68	12,399.92	17.22	18.16	-94.31	259.99	1,795.54	1,571.55	1,538.11	33.44	47.001
12,600.00	12,454.98	12,563.22	12,477.17	17.28	18.38	-94.89	228.67	1,800.00	1,583.56	1,549.96	33.60	47.126
12,700.00	12,491.87	12,655.16	12,555.85	17.37	18.68	-95.36	181.79	1,806.67	1,598.84	1,564.84	34.00	47.026
12,800.00	12,512.08	12,759.45	12,634.63	17.49	19.12	-95.79	114.34	1,816.27	1,616.99	1,582.25	34.73	46.556
12,900.00	12,516.27	12,883.55	12,710.41	17.67	19.79	-97.06	17.36	1,830.07	1,637.14	1,601.22	35.92	45.577
13,000.00	12,517.14	13,044.64	12,774.35	17.92	20.94	-99.16	-128.45	1,850.82	1,656.09	1,618.33	37.76	43.855
13,100.00	12,518.02	13,241.18	12,795.19	18.29	22.70	-99.67	-321.25	1,877.90	1,670.67	1,630.47	40.21	41.550
13,200.00	12,518.89	13,476.63	12,796.43	18.77	25.15	-99.54	-555.79	1,897.75	1,678.09	1,634.70	43.39	38.670
13,300.00	12,519.76	13,633.34	12,797.25	19.37	26.87	-99.51	-712.46	1,900.85	1,678.78	1,632.97	45.81	36.643
13,400.00	12,520.64	13,733.34	12,797.78	20.06	28.01	-99.50	-812.45	1,901.76	1,678.77	1,631.12	47.65	35.230
13,500.00	12,521.51	13,833.34	12,798.30	20.83	29.16	-99.49	-912.44	1,902.66	1,678.76	1,629.18	49.57	33.865
13,600.00	12,522.38	13,933.34	12,798.83	21.67	30.33	-99.48	-1,012.44	1,903.57	1,678.74	1,627.18	51.57	32.554
13,700.00	12,523.26	14,033.34	12,799.35	22.56	31.51	-99.47	-1,112.43	1,904.48	1,678.73	1,625.10	53.63	31.302
13,800.00	12,524.13	14,133.33	12,799.88	23.51	32.71	-99.45	-1,212.43	1,905.38	1,678.72	1,622.97	55.75	30.111
13,900.00	12,525.00	14,233.33	12,800.40	24.50	33.92	-99.44	-1,312.42	1,906.29	1,678.71	1,620.78	57.92	28.981
14,000.00	12,525.88	14,333.33	12,800.93	25.53	35.15	-99.43	-1,412.41	1,907.20	1,678.70	1,618.55	60.14	27.911
14,100.00	12,526.75	14,433.33	12,801.46	26.59	36.38	-99.42	-1,512.41	1,908.10	1,678.68	1,616.28	62.41	26.900
14,200.00	12,527.62	14,533.33	12,801.98	27.67	37.62	-99.41	-1,612.40	1,909.01	1,678.67	1,613.97	64.70	25.944
14,300.00	12,528.50	14,633.33	12,802.51	28.79	38.87	-99.39	-1,712.40	1,909.92	1,678.66	1,611.63	67.03	25.042
14,400.00	12,529.37	14,733.33	12,803.03	29.92	40.13	-99.38	-1,812.39	1,910.83	1,678.65	1,609.26	69.39	24.190
14,500.00	12,530.24	14,833.33	12,803.56	31.07	41.39	-99.37	-1,912.38	1,911.73	1,678.64	1,606.86	71.78	23.386
14,600.00	12,531.12	14,933.33	12,804.08	32.25	42.66	-99.36	-2,012.38	1,912.64	1,678.63	1,604.44	74.19	22.626
14,700.00	12,531.99	15,033.33	12,804.61	33.43	43.94	-99.35	-2,112.37	1,913.55	1,678.62	1,602.00	76.62	21.908
14,800.00	12,532.87	15,133.33	12,805.14	34.63	45.22	-99.33	-2,212.37	1,914.45	1,678.60	1,599.53	79.07	21.229
14,900.00	12,533.74	15,233.33	12,805.66	35.85	46.51	-99.32	-2,312.36	1,915.36	1,678.59	1,597.06	81.54	20.587
15,000.00	12,534.61	15,333.33	12,806.19	37.07	47.80	-99.31	-2,412.35	1,916.27	1,678.58	1,594.56	84.02	19.978
15,100.00	12,535.49	15,433.33	12,806.71	38.30	49.09	-99.30	-2,512.35	1,917.17	1,678.57	1,592.05	86.52	19.401
15,200.00	12,536.36	15,533.33	12,807.24	39.55	50.39	-99.29	-2,612.34	1,918.08	1,678.56	1,589.53	89.03	18.854
15,300.00	12,537.23	15,633.33	12,807.77	40.80	51.69	-99.28	-2,712.34	1,918.99	1,678.55	1,587.00	91.55	18.334

