

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No. NMNM101609

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator CIVITAS PERMIAN OPERATING LLC

3a. Address 555 17TH STREET SUITE 3700, DENVER, CO 80202
3b. Phone No. (include area code) (303) 293-10004. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 15/T25S/R35E/NMP

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

8. Well Name and No.
JUNIOR MINT FED/215H

9. API Well No.

10. Field and Pool or Exploratory Area
Dogie Draw; Wolfcamp11. 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 recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

Civitas Permian Operating, LLC requests the following changes to the previously approved surface hole location (SHL) and drill plan. Change SHL from 271 FNL & 1426 FWL, NENW, Sec. 15, T.25S, R.35E to 486 FNL & 1409 FWL, NENW, Sec. 15, T.25S, R.35E. Changes to the drill plan and other variance requests are detailed in the attached summary and supporting documents. Please see the attached revised C102 plat, directional plan, anticollision report, production casing spec sheets and wellhead diagram for additional information.

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

Title Permitting Agent

Signature (Electronic Submission)

Date 04/18/2025

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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

Title Petroleum Engineer

Date 05/27/2025

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

Office CARLSBAD

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

(Instructions on page 2)

Additional Information

Location of Well

0. SHL: NENW / 271 FNL / 1426 FWL / TWSP: 25S / RANGE: 35E / SECTION: 15 / LAT: 32.1368916 / LONG: -103.3593263 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 124 FNL / 1040 FWL / TWSP: 25S / RANGE: 35E / SECTION: 15 / LAT: 32.137294 / LONG: -103.3605728 (TVD: 12210 feet, MD: 12247 feet)

BHL: SWSW / 5 FSL / 1041 FWL / TWSP: 25S / RANGE: 35E / SECTION: 22 / LAT: 32.1086293 / LONG: -103.3605865 (TVD: 12597 feet, MD: 22793 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- 54745	Pool Code 17980	Pool Name DOGIE DRAW; WOLFCAMP
Property Code 337333	Property Name JUNIOR MINT FED	Well Number 215H
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	-	486' N	1409' W	N 32.1363010	W 103.3593810	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
M	22	25-S	35-E	-	5' S	1041' W	N 32.1086293	W 103.3605864	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
D	15	25-S	35-E	-	100' N	1041' W	N 32.1373639	W 103.3605716	LEA

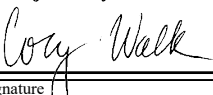
First Take Point (FTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
D	15	25-S	35-E	-	100' N	1041' W	N 32.1373639	W 103.3605716	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
M	22	25-S	35-E	-	100' S	1041' W	N 32.1088904	W 103.3605858	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 4:19:02 PM	
Signature Cory Walk		Signature and Seal of Professional Surveyor	
Date 4-16-25		Date 2/6/2025 4:19:02 PM	
Print Name cory@permitswest.com		Certificate Number	Date of Survey 01/30/2025
E-mail Address			

C-102

Submit Electronically
Via OCD PermittingState of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Revised July 9, 2024

Submittal
Type:

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

Property Name and Well Number

JUNIOR MINT FED 215H

SURFACE LOCATION (SHL)

NEW MEXICO EAST
NAD 1983
X=842810 Y=414685
LAT.: N 32.1363010
LONG.: W 103.3593810
NAD 1927
X=801623 Y=414627
LAT.: N 32.1361747
LONG.: W 103.3589160
486' FNL 1409' FWL

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

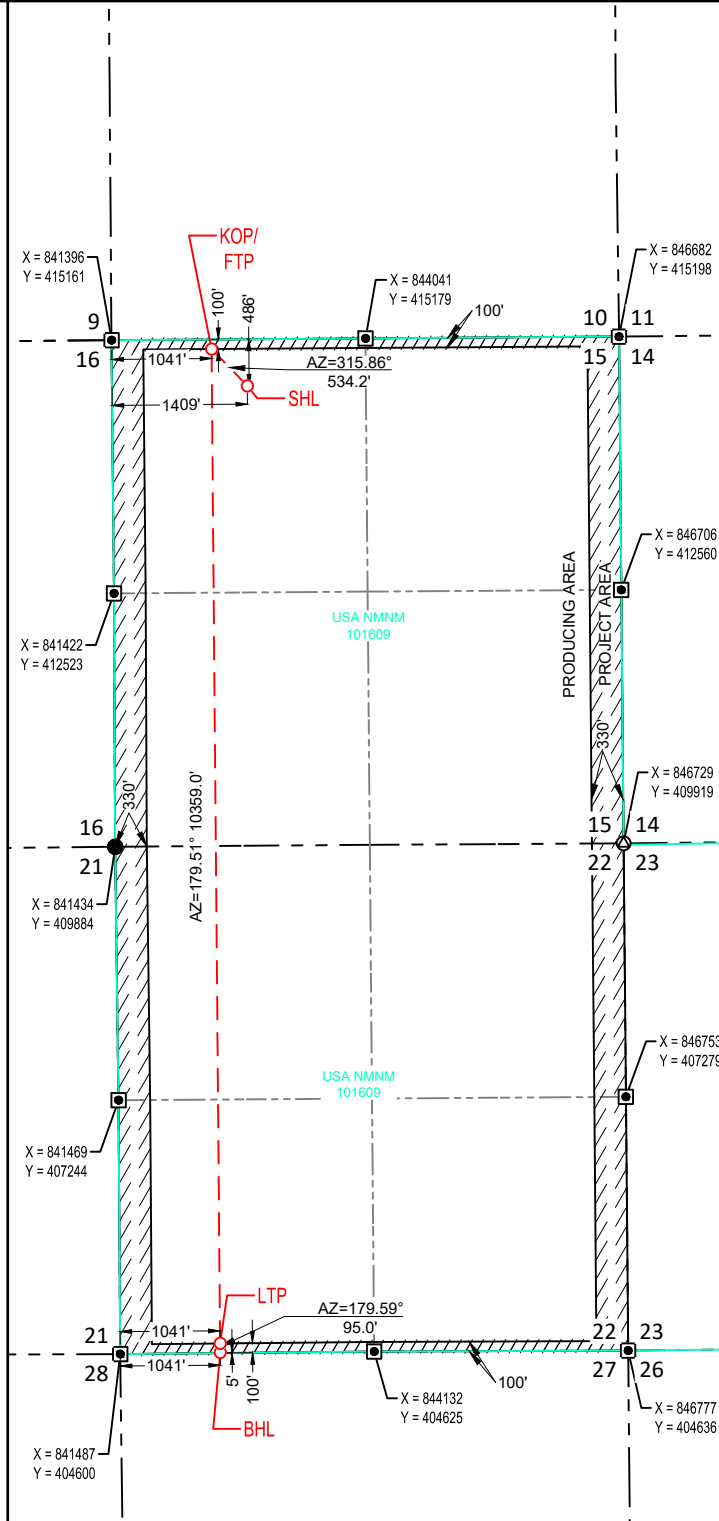
NEW MEXICO EAST
NAD 1983
X=842438 Y=415068
LAT.: N 32.1373639
LONG.: W 103.3605716
NAD 1927
X=801251 Y=415010
LAT.: N 32.1372376
LONG.: W 103.3601065
100' FNL 1041' FWL

LAST TAKE POINT (LTP)

NEW MEXICO EAST
NAD 1983
X=842527 Y=404710
LAT.: N 32.1088904
LONG.: W 103.3605858
NAD 1927
X=801340 Y=404652
LAT.: N 32.1087640
LONG.: W 103.3601222
100' FSL 1041' FWL

BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST
NAD 1983
X=842528 Y=404615
LAT.: N 32.1086293
LONG.: W 103.3605864
NAD 1927
X=801341 Y=404557
LAT.: N 32.1085029
LONG.: W 103.3601229
5' FSL 1041' 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:



2/6/2025 4:19:06 PM

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

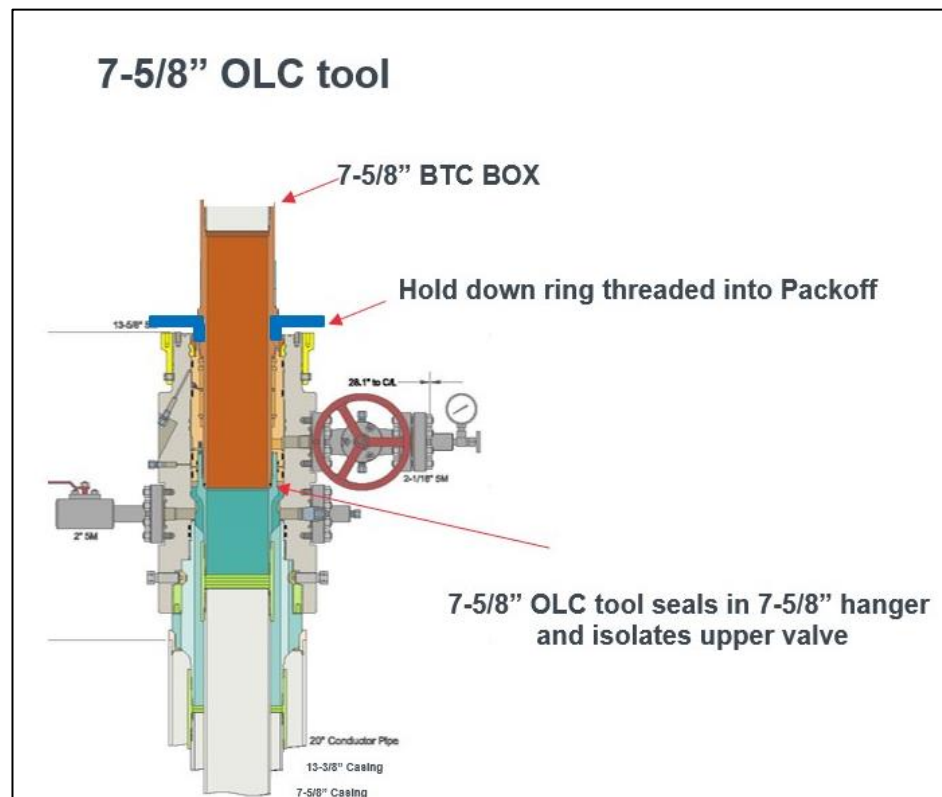


mid/base of the Brushy Canyon and stage 2 would be pumped as a standard bradenhead squeeze to the mid/base of Brushy Canyon (as described above), thus cementing the entire string. To verify the TOC of stage 2, and Echo-meter will be used and with BLM approval, top out the job as needed.

- 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 215, 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	4,924	Salt	Salt
DMG	5,160	5,197	Sandstone	None
Lamar	5,165	5,202	Sandstone	Hydrocarbons
Bell Canyon	5,185	5,222	Sandstone	Hydrocarbons
Ramsey Sand	5,205	5,244	Sandstone	Hydrocarbons
Cherry Canyon	6,150	6,189	Limestone	Hydrocarbons
Brushy Canyon	7,620	7,659	Sandstone	Hydrocarbons
Bone Spring Lime	8,930	8,969	Carbonate	Hydrocarbons
Upper Avalon	8,955	8,994	Carbonate	Hydrocarbons
Middle Avalon	9,185	9,224	Carbonate	Hydrocarbons
1st BS Sand	10,165	10,204	Sandstone	Hydrocarbons
2nd BS Carb	10,330	10,369	Carbonate	Hydrocarbons
2nd BS Sand	10,715	10,754	Sandstone	Hydrocarbons
3rd BS Carb	11,265	11,304	Carbonate	Hydrocarbons
3rd BS Sand	11,895	11,934	Sandstone	Hydrocarbons
Wolfcamp A	12,210	12,249	Sandstone	Hydrocarbons
Wolfcamp B	12,635	12,674	Sandstone	Hydrocarbons
KOP	11937	11975	Carbonate	Hydrocarbons
TD	12596	22806	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	11,875	7 5/8	API	No	0	11,875	0	11,737	P-110	29.7	BTC	1.13	1.15	1.6
Production	6 3/4	11,875	11,975	5 1/2	NON API	No	0	11,975	0	11,937	P110RYS	23	Talon	1.13	1.15	1.6
	6 3/4	11,975	22,806	5 1/2	NON API	No	11,975	22,806	11,937	12,596	P110RY	23	Talon	1.13	1.15	1.6

Cement Volumes:

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Lead	0	391	1.72	673	13.5	100%	C	Additives + LCM
	Tail	775	196	1.33	260	14.8	100%	C	Additives + LCM
Intermediate	Lead	0	1067	4.29	4578	10.5	200%	C	Contingency Bradenhead Squeeze, LCM Lead
	Tail	10875	129	1.67	215	13.2	100%	C	Additives + LCM
Production	Tail	11375	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	11,875	DBE	9.20	27-30	NC
Production	11,875	22,806	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

2/25/2025 2:25:12 PM

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

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

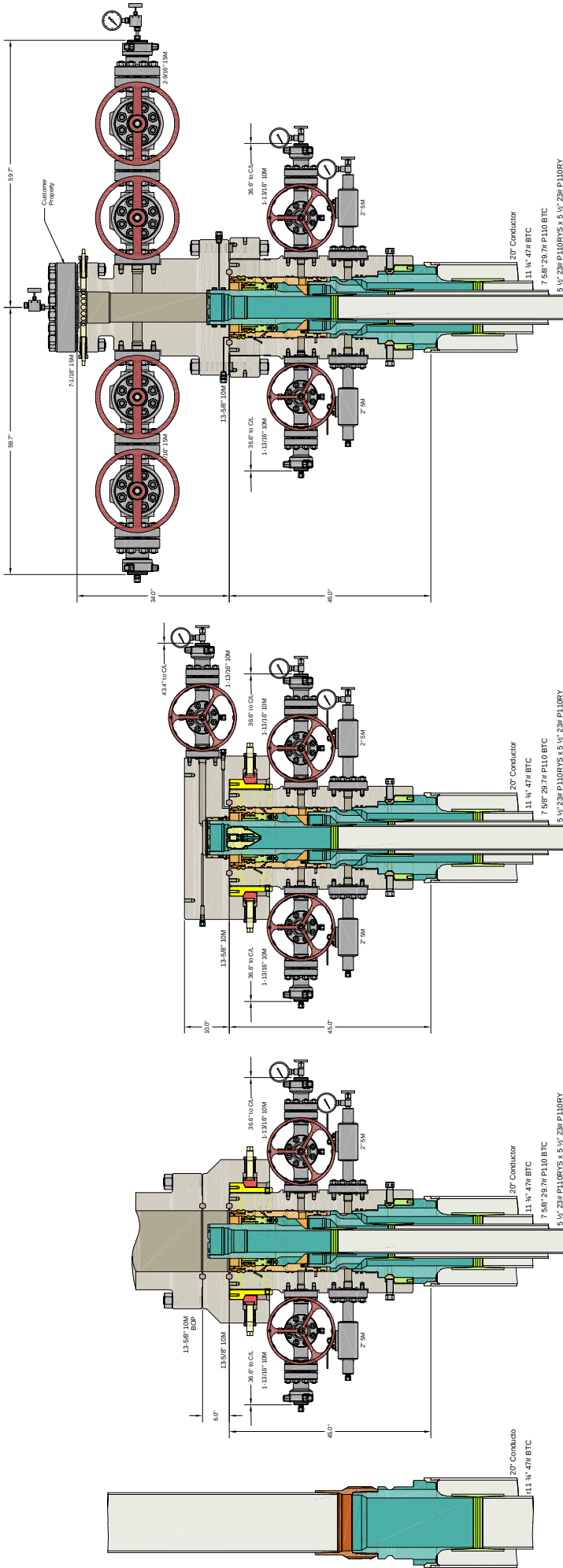
UNCONTROLLED

Notes

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

Legal Notice

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ALL DIMENSIONS APPROXIMATE

CIVITAS RESOURCES DELAWARE BASIN		DRAWING NO. REF: HBE0001444	
DRAWN	VJK	13FEB25	
APPR			

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 215H
Wellbore: OH
Design: Plan 1
Rig: 26' KB



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

Magnetic Field
Strength: 47068.1nT
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)

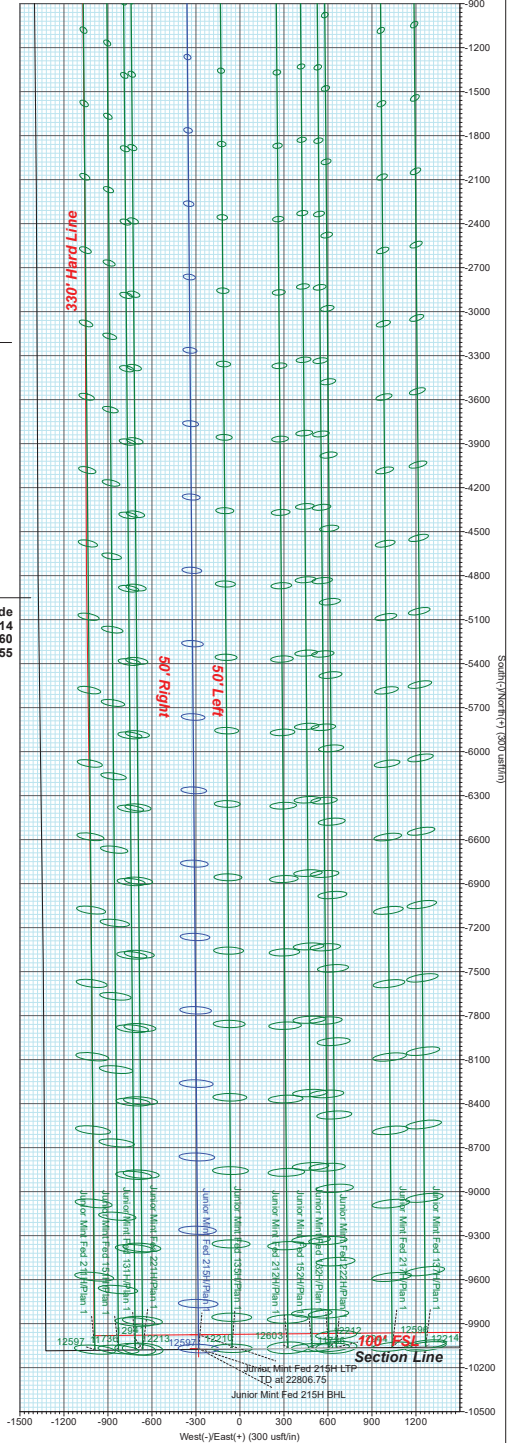
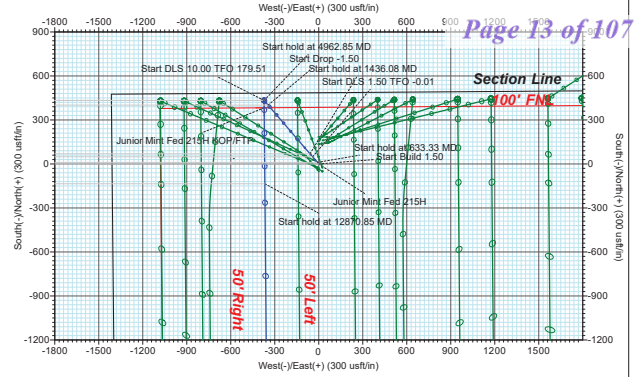
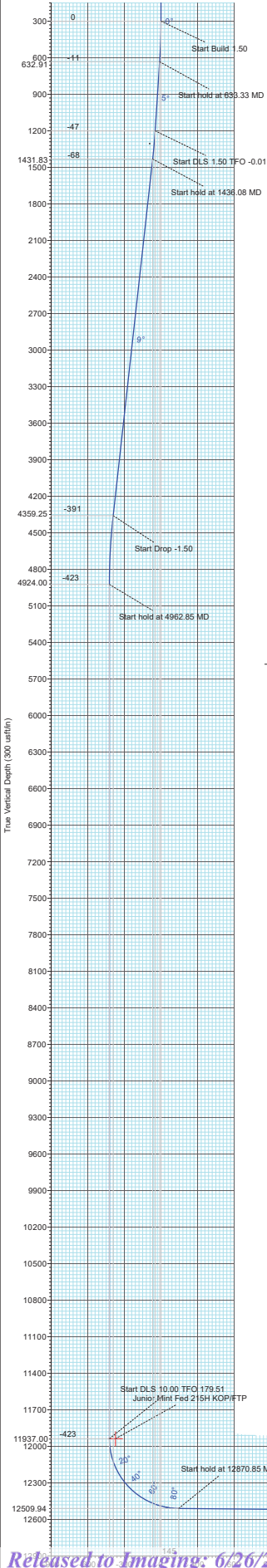
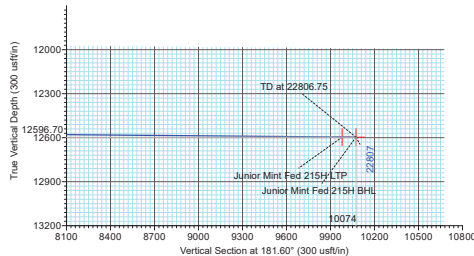
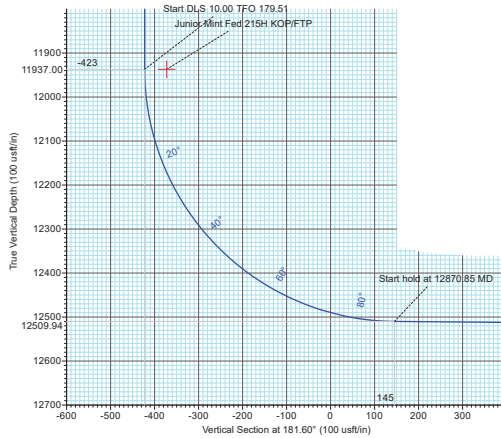
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	414685.00	842810.00	32.1363008	-103.3593809	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
633.33	5.00	319.31	632.91	11.02	-9.48	1.50	319.31	-10.75	
1202.59	5.00	319.31	1200.00	48.64	-41.82	0.00	0.00	-47.45	
1436.08	8.50	319.31	1431.83	69.45	-59.72	1.50	-0.01	-67.76	
4396.03	8.50	319.31	4389.25	401.26	-345.06	0.00	0.00	-391.47	
4962.85	0.00	0.00	4924.00	433.09	-372.43	1.50	180.00	-422.52	
11975.85	0.00	0.00	11937.00	433.09	-372.43	0.00	0.00	-422.52	
12870.85	89.50	179.51	12509.94	-134.84	-367.54	10.00	179.51	145.05	
22806.75	89.50	179.51	12596.70	-10070.00	-282.00	0.00	0.00	10073.95	

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Junior Mint Fed 215H KOP/FTP	11937.00	383.00	-372.00	415068.00	842438.00	32.1373627	-103.3605714
Junior Mint Fed 215H LTP	12596.20	-9975.00	-283.00	404710.00	842527.00	32.1088910	-103.3605860
Junior Mint Fed 215H BHL	12596.70	-10070.00	-282.00	404615.00	842528.00	32.1086298	-103.3605855



Do Not Cross SL

Civitas Resources

Lea County, NM (NAD 83)
Junior Mint Fed Pad
Junior Mint Fed 215H

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 215H
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 215H	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 215H					
Well Position	+N/-S	0.00 usft	Northing:	414,685.00 usft	Latitude:	32.1363008
	+E/-W	0.00 usft	Easting:	842,810.00 usft	Longitude:	-103.3593809
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	47,068.10000000

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	181.60	

Survey Tool Program	Date	3/24/2025			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	22,806.75	Plan 1 (OH)	MWD+HRGM+SAG+FDIF	OWSG MWD + HRGM + SAG + FDIR Correction	

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 215H
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 215H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	.Total Directional Production DB

Plan Summary

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
633.33	5.00	319.31	632.91	11.02	-9.48	1.50	1.50	0.00	319.31	
1,202.59	5.00	319.31	1,200.00	48.64	-41.82	0.00	0.00	0.00	0.00	
1,436.08	8.50	319.31	1,431.83	69.45	-59.72	1.50	1.50	0.00	-0.01	
4,396.03	8.50	319.31	4,359.25	401.26	-345.06	0.00	0.00	0.00	0.00	
4,962.85	0.00	0.00	4,924.00	433.09	-372.43	1.50	-1.50	0.00	180.00	
11,975.85	0.00	0.00	11,937.00	433.09	-372.43	0.00	0.00	0.00	0.00	
12,870.85	89.50	179.51	12,509.94	-134.84	-367.54	10.00	10.00	20.06	179.51	
22,806.75	89.50	179.51	12,596.70	-10,070.00	-282.00	0.00	0.00	0.00	0.00	

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Geo Coordinates		Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
				+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude (°)	Longitude (°)				
0.00	0.00	0.00	0.00	0.00	0.00	414,685.00	842,810.00	32.1363008	-103.3593809	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	414,685.00	842,810.00	32.1363008	-103.3593809	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	414,685.00	842,810.00	32.1363008	-103.3593809	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	414,685.00	842,810.00	32.1363008	-103.3593809	0.00	0.00	0.00	0.00
400.00	1.50	319.31	399.99	0.99	-0.85	414,685.99	842,809.15	32.1363035	-103.3593836	-0.97	1.50	1.50	0.00
500.00	3.00	319.31	499.91	3.97	-3.41	414,688.97	842,806.59	32.1363118	-103.3593918	-3.87	1.50	1.50	0.00
600.00	4.50	319.31	599.69	8.93	-7.68	414,693.93	842,802.32	32.1363255	-103.3594054	-8.71	1.50	1.50	0.00
633.33	5.00	319.31	632.91	11.02	-9.48	414,696.02	842,800.52	32.1363313	-103.3594112	-10.75	1.50	1.50	0.00
700.00	5.00	319.31	699.32	15.43	-13.26	414,700.43	842,796.74	32.1363435	-103.3594233	-15.05	0.00	0.00	0.00
800.00	5.00	319.31	798.94	22.04	-18.95	414,707.04	842,791.05	32.1363618	-103.3594414	-21.50	0.00	0.00	0.00
900.00	5.00	319.31	898.56	28.64	-24.63	414,713.64	842,785.37	32.1363801	-103.3594596	-27.95	0.00	0.00	0.00
1,000.00	5.00	319.31	998.18	35.25	-30.31	414,720.25	842,779.69	32.1363984	-103.3594778	-34.39	0.00	0.00	0.00
1,100.00	5.00	319.31	1,097.80	41.86	-35.99	414,726.86	842,774.01	32.1364167	-103.3594959	-40.84	0.00	0.00	0.00
1,202.59	5.00	319.31	1,200.00	48.64	-41.82	414,733.64	842,768.18	32.1364355	-103.3595146	-47.45	0.00	0.00	0.00
1,300.00	6.46	319.31	1,296.92	56.02	-48.16	414,741.02	842,761.84	32.1364560	-103.3595348	-54.65	1.50	1.50	0.00
1,400.00	7.96	319.31	1,396.13	65.53	-56.35	414,750.53	842,753.65	32.1364823	-103.3595610	-63.93	1.50	1.50	0.00
1,436.08	8.50	319.31	1,431.83	69.45	-59.72	414,754.45	842,750.28	32.1364932	-103.3595718	-67.76	1.50	1.50	0.00
1,500.00	8.50	319.31	1,495.05	76.62	-65.88	414,761.62	842,744.12	32.1365130	-103.3595915	-74.75	0.00	0.00	0.00
1,600.00	8.50	319.31	1,593.95	87.83	-75.52	414,772.83	842,734.48	32.1365441	-103.3596223	-85.68	0.00	0.00	0.00
1,700.00	8.50	319.31	1,692.86	99.04	-85.16	414,784.04	842,724.84	32.1365751	-103.3596531	-96.62	0.00	0.00	0.00
1,800.00	8.50	319.31	1,791.76	110.25	-94.80	414,795.25	842,715.20	32.1366062	-103.3596839	-107.56	0.00	0.00	0.00
1,900.00	8.50	319.31	1,890.66	121.46	-104.44	414,806.46	842,705.56	32.1366372	-103.3597147	-118.49	0.00	0.00	0.00
2,000.00	8.50	319.31	1,989.56	132.67	-114.08	414,817.67	842,695.92	32.1366683	-103.3597455	-129.43	0.00	0.00	0.00
2,100.00	8.50	319.31	2,088.46	143.88	-123.72	414,828.88	842,686.28	32.1366993	-103.3597763	-140.36	0.00	0.00	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 215H
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 215H	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)
2,200.00	8.50	319.31	2,187.36	155.09	-133.36	414,840.09	842,676.64	32.1367304	-103.3598071	-151.30	0.00	0.00	0.00
2,300.00	8.50	319.31	2,286.26	166.30	-143.00	414,851.30	842,667.00	32.1367614	-103.3598380	-162.24	0.00	0.00	0.00
2,400.00	8.50	319.31	2,385.16	177.51	-152.64	414,862.51	842,657.36	32.1367925	-103.3598688	-173.17	0.00	0.00	0.00
2,500.00	8.50	319.31	2,484.06	188.72	-162.28	414,873.72	842,647.72	32.1368235	-103.3598996	-184.11	0.00	0.00	0.00
2,600.00	8.50	319.31	2,582.96	199.93	-171.92	414,884.93	842,638.08	32.1368546	-103.3599304	-195.05	0.00	0.00	0.00
2,700.00	8.50	319.31	2,681.87	211.14	-181.56	414,896.14	842,628.44	32.1368856	-103.3599612	-205.98	0.00	0.00	0.00
2,800.00	8.50	319.31	2,780.77	222.35	-191.20	414,907.35	842,618.80	32.1369167	-103.3599920	-216.92	0.00	0.00	0.00
2,900.00	8.50	319.31	2,879.67	233.56	-200.84	414,918.56	842,609.16	32.1369477	-103.3600228	-227.86	0.00	0.00	0.00
3,000.00	8.50	319.31	2,978.57	244.77	-210.48	414,929.77	842,599.52	32.1369788	-103.3600536	-238.79	0.00	0.00	0.00
3,100.00	8.50	319.31	3,077.47	255.98	-220.12	414,940.98	842,589.88	32.1370098	-103.3600845	-249.73	0.00	0.00	0.00
3,200.00	8.50	319.31	3,176.37	267.19	-229.76	414,952.19	842,580.24	32.1370409	-103.3601153	-260.67	0.00	0.00	0.00
3,300.00	8.50	319.31	3,275.27	278.40	-239.40	414,963.40	842,570.60	32.1370719	-103.3601461	-271.60	0.00	0.00	0.00
3,400.00	8.50	319.31	3,374.17	289.61	-249.04	414,974.61	842,560.96	32.1371030	-103.3601769	-282.54	0.00	0.00	0.00
3,500.00	8.50	319.31	3,473.07	300.82	-258.68	414,985.82	842,551.32	32.1371340	-103.3602077	-293.48	0.00	0.00	0.00
3,600.00	8.50	319.31	3,571.97	312.03	-268.32	414,997.03	842,541.68	32.1371651	-103.3602385	-304.41	0.00	0.00	0.00
3,700.00	8.50	319.31	3,670.87	323.24	-277.96	415,008.24	842,532.04	32.1371961	-103.3602693	-315.35	0.00	0.00	0.00
3,800.00	8.50	319.31	3,769.78	334.45	-287.60	415,019.45	842,522.40	32.1372272	-103.3603002	-326.29	0.00	0.00	0.00
3,900.00	8.50	319.31	3,868.68	345.66	-297.24	415,030.66	842,512.76	32.1372582	-103.3603310	-337.22	0.00	0.00	0.00
4,000.00	8.50	319.31	3,967.58	356.87	-306.88	415,041.87	842,503.12	32.1372893	-103.3603618	-348.16	0.00	0.00	0.00
4,100.00	8.50	319.31	4,066.48	368.08	-316.52	415,053.08	842,493.48	32.1373203	-103.3603926	-359.09	0.00	0.00	0.00
4,200.00	8.50	319.31	4,165.38	379.29	-326.16	415,064.29	842,483.84	32.1373514	-103.3604234	-370.03	0.00	0.00	0.00
4,300.00	8.50	319.31	4,264.28	390.50	-335.80	415,075.50	842,474.20	32.1373824	-103.3604542	-380.97	0.00	0.00	0.00
4,396.03	8.50	319.31	4,359.25	401.26	-345.06	415,086.26	842,464.94	32.1374123	-103.3604838	-391.47	0.00	0.00	0.00
4,400.00	8.44	319.31	4,363.18	401.70	-345.44	415,086.70	842,464.56	32.1374135	-103.3604850	-391.90	1.50	-1.50	0.00
4,500.00	6.94	319.31	4,462.28	411.85	-354.17	415,096.85	842,455.83	32.1374416	-103.3605129	-401.80	1.50	-1.50	0.00
4,600.00	5.44	319.31	4,561.69	420.03	-361.20	415,105.03	842,448.80	32.1374642	-103.3605354	-409.78	1.50	-1.50	0.00
4,700.00	3.94	319.31	4,661.35	426.24	-366.54	415,111.24	842,443.46	32.1374814	-103.3605525	-415.84	1.50	-1.50	0.00
4,800.00	2.44	319.31	4,761.20	430.46	-370.17	415,115.46	842,439.83	32.1374931	-103.3605641	-419.95	1.50	-1.50	0.00
4,900.00	0.94	319.31	4,861.15	432.70	-372.09	415,117.70	842,437.91	32.1374993	-103.3605702	-422.14	1.50	-1.50	0.00
4,962.85	0.00	0.00	4,924.00	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	1.50	-1.50	0.00
5,000.00	0.00	0.00	4,961.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
5,100.00	0.00	0.00	5,061.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
5,200.00	0.00	0.00	5,161.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
5,300.00	0.00	0.00	5,261.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
5,400.00	0.00	0.00	5,361.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
5,500.00	0.00	0.00	5,461.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
5,600.00	0.00	0.00	5,561.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 215H
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 215H	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)
5,700.00	0.00	0.00	5,661.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
5,800.00	0.00	0.00	5,761.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
5,900.00	0.00	0.00	5,861.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
6,000.00	0.00	0.00	5,961.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
6,100.00	0.00	0.00	6,061.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
6,200.00	0.00	0.00	6,161.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
6,300.00	0.00	0.00	6,261.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
6,400.00	0.00	0.00	6,361.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
6,500.00	0.00	0.00	6,461.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
6,600.00	0.00	0.00	6,561.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
6,700.00	0.00	0.00	6,661.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
6,800.00	0.00	0.00	6,761.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
6,900.00	0.00	0.00	6,861.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
7,000.00	0.00	0.00	6,961.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
7,100.00	0.00	0.00	7,061.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
7,200.00	0.00	0.00	7,161.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
7,300.00	0.00	0.00	7,261.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
7,400.00	0.00	0.00	7,361.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
7,500.00	0.00	0.00	7,461.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
7,600.00	0.00	0.00	7,561.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
7,700.00	0.00	0.00	7,661.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
7,800.00	0.00	0.00	7,761.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
7,900.00	0.00	0.00	7,861.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
8,000.00	0.00	0.00	7,961.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
8,100.00	0.00	0.00	8,061.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
8,200.00	0.00	0.00	8,161.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
8,300.00	0.00	0.00	8,261.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
8,400.00	0.00	0.00	8,361.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
8,500.00	0.00	0.00	8,461.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
8,600.00	0.00	0.00	8,561.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
8,700.00	0.00	0.00	8,661.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
8,800.00	0.00	0.00	8,761.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
8,900.00	0.00	0.00	8,861.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
9,000.00	0.00	0.00	8,961.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
9,100.00	0.00	0.00	9,061.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
9,200.00	0.00	0.00	9,161.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
9,300.00	0.00	0.00	9,261.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
9,400.00	0.00	0.00	9,361.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 215H
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 215H	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)
9,500.00	0.00	0.00	9,461.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
9,600.00	0.00	0.00	9,561.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
9,700.00	0.00	0.00	9,661.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
9,800.00	0.00	0.00	9,761.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
9,900.00	0.00	0.00	9,861.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
10,000.00	0.00	0.00	9,961.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
10,100.00	0.00	0.00	10,061.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
10,200.00	0.00	0.00	10,161.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
10,300.00	0.00	0.00	10,261.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
10,400.00	0.00	0.00	10,361.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
10,500.00	0.00	0.00	10,461.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
10,600.00	0.00	0.00	10,561.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
10,700.00	0.00	0.00	10,661.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
10,800.00	0.00	0.00	10,761.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
10,900.00	0.00	0.00	10,861.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
11,000.00	0.00	0.00	10,961.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
11,100.00	0.00	0.00	11,061.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
11,200.00	0.00	0.00	11,161.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
11,300.00	0.00	0.00	11,261.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
11,400.00	0.00	0.00	11,361.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
11,500.00	0.00	0.00	11,461.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
11,600.00	0.00	0.00	11,561.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
11,700.00	0.00	0.00	11,661.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
11,800.00	0.00	0.00	11,761.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
11,900.00	0.00	0.00	11,861.15	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
11,975.85	0.00	0.00	11,937.00	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	0.00	0.00	0.00
11,976.91	0.11	179.51	11,938.06	433.09	-372.43	415,118.09	842,437.57	32.1375004	-103.3605713	-422.52	10.00	10.00	0.00
Junior Mint Fed 215H KOP/FTP													
12,000.00	2.41	179.51	11,961.14	432.58	-372.43	415,117.58	842,437.57	32.1374990	-103.3605713	-422.01	10.00	10.00	0.00
12,050.00	7.41	179.51	12,010.94	428.30	-372.39	415,113.30	842,437.61	32.1374872	-103.3605713	-417.73	10.00	10.00	0.00
12,100.00	12.41	179.51	12,060.18	419.69	-372.31	415,104.69	842,437.69	32.1374636	-103.3605713	-409.13	10.00	10.00	0.00
12,150.00	17.41	179.51	12,108.48	406.83	-372.20	415,091.83	842,437.80	32.1374282	-103.3605713	-396.28	10.00	10.00	0.00
12,200.00	22.41	179.51	12,155.47	389.80	-372.06	415,074.80	842,437.94	32.1373814	-103.3605714	-379.26	10.00	10.00	0.00
12,250.00	27.41	179.51	12,200.81	368.75	-371.88	415,053.75	842,438.12	32.1373236	-103.3605714	-358.22	10.00	10.00	0.00
12,300.00	32.41	179.51	12,244.13	343.82	-371.66	415,028.82	842,438.34	32.1372550	-103.3605714	-333.31	10.00	10.00	0.00
12,350.00	37.41	179.51	12,285.12	315.21	-371.42	415,000.21	842,438.58	32.1371764	-103.3605715	-304.72	10.00	10.00	0.00
12,400.00	42.41	179.51	12,323.46	283.14	-371.14	414,968.14	842,438.86	32.1370882	-103.3605715	-272.67	10.00	10.00	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 215H
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 215H	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)
12,450.00	47.41	179.51	12,358.85	247.85	-370.84	414,932.85	842,439.16	32.1369912	-103.3605715	-237.40	10.00	10.00	0.00
12,500.00	52.41	179.51	12,391.04	209.61	-370.51	414,894.61	842,439.49	32.1368861	-103.3605716	-199.18	10.00	10.00	0.00
12,550.00	57.41	179.51	12,419.77	168.71	-370.15	414,853.71	842,439.85	32.1367737	-103.3605717	-158.31	10.00	10.00	0.00
12,600.00	62.41	179.51	12,444.83	125.46	-369.78	414,810.46	842,440.22	32.1366548	-103.3605717	-115.09	10.00	10.00	0.00
12,650.00	67.41	179.51	12,466.02	80.19	-369.39	414,765.19	842,440.61	32.1365304	-103.3605718	-69.85	10.00	10.00	0.00
12,700.00	72.41	179.51	12,483.18	33.25	-368.99	414,718.25	842,441.01	32.1364014	-103.3605718	-22.94	10.00	10.00	0.00
12,750.00	77.41	179.51	12,496.19	-15.01	-368.57	414,669.99	842,441.43	32.1362687	-103.3605719	25.29	10.00	10.00	0.00
12,800.00	82.41	179.51	12,504.94	-64.22	-368.15	414,620.78	842,441.85	32.1361334	-103.3605720	74.47	10.00	10.00	0.00
12,850.00	87.41	179.51	12,509.37	-114.00	-367.72	414,571.00	842,442.28	32.1359966	-103.3605720	124.23	10.00	10.00	0.00
12,870.85	89.50	179.51	12,509.94	-134.84	-367.54	414,550.16	842,442.46	32.1359393	-103.3605721	145.05	10.00	10.00	0.00
12,900.00	89.50	179.51	12,510.19	-163.99	-367.29	414,521.01	842,442.71	32.1358592	-103.3605721	174.18	0.00	0.00	0.00
13,000.00	89.50	179.51	12,511.06	-263.98	-366.43	414,421.02	842,443.57	32.1355843	-103.3605722	274.11	0.00	0.00	0.00
13,100.00	89.50	179.51	12,511.94	-363.98	-365.57	414,321.02	842,444.43	32.1353095	-103.3605724	374.04	0.00	0.00	0.00
13,200.00	89.50	179.51	12,512.81	-463.97	-364.71	414,221.03	842,445.29	32.1350346	-103.3605725	473.97	0.00	0.00	0.00
13,300.00	89.50	179.51	12,513.68	-563.96	-363.85	414,121.04	842,446.15	32.1347598	-103.3605727	573.90	0.00	0.00	0.00
13,400.00	89.50	179.51	12,514.56	-663.95	-362.98	414,021.05	842,447.02	32.1344849	-103.3605728	673.83	0.00	0.00	0.00
13,500.00	89.50	179.51	12,515.43	-763.95	-362.12	413,921.05	842,447.88	32.1342100	-103.3605729	773.76	0.00	0.00	0.00
13,600.00	89.50	179.51	12,516.30	-863.94	-361.26	413,821.06	842,448.74	32.1339352	-103.3605731	873.69	0.00	0.00	0.00
13,700.00	89.50	179.51	12,517.18	-963.93	-360.40	413,721.07	842,449.60	32.1336603	-103.3605732	973.62	0.00	0.00	0.00
13,800.00	89.50	179.51	12,518.05	-1,063.92	-359.54	413,621.08	842,450.46	32.1333855	-103.3605733	1,073.55	0.00	0.00	0.00
13,900.00	89.50	179.51	12,518.92	-1,163.92	-358.68	413,521.08	842,451.32	32.1331106	-103.3605735	1,173.48	0.00	0.00	0.00
14,000.00	89.50	179.51	12,519.80	-1,263.91	-357.82	413,421.09	842,452.18	32.1328358	-103.3605736	1,273.41	0.00	0.00	0.00
14,100.00	89.50	179.51	12,520.67	-1,363.90	-356.96	413,321.10	842,453.04	32.1325609	-103.3605737	1,373.34	0.00	0.00	0.00
14,200.00	89.50	179.51	12,521.54	-1,463.89	-356.10	413,221.11	842,453.90	32.1322861	-103.3605739	1,473.27	0.00	0.00	0.00
14,300.00	89.50	179.51	12,522.42	-1,563.89	-355.24	413,121.11	842,454.76	32.1320112	-103.3605740	1,573.20	0.00	0.00	0.00
14,400.00	89.50	179.51	12,523.29	-1,663.88	-354.38	413,021.12	842,455.62	32.1317363	-103.3605742	1,673.13	0.00	0.00	0.00
14,500.00	89.50	179.51	12,524.16	-1,763.87	-353.51	412,921.13	842,456.49	32.1314615	-103.3605743	1,773.05	0.00	0.00	0.00
14,600.00	89.50	179.51	12,525.04	-1,863.86	-352.65	412,821.14	842,457.35	32.1311866	-103.3605744	1,872.98	0.00	0.00	0.00
14,700.00	89.50	179.51	12,525.91	-1,963.86	-351.79	412,721.14	842,458.21	32.1309118	-103.3605746	1,972.91	0.00	0.00	0.00
14,800.00	89.50	179.51	12,526.78	-2,063.85	-350.93	412,621.15	842,459.07	32.1306369	-103.3605747	2,072.84	0.00	0.00	0.00
14,900.00	89.50	179.51	12,527.66	-2,163.84	-350.07	412,521.16	842,459.93	32.1303621	-103.3605748	2,172.77	0.00	0.00	0.00
15,000.00	89.50	179.51	12,528.53	-2,263.83	-349.21	412,421.17	842,460.79	32.1300872	-103.3605750	2,272.70	0.00	0.00	0.00
15,100.00	89.50	179.51	12,529.40	-2,363.83	-348.35	412,321.17	842,461.65	32.1298124	-103.3605751	2,372.63	0.00	0.00	0.00
15,200.00	89.50	179.51	12,530.28	-2,463.82	-347.49	412,221.18	842,462.51	32.1295375	-103.3605752	2,472.56	0.00	0.00	0.00
15,300.00	89.50	179.51	12,531.15	-2,563.81	-346.63	412,121.19	842,463.37	32.1292626	-103.3605754	2,572.49	0.00	0.00	0.00
15,400.00	89.50	179.51	12,532.02	-2,663.80	-345.77	412,021.20	842,464.23	32.1289878	-103.3605755	2,672.42	0.00	0.00	0.00
15,500.00	89.50	179.51	12,532.89	-2,763.80	-344.91	411,921.20	842,465.09	32.1287129	-103.3605756	2,772.35	0.00	0.00	0.00
15,600.00	89.50	179.51	12,533.77	-2,863.79	-344.04	411,821.21	842,465.96	32.1284381	-103.3605758	2,872.28	0.00	0.00	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 215H
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 215H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,700.00	89.50	179.51	12,534.64	-2,963.78	-343.18	411,721.22	842,466.82	32.1281632	-103.3605759	2,972.21	0.00	0.00	0.00
15,800.00	89.50	179.51	12,535.51	-3,063.77	-342.32	411,621.23	842,467.68	32.1278884	-103.3605761	3,072.14	0.00	0.00	0.00
15,900.00	89.50	179.51	12,536.39	-3,163.77	-341.46	411,521.23	842,468.54	32.1276135	-103.3605762	3,172.07	0.00	0.00	0.00
16,000.00	89.50	179.51	12,537.26	-3,263.76	-340.60	411,421.24	842,469.40	32.1273387	-103.3605763	3,272.00	0.00	0.00	0.00
16,100.00	89.50	179.51	12,538.13	-3,363.75	-339.74	411,321.25	842,470.26	32.1270638	-103.3605765	3,371.93	0.00	0.00	0.00
16,200.00	89.50	179.51	12,539.01	-3,463.74	-338.88	411,221.26	842,471.12	32.1267889	-103.3605766	3,471.86	0.00	0.00	0.00
16,300.00	89.50	179.51	12,539.88	-3,563.74	-338.02	411,121.26	842,471.98	32.1265141	-103.3605767	3,571.78	0.00	0.00	0.00
16,400.00	89.50	179.51	12,540.75	-3,663.73	-337.16	411,021.27	842,472.84	32.1262392	-103.3605769	3,671.71	0.00	0.00	0.00
16,500.00	89.50	179.51	12,541.63	-3,763.72	-336.30	410,921.28	842,473.70	32.1259644	-103.3605770	3,771.64	0.00	0.00	0.00
16,600.00	89.50	179.51	12,542.50	-3,863.71	-335.44	410,821.29	842,474.56	32.1256895	-103.3605771	3,871.57	0.00	0.00	0.00
16,700.00	89.50	179.51	12,543.37	-3,963.71	-334.57	410,721.29	842,475.43	32.1254147	-103.3605773	3,971.50	0.00	0.00	0.00
16,800.00	89.50	179.51	12,544.25	-4,063.70	-333.71	410,621.30	842,476.29	32.1251398	-103.3605774	4,071.43	0.00	0.00	0.00
16,900.00	89.50	179.51	12,545.12	-4,163.69	-332.85	410,521.31	842,477.15	32.1248649	-103.3605775	4,171.36	0.00	0.00	0.00
17,000.00	89.50	179.51	12,545.99	-4,263.68	-331.99	410,421.32	842,478.01	32.1245901	-103.3605777	4,271.29	0.00	0.00	0.00
17,100.00	89.50	179.51	12,546.87	-4,363.68	-331.13	410,321.32	842,478.87	32.1243152	-103.3605778	4,371.22	0.00	0.00	0.00
17,200.00	89.50	179.51	12,547.74	-4,463.67	-330.27	410,221.33	842,479.73	32.1240404	-103.3605780	4,471.15	0.00	0.00	0.00
17,300.00	89.50	179.51	12,548.61	-4,563.66	-329.41	410,121.34	842,480.59	32.1237655	-103.3605781	4,571.08	0.00	0.00	0.00
17,400.00	89.50	179.51	12,549.49	-4,663.65	-328.55	410,021.35	842,481.45	32.1234907	-103.3605782	4,671.01	0.00	0.00	0.00
17,500.00	89.50	179.51	12,550.36	-4,763.65	-327.69	409,921.35	842,482.31	32.1232158	-103.3605784	4,770.94	0.00	0.00	0.00
17,600.00	89.50	179.51	12,551.23	-4,863.64	-326.83	409,821.36	842,483.17	32.1229410	-103.3605785	4,870.87	0.00	0.00	0.00
17,700.00	89.50	179.51	12,552.11	-4,963.63	-325.97	409,721.37	842,484.03	32.1226661	-103.3605786	4,970.80	0.00	0.00	0.00
17,800.00	89.50	179.51	12,552.98	-5,063.62	-325.10	409,621.38	842,484.90	32.1223912	-103.3605788	5,070.73	0.00	0.00	0.00
17,900.00	89.50	179.51	12,553.85	-5,163.62	-324.24	409,521.38	842,485.76	32.1221164	-103.3605789	5,170.66	0.00	0.00	0.00
18,000.00	89.50	179.51	12,554.73	-5,263.61	-323.38	409,421.39	842,486.62	32.1218415	-103.3605790	5,270.59	0.00	0.00	0.00
18,100.00	89.50	179.51	12,555.60	-5,363.60	-322.52	409,321.40	842,487.48	32.1215667	-103.3605792	5,370.52	0.00	0.00	0.00
18,200.00	89.50	179.51	12,556.47	-5,463.59	-321.66	409,221.41	842,488.34	32.1212918	-103.3605793	5,470.44	0.00	0.00	0.00
18,300.00	89.50	179.51	12,557.35	-5,563.59	-320.80	409,121.41	842,489.20	32.1210170	-103.3605794	5,570.37	0.00	0.00	0.00
18,400.00	89.50	179.51	12,558.22	-5,663.58	-319.94	409,021.42	842,490.06	32.1207421	-103.3605796	5,670.30	0.00	0.00	0.00
18,500.00	89.50	179.51	12,559.09	-5,763.57	-319.08	408,921.43	842,490.92	32.1204673	-103.3605797	5,770.23	0.00	0.00	0.00
18,600.00	89.50	179.51	12,559.97	-5,863.56	-318.22	408,821.44	842,491.78	32.1201924	-103.3605798	5,870.16	0.00	0.00	0.00
18,700.00	89.50	179.51	12,560.84	-5,963.56	-317.36	408,721.44	842,492.64	32.1199175	-103.3605800	5,970.09	0.00	0.00	0.00
18,800.00	89.50	179.51	12,561.71	-6,063.55	-316.49	408,621.45	842,493.51	32.1196427	-103.3605801	6,070.02	0.00	0.00	0.00
18,900.00	89.50	179.51	12,562.59	-6,163.54	-315.63	408,521.46	842,494.37	32.1193678	-103.3605802	6,169.95	0.00	0.00	0.00
19,000.00	89.50	179.51	12,563.46	-6,263.53	-314.77	408,421.47	842,495.23	32.1190930	-103.3605804	6,269.88	0.00	0.00	0.00
19,100.00	89.50	179.51	12,564.33	-6,363.53	-313.91	408,321.47	842,496.09	32.1188181	-103.3605805	6,369.81	0.00	0.00	0.00
19,200.00	89.50	179.51	12,565.20	-6,463.52	-313.05	408,221.48	842,496.95	32.1185433	-103.3605807	6,469.74	0.00	0.00	0.00
19,300.00	89.50	179.51	12,566.08	-6,563.51	-312.19	408,121.49	842,497.81	32.1182684	-103.3605808	6,569.67	0.00	0.00	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 215H
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 215H	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)
19,400.00	89.50	179.51	12,566.95	-6,663.50	-311.33	408,021.50	842,498.67	32.1179935	-103.3605809	6,669.60	0.00	0.00	0.00
19,500.00	89.50	179.51	12,567.82	-6,763.50	-310.47	407,921.50	842,499.53	32.1177187	-103.3605811	6,769.53	0.00	0.00	0.00
19,600.00	89.50	179.51	12,568.70	-6,863.49	-309.61	407,821.51	842,500.39	32.1174438	-103.3605812	6,869.46	0.00	0.00	0.00
19,700.00	89.50	179.51	12,569.57	-6,963.48	-308.75	407,721.52	842,501.25	32.1171690	-103.3605813	6,969.39	0.00	0.00	0.00
19,800.00	89.50	179.51	12,570.44	-7,063.47	-307.89	407,621.53	842,502.11	32.1168941	-103.3605815	7,069.32	0.00	0.00	0.00
19,900.00	89.50	179.51	12,571.32	-7,163.47	-307.02	407,521.53	842,502.98	32.1166193	-103.3605816	7,169.25	0.00	0.00	0.00
20,000.00	89.50	179.51	12,572.19	-7,263.46	-306.16	407,421.54	842,503.84	32.1163444	-103.3605817	7,269.17	0.00	0.00	0.00
20,100.00	89.50	179.51	12,573.06	-7,363.45	-305.30	407,321.55	842,504.70	32.1160696	-103.3605819	7,369.10	0.00	0.00	0.00
20,200.00	89.50	179.51	12,573.94	-7,463.44	-304.44	407,221.56	842,505.56	32.1157947	-103.3605820	7,469.03	0.00	0.00	0.00
20,300.00	89.50	179.51	12,574.81	-7,563.44	-303.58	407,121.56	842,506.42	32.1155198	-103.3605821	7,568.96	0.00	0.00	0.00
20,400.00	89.50	179.51	12,575.68	-7,663.43	-302.72	407,021.57	842,507.28	32.1152450	-103.3605823	7,668.89	0.00	0.00	0.00
20,500.00	89.50	179.51	12,576.56	-7,763.42	-301.86	406,921.58	842,508.14	32.1149701	-103.3605824	7,768.82	0.00	0.00	0.00
20,600.00	89.50	179.51	12,577.43	-7,863.41	-301.00	406,821.59	842,509.00	32.1146953	-103.3605825	7,868.75	0.00	0.00	0.00
20,700.00	89.50	179.51	12,578.30	-7,963.41	-300.14	406,721.59	842,509.86	32.1144204	-103.3605827	7,968.68	0.00	0.00	0.00
20,800.00	89.50	179.51	12,579.18	-8,063.40	-299.28	406,621.60	842,510.72	32.1141456	-103.3605828	8,068.61	0.00	0.00	0.00
20,900.00	89.50	179.51	12,580.05	-8,163.39	-298.42	406,521.61	842,511.58	32.1138707	-103.3605829	8,168.54	0.00	0.00	0.00
21,000.00	89.50	179.51	12,580.92	-8,263.38	-297.55	406,421.62	842,512.45	32.1135958	-103.3605831	8,268.47	0.00	0.00	0.00
21,100.00	89.50	179.51	12,581.80	-8,363.38	-296.69	406,321.62	842,513.31	32.1133210	-103.3605832	8,368.40	0.00	0.00	0.00
21,200.00	89.50	179.51	12,582.67	-8,463.37	-295.83	406,221.63	842,514.17	32.1130461	-103.3605833	8,468.33	0.00	0.00	0.00
21,300.00	89.50	179.51	12,583.54	-8,563.36	-294.97	406,121.64	842,515.03	32.1127713	-103.3605835	8,568.26	0.00	0.00	0.00
21,400.00	89.50	179.51	12,584.42	-8,663.35	-294.11	406,021.65	842,515.89	32.1124964	-103.3605836	8,668.19	0.00	0.00	0.00
21,500.00	89.50	179.51	12,585.29	-8,763.35	-293.25	405,921.65	842,516.75	32.1122216	-103.3605837	8,768.12	0.00	0.00	0.00
21,600.00	89.50	179.51	12,586.16	-8,863.34	-292.39	405,821.66	842,517.61	32.1119467	-103.3605839	8,868.05	0.00	0.00	0.00
21,700.00	89.50	179.51	12,587.04	-8,963.33	-291.53	405,721.67	842,518.47	32.1116719	-103.3605840	8,967.98	0.00	0.00	0.00
21,800.00	89.50	179.51	12,587.91	-9,063.32	-290.67	405,621.68	842,519.33	32.1113970	-103.3605842	9,067.91	0.00	0.00	0.00
21,900.00	89.50	179.51	12,588.78	-9,163.32	-289.81	405,521.68	842,520.19	32.1111221	-103.3605843	9,167.83	0.00	0.00	0.00
22,000.00	89.50	179.51	12,589.66	-9,263.31	-288.95	405,421.69	842,521.05	32.1108473	-103.3605844	9,267.76	0.00	0.00	0.00
22,100.00	89.50	179.51	12,590.53	-9,363.30	-288.08	405,321.70	842,521.92	32.1105724	-103.3605846	9,367.69	0.00	0.00	0.00
22,200.00	89.50	179.51	12,591.40	-9,463.29	-287.22	405,221.71	842,522.78	32.1102976	-103.3605847	9,467.62	0.00	0.00	0.00
22,300.00	89.50	179.51	12,592.28	-9,563.29	-286.36	405,121.71	842,523.64	32.1100227	-103.3605848	9,567.55	0.00	0.00	0.00
22,400.00	89.50	179.51	12,593.15	-9,663.28	-285.50	405,021.72	842,524.50	32.1097479	-103.3605850	9,667.48	0.00	0.00	0.00
22,500.00	89.50	179.51	12,594.02	-9,763.27	-284.64	404,921.73	842,525.36	32.1094730	-103.3605851	9,767.41	0.00	0.00	0.00
22,600.00	89.50	179.51	12,594.89	-9,863.26	-283.78	404,821.74	842,526.22	32.1091981	-103.3605852	9,867.34	0.00	0.00	0.00
22,700.00	89.50	179.51	12,595.77	-9,963.26	-282.92	404,721.74	842,527.08	32.1089233	-103.3605854	9,967.27	0.00	0.00	0.00
Junior Mint Fed 215H LTP													
22,806.75	89.50	179.51	12,596.70	-10,070.00	-282.00	404,615.00	842,528.00	32.1086299	-103.3605855	10,073.95	0.00	0.00	0.00
Junior Mint Fed 215H BHL													