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Offset Well Error: 0.50 usft

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)		Rule Assigned:							Offset Well Error:		0.50 usft		
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,400.00	12,538.11	15,733.32	12,808.29	42.06	53.00	-99.26	-2,812.33	1,919.89	1,678.54	1,584.45	94.09	17.841	
15,500.00	12,538.98	15,833.32	12,808.82	43.32	54.31	-99.25	-2,912.32	1,920.80	1,678.53	1,581.90	96.63	17.371	
15,600.00	12,539.85	15,933.32	12,809.34	44.59	55.62	-99.24	-3,012.32	1,921.71	1,678.52	1,579.34	99.18	16.924	
15,700.00	12,540.73	16,033.32	12,809.87	45.87	56.93	-99.23	-3,112.31	1,922.61	1,678.51	1,576.76	101.74	16.497	
15,800.00	12,541.60	16,133.32	12,810.39	47.16	58.25	-99.22	-3,212.30	1,923.52	1,678.50	1,574.18	104.31	16.091	
15,900.00	12,542.47	16,233.32	12,810.92	48.44	59.57	-99.20	-3,312.30	1,924.43	1,678.49	1,571.60	106.89	15.703	
16,000.00	12,543.35	16,333.32	12,811.45	49.73	60.89	-99.19	-3,412.29	1,925.33	1,678.48	1,569.00	109.48	15.332	
16,100.00	12,544.22	16,433.32	12,811.97	51.03	62.21	-99.18	-3,512.29	1,926.24	1,678.47	1,566.40	112.07	14.978	
16,200.00	12,545.09	16,533.32	12,812.50	52.33	63.54	-99.17	-3,612.28	1,927.15	1,678.46	1,563.79	114.66	14.638	
16,300.00	12,545.97	16,633.32	12,813.02	53.63	64.87	-99.16	-3,712.27	1,928.06	1,678.45	1,561.18	117.26	14.313	
16,400.00	12,546.84	16,733.32	12,813.55	54.94	66.19	-99.14	-3,812.27	1,928.96	1,678.44	1,558.57	119.87	14.002	
16,500.00	12,547.71	16,833.32	12,814.07	56.25	67.53	-99.13	-3,912.26	1,929.87	1,678.43	1,555.94	122.48	13.703	
16,600.00	12,548.59	16,933.32	12,814.60	57.56	68.86	-99.12	-4,012.26	1,930.78	1,678.42	1,553.32	125.10	13.417	
16,700.00	12,549.46	17,033.32	12,815.13	58.88	70.19	-99.11	-4,112.25	1,931.68	1,678.41	1,550.69	127.72	13.141	
16,800.00	12,550.33	17,133.32	12,815.65	60.20	71.52	-99.10	-4,212.24	1,932.59	1,678.40	1,548.05	130.34	12.877	
16,900.00	12,551.21	17,233.32	12,816.18	61.52	72.86	-99.08	-4,312.24	1,933.50	1,678.39	1,545.42	132.97	12.622	
17,000.00	12,552.08	17,333.32	12,816.70	62.84	74.20	-99.07	-4,412.23	1,934.40	1,678.38	1,542.77	135.60	12.377	
17,100.00	12,552.95	17,433.31	12,817.23	64.16	75.54	-99.06	-4,512.23	1,935.31	1,678.37	1,540.13	138.24	12.141	
17,200.00	12,553.83	17,533.31	12,817.76	65.49	76.87	-99.05	-4,612.22	1,936.22	1,678.36	1,537.48	140.88	11.914	
17,300.00	12,554.70	17,633.31	12,818.28	66.82	78.21	-99.04	-4,712.21	1,937.12	1,678.35	1,534.83	143.52	11.694	
17,400.00	12,555.57	17,733.31	12,818.81	68.14	79.56	-99.02	-4,812.21	1,938.03	1,678.34	1,532.18	146.16	11.483	
17,500.00	12,556.45	17,833.31	12,819.33	69.48	80.90	-99.01	-4,912.20	1,938.94	1,678.33	1,529.52	148.81	11.278	
17,600.00	12,557.32	17,933.31	12,819.86	70.81	82.24	-99.00	-5,012.19	1,939.84	1,678.32	1,526.86	151.46	11.081	
17,700.00	12,558.19	18,033.31	12,820.38	72.14	83.59	-98.99	-5,112.19	1,940.75	1,678.31	1,524.20	154.11	10.890	