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 215H
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 215H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	.Total Directional Production DB

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Junior Mint Fed 215H - plan misses target center by 50.09usft at 11975.90usft MD (11937.05 TVD, 433.09 N, -372.43 E) - Point	0.00	0.00	11,937.00	383.00	-372.00	415,068.00	842,438.00	32.1373627	-103.3605714
Junior Mint Fed 215H - plan misses target center by 11.75usft at 22700.00usft MD (12595.77 TVD, -9963.26 N, -282.92 E) - Point	0.00	0.00	12,596.20	-9,975.00	-283.00	404,710.00	842,527.00	32.1088910	-103.3605860
Junior Mint Fed 215H - plan hits target center - Point	0.00	0.00	12,596.70	-10,070.00	-282.00	404,615.00	842,528.00	32.1086299	-103.3605855

Checked By: _____	Approved By: _____	Date: _____
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Civitas Resources

Lea County, NM (NAD 83)
Junior Mint Fed Pad
Junior Mint Fed 215H

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 215H
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 215H	Survey Calculation Method:	Minimum 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 215H					
Well Position	+N/-S	0.00 usft	Northing:	414,685.00 usft	Latitude:	32.1363008
	+E/-W	0.00 usft	Easting:	842,810.00 usft	Longitude:	-103.3593809
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	22,806.75	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 212H -	3,220.00	3,246.00	414,845.00	842,810.00	32.1367406	-103.3593762	0.00	0.50
Junior Mint Fed 213H -	3,222.00	3,248.00	415,701.00	845,154.00	32.1390348	-103.3517793	0.00	0.50
Junior Mint Fed 214H -	3,220.00	3,246.00	415,541.00	845,154.00	32.1385951	-103.3517840	0.00	0.50
Junior Mint Fed 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 215H
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 215H	Survey Calculation Method:	Minimum 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	300.00	301.00	55.90	51.94	14.10	CC, ES
Junior Mint Fed 131H - OH - Plan 1	22,806.75	22,485.80	578.14	355.17	2.59	SF
Junior Mint Fed 132H - OH - Plan 1	948.83	943.43	118.05	110.60	15.85	CC, ES
Junior Mint Fed 132H - OH - Plan 1	22,806.75	22,428.60	967.58	706.54	3.71	SF
Junior Mint Fed 133H - OH - Plan 1	11,836.34	11,869.67	2,287.43	2,253.30	67.02	CC
Junior Mint Fed 133H - OH - Plan 1	22,806.75	22,381.08	2,314.91	2,028.75	8.09	ES, SF
Junior Mint Fed 134H - OH - Plan 1	300.00	301.00	2,480.71	2,476.74	625.53	CC
Junior Mint Fed 134H - OH - Plan 1	400.00	400.99	2,481.16	2,476.48	531.21	ES
Junior Mint Fed 134H - OH - Plan 1	1,500.00	1,534.87	2,515.75	2,506.26	265.05	SF
Junior Mint Fed 135H - OH - Plan 1	300.00	300.00	35.36	31.39	8.92	CC, ES
Junior Mint Fed 135H - OH - Plan 1	22,806.75	22,411.61	448.48	278.98	2.65	SF
Junior Mint Fed 137H - OH - Plan 1	626.56	619.64	159.90	153.92	26.74	CC, ES
Junior Mint Fed 137H - OH - Plan 1	22,806.75	22,512.90	1,594.80	1,320.29	5.81	SF
Junior Mint Fed 138H - OH - Plan 1	300.00	300.00	2,471.94	2,467.98	623.86	CC, ES
Junior Mint Fed 138H - OH - Plan 1	1,100.00	983.57	2,517.88	2,510.12	324.38	SF
Junior Mint Fed 151H - OH - Plan 1	300.00	301.00	25.00	21.03	6.30	CC, ES
Junior Mint Fed 151H - OH - Plan 1	1,300.00	1,304.03	39.02	29.77	4.22	SF
Junior Mint Fed 152H - OH - Plan 1	418.79	415.00	186.66	181.82	38.53	CC
Junior Mint Fed 152H - OH - Plan 1	600.00	589.61	187.21	181.24	31.35	ES
Junior Mint Fed 152H - OH - Plan 1	22,806.75	21,935.47	1,157.55	952.54	5.65	SF
Junior Mint Fed 156H - OH - Plan 1	3,547.75	3,784.10	2,362.28	2,342.43	118.96	CC
Junior Mint Fed 156H - OH - Plan 1	3,600.00	3,822.60	2,362.41	2,342.35	117.73	ES
Junior Mint Fed 156H - OH - Plan 1	12,100.00	11,700.00	2,502.92	2,467.13	69.93	SF
Junior Mint Fed 158H - OH - Plan 1	300.00	300.00	2,463.40	2,459.43	621.71	CC, ES
Junior Mint Fed 158H - OH - Plan 1	1,200.00	1,097.17	2,514.22	2,506.00	305.74	SF
Junior Mint Fed 211H - OH - Plan 1	301.04	302.05	25.00	21.03	6.29	CC
Junior Mint Fed 211H - OH - Plan 1	400.00	401.25	25.48	20.76	5.40	ES
Junior Mint Fed 211H - OH - Plan 1	22,806.75	22,896.36	707.03	428.45	2.54	SF
Junior Mint Fed 212H - OH - Plan 1	1,637.09	1,630.63	104.32	94.26	10.37	CC, ES
Junior Mint Fed 212H - OH - Plan 1	22,806.75	22,796.26	609.06	328.83	2.17	SF
Junior Mint Fed 213H - OH - Plan 1	11,900.00	11,976.62	1,935.04	1,900.23	55.60	CC
Junior Mint Fed 213H - OH - Plan 1	22,806.75	22,823.46	1,941.19	1,650.55	6.68	ES, SF
Junior Mint Fed 214H - OH - Plan 1	300.00	300.00	2,495.41	2,491.45	629.79	CC, ES
Junior Mint Fed 214H - OH - Plan 1	700.00	597.98	2,512.69	2,506.65	415.85	SF
Junior Mint Fed 216H - OH - Plan 1						Out of range
Junior Mint Fed 217H - OH - Plan 1	1,369.53	1,361.58	141.93	132.90	15.73	CC
Junior Mint Fed 217H - OH - Plan 1	1,400.00	1,391.42	142.02	132.89	15.56	ES
Junior Mint Fed 217H - OH - Plan 1	22,806.75	22,875.30	1,320.06	1,039.11	4.70	SF
Junior Mint Fed 218H - OH - Plan 1	300.00	300.00	2,486.95	2,482.98	627.65	CC, ES
Junior Mint Fed 218H - OH - Plan 1	800.00	625.67	2,514.82	2,508.39	391.39	SF
Junior Mint Fed 221H - OH - Plan 1	300.00	301.00	50.00	46.03	12.61	CC, ES
Junior Mint Fed 221H - OH - Plan 1	22,806.75	23,189.73	513.66	296.10	2.36	SF
Junior Mint Fed 222H - OH - Plan 1	1,507.11	1,502.05	88.02	78.46	9.21	CC, ES
Junior Mint Fed 222H - OH - Plan 1	22,806.75	23,181.68	1,001.28	735.96	3.77	SF
Junior Mint Fed 223H - OH - Plan 1	12,040.93	12,078.70	2,164.03	2,129.46	62.60	CC
Junior Mint Fed 223H - OH - Plan 1	22,806.75	23,129.51	2,282.85	1,992.27	7.86	ES, SF
Junior Mint Fed 224H - OH - Plan 1	300.00	300.00	2,504.10	2,500.13	631.98	CC, ES
Junior Mint Fed 224H - OH - Plan 1	600.00	500.00	2,514.66	2,508.99	443.47	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 215H
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 215H	Survey Calculation Method:	Minimum 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 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	153.43	-50.00	25.00	55.90					
100.00	100.00	101.00	100.00	0.98	0.99	153.43	-50.00	25.00	55.90	53.93	1.97	28.410	CC, ES	
200.00	200.00	201.00	200.00	1.56	1.57	153.43	-50.00	25.00	55.90	52.78	3.13	17.881		
300.00	300.00	301.00	300.00	1.98	1.98	153.43	-50.00	25.00	55.90	51.94	3.97	14.096		
400.00	399.99	400.99	399.99	2.41	2.33	-166.19	-50.00	25.00	57.17	52.43	4.74	12.057		
500.00	499.91	500.91	499.91	2.79	2.64	-167.06	-50.00	25.00	60.99	55.57	5.42	11.259		
600.00	599.69	600.69	599.69	3.12	2.91	-168.28	-50.00	25.00	67.38	61.35	6.03	11.177		
700.00	699.32	700.32	699.32	3.26	3.16	-169.59	-50.00	25.00	75.79	69.37	6.42	11.800		
800.00	798.94	799.94	798.94	3.51	3.40	-170.66	-50.00	25.00	84.38	77.47	6.91	12.210		
900.00	898.56	899.56	898.56	3.76	3.62	-171.53	-50.00	25.00	92.99	85.62	7.38	12.608		
1,000.00	998.18	999.18	998.18	3.99	3.83	-172.26	-50.00	25.00	101.62	93.80	7.82	12.991		
1,100.00	1,097.80	1,098.80	1,097.80	4.22	4.04	-172.87	-50.00	25.00	110.27	102.01	8.25	13.359		
1,200.00	1,197.42	1,198.42	1,197.42	4.45	4.23	-173.39	-50.00	25.00	118.92	110.24	8.68	13.703		
1,300.00	1,296.92	1,297.92	1,296.92	4.71	4.42	-173.88	-50.00	25.00	128.81	119.69	9.12	14.125		
1,400.00	1,396.13	1,397.13	1,396.13	4.97	4.60	-174.40	-50.00	25.00	141.30	131.74	9.56	14.780		
1,500.00	1,495.05	1,498.49	1,497.48	5.11	4.77	-174.80	-49.58	24.27	155.10	145.22	9.88	15.698		
1,600.00	1,593.95	1,600.33	1,599.29	5.33	4.94	-174.89	-48.25	21.97	167.47	157.21	10.26	16.315		
1,700.00	1,692.86	1,702.56	1,701.42	5.54	5.10	-174.73	-46.00	18.09	178.24	167.59	10.65	16.740		
1,800.00	1,791.76	1,805.11	1,803.77	5.76	5.27	-174.35	-42.83	12.61	187.38	176.36	11.03	16.992		
1,900.00	1,890.66	1,907.91	1,906.25	5.97	5.44	-173.78	-38.73	5.53	194.92	183.52	11.41	17.088		
2,000.00	1,989.56	2,010.91	2,008.75	6.18	5.61	-173.02	-33.70	-3.16	200.87	189.08	11.79	17.044		
2,100.00	2,088.46	2,114.03	2,111.18	6.39	5.78	-172.07	-27.74	-13.46	205.25	193.08	12.16	16.873		
2,200.00	2,187.36	2,217.21	2,213.44	6.60	5.96	-170.92	-20.85	-25.35	208.09	195.54	12.54	16.590		
2,300.00	2,286.26	2,320.38	2,315.43	6.81	6.14	-169.56	-13.04	-38.84	209.43	196.51	12.92	16.206		
2,400.00	2,385.16	2,423.47	2,417.04	7.02	6.32	-167.95	-4.32	-53.90	209.35	196.04	13.31	15.733		
2,500.00	2,484.06	2,526.42	2,518.18	7.23	6.50	-166.08	5.30	-70.52	207.91	194.22	13.69	15.185		
2,600.00	2,582.96	2,629.17	2,618.76	7.44	6.69	-163.88	15.80	-88.67	205.22	191.13	14.08	14.572		
2,700.00	2,681.87	2,731.47	2,718.51	7.65	6.86	-161.33	27.16	-108.29	201.39	186.94	14.46	13.930		
2,800.00	2,780.77	2,830.93	2,815.33	7.85	7.05	-158.62	38.58	-128.02	197.37	182.52	14.85	13.290		
2,900.00	2,879.67	2,930.40	2,912.15	8.06	7.27	-155.79	50.01	-147.76	193.81	178.53	15.27	12.689		
3,000.00	2,978.57	3,029.87	3,008.97	8.27	7.50	-152.87	61.44	-167.50	190.74	175.04	15.70	12.147		
3,100.00	3,077.47	3,129.33	3,105.78	8.47	7.73	-149.86	72.86	-187.23	188.19	172.05	16.14	11.662		
3,200.00	3,176.37	3,228.80	3,202.60	8.68	7.97	-146.78	84.29	-206.97	186.17	169.59	16.58	11.230		
3,300.00	3,275.27	3,328.27	3,299.42	8.89	8.22	-143.64	95.71	-226.71	184.71	167.68	17.02	10.850		
3,400.00	3,374.17	3,427.73	3,396.23	9.09	8.47	-140.47	107.14	-246.44	183.81	166.34	17.48	10.518		
3,500.00	3,473.07	3,527.20	3,493.05	9.30	8.72	-137.27	118.56	-266.18	183.50	165.56	17.93	10.232		
3,504.90	3,477.91	3,532.07	3,497.79	9.31	8.73	-137.11	119.12	-267.15	183.50	165.54	17.96	10.219		
3,600.00	3,571.97	3,626.67	3,589.87	9.50	8.98	-134.07	129.99	-285.92	183.76	165.36	18.39	9.990		
3,700.00	3,670.87	3,726.13	3,686.69	9.71	9.24	-130.89	141.42	-305.66	184.60	165.74	18.86	9.788		
3,800.00	3,769.78	3,825.60	3,783.50	9.91	9.50	-127.74	152.84	-325.39	186.00	166.68	19.33	9.625		
3,900.00	3,868.68	3,925.07	3,880.32	10.12	9.77	-124.66	164.27	-345.13	187.96	168.17	19.79	9.496		
4,000.00	3,967.58	4,024.53	3,977.14	10.33	10.04	-121.64	175.69	-364.87	190.47	170.20	20.26	9.400		
4,100.00	4,066.48	4,124.00	4,073.95	10.53	10.31	-118.71	187.12	-384.60	193.49	172.75	20.73	9.332		
4,200.00	4,165.38	4,223.47	4,170.77	10.74	10.58	-115.88	198.55	-404.34	197.00	175.80	21.20	9.292		
4,300.00	4,264.28	4,322.94	4,267.59	10.94	10.86	-113.15	209.97	-424.08	200.98	179.31	21.67	9.275		
4,400.00	4,363.18	4,422.40	4,364.41	11.14	11.14	-110.53	221.40	-443.82	205.40	183.27	22.13	9.282		
4,500.00	4,462.28	4,521.76	4,461.11	11.36	11.42	-107.73	232.81	-463.53	209.81	187.22	22.58	9.291		
4,600.00	4,561.69	4,620.86	4,557.57	11.56	11.70	-104.39	244.19	-483.19	214.05	191.06	23.00	9.308		
4,700.00	4,661.35	4,719.64	4,653.72	11.76	11.98	-100.55	255.54	-502.80	218.55	195.17	23.37	9.350		
4,800.00	4,761.20	4,818.02	4,749.49	11.95	12.26	-96.25	266.84	-522.32	223.74	200.03	23.70	9.439		
4,900.00	4,861.15	4,915.95	4,844.81	12.12	12.54	-91.58	278.09	-541.75	230.12	206.13	23.99	9.594		
5,000.00	4,961.15	5,013.40	4,939.66	12.19	12.82	-127.32	289.28	-561.09	238.19	214.00	24.19	9.846		

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 215H
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 215H	Survey Calculation Method:	Minimum 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				
5,100.00	5,061.15	5,110.74	5,034.40	12.27	13.10	-122.53	300.47	-580.40	248.11	223.69	24.42	10.161					
5,200.00	5,161.15	5,208.07	5,129.15	12.35	13.39	-118.12	311.65	-599.71	259.67	235.03	24.64	10.537					
5,300.00	5,261.15	5,305.41	5,223.89	12.43	13.67	-114.09	322.83	-619.03	272.68	247.81	24.87	10.964					
5,400.00	5,361.15	5,402.74	5,318.63	12.52	13.95	-110.44	334.01	-638.34	286.94	261.84	25.10	11.431					
5,500.00	5,461.15	5,500.08	5,413.37	12.60	14.24	-107.13	345.19	-657.66	302.26	276.93	25.34	11.930					
5,600.00	5,561.15	5,598.40	5,509.09	12.68	14.51	-104.12	356.46	-677.12	318.47	292.91	25.56	12.459					
5,700.00	5,661.15	5,700.34	5,608.61	12.76	14.79	-101.45	367.51	-696.22	334.51	308.69	25.83	12.952					
5,800.00	5,761.15	5,803.05	5,709.27	12.84	15.06	-99.20	377.75	-713.91	349.80	323.71	26.10	13.405					
5,900.00	5,861.15	5,906.48	5,810.98	12.93	15.32	-97.32	387.15	-730.14	364.12	337.76	26.36	13.812					
6,000.00	5,961.15	6,010.57	5,913.67	13.01	15.56	-95.74	395.67	-744.87	377.31	350.68	26.62	14.171					
6,100.00	6,061.15	6,115.26	6,017.24	13.09	15.78	-94.42	403.30	-758.05	389.25	362.37	26.88	14.479					
6,200.00	6,161.15	6,220.47	6,121.59	13.17	15.98	-93.32	410.02	-769.64	399.84	372.71	27.14	14.735					
6,300.00	6,261.15	6,326.15	6,226.64	13.25	16.17	-92.43	415.79	-779.62	409.01	381.63	27.38	14.938					
6,400.00	6,361.15	6,432.21	6,332.27	13.33	16.33	-91.72	420.61	-787.94	416.70	389.08	27.62	15.089					
6,500.00	6,461.15	6,538.61	6,438.38	13.42	16.48	-91.17	424.46	-794.59	422.86	395.02	27.84	15.187					
6,600.00	6,561.15	6,645.25	6,544.86	13.50	16.61	-90.77	427.32	-799.54	427.46	399.40	28.06	15.234					
6,700.00	6,661.15	6,752.06	6,651.61	13.58	16.71	-90.52	429.20	-802.78	430.47	402.21	28.26	15.231					
6,800.00	6,761.15	6,858.98	6,758.52	13.66	16.80	-90.40	430.08	-804.30	431.88	403.45	28.44	15.188					
6,900.00	6,861.15	6,961.61	6,861.15	13.74	16.87	-90.39	430.15	-804.42	432.00	403.41	28.59	15.112					
7,000.00	6,961.15	7,061.61	6,961.15	13.83	16.93	-90.39	430.15	-804.42	432.00	403.27	28.73	15.036					
7,100.00	7,061.15	7,161.61	7,061.15	13.91	17.00	-90.39	430.15	-804.42	432.00	403.12	28.88	14.960					
7,200.00	7,161.15	7,261.61	7,161.15	13.99	17.06	-90.39	430.15	-804.42	432.00	402.98	29.02	14.885					
7,300.00	7,261.15	7,361.61	7,261.15	14.07	17.13	-90.39	430.15	-804.42	432.00	402.83	29.17	14.810					
7,400.00	7,361.15	7,461.61	7,361.15	14.15	17.19	-90.39	430.15	-804.42	432.00	402.69	29.31	14.736					
7,500.00	7,461.15	7,561.61	7,461.15	14.24	17.26	-90.39	430.15	-804.42	432.00	402.54	29.46	14.663					
7,600.00	7,561.15	7,661.61	7,561.15	14.32	17.32	-90.39	430.15	-804.42	432.00	402.39	29.61	14.591					
7,700.00	7,661.15	7,761.61	7,661.15	14.40	17.39	-90.39	430.15	-804.42	432.00	402.25	29.75	14.519					
7,800.00	7,761.15	7,861.61	7,761.15	14.48	17.45	-90.39	430.15	-804.42	432.00	402.10	29.90	14.448					
7,900.00	7,861.15	7,961.61	7,861.15	14.56	17.52	-90.39	430.15	-804.42	432.00	401.95	30.05	14.377					
8,000.00	7,961.15	8,061.61	7,961.15	14.65	17.58	-90.39	430.15	-804.42	432.00	401.80	30.20	14.307					
8,100.00	8,061.15	8,161.61	8,061.15	14.73	17.65	-90.39	430.15	-804.42	432.00	401.66	30.34	14.238					
8,200.00	8,161.15	8,261.61	8,161.15	14.81	17.71	-90.39	430.15	-804.42	432.00	401.51	30.49	14.169					
8,300.00	8,261.15	8,361.61	8,261.15	14.89	17.78	-90.39	430.15	-804.42	432.00	401.36	30.64	14.101					
8,400.00	8,361.15	8,461.61	8,361.15	14.98	17.85	-90.39	430.15	-804.42	432.00	401.22	30.78	14.033					
8,500.00	8,461.15	8,561.61	8,461.15	15.06	17.91	-90.39	430.15	-804.42	432.00	401.07	30.93	13.966					
8,600.00	8,561.15	8,661.61	8,561.15	15.14	17.98	-90.39	430.15	-804.42	432.00	400.92	31.08	13.899					
8,700.00	8,661.15	8,761.61	8,661.15	15.22	18.04	-90.39	430.15	-804.42	432.00	400.77	31.23	13.834					
8,800.00	8,761.15	8,861.61	8,761.15	15.30	18.11	-90.39	430.15	-804.42	432.00	400.62	31.38	13.768					
8,900.00	8,861.15	8,961.61	8,861.15	15.39	18.18	-90.39	430.15	-804.42	432.00	400.47	31.53	13.703					
9,000.00	8,961.15	9,061.61	8,961.15	15.47	18.24	-90.39	430.15	-804.42	432.00	400.33	31.67	13.639					
9,100.00	9,061.15	9,161.61	9,061.15	15.55	18.31	-90.39	430.15	-804.42	432.00	400.18	31.82	13.575					
9,200.00	9,161.15	9,261.61	9,161.15	15.63	18.38	-90.39	430.15	-804.42	432.00	400.03	31.97	13.512					
9,300.00	9,261.15	9,361.61	9,261.15	15.71	18.44	-90.39	430.15	-804.42	432.00	399.88	32.12	13.450					
9,400.00	9,361.15	9,461.61	9,361.15	15.80	18.51	-90.39	430.15	-804.42	432.00	399.73	32.27	13.388					
9,500.00	9,461.15	9,561.61	9,461.15	15.88	18.58	-90.39	430.15	-804.42	432.00	399.58	32.42	13.326					
9,600.00	9,561.15	9,661.61	9,561.15	15.96	18.65	-90.39	430.15	-804.42	432.00	399.43	32.57	13.265					
9,700.00	9,661.15	9,761.61	9,661.15	16.04	18.71	-90.39	430.15	-804.42	432.00	399.28	32.72	13.204					
9,800.00	9,761.15	9,861.61	9,761.15	16.12	18.78	-90.39	430.15	-804.42	432.00	399.13	32.87	13.144					
9,900.00	9,861.15	9,961.61	9,861.15	16.21	18.85	-90.39	430.15	-804.42	432.00	398.98	33.02	13.085					
10,000.00	9,961.15	10,061.61	9,961.15	16.29	18.92	-90.39	430.15	-804.42	432.00	398.83	33.17	13.026					
10,100.00	10,061.15	10,161.61	10,061.15	16.37	18.99	-90.39	430.15	-804.42	432.00	398.68	33.32	12.967					
10,200.00	10,161.15	10,261.61	10,161.15	16.45	19.05	-90.39	430.15	-804.42	432.00	398.53	33.47	12.909					

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 215H
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 215H	Survey Calculation Method:	Minimum 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)		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 Axis 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	10,261.15	10,361.61	10,261.15	16.54	19.12	-90.39	430.15	-804.42	432.00	398.38	33.62	12.851	
10,400.00	10,361.15	10,461.61	10,361.15	16.62	19.19	-90.39	430.15	-804.42	432.00	398.23	33.77	12.794	
10,500.00	10,461.15	10,561.61	10,461.15	16.70	19.26	-90.39	430.15	-804.42	432.00	398.08	33.92	12.737	
10,600.00	10,561.15	10,661.61	10,561.15	16.78	19.33	-90.39	430.15	-804.42	432.00	397.93	34.07	12.681	
10,700.00	10,661.15	10,761.61	10,661.15	16.86	19.40	-90.39	430.15	-804.42	432.00	397.78	34.22	12.625	
10,800.00	10,761.15	10,861.61	10,761.15	16.95	19.46	-90.39	430.15	-804.42	432.00	397.63	34.37	12.570	
10,900.00	10,861.15	10,961.61	10,861.15	17.03	19.53	-90.39	430.15	-804.42	432.00	397.48	34.52	12.515	
11,000.00	10,961.15	11,061.61	10,961.15	17.11	19.60	-90.39	430.15	-804.42	432.00	397.33	34.67	12.461	
11,100.00	11,061.15	11,161.61	11,061.15	17.19	19.67	-90.39	430.15	-804.42	432.00	397.18	34.82	12.407	
11,200.00	11,161.15	11,261.61	11,161.15	17.27	19.74	-90.39	430.15	-804.42	432.00	397.03	34.97	12.353	
11,300.00	11,261.15	11,361.61	11,261.15	17.36	19.81	-90.39	430.15	-804.42	432.00	396.88	35.12	12.300	
11,400.00	11,361.15	11,461.61	11,361.15	17.44	19.88	-90.39	430.15	-804.42	432.00	396.73	35.27	12.247	
11,500.00	11,461.15	11,561.61	11,461.15	17.52	19.95	-90.39	430.15	-804.42	432.00	396.58	35.42	12.195	
11,600.00	11,561.15	11,661.62	11,561.16	17.60	20.01	-90.40	430.09	-804.42	432.00	396.44	35.56	12.149	
11,621.75	11,582.90	11,683.38	11,582.90	17.62	20.02	-90.49	429.37	-804.41	432.00	396.42	35.58	12.143	
11,700.00	11,661.15	11,760.50	11,659.41	17.69	20.05	-91.71	420.18	-804.33	432.10	396.49	35.61	12.133	
11,800.00	11,761.15	11,853.37	11,748.87	17.77	20.04	-94.96	395.63	-804.12	433.49	397.84	35.65	12.161	
11,900.00	11,861.15	11,936.51	11,824.67	17.85	20.01	-99.40	361.65	-803.83	438.79	403.03	35.76	12.270	
12,000.00	11,961.14	12,008.71	11,885.92	17.90	19.97	75.91	323.51	-803.50	450.98	414.84	36.14	12.479	
12,100.00	12,060.18	12,075.75	11,938.08	17.93	19.94	69.95	281.46	-803.14	468.65	431.88	36.76	12.747	
12,200.00	12,155.47	12,140.68	11,983.58	17.96	19.91	64.61	235.19	-802.74	488.81	451.16	37.65	12.983	
12,300.00	12,244.13	12,200.00	12,020.34	17.98	19.91	60.16	188.67	-802.34	509.55	470.72	38.83	13.124	
12,400.00	12,323.46	12,266.23	12,055.45	18.01	19.91	56.20	132.56	-801.86	529.17	489.22	39.95	13.247	
12,500.00	12,391.04	12,327.55	12,081.99	18.04	19.94	53.19	77.31	-801.38	546.50	505.34	41.17	13.275	
12,600.00	12,444.83	12,388.25	12,102.30	18.09	19.99	50.94	20.15	-800.89	560.60	518.27	42.33	13.243	
12,700.00	12,483.18	12,450.00	12,116.64	18.16	20.07	49.39	-39.89	-800.37	570.79	527.42	43.36	13.163	
12,800.00	12,504.94	12,500.00	12,123.47	18.27	20.15	48.59	-89.40	-799.95	576.72	532.38	44.34	13.007	
12,900.00	12,510.19	12,581.74	12,126.23	18.42	20.33	48.37	-171.06	-799.24	577.98	533.14	44.84	12.890	
13,000.00	12,511.06	12,681.74	12,127.10	18.62	20.60	48.37	-271.05	-798.38	577.98	532.76	45.23	12.779	
13,100.00	12,511.94	12,781.74	12,127.97	18.88	20.94	48.37	-371.04	-797.52	577.99	532.27	45.71	12.644	
13,200.00	12,512.81	12,881.74	12,128.84	19.20	21.34	48.37	-471.03	-796.66	577.99	531.70	46.29	12.486	
13,300.00	12,513.68	12,981.74	12,129.71	19.61	21.80	48.37	-571.03	-795.80	577.99	531.03	46.96	12.308	
13,400.00	12,514.56	13,081.74	12,130.58	20.11	22.32	48.37	-671.02	-794.94	577.99	530.28	47.71	12.114	
13,500.00	12,515.43	13,181.74	12,131.45	20.70	22.91	48.37	-771.01	-794.08	577.99	529.44	48.55	11.905	
13,600.00	12,516.30	13,281.74	12,132.32	21.37	23.55	48.37	-871.00	-793.22	577.99	528.53	49.46	11.685	
13,700.00	12,517.18	13,381.74	12,133.20	22.12	24.25	48.37	-971.00	-792.36	578.00	527.54	50.45	11.457	
13,800.00	12,518.05	13,481.74	12,134.07	22.93	25.00	48.37	-1,070.99	-791.50	578.00	526.49	51.51	11.221	
13,900.00	12,518.92	13,581.74	12,134.94	23.80	25.80	48.37	-1,170.98	-790.64	578.00	525.37	52.63	10.982	
14,000.00	12,519.80	13,681.74	12,135.81	24.73	26.65	48.37	-1,270.97	-789.78	578.00	524.19	53.81	10.741	
14,100.00	12,520.67	13,781.74	12,136.68	25.70	27.54	48.37	-1,370.97	-788.92	578.00	522.95	55.06	10.499	
14,200.00	12,521.54	13,881.74	12,137.55	26.70	28.46	48.37	-1,470.96	-788.06	578.00	521.65	56.35	10.257	
14,300.00	12,522.42	13,981.74	12,138.42	27.75	29.43	48.37	-1,570.95	-787.19	578.00	520.31	57.69	10.019	
14,400.00	12,523.29	14,081.74	12,139.29	28.82	30.42	48.37	-1,670.94	-786.33	578.01	518.92	59.08	9.783	
14,500.00	12,524.16	14,181.74	12,140.16	29.91	31.44	48.37	-1,770.94	-785.47	578.01	517.49	60.52	9.551	
14,600.00	12,525.04	14,281.74	12,141.04	31.04	32.49	48.37	-1,870.93	-784.61	578.01	516.02	61.99	9.324	
14,700.00	12,525.91	14,381.74	12,141.91	32.18	33.57	48.37	-1,970.92	-783.75	578.01	514.51	63.50	9.102	
14,800.00	12,526.78	14,481.74	12,142.78	33.34	34.66	48.37	-2,070.91	-782.89	578.01	512.96	65.05	8.885	
14,900.00	12,527.66	14,581.74	12,143.65	34.51	35.77	48.37	-2,170.91	-782.03	578.01	511.38	66.63	8.675	
15,000.00	12,528.53	14,681.74	12,144.52	35.70	36.91	48.37	-2,270.90	-781.17	578.02	509.78	68.24	8.470	
15,100.00	12,529.40	14,781.74	12,145.39	36.91	38.05	48.36	-2,370.89	-780.31	578.02	508.14	69.88	8.272	
15,200.00	12,530.28	14,881.74	12,146.26	38.12	39.21	48.36	-2,470.88	-779.45	578.02	506.48	71.54	8.080	
15,300.00	12,531.15	14,981.74	12,147.13	39.35	40.39	48.36	-2,570.88	-778.59	578.02	504.79	73.23	7.893	

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 215H
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 215H	Survey Calculation Method:	Minimum 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: 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	12,532.02	15,081.74	12,148.00	40.58	41.58	48.36	-2,670.87	-777.73	578.02	503.08	74.94	7.713	
15,500.00	12,532.89	15,181.74	12,148.88	41.82	42.78	48.36	-2,770.86	-776.87	578.02	501.35	76.67	7.539	
15,600.00	12,533.77	15,281.74	12,149.75	43.08	43.99	48.36	-2,870.85	-776.00	578.02	499.60	78.42	7.371	
15,700.00	12,534.64	15,381.74	12,150.62	44.34	45.21	48.36	-2,970.85	-775.14	578.03	497.83	80.19	7.208	
15,800.00	12,535.51	15,481.74	12,151.49	45.60	46.43	48.36	-3,070.84	-774.28	578.03	496.05	81.98	7.051	
15,900.00	12,536.39	15,581.74	12,152.36	46.87	47.67	48.36	-3,170.83	-773.42	578.03	494.25	83.78	6.899	
16,000.00	12,537.26	15,681.74	12,153.23	48.15	48.91	48.36	-3,270.82	-772.56	578.03	492.43	85.60	6.753	
16,100.00	12,538.13	15,781.74	12,154.10	49.43	50.16	48.36	-3,370.82	-771.70	578.03	490.60	87.44	6.611	
16,200.00	12,539.01	15,881.74	12,154.97	50.72	51.42	48.36	-3,470.81	-770.84	578.03	488.75	89.28	6.474	
16,300.00	12,539.88	15,981.74	12,155.84	52.01	52.68	48.36	-3,570.80	-769.98	578.04	486.90	91.14	6.342	
16,400.00	12,540.75	16,081.74	12,156.72	53.30	53.94	48.36	-3,670.79	-769.12	578.04	485.03	93.01	6.215	
16,500.00	12,541.63	16,181.74	12,157.59	54.60	55.22	48.36	-3,770.79	-768.26	578.04	483.15	94.89	6.092	
16,600.00	12,542.50	16,281.74	12,158.46	55.90	56.49	48.36	-3,870.78	-767.40	578.04	481.26	96.78	5.972	
16,700.00	12,543.37	16,381.74	12,159.33	57.21	57.77	48.36	-3,970.77	-766.54	578.04	479.35	98.69	5.857	
16,800.00	12,544.25	16,481.74	12,160.20	58.52	59.06	48.36	-4,070.76	-765.68	578.04	477.44	100.60	5.746	
16,900.00	12,545.12	16,581.74	12,161.07	59.83	60.35	48.36	-4,170.76	-764.82	578.04	475.53	102.52	5.638	
17,000.00	12,545.99	16,681.74	12,161.94	61.14	61.64	48.36	-4,270.75	-763.95	578.05	473.60	104.45	5.534	
17,100.00	12,546.87	16,781.74	12,162.81	62.46	62.94	48.36	-4,370.74	-763.09	578.05	471.67	106.38	5.434	
17,200.00	12,547.74	16,881.74	12,163.68	63.78	64.23	48.36	-4,470.73	-762.23	578.05	469.72	108.33	5.336	
17,300.00	12,548.61	16,981.74	12,164.56	65.10	65.54	48.36	-4,570.73	-761.37	578.05	467.77	110.28	5.242	
17,400.00	12,549.49	17,081.74	12,165.43	66.42	66.84	48.36	-4,670.72	-760.51	578.05	465.82	112.23	5.150	
17,500.00	12,550.36	17,181.74	12,166.30	67.75	68.15	48.36	-4,770.71	-759.65	578.05	463.86	114.20	5.062	
17,600.00	12,551.23	17,281.74	12,167.17	69.07	69.46	48.36	-4,870.70	-758.79	578.06	461.89	116.17	4.976	
17,700.00	12,552.11	17,381.74	12,168.04	70.40	70.77	48.36	-4,970.70	-757.93	578.06	459.91	118.14	4.893	
17,800.00	12,552.98	17,481.74	12,168.91	71.73	72.08	48.36	-5,070.69	-757.07	578.06	457.94	120.12	4.812	
17,900.00	12,553.85	17,581.74	12,169.78	73.06	73.40	48.36	-5,170.68	-756.21	578.06	455.95	122.11	4.734	
18,000.00	12,554.73	17,681.74	12,170.65	74.40	74.72	48.36	-5,270.67	-755.35	578.06	453.96	124.10	4.658	
18,100.00	12,555.60	17,781.74	12,171.52	75.73	76.04	48.36	-5,370.67	-754.49	578.06	451.97	126.09	4.584	
18,200.00	12,556.47	17,881.74	12,172.40	77.06	77.36	48.36	-5,470.66	-753.63	578.06	449.97	128.09	4.513	
18,300.00	12,557.35	17,981.74	12,173.27	78.40	78.68	48.36	-5,570.65	-752.76	578.07	447.97	130.10	4.443	
18,400.00	12,558.22	18,081.74	12,174.14	79.74	80.01	48.36	-5,670.64	-751.90	578.07	445.96	132.11	4.376	
18,500.00	12,559.09	18,181.74	12,175.01	81.08	81.33	48.36	-5,770.64	-751.04	578.07	443.95	134.12	4.310	
18,600.00	12,559.97	18,281.74	12,175.88	82.42	82.66	48.36	-5,870.63	-750.18	578.07	441.94	136.13	4.246	
18,700.00	12,560.84	18,381.74	12,176.75	83.76	83.99	48.36	-5,970.62	-749.32	578.07	439.92	138.15	4.184	
18,800.00	12,561.71	18,481.74	12,177.62	85.10	85.32	48.36	-6,070.61	-748.46	578.07	437.90	140.17	4.124	
18,900.00	12,562.59	18,581.74	12,178.49	86.44	86.65	48.36	-6,170.61	-747.60	578.08	435.87	142.20	4.065	
19,000.00	12,563.46	18,681.74	12,179.37	87.79	87.99	48.36	-6,270.60	-746.74	578.08	433.85	144.23	4.008	
19,100.00	12,564.33	18,781.74	12,180.24	89.13	89.32	48.36	-6,370.59	-745.88	578.08	431.82	146.26	3.952	
19,200.00	12,565.20	18,881.74	12,181.11	90.48	90.66	48.36	-6,470.58	-745.02	578.08	429.78	148.30	3.898	
19,300.00	12,566.08	18,981.74	12,181.98	91.82	91.99	48.36	-6,570.58	-744.16	578.08	427.75	150.33	3.845	
19,400.00	12,566.95	19,081.74	12,182.85	93.17	93.33	48.36	-6,670.57	-743.30	578.08	425.71	152.37	3.794	
19,500.00	12,567.82	19,181.74	12,183.72	94.51	94.67	48.36	-6,770.56	-742.44	578.08	423.67	154.42	3.744	
19,600.00	12,568.70	19,281.74	12,184.59	95.86	96.01	48.36	-6,870.55	-741.58	578.09	421.63	156.46	3.695	
19,700.00	12,569.57	19,381.74	12,185.46	97.21	97.35	48.36	-6,970.55	-740.71	578.09	419.58	158.51	3.647	
19,800.00	12,570.44	19,481.74	12,186.33	98.56	98.69	48.36	-7,070.54	-739.85	578.09	417.53	160.56	3.601	
19,900.00	12,571.32	19,581.74	12,187.21	99.91	100.03	48.36	-7,170.53	-738.99	578.09	415.48	162.61	3.555	
20,000.00	12,572.19	19,681.74	12,188.08	101.26	101.37	48.36	-7,270.52	-738.13	578.09	413.43	164.66	3.511	
20,100.00	12,573.06	19,781.74	12,188.95	102.61	102.72	48.36	-7,370.52	-737.27	578.09	411.38	166.72	3.467	
20,200.00	12,573.94	19,881.74	12,189.82	103.96	104.06	48.36	-7,470.51	-736.41	578.10	409.32	168.78	3.425	
20,300.00	12,574.81	19,981.74	12,190.69	105.31	105.40	48.36	-7,570.50	-735.55	578.10	407.26	170.83	3.384	
20,400.00	12,575.68	20,081.74	12,191.56	106.66	106.75	48.36	-7,670.49	-734.69	578.10	405.20	172.90	3.344	
20,500.00	12,576.56	20,181.74	12,192.43	108.02	108.09	48.36	-7,770.49	-733.83	578.10	403.14	174.96	3.304	

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 215H
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 215H	Survey Calculation Method:	Minimum 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		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	12,577.43	20,281.74	12,193.30	109.37	109.44	48.36	-7,870.48	-732.97	578.10	401.08	177.02	3.266		
20,700.00	12,578.30	20,381.74	12,194.17	110.72	110.79	48.36	-7,970.47	-732.11	578.10	399.01	179.09	3.228		
20,800.00	12,579.18	20,481.74	12,195.05	112.08	112.14	48.36	-8,070.46	-731.25	578.10	396.95	181.16	3.191		
20,900.00	12,580.05	20,581.74	12,195.92	113.43	113.48	48.36	-8,170.46	-730.39	578.11	394.88	183.23	3.155		
21,000.00	12,580.92	20,681.74	12,196.79	114.79	114.83	48.36	-8,270.45	-729.53	578.11	392.81	185.30	3.120		
21,100.00	12,581.80	20,781.74	12,197.66	116.14	116.18	48.36	-8,370.44	-728.66	578.11	390.74	187.37	3.085		
21,200.00	12,582.67	20,881.74	12,198.53	117.50	117.53	48.36	-8,470.43	-727.80	578.11	388.67	189.44	3.052		
21,300.00	12,583.54	20,981.74	12,199.40	118.85	118.88	48.36	-8,570.43	-726.94	578.11	386.59	191.52	3.019		
21,400.00	12,584.42	21,081.74	12,200.27	120.21	120.23	48.36	-8,670.42	-726.08	578.11	384.52	193.59	2.986		
21,500.00	12,585.29	21,181.74	12,201.14	121.56	121.58	48.36	-8,770.41	-725.22	578.12	382.44	195.67	2.955		
21,600.00	12,586.16	21,281.74	12,202.01	122.92	122.93	48.36	-8,870.40	-724.36	578.12	380.37	197.75	2.923		
21,700.00	12,587.04	21,381.74	12,202.89	124.28	124.29	48.36	-8,970.40	-723.50	578.12	378.29	199.83	2.893		
21,800.00	12,587.91	21,481.74	12,203.76	125.63	125.64	48.36	-9,070.39	-722.64	578.12	376.21	201.91	2.863		
21,900.00	12,588.78	21,581.74	12,204.63	126.99	126.99	48.36	-9,170.38	-721.78	578.12	374.13	203.99	2.834		
22,000.00	12,589.66	21,681.74	12,205.50	128.35	128.34	48.35	-9,270.37	-720.92	578.12	372.05	206.07	2.805		
22,100.00	12,590.53	21,781.74	12,206.37	129.71	129.70	48.35	-9,370.37	-720.06	578.12	369.97	208.16	2.777		
22,200.00	12,591.40	21,881.74	12,207.24	131.07	131.05	48.35	-9,470.36	-719.20	578.13	367.88	210.24	2.750		
22,300.00	12,592.28	21,981.74	12,208.11	132.42	132.40	48.35	-9,570.35	-718.34	578.13	365.80	212.33	2.723		
22,400.00	12,593.15	22,081.74	12,208.98	133.78	133.76	48.35	-9,670.34	-717.47	578.13	363.72	214.41	2.696		
22,500.00	12,594.02	22,181.74	12,209.85	135.14	135.11	48.35	-9,770.34	-716.61	578.13	361.63	216.50	2.670		
22,600.00	12,594.89	22,281.74	12,210.73	136.50	136.47	48.35	-9,870.33	-715.75	578.13	359.54	218.59	2.645		
22,700.00	12,595.77	22,381.74	12,211.60	137.86	137.82	48.35	-9,970.32	-714.89	578.13	357.45	220.68	2.620		
22,800.00	12,596.64	22,481.74	12,212.47	139.22	139.18	48.35	-10,070.31	-714.03	578.14	355.37	222.77	2.595		
22,800.43	12,596.65	22,482.17	12,212.47	139.23	139.18	48.35	-10,070.74	-714.03	578.14	355.36	222.78	2.595		
22,806.75	12,596.70	22,485.80	12,212.50	139.31	139.26	48.35	-10,074.37	-714.00	578.14	355.17	222.98	2.593	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 215H
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 215H	Survey Calculation Method:	Minimum 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)		
0.00	0.00	0.00	0.00	0.50	0.50	10.49	135.00	25.00	137.30			
100.00	100.00	100.00	100.00	0.98	0.98	10.49	135.00	25.00	137.30	135.33	1.96	69.971
200.00	200.00	200.00	200.00	1.56	1.56	10.49	135.00	25.00	137.30	134.17	3.12	43.973
300.00	300.00	300.00	300.00	1.98	1.98	10.49	135.00	25.00	137.30	133.33	3.96	34.650
400.00	399.99	399.99	399.99	2.41	2.33	51.62	135.00	25.00	136.48	131.79	4.69	29.092
500.00	499.91	499.91	499.91	2.79	2.63	52.96	135.00	25.00	134.08	128.75	5.32	25.183
600.00	599.69	599.69	599.69	3.12	2.91	55.30	135.00	25.00	130.24	124.35	5.89	22.110
700.00	699.32	699.32	699.32	3.26	3.16	58.53	135.00	25.00	125.55	119.28	6.27	20.029
800.00	798.94	798.94	798.94	3.51	3.40	62.04	135.00	25.00	121.21	114.47	6.75	17.970
900.00	898.56	896.07	896.06	3.76	3.66	66.01	135.64	26.03	118.40	111.18	7.22	16.391
948.83	947.21	943.43	943.39	3.87	3.79	68.23	136.42	27.29	118.05	110.60	7.45	15.851
1,000.00	998.18	992.98	992.90	3.99	3.92	70.71	137.57	29.14	118.45	110.77	7.68	15.418
1,100.00	1,097.80	1,089.58	1,089.30	4.22	4.16	75.81	140.78	34.32	121.66	113.54	8.13	14.971
1,200.00	1,197.42	1,187.42	1,186.79	4.45	4.28	80.97	145.14	41.36	127.88	119.42	8.46	15.119
1,300.00	1,296.92	1,286.41	1,285.40	4.71	4.46	86.12	149.69	48.69	135.24	126.39	8.85	15.283
1,400.00	1,396.13	1,385.07	1,383.69	4.97	4.65	91.69	154.22	56.00	143.68	134.42	9.25	15.525
1,500.00	1,495.05	1,483.42	1,481.66	5.11	4.84	97.42	158.74	63.29	153.64	144.06	9.58	16.032
1,600.00	1,593.95	1,581.74	1,579.61	5.33	5.03	102.52	163.25	70.57	165.04	155.04	10.00	16.509
1,700.00	1,692.86	1,680.07	1,677.57	5.54	5.22	106.95	167.77	77.85	177.57	167.16	10.41	17.063
1,800.00	1,791.76	1,778.39	1,775.52	5.76	5.41	110.78	172.29	85.13	191.02	180.21	10.81	17.666
1,900.00	1,890.66	1,876.72	1,873.47	5.97	5.59	114.10	176.80	92.42	205.21	194.00	11.22	18.297
2,000.00	1,989.56	1,975.05	1,971.42	6.18	5.78	116.99	181.32	99.70	220.00	208.38	11.61	18.943
2,100.00	2,088.46	2,073.37	2,069.37	6.39	5.96	119.51	185.83	106.98	235.26	223.26	12.01	19.591
2,200.00	2,187.36	2,171.70	2,167.32	6.60	6.15	121.72	190.35	114.27	250.93	238.52	12.41	20.226
2,300.00	2,286.26	2,267.38	2,262.61	6.81	6.33	123.60	194.92	121.65	267.24	254.46	12.78	20.910
2,400.00	2,385.16	2,361.41	2,356.11	7.02	6.50	125.09	200.19	130.14	285.17	272.03	13.14	21.695
2,500.00	2,484.06	2,455.02	2,449.01	7.23	6.68	126.28	206.23	139.89	304.70	291.19	13.51	22.555
2,600.00	2,582.96	2,548.16	2,541.25	7.44	6.86	127.19	213.04	150.86	325.73	311.86	13.87	23.483
2,700.00	2,681.87	2,640.78	2,632.75	7.65	7.04	127.86	220.59	163.04	348.21	333.98	14.23	24.468
2,800.00	2,780.77	2,732.84	2,723.46	7.85	7.22	128.33	228.86	176.39	372.09	357.50	14.59	25.501
2,900.00	2,879.67	2,824.29	2,813.31	8.06	7.40	128.63	237.84	190.88	397.32	382.37	14.95	26.574
3,000.00	2,978.57	2,915.80	2,902.94	8.27	7.59	128.79	247.58	206.58	423.87	408.55	15.32	27.671
3,100.00	3,077.47	3,012.07	2,997.10	8.47	7.78	128.91	258.12	223.58	450.93	435.22	15.71	28.700
3,200.00	3,176.37	3,108.34	3,091.27	8.68	7.97	129.01	268.66	240.59	477.99	461.88	16.11	29.667
3,300.00	3,275.27	3,204.60	3,185.43	8.89	8.16	129.09	279.20	257.59	505.05	488.54	16.51	30.585
3,400.00	3,374.17	3,300.87	3,279.59	9.09	8.36	129.17	289.74	274.60	532.11	515.20	16.92	31.458
3,500.00	3,473.07	3,397.13	3,373.76	9.30	8.56	129.25	300.28	291.60	559.17	541.85	17.32	32.287
3,600.00	3,571.97	3,493.40	3,467.92	9.50	8.76	129.31	310.83	308.61	586.24	568.51	17.72	33.077
3,700.00	3,670.87	3,589.67	3,562.09	9.71	8.97	129.37	321.37	325.61	613.30	595.17	18.13	33.831
3,800.00	3,769.78	3,685.93	3,656.25	9.91	9.18	129.43	331.91	342.62	640.37	621.83	18.53	34.549
3,900.00	3,868.68	3,782.20	3,750.42	10.12	9.40	129.48	342.45	359.62	667.43	648.49	18.94	35.235
4,000.00	3,967.58	3,878.46	3,844.58	10.33	9.62	129.52	352.99	376.63	694.50	675.15	19.35	35.891
4,100.00	4,066.48	3,974.73	3,938.74	10.53	9.85	129.57	363.53	393.63	721.56	701.80	19.76	36.518
4,200.00	4,165.38	4,071.98	4,033.87	10.74	10.07	129.61	374.18	410.80	748.62	728.48	20.15	37.156
4,300.00	4,264.28	4,180.81	4,140.56	10.94	10.31	129.70	385.48	429.03	774.79	754.18	20.60	37.603
4,400.00	4,363.18	4,290.53	4,248.53	11.14	10.57	129.87	395.78	445.65	799.38	778.32	21.06	37.952
4,500.00	4,462.28	4,401.34	4,357.92	11.36	10.81	130.28	405.08	460.66	821.51	799.99	21.52	38.176
4,600.00	4,561.69	4,513.31	4,468.78	11.56	11.03	130.56	413.35	473.99	840.37	818.42	21.95	38.283
4,700.00	4,661.35	4,626.27	4,580.92	11.76	11.25	130.73	420.53	485.57	855.91	833.56	22.36	38.282
4,800.00	4,761.20	4,740.03	4,694.10	11.95	11.44	130.78	426.58	495.34	868.11	845.37	22.74	38.182
4,900.00	4,861.15	4,854.41	4,808.10	12.12	11.62	130.73	431.47	503.22	876.92	853.84	23.08	37.990
5,000.00	4,961.15	4,969.21	4,922.68	12.19	11.79	89.86	435.17	509.19	882.47	859.13	23.34	37.816

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 215H
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 215H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 132H - OH - Plan 1													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:							Offset Well Error: 0.50 usft	
Reference	Offset	Reference	Offset	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Factor		
5,100.00	5,061.15	5,084.26	5,037.63	12.27	11.94	89.70	437.67	513.22	885.97	862.38	23.60	37.549		
5,200.00	5,161.15	5,199.45	5,152.79	12.35	12.09	89.62	438.95	515.28	887.77	863.94	23.83	37.248		
5,300.00	5,261.15	5,307.81	5,261.15	12.43	12.15	89.61	439.13	515.58	888.03	864.05	23.98	37.033		
5,400.00	5,361.15	5,407.81	5,361.15	12.52	12.23	89.61	439.13	515.58	888.03	863.89	24.14	36.791		
5,500.00	5,461.15	5,507.81	5,461.15	12.60	12.31	89.61	439.13	515.58	888.03	863.74	24.29	36.552		
5,600.00	5,561.15	5,607.81	5,561.15	12.68	12.39	89.61	439.13	515.58	888.03	863.58	24.45	36.317		
5,700.00	5,661.15	5,707.81	5,661.15	12.76	12.48	89.61	439.13	515.58	888.03	863.42	24.61	36.084		
5,800.00	5,761.15	5,807.81	5,761.15	12.84	12.56	89.61	439.13	515.58	888.03	863.26	24.77	35.853		
5,900.00	5,861.15	5,907.81	5,861.15	12.93	12.64	89.61	439.13	515.58	888.03	863.10	24.93	35.626		
6,000.00	5,961.15	6,007.81	5,961.15	13.01	12.72	89.61	439.13	515.58	888.03	862.95	25.08	35.401		
6,100.00	6,061.15	6,107.81	6,061.15	13.09	12.80	89.61	439.13	515.58	888.03	862.79	25.24	35.180		
6,200.00	6,161.15	6,207.81	6,161.15	13.17	12.88	89.61	439.13	515.58	888.03	862.63	25.40	34.961		
6,300.00	6,261.15	6,307.81	6,261.15	13.25	12.96	89.61	439.13	515.58	888.03	862.47	25.56	34.744		
6,400.00	6,361.15	6,407.81	6,361.15	13.33	13.04	89.61	439.13	515.58	888.03	862.31	25.72	34.530		
6,500.00	6,461.15	6,507.81	6,461.15	13.42	13.12	89.61	439.13	515.58	888.03	862.15	25.88	34.319		
6,600.00	6,561.15	6,607.81	6,561.15	13.50	13.20	89.61	439.13	515.58	888.03	862.00	26.03	34.110		
6,700.00	6,661.15	6,707.81	6,661.15	13.58	13.28	89.61	439.13	515.58	888.03	861.84	26.19	33.903		
6,800.00	6,761.15	6,807.81	6,761.15	13.66	13.36	89.61	439.13	515.58	888.03	861.68	26.35	33.699		
6,900.00	6,861.15	6,907.81	6,861.15	13.74	13.45	89.61	439.13	515.58	888.03	861.52	26.51	33.498		
7,000.00	6,961.15	7,007.81	6,961.15	13.83	13.53	89.61	439.13	515.58	888.03	861.36	26.67	33.298		
7,100.00	7,061.15	7,107.81	7,061.15	13.91	13.61	89.61	439.13	515.58	888.03	861.20	26.83	33.101		
7,200.00	7,161.15	7,207.81	7,161.15	13.99	13.69	89.61	439.13	515.58	888.03	861.04	26.99	32.906		
7,300.00	7,261.15	7,307.81	7,261.15	14.07	13.77	89.61	439.13	515.58	888.03	860.89	27.15	32.714		
7,400.00	7,361.15	7,407.81	7,361.15	14.15	13.85	89.61	439.13	515.58	888.03	860.73	27.30	32.523		
7,500.00	7,461.15	7,507.81	7,461.15	14.24	13.93	89.61	439.13	515.58	888.03	860.57	27.46	32.335		
7,600.00	7,561.15	7,607.81	7,561.15	14.32	14.01	89.61	439.13	515.58	888.03	860.41	27.62	32.149		
7,700.00	7,661.15	7,707.81	7,661.15	14.40	14.09	89.61	439.13	515.58	888.03	860.25	27.78	31.965		
7,800.00	7,761.15	7,807.81	7,761.15	14.48	14.17	89.61	439.13	515.58	888.03	860.09	27.94	31.783		
7,900.00	7,861.15	7,907.81	7,861.15	14.56	14.26	89.61	439.13	515.58	888.03	859.93	28.10	31.603		
8,000.00	7,961.15	8,007.81	7,961.15	14.65	14.34	89.61	439.13	515.58	888.03	859.77	28.26	31.425		
8,100.00	8,061.15	8,107.81	8,061.15	14.73	14.42	89.61	439.13	515.58	888.03	859.61	28.42	31.249		
8,200.00	8,161.15	8,207.81	8,161.15	14.81	14.50	89.61	439.13	515.58	888.03	859.45	28.58	31.075		
8,300.00	8,261.15	8,307.81	8,261.15	14.89	14.58	89.61	439.13	515.58	888.03	859.29	28.74	30.902		
8,400.00	8,361.15	8,407.81	8,361.15	14.98	14.66	89.61	439.13	515.58	888.03	859.13	28.90	30.732		
8,500.00	8,461.15	8,507.81	8,461.15	15.06	14.74	89.61	439.13	515.58	888.03	858.98	29.06	30.563		
8,600.00	8,561.15	8,607.81	8,561.15	15.14	14.82	89.61	439.13	515.58	888.03	858.82	29.21	30.397		
8,700.00	8,661.15	8,707.81	8,661.15	15.22	14.90	89.61	439.13	515.58	888.03	858.66	29.37	30.231		
8,800.00	8,761.15	8,807.81	8,761.15	15.30	14.98	89.61	439.13	515.58	888.03	858.50	29.53	30.068		
8,900.00	8,861.15	8,907.81	8,861.15	15.39	15.07	89.61	439.13	515.58	888.03	858.34	29.69	29.907		
9,000.00	8,961.15	9,007.81	8,961.15	15.47	15.15	89.61	439.13	515.58	888.03	858.18	29.85	29.747		
9,100.00	9,061.15	9,107.81	9,061.15	15.55	15.23	89.61	439.13	515.58	888.03	858.02	30.01	29.588		
9,200.00	9,161.15	9,207.81	9,161.15	15.63	15.31	89.61	439.13	515.58	888.03	857.86	30.17	29.432		
9,300.00	9,261.15	9,307.81	9,261.15	15.71	15.39	89.61	439.13	515.58	888.03	857.70	30.33	29.277		
9,400.00	9,361.15	9,407.81	9,361.15	15.80	15.47	89.61	439.13	515.58	888.03	857.54	30.49	29.123		
9,500.00	9,461.15	9,507.81	9,461.15	15.88	15.55	89.61	439.13	515.58	888.03	857.38	30.65	28.972		
9,600.00	9,561.15	9,607.81	9,561.15	15.96	15.63	89.61	439.13	515.58	888.03	857.22	30.81	28.821		
9,700.00	9,661.15	9,707.81	9,661.15	16.04	15.71	89.61	439.13	515.58	888.03	857.06	30.97	28.673		
9,800.00	9,761.15	9,807.81	9,761.15	16.12	15.80	89.61	439.13	515.58	888.03	856.90	31.13	28.525		
9,900.00	9,861.15	9,907.81	9,861.15	16.21	15.88	89.61	439.13	515.58	888.03	856.74	31.29	28.380		
10,000.00	9,961.15	10,007.81	9,961.15	16.29	15.96	89.61	439.13	515.58	888.03	856.58	31.45	28.235		
10,100.00	10,061.15	10,107.81	10,061.15	16.37	16.04	89.61	439.13	515.58	888.03	856.42	31.61	28.092		
10,200.00	10,161.15	10,207.81	10,161.15	16.45	16.12	89.61	439.13	515.58	888.03	856.26	31.77	27.951		