17,800.00	12,559.07	18,133.31	12,820.91	73.48	84.93	-98.98	-5,212.18	1,941.66	1,678.30	1,521.54	156.76	10.706	
17,900.00	12,559.94	18,233.31	12,821.44	74.81	86.28	-98.96	-5,312.18	1,942.56	1,678.29	1,518.88	159.42	10.528	
18,000.00	12,560.81	18,333.31	12,821.96	76.15	87.62	-98.95	-5,412.17	1,943.47	1,678.29	1,516.21	162.08	10.355	
18,100.00	12,561.69	18,433.31	12,822.49	77.49	88.97	-98.94	-5,512.16	1,944.38	1,678.28	1,513.54	164.74	10.188	
18,200.00	12,562.56	18,533.31	12,823.01	78.83	90.32	-98.93	-5,612.16	1,945.28	1,678.27	1,510.87	167.40	10.025	
18,300.00	12,563.43	18,633.31	12,823.54	80.17	91.66	-98.92	-5,712.15	1,946.19	1,678.26	1,508.20	170.06	9.868	
18,400.00	12,564.31	18,733.31	12,824.06	81.51	93.01	-98.90	-5,812.15	1,947.10	1,678.25	1,505.52	172.73	9.716	
18,500.00	12,565.18	18,833.31	12,824.59	82.86	94.36	-98.89	-5,912.14	1,948.01	1,678.24	1,502.85	175.40	9.568	
18,600.00	12,566.05	18,933.31	12,825.12	84.20	95.71	-98.88	-6,012.13	1,948.91	1,678.23	1,500.17	178.07	9.425	
18,700.00	12,566.93	19,033.30	12,825.64	85.54	97.06	-98.87	-6,112.13	1,949.82	1,678.23	1,497.49	180.74	9.285	
18,800.00	12,567.80	19,133.30	12,826.17	86.89	98.41	-98.86	-6,212.12	1,950.73	1,678.22	1,494.81	183.41	9.150	
18,900.00	12,568.67	19,233.30	12,826.69	88.24	99.76	-98.84	-6,312.12	1,951.63	1,678.21	1,492.13	186.08	9.019	
19,000.00	12,569.55	19,333.30	12,827.22	89.58	101.12	-98.83	-6,412.11	1,952.54	1,678.20	1,489.44	188.76	8.891	
19,100.00	12,570.42	19,433.30	12,827.75	90.93	102.47	-98.82	-6,512.10	1,953.45	1,678.19	1,486.76	191.43	8.766	
19,200.00	12,571.29	19,533.30	12,828.27	92.28	103.82	-98.81	-6,612.10	1,954.35	1,678.18	1,484.07	194.11	8.646	
19,300.00	12,572.17	19,633.30	12,828.80	93.63	105.18	-98.80	-6,712.09	1,955.26	1,678.18	1,481.39	196.79	8.528	
19,400.00	12,573.04	19,733.30	12,829.32	94.98	106.53	-98.78	-6,812.08	1,956.17	1,678.17	1,478.70	199.47	8.413	
19,500.00	12,573.91	19,833.30	12,829.85	96.33	107.88	-98.77	-6,912.08	1,957.07	1,678.16	1,476.01	202.15	8.302	
19,600.00	12,574.79	19,933.30	12,830.37	97.68	109.24	-98.76	-7,012.07	1,957.98	1,678.15	1,473.32	204.83	8.193	
19,700.00	12,575.66	20,033.30	12,830.90	99.03	110.59	-98.75	-7,112.07	1,958.89	1,678.15	1,470.63	207.51	8.087	
19,800.00	12,576.54	20,133.30	12,831.43	100.38	111.95	-98.74	-7,212.06	1,959.79	1,678.14	1,467.94	210.20	7.984	
19,900.00	12,577.41	20,233.30	12,831.95	101.73	113.30	-98.72	-7,312.05	1,960.70	1,678.13	1,465.25	212.88	7.883	
20,000.00	12,578.28	20,333.30	12,832.48	103.08	114.66	-98.71	-7,412.05	1,961.61	1,678.12	1,462.55	215.57	7.785	
20,100.00	12,579.16	20,433.30	12,833.00	104.44	116.02	-98.70	-7,512.04	1,962.51	1,678.12	1,459.86	218.26	7.689	
20,200.00	12,580.03	20,533.30	12,833.53	105.79	117.37	-98.69	-7,612.04	1,963.42	1,678.11	1,457.17	220.94	7.595	
20,300.00	12,580.90	20,633.29	12,834.05	107.14	118.73	-98.68	-7,712.03	1,964.33	1,678.10	1,454.47	223.63	7.504	