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 215H
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 215H	Survey Calculation Method:	Minimum 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)										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	10,261.15	10,307.81	10,261.15	16.54	16.20	89.61	439.13	515.58	888.03	856.10	31.93	27.811				
10,400.00	10,361.15	10,407.81	10,361.15	16.62	16.28	89.61	439.13	515.58	888.03	855.94	32.09	27.672				
10,500.00	10,461.15	10,507.81	10,461.15	16.70	16.36	89.61	439.13	515.58	888.03	855.78	32.25	27.535				
10,600.00	10,561.15	10,607.81	10,561.15	16.78	16.45	89.61	439.13	515.58	888.03	855.62	32.41	27.398				
10,700.00	10,661.15	10,707.81	10,661.15	16.86	16.53	89.61	439.13	515.58	888.03	855.46	32.57	27.264				
10,800.00	10,761.15	10,807.81	10,761.15	16.95	16.61	89.61	439.13	515.58	888.03	855.30	32.73	27.130				
10,900.00	10,861.15	10,907.81	10,861.15	17.03	16.69	89.61	439.13	515.58	888.03	855.14	32.89	26.998				
11,000.00	10,961.15	11,007.81	10,961.15	17.11	16.77	89.61	439.13	515.58	888.03	854.98	33.05	26.867				
11,100.00	11,061.15	11,107.81	11,061.15	17.19	16.85	89.61	439.13	515.58	888.03	854.82	33.21	26.737				
11,200.00	11,161.15	11,207.81	11,161.15	17.27	16.93	89.61	439.13	515.58	888.03	854.66	33.37	26.609				
11,300.00	11,261.15	11,307.81	11,261.15	17.36	17.01	89.61	439.13	515.58	888.03	854.50	33.53	26.482				
11,400.00	11,361.15	11,407.81	11,361.15	17.44	17.10	89.61	439.13	515.58	888.03	854.34	33.69	26.356				
11,500.00	11,461.15	11,507.81	11,461.15	17.52	17.18	89.61	439.13	515.58	888.03	854.18	33.85	26.231				
11,513.77	11,474.91	11,521.57	11,474.91	17.53	17.19	89.61	439.13	515.58	888.03	854.15	33.88	26.214				
11,600.00	11,561.15	11,607.79	11,561.12	17.60	17.26	89.61	439.07	515.58	888.03	854.02	34.01	26.112				
11,700.00	11,661.15	11,706.26	11,658.98	17.69	17.35	90.25	429.24	515.67	888.11	854.05	34.06	26.078				
11,800.00	11,761.15	11,800.00	11,749.28	17.77	17.40	91.85	404.46	515.88	888.85	854.80	34.05	26.106				
11,900.00	11,861.15	11,881.71	11,823.80	17.85	17.45	93.99	371.10	516.17	891.54	857.49	34.05	26.183				
12,000.00	11,961.14	11,950.00	11,881.91	17.90	17.49	-83.06	335.32	516.47	897.71	863.58	34.13	26.304				
12,100.00	12,060.18	12,020.73	11,937.18	17.93	17.54	-79.83	291.25	516.85	906.78	872.59	34.18	26.527				
12,200.00	12,155.47	12,085.60	11,982.74	17.96	17.60	-76.90	245.13	517.25	917.41	883.05	34.36	26.703				
12,300.00	12,244.13	12,150.00	12,022.53	17.98	17.66	-74.20	194.54	517.69	928.62	893.98	34.64	26.808				
12,400.00	12,323.46	12,211.06	12,054.80	18.01	17.74	-71.88	142.73	518.13	939.52	904.47	35.05	26.803				
12,500.00	12,391.04	12,272.36	12,081.46	18.04	17.83	-69.93	87.57	518.61	949.34	913.81	35.54	26.715				
12,600.00	12,444.83	12,333.04	12,101.90	18.09	17.94	-68.41	30.47	519.10	957.46	921.40	36.06	26.552				
12,700.00	12,483.18	12,400.00	12,117.31	18.16	18.08	-67.29	-34.65	519.66	963.41	926.86	36.56	26.354				
12,800.00	12,504.94	12,450.00	12,123.81	18.27	18.20	-66.75	-84.21	520.09	966.76	929.70	37.06	26.084				
12,900.00	12,510.19	12,525.55	12,126.21	18.42	18.43	-66.62	-159.69	520.74	967.50	930.02	37.48	25.813				
13,000.00	12,511.06	12,625.55	12,127.08	18.62	18.79	-66.62	-259.68	521.60	967.50	929.48	38.02	25.448				
13,100.00	12,511.94	12,725.55	12,127.95	18.88	19.22	-66.62	-359.68	522.46	967.50	928.78	38.72	24.990				
13,200.00	12,512.81	12,825.55	12,128.82	19.20	19.73	-66.62	-459.67	523.32	967.50	927.94	39.56	24.455				
13,300.00	12,513.68	12,925.55	12,129.69	19.61	20.31	-66.62	-559.66	524.18	967.50	926.95	40.55	23.858				
13,400.00	12,514.56	13,025.55	12,130.56	20.11	20.97	-66.61	-659.65	525.04	967.50	925.83	41.67	23.217				
13,500.00	12,515.43	13,125.55	12,131.43	20.70	21.70	-66.61	-759.65	525.90	967.50	924.59	42.91	22.545				
13,600.00	12,516.30	13,225.55	12,132.31	21.37	22.48	-66.61	-859.64	526.76	967.50	923.24	44.27	21.856				
13,700.00	12,517.18	13,325.55	12,133.18	22.12	23.33	-66.61	-959.63	527.62	967.50	921.78	45.72	21.161				
13,800.00	12,518.05	13,425.55	12,134.05	22.93	24.22	-66.61	-1,059.62	528.49	967.51	920.24	47.27	20.469				
13,900.00	12,518.92	13,525.55	12,134.92	23.80	25.16	-66.61	-1,159.62	529.35	967.51	918.61	48.90	19.787				
14,000.00	12,519.80	13,625.55	12,135.79	24.73	26.14	-66.61	-1,259.61	530.21	967.51	916.91	50.60	19.120				
14,100.00	12,520.67	13,725.55	12,136.66	25.70	27.16	-66.61	-1,359.60	531.07	967.51	915.13	52.37	18.473				
14,200.00	12,521.54	13,825.55	12,137.53	26.70	28.20	-66.61	-1,459.59	531.93	967.51	913.30	54.21	17.848				
14,300.00	12,522.42	13,925.55	12,138.40	27.75	29.28	-66.61	-1,559.59	532.79	967.51	911.41	56.10	17.247				
14,400.00	12,523.29	14,025.55	12,139.28	28.82	30.38	-66.61	-1,659.58	533.65	967.51	909.47	58.04	16.671				
14,500.00	12,524.16	14,125.55	12,140.15	29.91	31.50	-66.61	-1,759.57	534.51	967.51	907.49	60.02	16.120				
14,600.00	12,525.04	14,225.55	12,141.02	31.04	32.64	-66.61	-1,859.56	535.37	967.51	905.47	62.05	15.594				
14,700.00	12,525.91	14,325.55	12,141.89	32.18	33.80	-66.61	-1,959.56	536.23	967.51	903.41	64.11	15.092				
14,800.00	12,526.78	14,425.55	12,142.76	33.34	34.97	-66.61	-2,059.55	537.09	967.51	901.31	66.20	14.614				
14,900.00	12,527.66	14,525.55	12,143.63	34.51	36.16	-66.61	-2,159.54	537.96	967.51	899.19	68.33	14.160				
15,000.00	12,528.53	14,625.55	12,144.50	35.70	37.36	-66.61	-2,259.53	538.82	967.51	897.03	70.48	13.727				
15,100.00	12,529.40	14,725.55	12,145.38	36.91	38.57	-66.61	-2,359.53	539.68	967.52	894.86	72.66	13.316				
15,200.00	12,530.28	14,825.55	12,146.25	38.12	39.80	-66.61	-2,459.52	540.54	967.52	892.66	74.86	12.924				
15,300.00	12,531.15	14,925.55	12,147.12	39.35	41.03	-66.61	-2,559.51	541.40	967.52	890.43	77.08	12.552				

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 215H
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 215H	Survey Calculation Method:	Minimum 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: 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	12,532.02	15,025.55	12,147.99	40.58	42.27	-66.61	-2,659.50	542.26	967.52	888.19	79.32	12.197	
15,500.00	12,532.89	15,125.55	12,148.86	41.82	43.52	-66.61	-2,759.50	543.12	967.52	885.94	81.58	11.859	
15,600.00	12,533.77	15,225.55	12,149.73	43.08	44.77	-66.61	-2,859.49	543.98	967.52	883.66	83.86	11.538	
15,700.00	12,534.64	15,325.55	12,150.60	44.34	46.04	-66.61	-2,959.48	544.84	967.52	881.37	86.15	11.231	
15,800.00	12,535.51	15,425.55	12,151.48	45.60	47.31	-66.61	-3,059.47	545.70	967.52	879.07	88.45	10.938	
15,900.00	12,536.39	15,525.55	12,152.35	46.87	48.58	-66.61	-3,159.47	546.57	967.52	876.75	90.77	10.659	
16,000.00	12,537.26	15,625.55	12,153.22	48.15	49.86	-66.61	-3,259.46	547.43	967.52	874.43	93.10	10.393	
16,100.00	12,538.13	15,725.55	12,154.09	49.43	51.14	-66.61	-3,359.45	548.29	967.52	872.09	95.44	10.138	
16,200.00	12,539.01	15,825.55	12,154.96	50.72	52.43	-66.61	-3,459.44	549.15	967.52	869.74	97.79	9.894	
16,300.00	12,539.88	15,925.55	12,155.83	52.01	53.73	-66.61	-3,559.44	550.01	967.52	867.38	100.14	9.661	
16,400.00	12,540.75	16,025.55	12,156.70	53.30	55.02	-66.61	-3,659.43	550.87	967.53	865.01	102.51	9.438	
16,500.00	12,541.63	16,125.55	12,157.58	54.60	56.32	-66.61	-3,759.42	551.73	967.53	862.64	104.89	9.225	
16,600.00	12,542.50	16,225.55	12,158.45	55.90	57.63	-66.61	-3,859.41	552.59	967.53	860.26	107.27	9.020	
16,700.00	12,543.37	16,325.55	12,159.32	57.21	58.93	-66.61	-3,959.41	553.45	967.53	857.87	109.66	8.823	
16,800.00	12,544.25	16,425.55	12,160.19	58.52	60.24	-66.61	-4,059.40	554.31	967.53	855.47	112.06	8.634	
16,900.00	12,545.12	16,525.55	12,161.06	59.83	61.55	-66.61	-4,159.39	555.18	967.53	853.07	114.46	8.453	
17,000.00	12,545.99	16,625.55	12,161.93	61.14	62.87	-66.61	-4,259.38	556.04	967.53	850.66	116.87	8.279	
17,100.00	12,546.87	16,725.55	12,162.80	62.46	64.19	-66.61	-4,359.38	556.90	967.53	848.25	119.28	8.111	
17,200.00	12,547.74	16,825.55	12,163.68	63.78	65.51	-66.61	-4,459.37	557.76	967.53	845.83	121.70	7.950	
17,300.00	12,548.61	16,925.55	12,164.55	65.10	66.83	-66.61	-4,559.36	558.62	967.53	843.41	124.13	7.795	
17,400.00	12,549.49	17,025.55	12,165.42	66.42	68.15	-66.61	-4,659.35	559.48	967.53	840.98	126.56	7.645	
17,500.00	12,550.36	17,125.55	12,166.29	67.75	69.47	-66.61	-4,759.35	560.34	967.53	838.55	128.99	7.501	
17,600.00	12,551.23	17,225.55	12,167.16	69.07	70.80	-66.61	-4,859.34	561.20	967.54	836.11	131.43	7.362	
17,700.00	12,552.11	17,325.55	12,168.03	70.40	72.13	-66.61	-4,959.33	562.06	967.54	833.67	133.87	7.228	
17,800.00	12,552.98	17,425.55	12,168.90	71.73	73.46	-66.61	-5,059.32	562.92	967.54	831.23	136.31	7.098	
17,900.00	12,553.85	17,525.55	12,169.78	73.06	74.79	-66.61	-5,159.32	563.79	967.54	828.78	138.76	6.973	
18,000.00	12,554.73	17,625.55	12,170.65	74.40	76.12	-66.61	-5,259.31	564.65	967.54	826.33	141.21	6.852	
18,100.00	12,555.60	17,725.55	12,171.52	75.73	77.46	-66.61	-5,359.30	565.51	967.54	823.87	143.67	6.735	
18,200.00	12,556.47	17,825.55	12,172.39	77.06	78.79	-66.61	-5,459.29	566.37	967.54	821.42	146.12	6.621	
18,300.00	12,557.35	17,925.55	12,173.26	78.40	80.13	-66.61	-5,559.29	567.23	967.54	818.96	148.58	6.512	
18,400.00	12,558.22	18,025.55	12,174.13	79.74	81.47	-66.61	-5,659.28	568.09	967.54	816.49	151.05	6.406	
18,500.00	12,559.09	18,125.55	12,175.00	81.08	82.80	-66.61	-5,759.27	568.95	967.54	814.03	153.51	6.303	
18,600.00	12,559.97	18,225.55	12,175.88	82.42	84.14	-66.61	-5,859.26	569.81	967.54	811.56	155.98	6.203	
18,700.00	12,560.84	18,325.55	12,176.75	83.76	85.48	-66.61	-5,959.26	570.67	967.54	809.09	158.45	6.106	
18,800.00	12,561.71	18,425.55	12,177.62	85.10	86.83	-66.61	-6,059.25	571.53	967.54	806.62	160.92	6.012	
18,900.00	12,562.59	18,525.55	12,178.49	86.44	88.17	-66.61	-6,159.24	572.40	967.55	804.15	163.40	5.921	
19,000.00	12,563.46	18,625.55	12,179.36	87.79	89.51	-66.61	-6,259.23	573.26	967.55	801.67	165.87	5.833	
19,100.00	12,564.33	18,725.55	12,180.23	89.13	90.86	-66.61	-6,359.23	574.12	967.55	799.19	168.35	5.747	
19,200.00	12,565.20	18,825.55	12,181.10	90.48	92.20	-66.61	-6,459.22	574.98	967.55	796.71	170.83	5.664	
19,300.00	12,566.08	18,925.55	12,181.97	91.82	93.55	-66.61	-6,559.21	575.84	967.55	794.23	173.32	5.583	
19,400.00	12,566.95	19,025.55	12,182.85	93.17	94.89	-66.61	-6,659.20	576.70	967.55	791.75	175.80	5.504	
19,500.00	12,567.82	19,125.55	12,183.72	94.51	96.24	-66.61	-6,759.20	577.56	967.55	789.27	178.28	5.427	
19,600.00	12,568.70	19,225.55	12,184.59	95.86	97.59	-66.61	-6,859.19	578.42	967.55	786.78	180.77	5.352	
19,700.00	12,569.57	19,325.55	12,185.46	97.21	98.94	-66.61	-6,959.18	579.28	967.55	784.29	183.26	5.280	
19,800.00	12,570.44	19,425.55	12,186.33	98.56	100.28	-66.61	-7,059.17	580.14	967.55	781.80	185.75	5.209	
19,900.00	12,571.32	19,525.55	12,187.20	99.91	101.63	-66.61	-7,159.17	581.01	967.55	779.31	188.24	5.140	
20,000.00	12,572.19	19,625.55	12,188.07	101.26	102.98	-66.61	-7,259.16	581.87	967.55	776.82	190.73	5.073	
20,100.00	12,573.06	19,725.55	12,188.95	102.61	104.33	-66.61	-7,359.15	582.73	967.55	774.33	193.23	5.007	
20,200.00	12,573.94	19,825.55	12,189.82	103.96	105.68	-66.61	-7,459.14	583.59	967.56	771.83	195.72	4.944	
20,300.00	12,574.81	19,925.55	12,190.69	105.31	107.04	-66.61	-7,559.14	584.45	967.56	769.34	198.22	4.881	
20,400.00	12,575.68	20,025.55	12,191.56	106.66	108.39	-66.61	-7,659.13	585.31	967.56	766.84	200.72	4.821	
20,500.00	12,576.56	20,125.55	12,192.43	108.02	109.74	-66.61	-7,759.12	586.17	967.56	764.34	203.21	4.761	

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 215H
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 215H	Survey Calculation Method:	Minimum 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:			
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	12,577.43	20,225.55	12,193.30	109.37	111.09	-66.61	-7,859.11	587.03	967.56	761.85	205.71	4.703			
20,700.00	12,578.30	20,325.55	12,194.17	110.72	112.45	-66.61	-7,959.11	587.89	967.56	759.35	208.21	4.647			
20,800.00	12,579.18	20,425.55	12,195.05	112.08	113.80	-66.61	-8,059.10	588.75	967.56	756.85	210.71	4.592			
20,900.00	12,580.05	20,525.55	12,195.92	113.43	115.15	-66.61	-8,159.09	589.62	967.56	754.34	213.22	4.538			
21,000.00	12,580.92	20,625.55	12,196.79	114.79	116.51	-66.61	-8,259.08	590.48	967.56	751.84	215.72	4.485			
21,100.00	12,581.80	20,725.55	12,197.66	116.14	117.86	-66.61	-8,359.08	591.34	967.56	749.34	218.22	4.434			
21,200.00	12,582.67	20,825.55	12,198.53	117.50	119.22	-66.61	-8,459.07	592.20	967.56	746.83	220.73	4.383			
21,300.00	12,583.54	20,925.55	12,199.40	118.85	120.57	-66.61	-8,559.06	593.06	967.56	744.33	223.23	4.334			
21,400.00	12,584.42	21,025.55	12,200.27	120.21	121.93	-66.61	-8,659.05	593.92	967.57	741.82	225.74	4.286			
21,500.00	12,585.29	21,125.55	12,201.15	121.56	123.28	-66.61	-8,759.05	594.78	967.57	739.32	228.25	4.239			
21,600.00	12,586.16	21,225.55	12,202.02	122.92	124.64	-66.61	-8,859.04	595.64	967.57	736.81	230.76	4.193			
21,700.00	12,587.04	21,325.55	12,202.89	124.28	126.00	-66.61	-8,959.03	596.50	967.57	734.30	233.26	4.148			
21,800.00	12,587.91	21,425.55	12,203.76	125.63	127.35	-66.61	-9,059.02	597.36	967.57	731.79	235.77	4.104			
21,900.00	12,588.78	21,525.55	12,204.63	126.99	128.71	-66.61	-9,159.02	598.22	967.57	729.29	238.28	4.061			
22,000.00	12,589.66	21,625.55	12,205.50	128.35	130.07	-66.61	-9,259.01	599.09	967.57	726.78	240.79	4.018			
22,100.00	12,590.53	21,725.55	12,206.37	129.71	131.43	-66.61	-9,359.00	599.95	967.57	724.27	243.31	3.977			
22,200.00	12,591.40	21,825.55	12,207.25	131.07	132.78	-66.61	-9,458.99	600.81	967.57	721.75	245.82	3.936			
22,300.00	12,592.28	21,925.55	12,208.12	132.42	134.14	-66.61	-9,558.99	601.67	967.57	719.24	248.33	3.896			
22,400.00	12,593.15	22,025.55	12,208.99	133.78	135.50	-66.61	-9,658.98	602.53	967.57	716.73	250.84	3.857			
22,500.00	12,594.02	22,125.55	12,209.86	135.14	136.86	-66.61	-9,758.97	603.39	967.57	714.22	253.36	3.819			
22,600.00	12,594.89	22,225.55	12,210.73	136.50	138.22	-66.61	-9,858.96	604.25	967.57	711.70	255.87	3.782			
22,700.00	12,595.77	22,325.55	12,211.60	137.86	139.58	-66.61	-9,958.96	605.11	967.58	709.19	258.38	3.745			
22,800.00	12,596.64	22,425.55	12,212.47	139.22	140.94	-66.61	-10,058.95	605.97	967.58	706.68	260.90	3.709			
22,800.18	12,596.64	22,425.73	12,212.48	139.22	140.94	-66.61	-10,059.13	605.98	967.58	706.67	260.90	3.709			
22,806.75	12,596.70	22,428.60	12,212.50	139.31	140.98	-66.61	-10,062.00	606.00	967.58	706.54	261.04	3.707	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 215H
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 215H	Survey Calculation Method:	Minimum 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: 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	
6,400.00	6,361.15	6,417.33	6,361.15	13.33	14.09	89.60	448.93	1,916.55	2,289.03	2,262.12	26.91	85.047		
6,500.00	6,461.15	6,517.33	6,461.15	13.42	14.12	89.60	448.93	1,916.55	2,289.03	2,262.01	27.03	84.688		
6,600.00	6,561.15	6,617.33	6,561.15	13.50	14.15	89.60	448.93	1,916.55	2,289.03	2,261.89	27.14	84.330		
6,700.00	6,661.15	6,717.33	6,661.15	13.58	14.19	89.60	448.93	1,916.55	2,289.03	2,261.78	27.26	83.973		
6,800.00	6,761.15	6,817.33	6,761.15	13.66	14.23	89.60	448.93	1,916.55	2,289.03	2,261.66	27.37	83.619		
6,900.00	6,861.15	6,917.33	6,861.15	13.74	14.26	89.60	448.93	1,916.55	2,289.03	2,261.54	27.49	83.266		
7,000.00	6,961.15	7,017.33	6,961.15	13.83	14.30	89.60	448.93	1,916.55	2,289.03	2,261.43	27.61	82.916		
7,100.00	7,061.15	7,117.33	7,061.15	13.91	14.34	89.60	448.93	1,916.55	2,289.03	2,261.31	27.72	82.566		
7,200.00	7,161.15	7,217.33	7,161.15	13.99	14.37	89.60	448.93	1,916.55	2,289.03	2,261.19	27.84	82.219		
7,300.00	7,261.15	7,317.33	7,261.15	14.07	14.41	89.60	448.93	1,916.55	2,289.03	2,261.08	27.96	81.874		
7,400.00	7,361.15	7,417.33	7,361.15	14.15	14.45	89.60	448.93	1,916.55	2,289.03	2,260.96	28.08	81.530		
7,500.00	7,461.15	7,517.33	7,461.15	14.24	14.49	89.60	448.93	1,916.55	2,289.03	2,260.84	28.19	81.188		
7,600.00	7,561.15	7,617.33	7,561.15	14.32	14.53	89.60	448.93	1,916.55	2,289.03	2,260.72	28.31	80.848		
7,700.00	7,661.15	7,717.33	7,661.15	14.40	14.57	89.60	448.93	1,916.55	2,289.03	2,260.60	28.43	80.510		
7,800.00	7,761.15	7,817.33	7,761.15	14.48	14.61	89.60	448.93	1,916.55	2,289.03	2,260.48	28.55	80.173		
7,900.00	7,861.15	7,917.33	7,861.15	14.56	14.65	89.60	448.93	1,916.55	2,289.03	2,260.36	28.67	79.838		
8,000.00	7,961.15	8,017.33	7,961.15	14.65	14.69	89.60	448.93	1,916.55	2,289.03	2,260.24	28.79	79.505		
8,100.00	8,061.15	8,117.33	8,061.15	14.73	14.73	89.60	448.93	1,916.55	2,289.03	2,260.12	28.91	79.174		
8,200.00	8,161.15	8,217.33	8,161.15	14.81	14.77	89.60	448.93	1,916.55	2,289.03	2,260.00	29.03	78.845		
8,300.00	8,261.15	8,317.33	8,261.15	14.89	14.81	89.60	448.93	1,916.55	2,289.03	2,259.88	29.15	78.517		
8,400.00	8,361.15	8,417.33	8,361.15	14.98	14.85	89.60	448.93	1,916.55	2,289.03	2,259.76	29.27	78.191		
8,500.00	8,461.15	8,517.33	8,461.15	15.06	14.89	89.60	448.93	1,916.55	2,289.03	2,259.64	29.40	77.867		
8,600.00	8,561.15	8,617.33	8,561.15	15.14	14.94	89.60	448.93	1,916.55	2,289.03	2,259.52	29.52	77.545		
8,700.00	8,661.15	8,717.33	8,661.15	15.22	14.98	89.60	448.93	1,916.55	2,289.03	2,259.39	29.64	77.224		
8,800.00	8,761.15	8,817.33	8,761.15	15.30	15.02	89.60	448.93	1,916.55	2,289.03	2,259.27	29.76	76.905		
8,900.00	8,861.15	8,917.33	8,861.15	15.39	15.07	89.60	448.93	1,916.55	2,289.03	2,259.15	29.89	76.588		
9,000.00	8,961.15	9,017.33	8,961.15	15.47	15.11	89.60	448.93	1,916.55	2,289.03	2,259.02	30.01	76.273		
9,100.00	9,061.15	9,117.33	9,061.15	15.55	15.15	89.60	448.93	1,916.55	2,289.03	2,258.90	30.13	75.960		
9,200.00	9,161.15	9,217.33	9,161.15	15.63	15.20	89.60	448.93	1,916.55	2,289.03	2,258.78	30.26	75.648		
9,300.00	9,261.15	9,317.33	9,261.15	15.71	15.24	89.60	448.93	1,916.55	2,289.03	2,258.65	30.38	75.338		
9,400.00	9,361.15	9,417.33	9,361.15	15.80	15.29	89.60	448.93	1,916.55	2,289.03	2,258.53	30.51	75.029		
9,500.00	9,461.15	9,517.33	9,461.15	15.88	15.34	89.60	448.93	1,916.55	2,289.03	2,258.40	30.63	74.723		
9,600.00	9,561.15	9,617.33	9,561.15	15.96	15.38	89.60	448.93	1,916.55	2,289.03	2,258.28	30.76	74.418		
9,700.00	9,661.15	9,717.33	9,661.15	16.04	15.43	89.60	448.93	1,916.55	2,289.03	2,258.15	30.88	74.115		
9,800.00	9,761.15	9,817.33	9,761.15	16.12	15.47	89.60	448.93	1,916.55	2,289.03	2,258.02	31.01	73.814		
9,900.00	9,861.15	9,917.33	9,861.15	16.21	15.52	89.60	448.93	1,916.55	2,289.03	2,257.90	31.14	73.514		
10,000.00	9,961.15	10,017.33	9,961.15	16.29	15.57	89.60	448.93	1,916.55	2,289.03	2,257.77	31.26	73.216		
10,100.00	10,061.15	10,117.33	10,061.15	16.37	15.62	89.60	448.93	1,916.55	2,289.03	2,257.64	31.39	72.920		
10,200.00	10,161.15	10,217.33	10,161.15	16.45	15.66	89.60	448.93	1,916.55	2,289.03	2,257.52	31.52	72.625		
10,300.00	10,261.15	10,317.33	10,261.15	16.54	15.71	89.60	448.93	1,916.55	2,289.03	2,257.39	31.65	72.332		
10,400.00	10,361.15	10,417.33	10,361.15	16.62	15.76	89.60	448.93	1,916.55	2,289.03	2,257.26	31.77	72.041		
10,500.00	10,461.15	10,517.33	10,461.15	16.70	15.81	89.60	448.93	1,916.55	2,289.03	2,257.13	31.90	71.752		
10,600.00	10,561.15	10,617.33	10,561.15	16.78	15.86	89.60	448.93	1,916.55	2,289.03	2,257.00	32.03	71.464		
10,700.00	10,661.15	10,717.33	10,661.15	16.86	15.91	89.60	448.93	1,916.55	2,289.03	2,256.88	32.16	71.178		
10,800.00	10,761.15	10,817.33	10,761.15	16.95	15.96	89.60	448.93	1,916.55	2,289.03	2,256.75	32.29	70.893		
10,900.00	10,861.15	10,917.33	10,861.15	17.03	16.01	89.60	448.93	1,916.55	2,289.03	2,256.62	32.42	70.611		
11,000.00	10,961.15	11,017.33	10,961.15	17.11	16.06	89.60	448.93	1,916.55	2,289.03	2,256.49	32.55	70.329		
11,100.00	11,061.15	11,117.33	11,061.15	17.19	16.11	89.60	448.93	1,916.55	2,289.03	2,256.36	32.68	70.050		
11,200.00	11,161.15	11,217.33	11,161.15	17.27	16.16	89.60	448.93	1,916.55	2,289.03	2,256.23	32.81	69.772		
11,300.00	11,261.15	11,317.33	11,261.15	17.36	16.21	89.60	448.93	1,916.55	2,289.03	2,256.10	32.94	69.496		
11,400.00	11,361.15	11,417.33	11,361.15	17.44	16.27	89.60	448.93	1,916.55	2,289.03	2,255.97	33.07	69.221		
11,500.00	11,461.15	11,517.33	11,461.15	17.52	16.31	89.60	448.93	1,916.55	2,289.03	2,255.84	33.19	68.957		

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 215H
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 215H	Survey Calculation Method:	Minimum 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)		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
11,600.00	11,561.15	11,628.34	11,571.94	17.60	16.43	89.73	443.88	1,916.40	2,288.88	2,255.54	33.33	68.664	CC
11,700.00	11,661.15	11,739.43	11,679.93	17.69	16.69	90.36	418.62	1,915.62	2,288.18	2,254.57	33.60	68.096	
11,800.00	11,761.15	11,837.74	11,769.88	17.77	16.98	91.35	379.27	1,914.42	2,287.50	2,253.52	33.98	67.322	
11,836.34	11,797.49	11,869.67	11,797.49	17.80	17.10	91.75	363.23	1,913.93	2,287.43	2,253.30	34.13	67.016	
11,900.00	11,861.15	11,920.68	11,839.61	17.85	17.30	92.47	334.51	1,913.05	2,287.71	2,253.30	34.41	66.475	
12,000.00	11,961.14	11,989.20	11,891.86	17.90	17.62	-85.87	290.27	1,911.70	2,289.61	2,254.76	34.85	65.703	
12,100.00	12,060.18	12,050.00	11,933.50	17.93	17.97	-84.59	246.03	1,910.35	2,292.76	2,257.58	35.19	65.162	
12,200.00	12,155.47	12,112.69	11,971.29	17.96	18.38	-83.31	196.06	1,908.82	2,296.49	2,260.95	35.55	64.604	
12,300.00	12,244.13	12,172.05	12,001.83	17.98	18.83	-82.15	145.22	1,907.27	2,300.37	2,264.47	35.90	64.076	
12,400.00	12,323.46	12,230.36	12,026.55	18.01	19.31	-81.12	92.46	1,905.66	2,303.98	2,267.71	36.27	63.520	
12,500.00	12,391.04	12,287.90	12,045.57	18.04	19.82	-80.26	38.21	1,904.00	2,306.97	2,270.29	36.68	62.898	
12,600.00	12,444.83	12,350.00	12,059.87	18.09	20.40	-79.55	-22.16	1,902.16	2,309.04	2,271.86	37.18	62.103	
12,700.00	12,483.18	12,400.00	12,066.58	18.16	20.90	-79.15	-71.67	1,900.64	2,309.93	2,272.30	37.63	61.384	
12,800.00	12,504.94	12,448.18	12,068.94	18.27	21.38	-78.96	-119.76	1,899.17	2,309.53	2,271.41	38.12	60.586	
12,900.00	12,510.19	12,500.00	12,069.31	18.42	21.92	-78.98	-171.56	1,898.06	2,307.87	2,269.17	38.70	59.639	
12,984.88	12,510.93	12,561.66	12,069.74	18.59	22.57	-78.98	-233.22	1,897.96	2,307.15	2,267.67	39.47	58.446	
13,000.00	12,511.06	12,574.97	12,069.83	18.62	22.71	-78.97	-246.53	1,898.08	2,307.16	2,267.52	39.64	58.202	
13,100.00	12,511.94	12,674.97	12,070.53	18.88	23.79	-78.97	-346.52	1,898.98	2,307.24	2,266.23	41.00	56.271	
13,200.00	12,512.81	12,774.97	12,071.23	19.20	24.89	-78.97	-446.52	1,899.89	2,307.32	2,264.82	42.49	54.302	
13,300.00	12,513.68	12,874.97	12,071.92	19.61	26.02	-78.96	-546.51	1,900.80	2,307.39	2,263.30	44.09	52.329	
13,400.00	12,514.56	12,974.97	12,072.62	20.11	27.18	-78.96	-646.50	1,901.70	2,307.47	2,261.67	45.80	50.378	
13,500.00	12,515.43	13,074.97	12,073.32	20.70	28.35	-78.95	-746.50	1,902.61	2,307.55	2,259.94	47.61	48.471	
13,600.00	12,516.30	13,174.97	12,074.02	21.37	29.54	-78.95	-846.49	1,903.52	2,307.63	2,258.13	49.50	46.623	
13,700.00	12,517.18	13,274.97	12,074.72	22.12	30.74	-78.95	-946.48	1,904.42	2,307.71	2,256.25	51.46	44.844	
13,800.00	12,518.05	13,374.97	12,075.42	22.93	31.95	-78.94	-1,046.48	1,905.33	2,307.79	2,254.29	53.49	43.142	
13,900.00	12,518.92	13,474.97	12,076.11	23.80	33.18	-78.94	-1,146.47	1,906.24	2,307.87	2,252.28	55.59	41.519	
14,000.00	12,519.80	13,574.97	12,076.81	24.73	34.42	-78.93	-1,246.46	1,907.15	2,307.94	2,250.21	57.73	39.977	
14,100.00	12,520.67	13,674.97	12,077.51	25.70	35.67	-78.93	-1,346.46	1,908.05	2,308.02	2,248.10	59.92	38.515	
14,200.00	12,521.54	13,774.97	12,078.21	26.70	36.92	-78.93	-1,446.45	1,908.96	2,308.10	2,245.94	62.16	37.131	
14,300.00	12,522.42	13,874.97	12,078.91	27.75	38.18	-78.92	-1,546.44	1,909.87	2,308.18	2,243.75	64.43	35.822	
14,400.00	12,523.29	13,974.97	12,079.60	28.82	39.45	-78.92	-1,646.44	1,910.77	2,308.26	2,241.52	66.74	34.585	
14,500.00	12,524.16	14,074.97	12,080.30	29.91	40.73	-78.91	-1,746.43	1,911.68	2,308.34	2,239.26	69.08	33.416	
14,600.00	12,525.04	14,174.97	12,081.00	31.04	42.01	-78.91	-1,846.42	1,912.59	2,308.42	2,236.97	71.44	32.312	
14,700.00	12,525.91	14,274.97	12,081.70	32.18	43.30	-78.91	-1,946.42	1,913.49	2,308.49	2,234.66	73.83	31.268	
14,800.00	12,526.78	14,374.97	12,082.40	33.34	44.59	-78.90	-2,046.41	1,914.40	2,308.57	2,232.33	76.24	30.280	
14,900.00	12,527.66	14,474.97	12,083.10	34.51	45.88	-78.90	-2,146.40	1,915.31	2,308.65	2,229.98	78.67	29.346	
15,000.00	12,528.53	14,574.97	12,083.79	35.70	47.18	-78.89	-2,246.40	1,916.21	2,308.73	2,227.61	81.12	28.462	
15,100.00	12,529.40	14,674.97	12,084.49	36.91	48.49	-78.89	-2,346.39	1,917.12	2,308.81	2,225.23	83.58	27.624	
15,200.00	12,530.28	14,774.97	12,085.19	38.12	49.79	-78.89	-2,446.38	1,918.03	2,308.89	2,222.83	86.06	26.830	
15,300.00	12,531.15	14,874.97	12,085.89	39.35	51.10	-78.88	-2,546.38	1,918.93	2,308.97	2,220.42	88.55	26.076	
15,400.00	12,532.02	14,974.97	12,086.59	40.58	52.42	-78.88	-2,646.37	1,919.84	2,309.05	2,217.99	91.05	25.360	
15,500.00	12,532.89	15,074.96	12,087.29	41.82	53.73	-78.87	-2,746.36	1,920.75	2,309.12	2,215.56	93.57	24.679	
15,600.00	12,533.77	15,174.96	12,087.98	43.08	55.05	-78.87	-2,846.35	1,921.65	2,309.20	2,213.11	96.09	24.032	
15,700.00	12,534.64	15,274.96	12,088.68	44.34	56.37	-78.87	-2,946.35	1,922.56	2,309.28	2,210.66	98.62	23.415	
15,800.00	12,535.51	15,374.96	12,089.38	45.60	57.69	-78.86	-3,046.34	1,923.47	2,309.36	2,208.20	101.17	22.828	
15,900.00	12,536.39	15,474.96	12,090.08	46.87	59.02	-78.86	-3,146.33	1,924.37	2,309.44	2,205.72	103.72	22.267	
16,000.00	12,537.26	15,574.96	12,090.78	48.15	60.35	-78.85	-3,246.33	1,925.28	2,309.52	2,203.25	106.27	21.732	
16,100.00	12,538.13	15,674.96	12,091.48	49.43	61.68	-78.85	-3,346.32	1,926.19	2,309.60	2,200.76	108.84	21.221	
16,200.00	12,539.01	15,774.96	12,092.17	50.72	63.01	-78.85	-3,446.31	1,927.10	2,309.68	2,198.27	111.41	20.732	
16,300.00	12,539.88	15,874.96	12,092.87	52.01	64.34	-78.84	-3,546.31	1,928.00	2,309.75	2,195.77	113.98	20.264	
16,400.00	12,540.75	15,974.96	12,093.57	53.30	65.67	-78.84	-3,646.30	1,928.91	2,309.83	2,193.27	116.57	19.816	
16,500.00	12,541.63	16,074.96	12,094.27	54.60	67.01	-78.83	-3,746.29	1,929.82	2,309.91	2,190.76	119.15	19.386	

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 215H
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 215H	Survey Calculation Method:	Minimum 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)			
16,600.00	12,542.50	16,174.96	12,094.97	55.90	68.34	-78.83	-3,846.29	1,930.72	2,309.99	2,188.25	121.74	18.974	
16,700.00	12,543.37	16,274.96	12,095.66	57.21	69.68	-78.82	-3,946.28	1,931.63	2,310.07	2,185.73	124.34	18.579	
16,800.00	12,544.25	16,374.96	12,096.36	58.52	71.02	-78.82	-4,046.27	1,932.54	2,310.15	2,183.21	126.94	18.199	
16,900.00	12,545.12	16,474.96	12,097.06	59.83	72.36	-78.82	-4,146.27	1,933.44	2,310.23	2,180.69	129.54	17.834	
17,000.00	12,545.99	16,574.96	12,097.76	61.14	73.70	-78.81	-4,246.26	1,934.35	2,310.31	2,178.16	132.15	17.482	
17,100.00	12,546.87	16,674.96	12,098.46	62.46	75.04	-78.81	-4,346.25	1,935.26	2,310.39	2,175.63	134.76	17.144	
17,200.00	12,547.74	16,774.96	12,099.16	63.78	76.39	-78.80	-4,446.25	1,936.16	2,310.47	2,173.09	137.37	16.819	
17,300.00	12,548.61	16,874.96	12,099.85	65.10	77.73	-78.80	-4,546.24	1,937.07	2,310.54	2,170.55	139.99	16.505	
17,400.00	12,549.49	16,974.96	12,100.55	66.42	79.07	-78.80	-4,646.23	1,937.98	2,310.62	2,168.01	142.61	16.202	
17,500.00	12,550.36	17,074.96	12,101.25	67.75	80.42	-78.79	-4,746.23	1,938.88	2,310.70	2,165.47	145.23	15.910	
17,600.00	12,551.23	17,174.96	12,101.95	69.07	81.77	-78.79	-4,846.22	1,939.79	2,310.78	2,162.92	147.86	15.628	
17,700.00	12,552.11	17,274.96	12,102.65	70.40	83.11	-78.78	-4,946.21	1,940.70	2,310.86	2,160.38	150.48	15.356	
17,800.00	12,552.98	17,374.96	12,103.35	71.73	84.46	-78.78	-5,046.21	1,941.60	2,310.94	2,157.83	153.11	15.093	
17,900.00	12,553.85	17,474.96	12,104.04	73.06	85.81	-78.78	-5,146.20	1,942.51	2,311.02	2,155.27	155.75	14.838	
18,000.00	12,554.73	17,574.96	12,104.74	74.40	87.16	-78.77	-5,246.19	1,943.42	2,311.10	2,152.72	158.38	14.592	
18,100.00	12,555.60	17,674.96	12,105.44	75.73	88.51	-78.77	-5,346.19	1,944.32	2,311.18	2,150.16	161.01	14.354	
18,200.00	12,556.47	17,774.96	12,106.14	77.06	89.86	-78.76	-5,446.18	1,945.23	2,311.26	2,147.60	163.65	14.123	
18,300.00	12,557.35	17,874.96	12,106.84	78.40	91.21	-78.76	-5,546.17	1,946.14	2,311.33	2,145.04	166.29	13.899	
18,400.00	12,558.22	17,974.96	12,107.53	79.74	92.56	-78.76	-5,646.17	1,947.04	2,311.41	2,142.48	168.93	13.683	
18,500.00	12,559.09	18,074.96	12,108.23	81.08	93.91	-78.75	-5,746.16	1,947.95	2,311.49	2,139.92	171.57	13.472	
18,600.00	12,559.97	18,174.96	12,108.93	82.42	95.27	-78.75	-5,846.15	1,948.86	2,311.57	2,137.36	174.22	13.268	
18,700.00	12,560.84	18,274.96	12,109.63	83.76	96.62	-78.74	-5,946.15	1,949.77	2,311.65	2,134.79	176.86	13.070	
18,800.00	12,561.71	18,374.96	12,110.33	85.10	97.97	-78.74	-6,046.14	1,950.67	2,311.73	2,132.22	179.51	12.878	
18,900.00	12,562.59	18,474.96	12,111.03	86.44	99.33	-78.74	-6,146.13	1,951.58	2,311.81	2,129.65	182.15	12.691	
19,000.00	12,563.46	18,574.96	12,111.72	87.79	100.68	-78.73	-6,246.13	1,952.49	2,311.89	2,127.09	184.80	12.510	
19,100.00	12,564.33	18,674.96	12,112.42	89.13	102.04	-78.73	-6,346.12	1,953.39	2,311.97	2,124.51	187.45	12.334	
19,200.00	12,565.20	18,774.96	12,113.12	90.48	103.39	-78.72	-6,446.11	1,954.30	2,312.05	2,121.94	190.10	12.162	
19,300.00	12,566.08	18,874.96	12,113.82	91.82	104.75	-78.72	-6,546.11	1,955.21	2,312.13	2,119.37	192.76	11.995	
19,400.00	12,566.95	18,974.96	12,114.52	93.17	106.10	-78.72	-6,646.10	1,956.11	2,312.21	2,116.80	195.41	11.833	
19,500.00	12,567.82	19,074.96	12,115.22	94.51	107.46	-78.71	-6,746.09	1,957.02	2,312.28	2,114.22	198.06	11.674	
19,600.00	12,568.70	19,174.96	12,115.91	95.86	108.81	-78.71	-6,846.09	1,957.93	2,312.36	2,111.65	200.72	11.520	
19,700.00	12,569.57	19,274.96	12,116.61	97.21	110.17	-78.70	-6,946.08	1,958.83	2,312.44	2,109.07	203.37	11.370	
19,800.00	12,570.44	19,374.96	12,117.31	98.56	111.53	-78.70	-7,046.07	1,959.74	2,312.52	2,106.49	206.03	11.224	
19,900.00	12,571.32	19,474.96	12,118.01	99.91	112.89	-78.70	-7,146.07	1,960.65	2,312.60	2,103.91	208.69	11.082	
20,000.00	12,572.19	19,574.96	12,118.71	101.26	114.24	-78.69	-7,246.06	1,961.55	2,312.68	2,101.34	211.35	10.943	
20,100.00	12,573.06	19,674.96	12,119.40	102.61	115.60	-78.69	-7,346.05	1,962.46	2,312.76	2,098.76	214.00	10.807	
20,200.00	12,573.94	19,774.96	12,120.10	103.96	116.96	-78.68	-7,446.05	1,963.37	2,312.84	2,096.18	216.66	10.675	
20,300.00	12,574.81	19,874.96	12,120.80	105.31	118.32	-78.68	-7,546.04	1,964.27	2,312.92	2,093.59	219.32	10.546	
20,400.00	12,575.68	19,974.96	12,121.50	106.66	119.68	-78.68	-7,646.03	1,965.18	2,313.00	2,091.01	221.99	10.420	
20,500.00	12,576.56	20,074.96	12,122.20	108.02	121.04	-78.67	-7,746.03	1,966.09	2,313.08	2,088.43	224.65	10.296	
20,600.00	12,577.43	20,174.96	12,122.90	109.37	122.40	-78.67	-7,846.02	1,966.99	2,313.16	2,085.85	227.31	10.176	
20,700.00	12,578.30	20,274.96	12,123.59	110.72	123.75	-78.66	-7,946.01	1,967.90	2,313.24	2,083.26	229.97	10.059	
20,800.00	12,579.18	20,374.96	12,124.29	112.08	125.11	-78.66	-8,046.01	1,968.81	2,313.32	2,080.68	232.64	9.944	
20,900.00	12,580.05	20,474.96	12,124.99	113.43	126.47	-78.66	-8,146.00	1,969.72	2,313.40	2,078.10	235.30	9.832	
21,000.00	12,580.92	20,574.96	12,125.69	114.79	127.83	-78.65	-8,245.99	1,970.62	2,313.47	2,075.51	237.96	9.722	
21,100.00	12,581.80	20,674.96	12,126.39	116.14	129.19	-78.65	-8,345.99	1,971.53	2,313.55	2,072.93	240.63	9.615	
21,200.00	12,582.67	20,774.96	12,127.09	117.50	130.56	-78.64	-8,445.98	1,972.44	2,313.63	2,070.34	243.29	9.510	
21,300.00	12,583.54	20,874.96	12,127.78	118.85	131.92	-78.64	-8,545.97	1,973.34	2,313.71	2,067.75	245.96	9.407	
21,400.00	12,584.42	20,974.96	12,128.48	120.21	133.28	-78.64	-8,645.97	1,974.25	2,313.79	2,065.17	248.63	9.306	
21,500.00	12,585.29	21,074.96	12,129.18	121.56	134.64	-78.63	-8,745.96	1,975.16	2,313.87	2,062.58	251.29	9.208	
21,600.00	12,586.16	21,174.96	12,129.88	122.92	136.00	-78.63	-8,845.95	1,976.06	2,313.95	2,059.99	253.96	9.112	
21,700.00	12,587.04	21,274.95	12,130.58	124.28	137.36	-78.62	-8,945.95	1,976.97	2,314.03	2,057.40	256.63	9.017	

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 215H
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 215H	Survey Calculation Method:	Minimum 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)							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)
21,800.00	12,587.91	21,374.95	12,131.28	125.63	138.72	-78.62	-9,045.94	1,977.88	2,314.11	2,054.82	259.29	8.925	
21,900.00	12,588.78	21,474.95	12,131.97	126.99	140.08	-78.62	-9,145.93	1,978.78	2,314.19	2,052.23	261.96	8.834	
22,000.00	12,589.66	21,574.95	12,132.67	128.35	141.45	-78.61	-9,245.93	1,979.69	2,314.27	2,049.64	264.63	8.745	
22,100.00	12,590.53	21,674.95	12,133.37	129.71	142.81	-78.61	-9,345.92	1,980.60	2,314.35	2,047.05	267.30	8.658	
22,200.00	12,591.40	21,774.95	12,134.07	131.07	144.17	-78.60	-9,445.91	1,981.50	2,314.43	2,044.46	269.97	8.573	
22,300.00	12,592.28	21,874.95	12,134.77	132.42	145.53	-78.60	-9,545.91	1,982.41	2,314.51	2,041.87	272.64	8.489	
22,400.00	12,593.15	21,974.95	12,135.46	133.78	146.89	-78.60	-9,645.90	1,983.32	2,314.59	2,039.28	275.31	8.407	
22,500.00	12,594.02	22,074.95	12,136.16	135.14	148.26	-78.59	-9,745.89	1,984.22	2,314.67	2,036.69	277.98	8.327	
22,600.00	12,594.89	22,174.95	12,136.86	136.50	149.62	-78.59	-9,845.89	1,985.13	2,314.75	2,034.10	280.65	8.248	
22,700.00	12,595.77	22,274.95	12,137.56	137.86	150.98	-78.58	-9,945.88	1,986.04	2,314.83	2,031.51	283.32	8.170	
22,800.00	12,596.64	22,374.95	12,138.26	139.22	152.34	-78.58	-10,045.87	1,986.94	2,314.91	2,028.92	285.99	8.094	
22,806.75	12,596.70	22,381.08	12,138.30	139.31	152.43	-78.58	-10,052.00	1,987.00	2,314.91	2,028.75	286.16	8.090	ES, SF

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 215H
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 215H	Survey Calculation Method:	Minimum 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 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	69.20	881.00	2,319.00	2,480.71					
100.00	100.00	101.00	100.00	0.98	0.99	69.20	881.00	2,319.00	2,480.71	2,478.74	1.97	1,260.747	CC ES	
200.00	200.00	201.00	200.00	1.56	1.57	69.20	881.00	2,319.00	2,480.71	2,477.58	3.13	793.471		
300.00	300.00	301.00	300.00	1.98	1.98	69.20	881.00	2,319.00	2,480.71	2,476.74	3.97	625.528		
400.00	399.99	400.99	399.99	2.41	2.33	109.91	881.00	2,319.00	2,481.16	2,476.48	4.67	531.214		
500.00	499.91	500.91	499.91	2.79	2.64	109.98	881.00	2,319.00	2,482.50	2,477.21	5.29	469.528		
600.00	599.69	600.69	599.69	3.12	2.91	110.09	881.00	2,319.00	2,484.74	2,478.89	5.85	425.063		
700.00	699.32	700.32	699.32	3.26	3.16	110.26	881.00	2,319.00	2,487.70	2,481.47	6.23	399.146		
800.00	798.94	799.94	798.94	3.51	3.40	110.45	881.00	2,319.00	2,490.75	2,484.03	6.72	370.603		
900.00	898.56	899.56	898.56	3.76	3.62	110.63	881.00	2,319.00	2,493.81	2,486.63	7.18	347.176		
1,000.00	998.18	999.18	998.18	3.99	3.83	110.82	881.00	2,319.00	2,496.91	2,489.28	7.62	327.491		
1,100.00	1,097.80	1,098.80	1,097.80	4.22	4.04	111.00	881.00	2,319.00	2,500.03	2,491.98	8.05	310.642		
1,200.00	1,197.42	1,198.42	1,197.42	4.45	4.23	111.19	881.00	2,319.00	2,503.18	2,494.71	8.46	295.773		
1,300.00	1,296.92	1,297.92	1,296.92	4.71	4.42	111.35	881.00	2,319.00	2,506.80	2,497.94	8.86	282.907		
1,400.00	1,396.13	1,409.91	1,408.91	4.97	4.52	111.60	880.53	2,319.00	2,511.31	2,502.13	9.18	273.691		
1,500.00	1,495.05	1,534.87	1,533.80	5.11	4.75	112.05	876.53	2,319.00	2,515.75	2,506.26	9.49	265.047	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 215H
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 215H	Survey Calculation Method:	Minimum 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:	
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	135.00	-25.00	25.00	35.36						
100.00	100.00	100.00	100.00	0.98	0.98	135.00	-25.00	25.00	35.36	33.39	1.96	18.018			
200.00	200.00	200.00	200.00	1.56	1.56	135.00	-25.00	25.00	35.36	32.23	3.12	11.324			
300.00	300.00	300.00	300.00	1.98	1.98	135.00	-25.00	25.00	35.36	31.39	3.96	8.923	CC, ES		
400.00	399.99	399.99	399.99	2.41	2.33	175.84	-25.00	25.00	36.66	31.92	4.74	7.729			
500.00	499.91	499.91	499.91	2.79	2.63	176.24	-25.00	25.00	40.58	35.16	5.42	7.485			
600.00	599.69	599.69	599.69	3.12	2.91	176.76	-25.00	25.00	47.11	41.07	6.03	7.808			
700.00	699.32	699.32	699.32	3.26	3.16	177.25	-25.00	25.00	55.66	49.24	6.43	8.662			
800.00	798.94	798.94	798.94	3.51	3.40	177.63	-25.00	25.00	64.37	57.46	6.91	9.312			
900.00	898.56	900.31	900.30	3.76	3.68	177.51	-23.76	24.54	71.89	64.46	7.43	9.680			
1,000.00	998.18	1,001.96	1,001.87	3.99	3.95	176.63	-19.99	23.15	76.97	69.05	7.92	9.724			
1,100.00	1,097.80	1,101.87	1,101.64	4.22	4.15	175.49	-15.09	21.35	80.90	72.56	8.35	9.694			
1,200.00	1,197.42	1,201.78	1,201.41	4.45	4.35	174.47	-10.18	19.54	84.87	76.10	8.77	9.675			
1,300.00	1,296.92	1,302.73	1,302.21	4.71	4.46	173.50	-4.89	17.59	89.78	80.65	9.13	9.837			
1,400.00	1,396.13	1,404.75	1,403.90	4.97	4.71	172.16	2.71	14.79	95.23	85.62	9.61	9.908			
1,500.00	1,495.05	1,506.86	1,505.43	5.11	4.94	170.39	12.85	11.05	100.45	90.50	9.96	10.088			
1,600.00	1,593.95	1,607.72	1,605.46	5.33	5.07	168.20	24.98	6.58	104.03	93.76	10.28	10.124			
1,700.00	1,692.86	1,707.58	1,704.47	5.54	5.26	166.10	37.21	2.07	107.55	96.87	10.67	10.075			
1,800.00	1,791.76	1,807.44	1,803.47	5.76	5.46	164.13	49.44	-2.44	111.20	100.13	11.07	10.045			
1,900.00	1,890.66	1,907.31	1,902.48	5.97	5.65	162.30	61.67	-6.95	114.97	103.51	11.46	10.029			
2,000.00	1,989.56	2,007.17	2,001.49	6.18	5.85	160.58	73.90	-11.45	118.86	107.00	11.86	10.025			
2,100.00	2,088.46	2,107.03	2,100.50	6.39	6.04	158.97	86.13	-15.96	122.84	110.60	12.25	10.032			
2,200.00	2,187.36	2,206.89	2,199.51	6.60	6.24	157.46	98.36	-20.47	126.92	114.29	12.63	10.046			
2,300.00	2,286.26	2,306.76	2,298.52	6.81	6.43	156.05	110.59	-24.98	131.08	118.06	13.02	10.066			
2,400.00	2,385.16	2,406.62	2,397.53	7.02	6.63	154.72	122.82	-29.49	135.31	121.90	13.41	10.092			
2,500.00	2,484.06	2,506.48	2,496.53	7.23	6.82	153.48	135.06	-34.00	139.61	125.82	13.79	10.121			
2,600.00	2,582.96	2,606.35	2,595.54	7.44	7.02	152.31	147.29	-38.51	143.97	129.79	14.18	10.154			
2,700.00	2,681.87	2,706.21	2,694.55	7.65	7.21	151.21	159.52	-43.01	148.39	133.83	14.56	10.189			
2,800.00	2,780.77	2,806.07	2,793.56	7.85	7.40	150.18	171.75	-47.52	152.86	137.91	14.95	10.226			
2,900.00	2,879.67	2,905.94	2,892.57	8.06	7.60	149.20	183.98	-52.03	157.38	142.05	15.33	10.265			
3,000.00	2,978.57	3,005.80	2,991.58	8.27	7.79	148.28	196.21	-56.54	161.94	146.22	15.72	10.304			
3,100.00	3,077.47	3,105.66	3,090.58	8.47	7.99	147.41	208.44	-61.05	166.54	150.44	16.10	10.344			
3,200.00	3,176.37	3,205.52	3,189.59	8.68	8.18	146.58	220.67	-65.56	171.18	154.69	16.48	10.385			
3,300.00	3,275.27	3,305.39	3,288.60	8.89	8.37	145.80	232.90	-70.07	175.84	158.98	16.87	10.426			
3,400.00	3,374.17	3,405.25	3,387.61	9.09	8.57	145.06	245.13	-74.57	180.55	163.30	17.25	10.467			
3,500.00	3,473.07	3,505.11	3,486.62	9.30	8.76	144.36	257.37	-79.08	185.27	167.64	17.63	10.508			
3,600.00	3,571.97	3,604.98	3,585.63	9.50	8.96	143.69	269.60	-83.59	190.03	172.01	18.02	10.548			
3,700.00	3,670.87	3,704.84	3,684.64	9.71	9.15	143.06	281.83	-88.10	194.81	176.41	18.40	10.588			
3,800.00	3,769.78	3,804.70	3,783.64	9.91	9.34	142.45	294.06	-92.61	199.61	180.83	18.78	10.628			
3,900.00	3,868.68	3,904.57	3,882.65	10.12	9.54	141.88	306.29	-97.12	204.44	185.27	19.16	10.667			
4,000.00	3,967.58	4,004.43	3,981.66	10.33	9.73	141.33	318.52	-101.63	209.28	189.73	19.55	10.706			
4,100.00	4,066.48	4,104.29	4,080.67	10.53	9.92	140.80	330.75	-106.13	214.14	194.21	19.93	10.744			
4,200.00	4,165.38	4,204.15	4,179.68	10.74	10.12	140.30	342.98	-110.64	219.02	198.71	20.31	10.782			
4,300.00	4,264.28	4,304.02	4,278.69	10.94	10.31	139.82	355.21	-115.15	223.92	203.22	20.70	10.819			
4,400.00	4,363.18	4,403.88	4,377.70	11.14	10.50	139.36	367.45	-119.66	228.82	207.75	21.07	10.859			
4,500.00	4,462.28	4,503.77	4,476.73	11.36	10.70	138.73	379.68	-124.17	232.69	211.23	21.46	10.844			
4,600.00	4,561.69	4,603.65	4,575.76	11.56	10.89	137.68	391.91	-128.68	234.64	212.82	21.82	10.752			
4,700.00	4,661.35	4,703.42	4,674.68	11.76	11.08	136.19	404.13	-133.18	234.77	212.61	22.17	10.591			
4,800.00	4,761.20	4,800.00	4,770.58	11.95	11.28	134.58	414.79	-137.11	233.77	211.29	22.48	10.401			
4,900.00	4,861.15	4,898.09	4,868.25	12.12	11.48	133.03	423.29	-140.25	232.15	209.40	22.75	10.204			
5,000.00	4,961.15	4,995.70	4,965.64	12.19	11.66	90.92	429.41	-142.50	230.00	207.08	22.93	10.032			
5,100.00	5,061.15	5,093.54	5,063.39	12.27	11.84	89.97	433.19	-143.90	228.55	205.43	23.11	9.889			