20,400.00	12,581.78	20,733.29	12,834.58	108.50	120.09	-98.66	-7,812.02	1,965.24	1,678.09	1,451.77	226.32	7.415	
20,500.00	12,582.65	20,833.29	12,835.11	109.85	121.44	-98.65	-7,912.02	1,966.14	1,678.09	1,449.08	229.01	7.327	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)												Offset Site Error:	0.00 usft
Reference												Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,583.52	20,933.29	12,835.63	111.21	122.80	-98.64	-8,012.01	1,967.05	1,678.08	1,446.38	231.70	7.242	
20,700.00	12,584.40	21,033.29	12,836.16	112.56	124.16	-98.63	-8,112.01	1,967.96	1,678.07	1,443.68	234.40	7.159	
20,800.00	12,585.27	21,133.29	12,836.68	113.92	125.52	-98.62	-8,212.00	1,968.86	1,678.07	1,440.98	237.09	7.078	
20,900.00	12,586.14	21,233.29	12,837.21	115.27	126.87	-98.61	-8,311.99	1,969.77	1,678.06	1,438.28	239.78	6.998	
21,000.00	12,587.02	21,333.29	12,837.74	116.63	128.23	-98.59	-8,411.99	1,970.68	1,678.05	1,435.58	242.48	6.921	
21,100.00	12,587.89	21,433.29	12,838.26	117.99	129.59	-98.58	-8,511.98	1,971.58	1,678.05	1,432.88	245.17	6.844	
21,200.00	12,588.76	21,533.29	12,838.79	119.34	130.95	-98.57	-8,611.97	1,972.49	1,678.04	1,430.18	247.87	6.770	
21,300.00	12,589.64	21,633.29	12,839.31	120.70	132.31	-98.56	-8,711.97	1,973.40	1,678.03	1,427.47	250.56	6.697	
21,400.00	12,590.51	21,733.29	12,839.84	122.06	133.67	-98.55	-8,811.96	1,974.30	1,678.03	1,424.77	253.26	6.626	
21,500.00	12,591.38	21,833.29	12,840.36	123.42	135.03	-98.53	-8,911.96	1,975.21	1,678.02	1,422.07	255.96	6.556	
21,600.00	12,592.26	21,933.29	12,840.89	124.77	136.39	-98.52	-9,011.95	1,976.12	1,678.02	1,419.36	258.65	6.488	
21,700.00	12,593.13	22,033.29	12,841.42	126.13	137.75	-98.51	-9,111.94	1,977.02	1,678.01	1,416.66	261.35	6.421	
21,800.00	12,594.00	22,133.29	12,841.94	127.49	139.11	-98.50	-9,211.94	1,977.93	1,678.00	1,413.95	264.05	6.355	
21,900.00	12,594.88	22,233.28	12,842.47	128.85	140.47	-98.49	-9,311.93	1,978.84	1,678.00	1,411.25	266.75	6.291	
22,000.00	12,595.75	22,333.28	12,842.99	130.21	141.83	-98.47	-9,411.93	1,979.74	1,677.99	1,408.54	269.45	6.227	
22,100.00	12,596.62	22,433.28	12,843.52	131.57	143.19	-98.46	-9,511.92	1,980.65	1,677.99	1,405.83	272.15	6.166	
22,200.00	12,597.50	22,533.28	12,844.04	132.93	144.55	-98.45	-9,611.91	1,981.56	1,677.98	1,403.13	274.85	6.105	
22,300.00	12,598.37	22,633.28	12,844.57	134.29	145.91	-98.44	-9,711.91	1,982.46	1,677.97	1,400.42	277.55	6.046	
22,400.00	12,599.24	22,733.28	12,845.10	135.65	147.27	-98.43	-9,811.90	1,983.37	1,677.97	1,397.71	280.26	5.987	
22,500.00	12,600.12	22,833.28	12,845.62	137.01	148.64	-98.41	-9,911.90	1,984.28	1,677.96	1,395.00	282.96	5.930	
22,600.00	12,600.99	22,933.28	12,846.15	138.37	150.00	-98.40	-10,011.89	1,985.19	1,677.96	1,392.30	285.66	5.874	
22,700.00	12,601.86	23,033.28	12,846.67	139.73	151.36	-98.39	-10,111.88	1,986.09	1,677.95	1,389.59	288.36	5.819	
22,796.26	12,602.70	23,129.54	12,847.18	141.04	152.67	-98.38	-10,208.14	1,986.97	1,677.95	1,386.98	290.97	5.767	ES, SF