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 215H
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 215H	Survey Calculation Method:	Minimum 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)		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
5,200.00	5,161.15	5,191.53	5,161.36	12.35	11.98	89.61	434.63	-144.42	228.01	204.73	23.28	9.793	
5,237.39	5,198.54	5,228.70	5,198.54	12.38	12.02	89.61	434.64	-144.43	228.01	204.66	23.35	9.767	
5,300.00	5,261.15	5,291.31	5,261.15	12.43	12.07	89.61	434.64	-144.43	228.01	204.55	23.45	9.723	
5,400.00	5,361.15	5,391.31	5,361.15	12.52	12.16	89.61	434.64	-144.43	228.01	204.39	23.62	9.653	
5,500.00	5,461.15	5,491.31	5,461.15	12.60	12.25	89.61	434.64	-144.43	228.01	204.22	23.79	9.585	
5,600.00	5,561.15	5,591.31	5,561.15	12.68	12.34	89.61	434.64	-144.43	228.01	204.05	23.96	9.517	
5,700.00	5,661.15	5,691.31	5,661.15	12.76	12.42	89.61	434.64	-144.43	228.01	203.88	24.13	9.450	
5,800.00	5,761.15	5,791.31	5,761.15	12.84	12.51	89.61	434.64	-144.43	228.01	203.71	24.30	9.384	
5,900.00	5,861.15	5,891.31	5,861.15	12.93	12.60	89.61	434.64	-144.43	228.01	203.54	24.47	9.320	
6,000.00	5,961.15	5,991.31	5,961.15	13.01	12.69	89.61	434.64	-144.43	228.01	203.37	24.63	9.256	
6,100.00	6,061.15	6,091.31	6,061.15	13.09	12.77	89.61	434.64	-144.43	228.01	203.20	24.80	9.193	
6,200.00	6,161.15	6,191.31	6,161.15	13.17	12.86	89.61	434.64	-144.43	228.01	203.03	24.97	9.131	
6,300.00	6,261.15	6,291.31	6,261.15	13.25	12.95	89.61	434.64	-144.43	228.01	202.87	25.14	9.069	
6,400.00	6,361.15	6,391.31	6,361.15	13.33	13.03	89.61	434.64	-144.43	228.01	202.70	25.31	9.009	
6,500.00	6,461.15	6,491.31	6,461.15	13.42	13.12	89.61	434.64	-144.43	228.01	202.53	25.48	8.950	
6,600.00	6,561.15	6,591.31	6,561.15	13.50	13.21	89.61	434.64	-144.43	228.01	202.36	25.65	8.891	
6,700.00	6,661.15	6,691.31	6,661.15	13.58	13.30	89.61	434.64	-144.43	228.01	202.19	25.81	8.833	
6,800.00	6,761.15	6,791.31	6,761.15	13.66	13.38	89.61	434.64	-144.43	228.01	202.02	25.98	8.776	
6,900.00	6,861.15	6,891.31	6,861.15	13.74	13.47	89.61	434.64	-144.43	228.01	201.86	26.15	8.719	
7,000.00	6,961.15	6,991.31	6,961.15	13.83	13.56	89.61	434.64	-144.43	228.01	201.69	26.32	8.663	
7,100.00	7,061.15	7,091.31	7,061.15	13.91	13.64	89.61	434.64	-144.43	228.01	201.52	26.49	8.609	
7,200.00	7,161.15	7,191.31	7,161.15	13.99	13.73	89.61	434.64	-144.43	228.01	201.35	26.65	8.554	
7,300.00	7,261.15	7,291.31	7,261.15	14.07	13.82	89.61	434.64	-144.43	228.01	201.18	26.82	8.501	
7,400.00	7,361.15	7,391.31	7,361.15	14.15	13.90	89.61	434.64	-144.43	228.01	201.02	26.99	8.448	
7,500.00	7,461.15	7,491.31	7,461.15	14.24	13.99	89.61	434.64	-144.43	228.01	200.85	27.16	8.396	</

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 215H
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 215H	Survey Calculation Method:	Minimum 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

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	10,261.15	10,291.31	10,261.15	16.54	16.39	89.61	434.64	-144.43	228.01	196.17	31.84	7.162				
10,400.00	10,361.15	10,391.31	10,361.15	16.62	16.48	89.61	434.64	-144.43	228.01	196.00	32.00	7.125				
10,500.00	10,461.15	10,491.31	10,461.15	16.70	16.56	89.61	434.64	-144.43	228.01	195.84	32.17	7.088				
10,600.00	10,561.15	10,591.31	10,561.15	16.78	16.65	89.61	434.64	-144.43	228.01	195.67	32.33	7.051				
10,700.00	10,661.15	10,691.31	10,661.15	16.86	16.73	89.61	434.64	-144.43	228.01	195.50	32.50	7.015				
10,800.00	10,761.15	10,791.31	10,761.15	16.95	16.82	89.61	434.64	-144.43	228.01	195.34	32.67	6.980				
10,900.00	10,861.15	10,891.31	10,861.15	17.03	16.90	89.61	434.64	-144.43	228.01	195.17	32.83	6.944				
11,000.00	10,961.15	10,991.31	10,961.15	17.11	16.99	89.61	434.64	-144.43	228.01	195.01	33.00	6.909				
11,100.00	11,061.15	11,091.31	11,061.15	17.19	17.07	89.61	434.64	-144.43	228.01	194.84	33.17	6.875				
11,200.00	11,161.15	11,191.31	11,161.15	17.27	17.16	89.61	434.64	-144.43	228.01	194.67	33.33	6.840				
11,300.00	11,261.15	11,291.31	11,261.15	17.36	17.24	89.61	434.64	-144.43	228.01	194.51	33.50	6.807				
11,400.00	11,361.15	11,391.31	11,361.15	17.44	17.32	89.61	434.64	-144.43	228.01	194.34	33.66	6.773				
11,500.00	11,461.15	11,491.31	11,461.15	17.52	17.41	89.61	434.64	-144.43	228.01	194.17	33.83	6.740				
11,513.27	11,474.42	11,504.58	11,474.42	17.53	17.42	89.61	434.64	-144.43	228.01	194.15	33.85	6.735				
11,600.00	11,561.15	11,591.30	11,561.14	17.60	17.48	89.63	434.55	-144.43	228.01	194.03	33.98	6.710				
11,600.21	11,561.36	11,591.51	11,561.35	17.60	17.48	89.63	434.55	-144.43	228.01	194.03	33.98	6.710				
11,700.00	11,661.15	11,689.91	11,659.09	17.69	17.50	92.19	424.35	-144.34	228.27	194.25	34.01	6.711				
11,800.00	11,761.15	11,782.45	11,748.17	17.77	17.52	98.33	399.65	-144.13	231.10	197.01	34.09	6.779				
11,900.00	11,861.15	11,865.26	11,823.60	17.85	17.52	106.44	365.64	-143.84	241.28	206.69	34.59	6.976				
12,000.00	11,961.14	11,937.17	11,884.54	17.90	17.53	-64.22	327.55	-143.51	263.25	227.33	35.92	7.328				
12,100.00	12,060.18	12,000.00	11,933.52	17.93	17.53	-55.36	288.26	-143.17	292.96	254.97	38.00	7.710				
12,200.00	12,155.47	12,068.68	11,981.78	17.96	17.53	-47.76	239.46	-142.75	324.58	284.61	39.97	8.120				
12,300.00	12,244.13	12,131.85	12,020.73	17.98	17.53	-42.20	189.76	-142.32	355.30	313.20	42.10	8.439				
12,400.00	12,323.46	12,200.00	12,056.34	18.01	17.53	-37.85	131.71	-141.82	383.23	339.35	43.89	8.732				
12,500.00	12,391.04	12,250.00	12,077.95	18.04	17.54	-35.11	86.64	-141.43	406.96	360.99	45.97	8.853				
12,600.00	12,444.83	12,315.59	12,100.20	18.09	17.55	-32.87	24.97	-140.90	425.73	378.43	47.31	8.999				
12,700.00	12,483.18	12,375.72	12,114.28	18.16	17.57	-31.48	-33.45	-140.40	439.08	390.61	48.46	9.060				
12,800.00	12,504.94	12,435.59	12,122.15	18.27	17.59	-30.73	-92.77	-139.89	446.60	397.33	49.27	9.064				
12,900.00	12,510.19	12,508.26	12,124.22	18.42	17.63	-30.57	-165.39	-139.26	448.30	398.68	49.62	9.035				
13,000.00	12,511.06	12,608.26	12,125.09	18.62	17.70	-30.57	-265.38	-138.40	448.30	398.54	49.76	9.008				
13,100.00	12,511.94	12,708.26	12,125.96	18.88	17.80	-30.57	-365.38	-137.54	448.30	398.35	49.96	8.973				
13,200.00	12,512.81	12,808.26	12,126.83	19.20	17.97	-30.57	-465.37	-136.68	448.31	398.10	50.20	8.930				
13,300.00	12,513.68	12,908.26	12,127.70	19.61	18.24	-30.57	-565.36	-135.82	448.31	397.81	50.50	8.878				
13,400.00	12,514.56	13,008.26	12,128.57	20.11	18.66	-30.57	-665.35	-134.96	448.31	397.47	50.84	8.818				
13,500.00	12,515.43	13,108.26	12,129.44	20.70	19.23	-30.57	-765.35	-134.10	448.31	397.08	51.23	8.751				
13,600.00	12,516.30	13,208.26	12,130.31	21.37	19.93	-30.57	-865.34	-133.24	448.31	396.64	51.67	8.677				
13,700.00	12,517.18	13,308.26	12,131.19	22.12	20.73	-30.57	-965.33	-132.38	448.32	396.16	52.15	8.596				
13,800.00	12,518.05	13,408.26	12,132.06	22.93	21.60	-30.57	-1,065.32	-131.51	448.32	395.64	52.68	8.510				
13,900.00	12,518.92	13,508.26	12,132.93	23.80	22.53	-30.57	-1,165.32	-130.65	448.32	395.07	53.25	8.419				
14,000.00	12,519.80	13,608.26	12,133.80	24.73	23.51	-30.57	-1,265.31	-129.79	448.32	394.46	53.86	8.324				
14,100.00	12,520.67	13,708.26	12,134.67	25.70	24.53	-30.57	-1,365.30	-128.93	448.32	393.81	54.51	8.225				
14,200.00	12,521.54	13,808.26	12,135.54	26.70	25.59	-30.57	-1,465.29	-128.07	448.32	393.12	55.20	8.122				
14,300.00	12,522.42	13,908.26	12,136.41	27.75	26.67	-30.57	-1,565.29	-127.21	448.33	392.40	55.93	8.016				
14,400.00	12,523.29	14,008.26	12,137.28	28.82	27.78	-30.57	-1,665.28	-126.35	448.33	391.64	56.69	7.908				
14,500.00	12,524.16	14,108.26	12,138.16	29.91	28.92	-30.57	-1,765.27	-125.49	448.33	390.84	57.49	7.799				
14,600.00	12,525.04	14,208.26	12,139.03	31.04	30.07	-30.57	-1,865.26	-124.63	448.33	390.01	58.32	7.688				
14,700.00	12,525.91	14,308.26	12,139.90	32.18	31.25	-30.57	-1,965.26	-123.77	448.33	389.15	59.18	7.576				
14,800.00	12,526.78	14,408.26	12,140.77	33.34	32.43	-30.57	-2,065.25	-122.91	448.33	388.26	60.07	7.463				
14,900.00	12,527.66	14,508.26	12,141.64	34.51	33.64	-30.57	-2,165.24	-122.04	448.34	387.34	60.99	7.351				
15,000.00	12,528.53	14,608.26	12,142.51	35.70	34.85	-30.57	-2,265.23	-121.18	448.34	386.40	61.94	7.238				
15,100.00	12,529.40	14,708.26	12,143.38	36.91	36.08	-30.57	-2,365.23	-120.32	448.34	385.42	62.91	7.126				
15,200.00	12,530.28	14,808.26	12,144.25	38.12	37.32	-30.57	-2,465.22	-119.46	448.34	384.43	63.91	7.015				

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 215H
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 215H	Survey Calculation Method:	Minimum 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
15,300.00	12,531.15	14,908.26	12,145.13	39.35	38.56	-30.57	-2,565.21	-118.60	448.34	383.40	64.94	6.904	
15,400.00	12,532.02	15,008.26	12,146.00	40.58	39.82	-30.57	-2,665.20	-117.74	448.34	382.36	65.99	6.795	
15,500.00	12,532.89	15,108.26	12,146.87	41.82	41.08	-30.57	-2,765.20	-116.88	448.35	381.29	67.05	6.686	
15,600.00	12,533.77	15,208.26	12,147.74	43.08	42.35	-30.57	-2,865.19	-116.02	448.35	380.21	68.14	6.580	
15,700.00	12,534.64	15,308.26	12,148.61	44.34	43.62	-30.57	-2,965.18	-115.16	448.35	379.10	69.25	6.474	
15,800.00	12,535.51	15,408.26	12,149.48	45.60	44.90	-30.57	-3,065.17	-114.30	448.35	377.97	70.38	6.370	
15,900.00	12,536.39	15,508.26	12,150.35	46.87	46.19	-30.57	-3,165.17	-113.43	448.35	376.83	71.53	6.268	
16,000.00	12,537.26	15,608.26	12,151.23	48.15	47.48	-30.57	-3,265.16	-112.57	448.35	375.67	72.69	6.168	
16,100.00	12,538.13	15,708.26	12,152.10	49.43	48.77	-30.57	-3,365.15	-111.71	448.36	374.49	73.87	6.070	
16,200.00	12,539.01	15,808.26	12,152.97	50.72	50.07	-30.57	-3,465.14	-110.85	448.36	373.30	75.06	5.973	
16,300.00	12,539.88	15,908.26	12,153.84	52.01	51.37	-30.57	-3,565.14	-109.99	448.36	372.09	76.27	5.878	
16,400.00	12,540.75	16,008.26	12,154.71	53.30	52.68	-30.57	-3,665.13	-109.13	448.36	370.87	77.50	5.786	
16,500.00	12,541.63	16,108.26	12,155.58	54.60	53.99	-30.57	-3,765.12	-108.27	448.36	369.63	78.73	5.695	
16,600.00	12,542.50	16,208.26	12,156.45	55.90	55.30	-30.57	-3,865.11	-107.41	448.37	368.38	79.98	5.606	
16,700.00	12,543.37	16,308.26	12,157.32	57.21	56.61	-30.57	-3,965.11	-106.55	448.37	367.12	81.24	5.519	
16,800.00	12,544.25	16,408.26	12,158.20	58.52	57.93	-30.57	-4,065.10	-105.69	448.37	365.85	82.52	5.434	
16,900.00	12,545.12	16,508.26	12,159.07	59.83	59.25	-30.57	-4,165.09	-104.83	448.37	364.57	83.80	5.350	
17,000.00	12,545.99	16,608.26	12,159.94	61.14	60.57	-30.57	-4,265.08	-103.96	448.37	363.27	85.10	5.269	
17,100.00	12,546.87	16,708.26	12,160.81	62.46	61.90	-30.57	-4,365.08	-103.10	448.37	361.97	86.41	5.189	
17,200.00	12,547.74	16,808.26	12,161.68	63.78	63.22	-30.57	-4,465.07	-102.24	448.38	360.65	87.72	5.111	
17,300.00	12,548.61	16,908.26	12,162.55	65.10	64.55	-30.57	-4,565.06	-101.38	448.38	359.33	89.05	5.035	
17,400.00	12,549.49	17,008.26	12,163.42	66.42	65.88	-30.56	-4,665.05	-100.52	448.38	358.00	90.38	4.961	
17,500.00	12,550.36	17,108.26	12,164.29	67.75	67.21	-30.56	-4,765.05	-99.66	448.38	356.66	91.72	4.889	
17,600.00	12,551.23	17,208.26	12,165.17	69.07	68.54	-30.56	-4,865.04	-98.80	448.38	355.31	93.07	4.818	
17,700.00	12,552.11	17,308.26	12,166.04	70.40	69.88	-30.56	-4,965.03	-97.94	448.38	353.95	94.43	4.748	
17,800.00	12,552.98	17,408.26	12,166.91	71.73	71.21	-30.56	-5,065.02	-97.08	448.39	352.59	95.79	4.681	
17,900.00	12,553.85	17,508.26	12,167.78	73.06	72.55	-30.56	-5,165.02	-96.22	448.39	351.22	97.17	4.615	
18,000.00	12,554.73	17,608.26	12,168.65	74.40	73.89	-30.56	-5,265.01	-95.35	448.39	349.84	98.55	4.550	
18,100.00	12,555.60	17,708.26	12,169.52	75.73	75.23	-30.56	-5,365.00	-94.49	448.39	348.46	99.93	4.487	
18,200.00	12,556.47	17,808.26	12,170.39	77.06	76.57	-30.56	-5,464.99	-93.63	448.39	347.07	101.32	4.425	
18,300.00	12,557.35	17,908.26	12,171.26	78.40	77.91	-30.56	-5,564.99	-92.77	448.39	345.67	102.72	4.365	
18,400.00	12,558.22	18,008.26	12,172.14	79.74	79.25	-30.56	-5,664.98	-91.91	448.40	344.27	104.13	4.306	
18,500.00	12,559.09	18,108.26	12,173.01	81.08	80.59	-30.56	-5,764.97	-91.05	448.40	342.86	105.54	4.249	
18,600.00	12,559.97	18,208.26	12,173.88	82.42	81.94	-30.56	-5,864.96	-90.19	448.40	341.45	106.95	4.193	
18,700.00	12,560.84	18,308.26	12,174.75	83.76	83.28	-30.56	-5,964.96	-89.33	448.40	340.03	108.37	4.138	
18,800.00	12,561.71	18,408.26	12,175.62	85.10	84.63	-30.56	-6,064.95	-88.47	448.40	338.61	109.80	4.084	
18,900.00	12,562.59	18,508.26	12,176.49	86.44	85.97	-30.56	-6,164.94	-87.61	448.40	337.18	111.23	4.032	
19,000.00	12,563.46	18,608.26	12,177.36	87.79	87.32	-30.56	-6,264.93	-86.75	448.41	335.75	112.66	3.980	
19,100.00	12,564.33	18,708.26	12,178.23	89.13	88.67	-30.56	-6,364.93	-85.88	448.41	334.31	114.10	3.930	
19,200.00	12,565.20	18,808.26	12,179.11	90.48	90.02	-30.56	-6,464.92	-85.02	448.41	332.87	115.54	3.881	
19,300.00	12,566.08	18,908.26	12,179.98	91.82	91.37	-30.56	-6,564.91	-84.16	448.41	331.42	116.99	3.833	
19,400.00	12,566.95	19,008.26	12,180.85	93.17	92.72	-30.56	-6,664.90	-83.30	448.41	329.98	118.44	3.786	
19,500.00	12,567.82	19,108.26	12,181.72	94.51	94.07	-30.56	-6,764.90	-82.44	448.41	328.52	119.89	3.740	
19,600.00	12,568.70	19,208.26	12,182.59	95.86	95.42	-30.56	-6,864.89	-81.58	448.42	327.07	121.35	3.695	
19,700.00	12,569.57	19,308.26	12,183.46	97.21	96.77	-30.56	-6,964.88	-80.72	448.42	325.61	122.81	3.651	
19,800.00	12,570.44	19,408.26	12,184.33	98.56	98.12	-30.56	-7,064.87	-79.86	448.42	324.14	124.28	3.608	
19,900.00	12,571.32	19,508.26	12,185.20	99.91	99.47	-30.56	-7,164.87	-79.00	448.42	322.68	125.74	3.566	
20,000.00	12,572.19	19,608.26	12,186.08	101.26	100.83	-30.56	-7,264.86	-78.14	448.42	321.21	127.22	3.525	
20,100.00	12,573.06	19,708.26	12,186.95	102.61	102.18	-30.56	-7,364.85	-77.27	448.43	319.74	128.69	3.485	
20,200.00	12,573.94	19,808.26	12,187.82	103.96	103.53	-30.56	-7,464.84	-76.41	448.43	318.26	130.17	3.445	
20,300.00	12,574.81	19,908.26	12,188.69	105.31	104.89	-30.56	-7,564.84	-75.55	448.43	316.78	131.65	3.406	
20,400.00	12,575.68	20,008.26	12,189.56	106.66	106.24	-30.56	-7,664.83	-74.69	448.43	315.30	133.13	3.368	