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)							Rule Assigned:				Offset Well Error:		0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.50	0.50	72.90	721.00	2,344.00	2,452.38				
100.00	100.00	100.00	100.00	0.98	0.98	72.90	721.00	2,344.00	2,452.38	2,450.42	1.96	1,249.823	
200.00	200.00	200.00	200.00	1.56	1.56	72.90	721.00	2,344.00	2,452.38	2,449.26	3.12	785.453	
300.00	300.00	300.00	300.00	1.98	1.98	72.90	721.00	2,344.00	2,452.38	2,448.42	3.96	618.926	CC, ES
400.00	400.00	363.63	363.62	2.33	2.25	72.91	720.91	2,344.52	2,453.12	2,448.55	4.57	536.402	
500.00	500.00	427.22	427.19	2.63	2.51	72.92	720.63	2,346.09	2,455.35	2,450.23	5.12	479.376	
600.00	600.00	500.00	499.91	2.91	2.78	72.96	720.09	2,349.16	2,459.08	2,453.43	5.65	435.026	
700.00	700.00	554.15	553.96	3.16	2.96	72.99	719.53	2,352.32	2,464.24	2,458.16	6.08	405.512	
800.00	800.00	617.42	617.06	3.40	3.12	73.04	718.71	2,356.98	2,470.91	2,464.43	6.47	381.821	
900.00	900.00	707.86	707.16	3.62	3.26	73.12	717.35	2,364.71	2,478.64	2,471.81	6.83	362.863	
1,000.00	1,000.00	807.48	806.40	3.84	3.51	73.22	715.84	2,373.26	2,486.42	2,479.13	7.29	341.080	
1,100.00	1,100.00	907.10	905.64	4.04	3.74	73.31	714.33	2,381.81	2,494.21	2,486.48	7.73	322.627	
1,200.00	1,200.00	1,006.72	1,004.88	4.23	3.97	73.40	712.83	2,390.36	2,502.00	2,493.85	8.16	306.735	
1,300.00	1,300.00	1,106.34	1,104.12	4.42	4.20	73.48	711.32	2,398.91	2,509.81	2,501.24	8.57	292.862	
1,400.00	1,400.00	1,205.96	1,203.36	4.60	4.42	73.57	709.81	2,407.46	2,517.61	2,508.64	8.97	280.612	SF

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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 3220 + 26 @ 3246.00usft (26' KB)Coordinates are relative to: Junior Mint Fed 212H

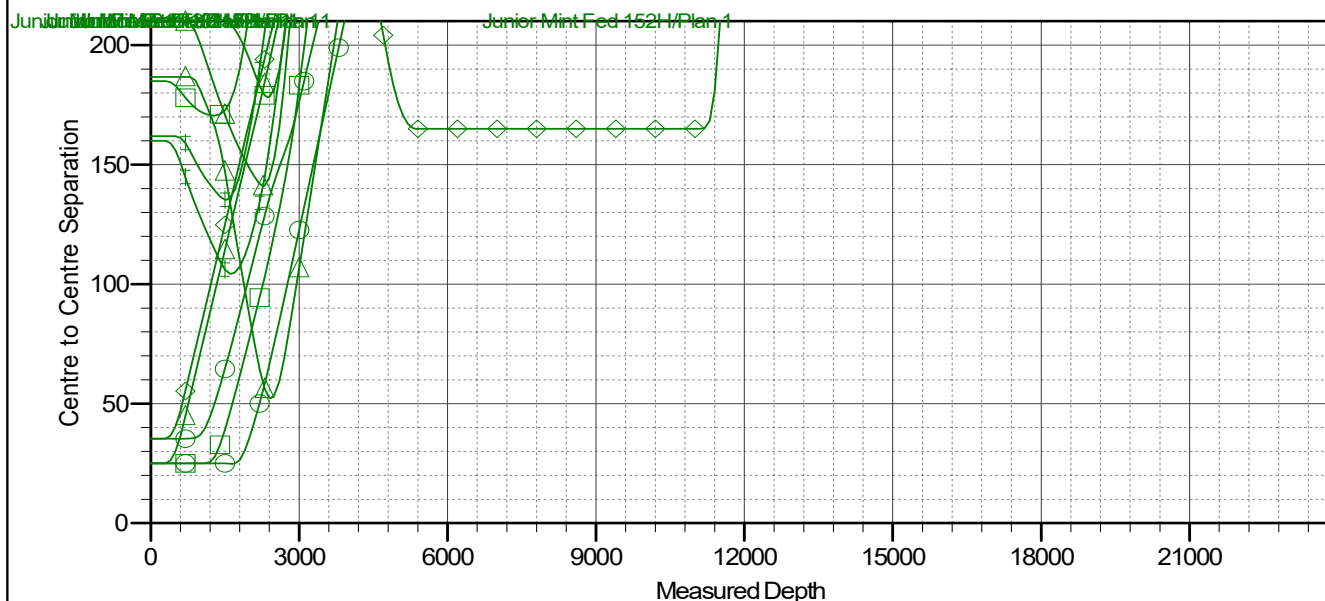
Offset Depths are relative to Offset Datum

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 217H, OH, Plan 1 V0	Junior Mint Fed 224H, OH, Plan 1 V0	Junior Mint Fed 213H, OH, Plan 1 V0
Junior Mint Fed 131H, OH, Plan 1 V0	Junior Mint Fed 223H, OH, Plan 1 V0	Junior Mint Fed 221H, OH, Plan 1 V0
Junior Mint Fed 138H, OH, Plan 1 V0	Junior Mint Fed 216H, OH, Plan 1 V0	Junior Mint Fed 151H, OH, Plan 1 V0
Junior Mint Fed 152H, OH, Plan 1 V0	Junior Mint Fed 218H, OH, Plan 1 V0	Junior Mint Fed 215H, OH, Plan 1 V0
Junior Mint Fed 158H, OH, Plan 1 V0	Junior Mint Fed 132H, OH, Plan 1 V0	Junior Mint Fed 222H, OH, Plan 1 V0
Junior Mint Fed 133H, OH, Plan 1 V0	Junior Mint Fed 156H, OH, Plan 1 V0	Junior Mint Fed 214H, OH, Plan 1 V0
Junior Mint Fed 137H, OH, Plan 1 V0	Junior Mint Fed 134H, OH, Plan 1 V0	
Junior Mint Fed 211H, OH, Plan 1 V0	Junior Mint Fed 135H, OH, Plan 1 V0	

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

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Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 212H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Reference Site:	Junior Mint Fed Pad	MD Reference:	GE 3220 + 26 @ 3246.00usft (26' KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Junior Mint Fed 212H	Survey Calculation Method:	Minimum 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 3220 + 26 @ 3246.00usft (26' KB)Coordinates are relative to: Junior Mint Fed 212H

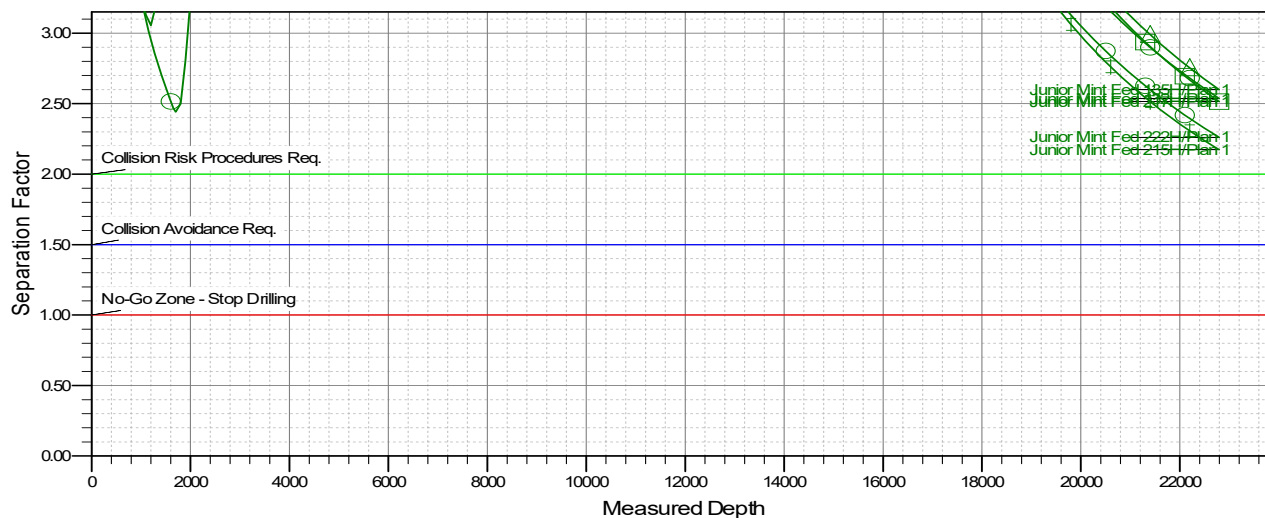
Offset Depths are relative to Offset Datum

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 217H, OH, Plan 1 V0	Junior Mint Fed 224H, OH, Plan 1 V0	Junior Mint Fed 213H, OH, Plan 1 V0
Junior Mint Fed 131H, OH, Plan 1 V0	Junior Mint Fed 223H, OH, Plan 1 V0	Junior Mint Fed 221H, OH, Plan 1 V0
Junior Mint Fed 138H, OH, Plan 1 V0	Junior Mint Fed 216H, OH, Plan 1 V0	Junior Mint Fed 151H, OH, Plan 1 V0
Junior Mint Fed 152H, OH, Plan 1 V0	Junior Mint Fed 218H, OH, Plan 1 V0	Junior Mint Fed 215H, OH, Plan 1 V0
Junior Mint Fed 158H, OH, Plan 1 V0	Junior Mint Fed 132H, OH, Plan 1 V0	Junior Mint Fed 222H, OH, Plan 1 V0
Junior Mint Fed 133H, OH, Plan 1 V0	Junior Mint Fed 156H, OH, Plan 1 V0	Junior Mint Fed 214H, OH, Plan 1 V0
Junior Mint Fed 137H, OH, Plan 1 V0	Junior Mint Fed 134H, OH, Plan 1 V0	
Junior Mint Fed 211H, OH, Plan 1 V0	Junior Mint Fed 135H, OH, Plan 1 V0	

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

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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 475458

CONDITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 475458
	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