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 215H
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 215H	Survey Calculation Method:	Minimum 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:					
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	12,576.56	20,108.26	12,190.43	108.02	107.60	-30.56	-7,764.82	-73.83	448.43	313.82	134.62	3.331			
20,600.00	12,577.43	20,208.26	12,191.30	109.37	108.95	-30.56	-7,864.81	-72.97	448.43	312.33	136.10	3.295			
20,700.00	12,578.30	20,308.26	12,192.17	110.72	110.31	-30.56	-7,964.81	-72.11	448.44	310.84	137.59	3.259			
20,800.00	12,579.18	20,408.26	12,193.05	112.08	111.67	-30.56	-8,064.80	-71.25	448.44	309.35	139.09	3.224			
20,900.00	12,580.05	20,508.26	12,193.92	113.43	113.02	-30.56	-8,164.79	-70.39	448.44	307.86	140.58	3.190			
21,000.00	12,580.92	20,608.26	12,194.79	114.79	114.38	-30.56	-8,264.78	-69.53	448.44	306.36	142.08	3.156			
21,100.00	12,581.80	20,708.26	12,195.66	116.14	115.74	-30.56	-8,364.78	-68.67	448.44	304.86	143.58	3.123			
21,200.00	12,582.67	20,808.26	12,196.53	117.50	117.09	-30.56	-8,464.77	-67.80	448.44	303.36	145.08	3.091			
21,300.00	12,583.54	20,908.26	12,197.40	118.85	118.45	-30.56	-8,564.76	-66.94	448.45	301.86	146.58	3.059			
21,400.00	12,584.42	21,008.26	12,198.27	120.21	119.81	-30.56	-8,664.75	-66.08	448.45	300.36	148.09	3.028			
21,500.00	12,585.29	21,108.26	12,199.14	121.56	121.17	-30.56	-8,764.75	-65.22	448.45	298.85	149.60	2.998			
21,600.00	12,586.16	21,208.26	12,200.02	122.92	122.53	-30.56	-8,864.74	-64.36	448.45	297.34	151.11	2.968			
21,700.00	12,587.04	21,308.26	12,200.89	124.28	123.88	-30.56	-8,964.73	-63.50	448.45	295.83	152.62	2.938			
21,800.00	12,587.91	21,408.26	12,201.76	125.63	125.24	-30.56	-9,064.72	-62.64	448.45	294.32	154.13	2.910			
21,900.00	12,588.78	21,508.26	12,202.63	126.99	126.60	-30.56	-9,164.72	-61.78	448.46	292.81	155.65	2.881			
22,000.00	12,589.66	21,608.26	12,203.50	128.35	127.96	-30.56	-9,264.71	-60.92	448.46	291.29	157.16	2.853			
22,100.00	12,590.53	21,708.26	12,204.37	129.71	129.32	-30.56	-9,364.70	-60.06	448.46	289.78	158.68	2.826			
22,200.00	12,591.40	21,808.26	12,205.24	131.07	130.68	-30.56	-9,464.69	-59.19	448.46	288.26	160.20	2.799			
22,300.00	12,592.28	21,908.26	12,206.11	132.42	132.04	-30.56	-9,564.69	-58.33	448.46	286.74	161.72	2.773			
22,400.00	12,593.15	22,008.26	12,206.99	133.78	133.40	-30.56	-9,664.68	-57.47	448.46	285.22	163.24	2.747			
22,500.00	12,594.02	22,108.26	12,207.86	135.14	134.76	-30.56	-9,764.67	-56.61	448.47	283.70	164.77	2.722			
22,600.00	12,594.89	22,208.26	12,208.73	136.50	136.12	-30.56	-9,864.66	-55.75	448.47	282.17	166.29	2.697			
22,700.00	12,595.77	22,308.26	12,209.60	137.86	137.48	-30.56	-9,964.66	-54.89	448.47	280.65	167.82	2.672			
22,800.00	12,596.64	22,408.26	12,210.47	139.22	138.84	-30.56	-10,064.65	-54.03	448.47	279.12	169.35	2.648			
22,800.04	12,596.64	22,408.30	12,210.47	139.22	138.84	-30.56	-10,064.68	-54.03	448.47	279.12	169.35	2.648			
22,806.75	12,596.70	22,411.61	12,210.50	139.31	138.89	-30.56	-10,068.00	-54.00	448.48	278.98	169.50	2.646	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 215H
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 215H	Survey Calculation Method:	Minimum 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:	
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	8.88	160.00	25.00	161.94	159.98	1.96	82.531			
100.00	100.00	100.00	100.00	0.98	0.98	8.88	160.00	25.00	161.94	158.82	3.12	51.867			
200.00	200.00	200.00	200.00	1.56	1.56	8.88	160.00	25.00	161.94	157.98	3.96	40.870			
300.00	300.00	300.00	300.00	1.98	1.98	8.88	160.00	25.00	161.94	156.91	4.70	34.403			
400.00	399.99	398.34	398.33	2.41	2.40	50.34	160.30	26.23	161.60	155.43	5.33	30.136			
500.00	499.91	496.39	496.31	2.79	2.77	52.64	161.21	29.90	160.77	154.06	5.91	27.061			
600.00	599.69	593.88	593.59	3.12	3.10	56.47	162.70	35.97	159.97	153.92	5.98	26.736	CC, ES		
626.56	626.16	619.64	619.27	3.16	3.13	57.73	163.20	37.98	159.90	153.93	6.18	25.889			
700.00	699.32	691.97	691.33	3.26	3.24	61.57	164.70	44.07	160.11	154.95	6.68	24.190			
800.00	798.94	790.87	789.85	3.51	3.48	66.77	166.77	52.44	161.64	157.32	7.17	22.949			
900.00	898.56	889.77	888.37	3.76	3.72	71.82	168.83	60.81	164.49	160.96	7.64	22.077			
1,000.00	998.18	988.66	986.89	3.99	3.95	76.67	170.89	69.18	168.60	165.78	8.09	21.488			
1,100.00	1,097.80	1,087.56	1,085.41	4.22	4.17	81.27	172.96	77.55	173.87	171.67	8.54	21.098			
1,200.00	1,197.42	1,186.46	1,183.93	4.45	4.39	85.57	175.02	85.92	180.21	178.54	8.97	20.898			
1,300.00	1,296.92	1,285.19	1,282.29	4.71	4.61	89.82	177.08	94.27	187.51	186.60	9.41	20.829			
1,400.00	1,396.13	1,383.52	1,380.25	4.97	4.82	94.45	179.13	102.60	196.01	196.32	9.77	21.096			
1,500.00	1,495.05	1,481.50	1,477.85	5.11	5.03	99.28	181.18	110.89	206.09	207.39	10.21	21.314			
1,600.00	1,593.95	1,579.44	1,575.42	5.33	5.23	103.73	183.22	119.17	217.60	219.65	10.64	21.637			
1,700.00	1,692.86	1,677.38	1,672.99	5.54	5.44	107.73	185.26	127.46	230.30	232.94	11.07	22.037			
1,800.00	1,791.76	1,775.33	1,770.56	5.76	5.64	111.30	187.31	135.75	244.01	247.07	11.50	22.493			
1,900.00	1,890.66	1,873.27	1,868.13	5.97	5.84	114.49	189.35	144.04	258.57	261.93	11.91	22.986			
2,000.00	1,989.56	1,971.21	1,965.70	6.18	6.04	117.34	191.39	152.33	273.84	277.39	12.33	23.503			
2,100.00	2,088.46	2,069.16	2,063.27	6.39	6.23	119.89	193.44	160.61	289.72	293.36	12.74	24.022			
2,200.00	2,187.36	2,167.10	2,160.84	6.60	6.43	122.17	195.48	168.90	306.10	310.18	13.14	24.606			
2,300.00	2,286.26	2,260.51	2,253.86	6.81	6.63	124.12	197.52	177.18	323.32	329.47	13.52	25.361			
2,400.00	2,385.16	2,350.30	2,343.07	7.02	6.83	125.76	199.95	187.02	343.00	351.28	13.91	26.262			
2,500.00	2,484.06	2,439.27	2,431.21	7.23	7.04	127.15	202.85	198.78	365.19	375.51	14.28	27.301			
2,600.00	2,582.96	2,527.34	2,518.16	7.44	7.24	128.32	206.20	212.39	389.78	402.05	14.64	28.461			
2,700.00	2,681.87	2,614.43	2,603.80	7.65	7.45	129.29	209.99	227.75	416.69	430.82	14.99	29.735			
2,800.00	2,780.77	2,700.00	2,687.57	7.85	7.65	130.06	214.16	244.69	445.81	461.73	15.35	31.088			
2,900.00	2,879.67	2,785.41	2,770.77	8.06	7.85	130.69	218.77	263.40	477.07	494.73	15.69	32.538			
3,000.00	2,978.57	2,873.30	2,855.92	8.27	8.02	131.20	223.99	284.54	510.41	528.80	16.04	33.976			
3,100.00	3,077.47	2,962.43	2,942.01	8.47	8.20	131.62	229.51	306.95	544.84	562.87	16.44	35.236			
3,200.00	3,176.37	3,056.23	3,032.62	8.68	8.40	132.01	235.32	330.52	579.31	596.95	16.85	36.434			
3,300.00	3,275.27	3,150.03	3,123.22	8.89	8.60	132.36	241.13	354.10	613.80	631.06	17.25	37.575			
3,400.00	3,374.17	3,243.83	3,213.82	9.09	8.80	132.67	246.94	377.68	648.31	665.17	17.66	38.661			
3,500.00	3,473.07	3,337.63	3,304.43	9.30	9.02	132.95	252.75	401.25	682.84	699.30	18.07	39.696			
3,600.00	3,571.97	3,431.43	3,395.03	9.50	9.24	133.21	258.57	424.83	717.38	733.44	18.48	40.684			
3,700.00	3,670.87	3,525.23	3,485.63	9.71	9.49	133.44	264.38	448.41	751.93	767.59	18.89	41.628			
3,800.00	3,769.78	3,619.04	3,576.24	9.91	9.76	133.65	270.19	471.99	786.48	801.75	19.31	42.529			
3,900.00	3,868.68	3,712.84	3,666.84	10.12	10.04	133.84	276.00	495.56	821.05	835.91	19.72	43.391			
4,000.00	3,967.58	3,806.64	3,757.44	10.33	10.32	134.02	281.81	519.14	855.63	870.08	20.13	44.217			
4,100.00	4,066.48	3,900.44	3,848.05	10.53	10.61	134.18	287.62	542.72	890.21	904.25	20.55	45.008			
4,200.00	4,165.38	3,994.24	3,938.65	10.74	10.91	134.33	293.44	566.29	924.80	938.43	20.96	45.765			
4,300.00	4,264.28	4,088.04	4,029.25	10.94	11.21	134.47	299.25	589.87	959.39	972.62	21.37	46.504			
4,400.00	4,363.18	4,181.84	4,119.86	11.14	11.51	134.62	305.06	613.45	993.99	1,005.86	21.79	47.156			
4,500.00	4,462.28	4,276.00	4,210.80	11.36	11.81	135.06	310.89	637.11	1,027.65	1,037.37	22.20	47.730			
4,600.00	4,561.69	4,370.76	4,302.33	11.56	12.12	135.37	316.76	660.93	1,059.57	1,067.12	22.59	48.230			
4,700.00	4,661.35	4,466.07	4,394.39	11.76	12.43	135.55	322.67	684.89	1,089.72	1,095.12	22.98	48.666			
4,800.00	4,761.20	4,561.85	4,486.92	11.95	12.74	135.63	328.60	708.97	1,118.09	1,121.35	23.34	49.047			
4,900.00	4,861.15	4,658.06	4,579.84	12.12	13.06	135.60	334.56	733.15	1,144.69						
5,000.00	4,961.15	4,754.58	4,673.07	12.19	13.38	94.68	340.54	757.41	1,169.65	1,146.03	23.62	49.513			

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 215H
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 215H	Survey Calculation Method:	Minimum 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

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:			Offset Site Error:		0.00 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Offset Well Error:		0.50 usft			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
5,100.00	5,061.15	4,851.17	4,766.37	12.27	13.70	94.29	346.53	781.69	1,194.31	1,170.38	23.93	49.907				
5,200.00	5,161.15	4,947.77	4,859.67	12.35	14.02	93.91	352.51	805.96	1,219.01	1,194.78	24.24	50.292				
5,300.00	5,261.15	5,044.36	4,952.97	12.43	14.34	93.55	358.50	830.24	1,243.77	1,219.22	24.55	50.669				
5,400.00	5,361.15	5,140.95	5,046.27	12.52	14.66	93.20	364.48	854.52	1,268.57	1,243.71	24.86	51.038				
5,500.00	5,461.15	5,237.54	5,139.57	12.60	14.99	92.87	370.47	878.80	1,293.41	1,268.25	25.16	51.399				
5,600.00	5,561.15	5,334.13	5,232.86	12.68	15.31	92.54	376.45	903.08	1,318.29	1,292.82	25.47	51.752				
5,700.00	5,661.15	5,430.72	5,326.16	12.76	15.64	92.23	382.44	927.36	1,343.21	1,317.43	25.78	52.098				
5,800.00	5,761.15	5,527.31	5,419.46	12.84	15.96	91.93	388.42	951.64	1,368.17	1,342.08	26.09	52.436				
5,900.00	5,861.15	5,623.90	5,512.76	12.93	16.29	91.64	394.41	975.91	1,393.16	1,366.76	26.40	52.767				
6,000.00	5,961.15	5,720.49	5,606.06	13.01	16.62	91.36	400.39	1,000.19	1,418.19	1,391.47	26.71	53.091				
6,100.00	6,061.15	5,817.08	5,699.36	13.09	16.94	91.10	406.37	1,024.47	1,443.24	1,416.22	27.02	53.407				
6,200.00	6,161.15	5,913.68	5,792.65	13.17	17.27	90.84	412.36	1,048.75	1,468.32	1,440.99	27.33	53.728				
6,300.00	6,261.15	6,068.29	5,942.75	13.25	17.75	90.47	421.23	1,084.72	1,491.58	1,463.72	27.86	53.535				
6,400.00	6,361.15	6,226.73	6,097.99	13.33	18.19	90.17	428.80	1,115.44	1,510.97	1,482.60	28.38	53.248				
6,500.00	6,461.15	6,387.61	6,256.83	13.42	18.56	89.93	434.90	1,140.21	1,526.38	1,497.53	28.85	52.910				
6,600.00	6,561.15	6,550.40	6,418.49	13.50	18.86	89.76	439.45	1,158.64	1,537.72	1,508.45	29.27	52.532				
6,700.00	6,661.15	6,714.53	6,582.15	13.58	19.09	89.66	442.36	1,170.44	1,544.92	1,515.27	29.64	52.115				
6,800.00	6,761.15	6,879.40	6,746.93	13.66	19.24	89.61	443.58	1,175.40	1,547.94	1,518.00	29.94	51.704				
6,900.00	6,861.15	6,993.61	6,861.15	13.74	19.29	89.61	443.62	1,175.57	1,548.04	1,517.96	30.08	51.472				
7,000.00	6,961.15	7,093.61	6,961.15	13.83	19.34	89.61	443.62	1,175.57	1,548.04	1,517.83	30.21	51.248				
7,100.00	7,061.15	7,193.61	7,061.15	13.91	19.39	89.61	443.62	1,175.57	1,548.04	1,517.70	30.34	51.026				
7,200.00	7,161.15	7,293.61	7,161.15	13.99	19.45	89.61	443.62	1,175.57	1,548.04	1,517.57	30.47	50.805				
7,300.00	7,261.15	7,393.61	7,261.15	14.07	19.50	89.61	443.62	1,175.57	1,548.04	1,517.43	30.60	50.585				
7,400.00	7,361.15	7,493.61	7,361.15	14.15	19.55	89.61	443.62	1,175.57	1,548.04	1,517.30	30.74	50.367				
7,500.00	7,461.15	7,593.61	7,461.15	14.24	19.60	89.61	443.62	1,175.57	1,548.04	1,517.17	30.87	50.151				
7,600.00	7,561.15	7,693.61	7,561.15	14.32	19.65	89.61	443.62	1,175.57	1,548.04	1,517.04	31.00	49.935				
7,700.00	7,661.15	7,793.61	7,661.15	14.40	19.70	89.61	443.62	1,175.57	1,548.04	1,516.90	31.13	49.722				
7,800.00	7,761.15	7,893.61	7,761.15	14.48	19.76	89.61	443.62	1,175.57	1,548.04	1,516.77	31.27	49.509				
7,900.00	7,861.15	7,993.61	7,861.15	14.56	19.81	89.61	443.62	1,175.57	1,548.04	1,516.63	31.40	49.299				
8,000.00	7,961.15	8,093.61	7,961.15	14.65	19.86	89.61	443.62	1,175.57	1,548.04	1,516.50	31.54	49.089				
8,100.00	8,061.15	8,193.61	8,061.15	14.73	19.91	89.61	443.62	1,175.57	1,548.04	1,516.37	31.67	48.881				
8,200.00	8,161.15	8,293.61	8,161.15	14.81	19.97	89.61	443.62	1,175.57	1,548.04	1,516.23	31.80	48.675				
8,300.00	8,261.15	8,393.61	8,261.15	14.89	20.02	89.61	443.62	1,175.57	1,548.04	1,516.10	31.94	48.470				
8,400.00	8,361.15	8,493.61	8,361.15	14.98	20.07	89.61	443.62	1,175.57	1,548.04	1,515.96	32.07	48.266				
8,500.00	8,461.15	8,593.61	8,461.15	15.06	20.13	89.61	443.62	1,175.57	1,548.04	1,515.83	32.21	48.063				
8,600.00	8,561.15	8,693.61	8,561.15	15.14	20.18	89.61	443.62	1,175.57	1,548.04	1,515.69	32.34	47.862				
8,700.00	8,661.15	8,793.61	8,661.15	15.22	20.23	89.61	443.62	1,175.57	1,548.04	1,515.56	32.48	47.663				
8,800.00	8,761.15	8,893.61	8,761.15	15.30	20.29	89.61	443.62	1,175.57	1,548.04	1,515.42	32.61	47.464				
8,900.00	8,861.15	8,993.61	8,861.15	15.39	20.34	89.61	443.62	1,175.57	1,548.04	1,515.29	32.75	47.267				
9,000.00	8,961.15	9,093.61	8,961.15	15.47	20.40	89.61	443.62	1,175.57	1,548.04	1,515.15	32.89	47.072				
9,100.00	9,061.15	9,193.61	9,061.15	15.55	20.45	89.61	443.62	1,175.57	1,548.04	1,515.01	33.02	46.877				
9,200.00	9,161.15	9,293.61	9,161.15	15.63	20.51	89.61	443.62	1,175.57	1,548.04	1,514.88	33.16	46.684				
9,300.00	9,261.15	9,393.61	9,261.15	15.71	20.56	89.61	443.62	1,175.57	1,548.04	1,514.74	33.30	46.493				
9,400.00	9,361.15	9,493.61	9,361.15	15.80	20.62	89.61	443.62	1,175.57	1,548.04	1,514.60	33.43	46.302				
9,500.00	9,461.15	9,593.61	9,461.15	15.88	20.67	89.61	443.62	1,175.57	1,548.04	1,514.47	33.57	46.113				
9,600.00	9,561.15	9,693.61	9,561.15	15.96	20.73	89.61	443.62	1,175.57	1,548.04	1,514.33	33.71	45.925				
9,700.00	9,661.15	9,793.61	9,661.15	16.04	20.78	89.61	443.62	1,175.57	1,548.04	1,514.19	33.85	45.738				
9,800.00	9,761.15	9,893.61	9,761.15	16.12	20.84	89.61	443.62	1,175.57	1,548.04	1,514.05	33.98	45.553				
9,900.00	9,861.15	9,993.61	9,861.15	16.21	20.89	89.61	443.62	1,175.57	1,548.04	1,513.91	34.12	45.369				
10,000.00	9,961.15	10,093.61	9,961.15	16.29	20.95	89.61	443.62	1,175.57	1,548.04	1,513.78	34.26	45.186				
10,100.00	10,061.15	10,193.61	10,061.15	16.37	21.01	89.61	443.62	1,175.57	1,548.04	1,513.64	34.40	45.004				
10,200.00	10,161.15	10,293.61	10,161.15	16.45	21.06	89.61	443.62	1,175.57	1,548.04	1,513.50	34.54	44.824				

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 215H
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 215H	Survey Calculation Method:	Minimum 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		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 (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
10,300.00	10,261.15	10,393.61	10,261.15	16.54	21.12	89.61	443.62	1,175.57	1,548.04	1,513.36	34.67	44.644		
10,400.00	10,361.15	10,493.61	10,361.15	16.62	21.18	89.61	443.62	1,175.57	1,548.04	1,513.22	34.81	44.466		
10,500.00	10,461.15	10,593.61	10,461.15	16.70	21.23	89.61	443.62	1,175.57	1,548.04	1,513.08	34.95	44.289		
10,600.00	10,561.15	10,693.61	10,561.15	16.78	21.29	89.61	443.62	1,175.57	1,548.04	1,512.94	35.09	44.114		
10,700.00	10,661.15	10,793.61	10,661.15	16.86	21.35	89.61	443.62	1,175.57	1,548.04	1,512.80	35.23	43.939		
10,800.00	10,761.15	10,893.61	10,761.15	16.95	21.41	89.61	443.62	1,175.57	1,548.04	1,512.66	35.37	43.766		
10,900.00	10,861.15	10,993.61	10,861.15	17.03	21.46	89.61	443.62	1,175.57	1,548.04	1,512.53	35.51	43.593		
11,000.00	10,961.15	11,093.61	10,961.15	17.11	21.52	89.61	443.62	1,175.57	1,548.04	1,512.39	35.65	43.422		
11,100.00	11,061.15	11,193.61	11,061.15	17.19	21.58	89.61	443.62	1,175.57	1,548.04	1,512.24	35.79	43.252		
11,200.00	11,161.15	11,293.61	11,161.15	17.27	21.64	89.61	443.62	1,175.57	1,548.04	1,512.10	35.93	43.083		
11,300.00	11,261.15	11,393.61	11,261.15	17.36	21.70	89.61	443.62	1,175.57	1,548.04	1,511.96	36.07	42.916		
11,400.00	11,361.15	11,493.61	11,361.15	17.44	21.76	89.61	443.62	1,175.57	1,548.04	1,511.82	36.21	42.749		
11,500.00	11,461.15	11,593.61	11,461.15	17.52	21.81	89.61	443.62	1,175.57	1,548.04	1,511.68	36.35	42.583		
11,514.12	11,475.27	11,607.74	11,475.27	17.53	21.82	89.61	443.62	1,175.57	1,548.04	1,511.66	36.37	42.561		
11,600.00	11,561.15	11,693.58	11,561.11	17.60	21.86	89.61	443.58	1,175.57	1,548.04	1,511.55	36.48	42.431		
11,700.00	11,661.15	11,791.89	11,658.83	17.69	21.92	89.97	433.95	1,175.65	1,548.09	1,511.55	36.54	42.367		
11,800.00	11,761.15	11,884.34	11,747.97	17.77	21.96	90.86	409.79	1,175.86	1,548.52	1,511.95	36.57	42.343		
11,900.00	11,861.15	11,967.25	11,823.68	17.85	21.99	92.10	376.19	1,176.15	1,550.08	1,513.48	36.60	42.351		
12,000.00	11,961.14	12,039.36	11,885.00	17.90	22.02	-85.91	338.34	1,176.48	1,553.63	1,517.01	36.62	42.421		
12,100.00	12,060.18	12,106.37	11,937.31	17.93	22.06	-84.11	296.52	1,176.84	1,558.89	1,522.33	36.56	42.641		
12,200.00	12,155.47	12,171.29	11,983.00	17.96	22.10	-82.39	250.46	1,177.23	1,565.08	1,528.60	36.48	42.905		
12,300.00	12,244.13	12,234.66	12,022.30	17.98	22.17	-80.79	200.79	1,177.66	1,571.65	1,535.23	36.41	43.162		
12,400.00	12,323.46	12,300.00	12,056.82	18.01	22.26	-79.34	145.35	1,178.14	1,578.08	1,541.70	36.38	43.376		
12,500.00	12,391.04	12,350.00	12,078.85	18.04	22.35	-78.25	100.49	1,178.53	1,583.94	1,547.48	36.46	43.443		
12,600.00	12,444.83	12,418.96	12,102.65	18.09	22.51	-77.23	35.81	1,179.08	1,588.74	1,552.16	36.58	43.434		
12,700.00	12,483.18	12,479.27	12,116.96	18.16	22.69	-76.56	-22.74	1,179.59	1,592.27	1,555.47	36.81	43.260		
12,800.00	12,504.94	12,539.32	12,125.02	18.27	22.89	-76.18	-82.22	1,180.10	1,594.28	1,557.16	37.13	42.943		
12,900.00	12,510.19	12,611.15	12,127.19	18.42	23.17	-76.10	-154.00	1,180.72	1,594.71	1,557.17	37.54	42.482		
13,000.00	12,511.06	12,711.15	12,128.07	18.62	23.61	-76.10	-253.99	1,181.58	1,594.71	1,556.55	38.16	41.790		
13,100.00	12,511.94	12,811.15	12,128.94	18.88	24.12	-76.10	-353.98	1,182.44	1,594.71	1,555.76	38.96	40.936		
13,200.00	12,512.81	12,911.15	12,129.81	19.20	24.68	-76.10	-453.97	1,183.30	1,594.72	1,554.80	39.92	39.951		
13,300.00	12,513.68	13,011.15	12,130.68	19.61	25.28	-76.10	-553.97	1,184.16	1,594.72	1,553.69	41.03	38.868		
13,400.00	12,514.56	13,111.15	12,131.55	20.11	25.94	-76.10	-653.96	1,185.02	1,594.72	1,552.43	42.28	37.716		
13,500.00	12,515.43	13,211.15	12,132.42	20.70	26.64	-76.10	-753.95	1,185.89	1,594.72	1,551.05	43.66	36.522		
13,600.00	12,516.30	13,311.15	12,133.30	21.37	27.39	-76.10	-853.94	1,186.75	1,594.72	1,549.56	45.16	35.310		
13,700.00	12,517.18	13,411.15	12,134.17	22.12	28.17	-76.10	-953.94	1,187.61	1,594.72	1,547.95	46.77	34.099		
13,800.00	12,518.05	13,511.15	12,135.04	22.93	28.99	-76.10	-1,053.93	1,188.47	1,594.72	1,546.25	48.47	32.904		
13,900.00	12,518.92	13,611.15	12,135.91	23.80	29.85	-76.10	-1,153.92	1,189.33	1,594.72	1,544.47	50.25	31.736		
14,000.00	12,519.80	13,711.15	12,136.78	24.73	30.74	-76.10	-1,253.91	1,190.19	1,594.72	1,542.61	52.11	30.603		
14,100.00	12,520.67	13,811.15	12,137.65	25.70	31.66	-76.10	-1,353.91	1,191.05	1,594.72	1,540.68	54.04	29.511		
14,200.00	12,521.54	13,911.15	12,138.53	26.70	32.61	-76.10	-1,453.90	1,191.91	1,594.72	1,538.69	56.03	28.463		
14,300.00	12,522.42	14,011.15	12,139.40	27.75	33.58	-76.10	-1,553.89	1,192.78	1,594.72	1,536.65	58.07	27.461		
14,400.00	12,523.29	14,111.15	12,140.27	28.82	34.58	-76.10	-1,653.88	1,193.64	1,594.72	1,534.56	60.17	26.505		
14,500.00	12,524.16	14,211.15	12,141.14	29.91	35.60	-76.10	-1,753.88	1,194.50	1,594.73	1,532.42	62.30	25.596		
14,600.00	12,525.04	14,311.15	12,142.01	31.04	36.65	-76.10	-1,853.87	1,195.36	1,594.73	1,530.24	64.48	24.731		
14,700.00	12,525.91	14,411.15	12,142.88	32.18	37.71	-76.10	-1,953.86	1,196.22	1,594.73	1,528.03	66.70	23.911		
14,800.00	12,526.78	14,511.15	12,143.76	33.34	38.79	-76.10	-2,053.85	1,197.08	1,594.73	1,525.79	68.94	23.132		
14,900.00	12,527.66	14,611.15	12,144.63	34.51	39.89	-76.10	-2,153.85	1,197.94	1,594.73	1,523.51	71.22	22.393		
15,000.00	12,528.53	14,711.15	12,145.50	35.70	41.01	-76.10	-2,253.84	1,198.80	1,594.73	1,521.21	73.52	21.692		
15,100.00	12,529.40	14,811.15	12,146.37	36.91	42.14	-76.10	-2,353.83	1,199.67	1,594.73	1,518.89	75.84	21.027		
15,200.00	12,530.28	14,911.15	12,147.24	38.12	43.28	-76.10	-2,453.82	1,200.53	1,594.73	1,516.54	78.19	20.395		
15,300.00	12,531.15	15,011.15	12,148.11	39.35	44.44	-76.10	-2,553.82	1,201.39	1,594.73	1,514.17	80.56	19.796		

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 215H
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 215H	Survey Calculation Method:	Minimum 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)		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	12,532.02	15,111.15	12,148.99	40.58	45.60	-76.10	-2,653.81	1,202.25	1,594.73	1,511.79	82.94	19.226	
15,500.00	12,532.89	15,211.15	12,149.86	41.82	46.78	-76.10	-2,753.80	1,203.11	1,594.73	1,509.39	85.35	18.685	
15,600.00	12,533.77	15,311.15	12,150.73	43.08	47.97	-76.10	-2,853.79	1,203.97	1,594.73	1,506.97	87.77	18.170	
15,700.00	12,534.64	15,411.15	12,151.60	44.34	49.16	-76.10	-2,953.79	1,204.83	1,594.73	1,504.54	90.20	17.680	
15,800.00	12,535.51	15,511.15	12,152.47	45.60	50.37	-76.10	-3,053.78	1,205.69	1,594.74	1,502.09	92.64	17.214	
15,900.00	12,536.39	15,611.15	12,153.34	46.87	51.58	-76.10	-3,153.77	1,206.56	1,594.74	1,499.64	95.10	16.769	
16,000.00	12,537.26	15,711.15	12,154.22	48.15	52.80	-76.10	-3,253.76	1,207.42	1,594.74	1,497.17	97.57	16.345	
16,100.00	12,538.13	15,811.15	12,155.09	49.43	54.03	-76.10	-3,353.76	1,208.28	1,594.74	1,494.69	100.05	15.940	
16,200.00	12,539.01	15,911.15	12,155.96	50.72	55.27	-76.10	-3,453.75	1,209.14	1,594.74	1,492.20	102.53	15.553	
16,300.00	12,539.88	16,011.15	12,156.83	52.01	56.51	-76.10	-3,553.74	1,210.00	1,594.74	1,489.71	105.03	15.183	
16,400.00	12,540.75	16,111.15	12,157.70	53.30	57.75	-76.10	-3,653.73	1,210.86	1,594.74	1,487.20	107.54	14.830	
16,500.00	12,541.63	16,211.15	12,158.57	54.60	59.00	-76.10	-3,753.73	1,211.72	1,594.74	1,484.69	110.05	14.491	
16,600.00	12,542.50	16,311.15	12,159.44	55.90	60.26	-76.10	-3,853.72	1,212.59	1,594.74	1,482.17	112.57	14.167	
16,700.00	12,543.37	16,411.15	12,160.32	57.21	61.52	-76.10	-3,953.71	1,213.45	1,594.74	1,479.64	115.10	13.856	
16,800.00	12,544.25	16,511.15	12,161.19	58.52	62.79	-76.10	-4,053.70	1,214.31	1,594.74	1,477.11	117.63	13.557	
16,900.00	12,545.12	16,611.15	12,162.06	59.83	64.06	-76.10	-4,153.70	1,215.17	1,594.74	1,474.57	120.17	13.271	
17,000.00	12,545.99	16,711.15	12,162.93	61.14	65.33	-76.10	-4,253.69	1,216.03	1,594.74	1,472.03	122.71	12.996	
17,100.00	12,546.87	16,811.15	12,163.80	62.46	66.61	-76.10	-4,353.68	1,216.89	1,594.74	1,469.48	125.26	12.731	
17,200.00	12,547.74	16,911.15	12,164.67	63.78	67.89	-76.10	-4,453.67	1,217.75	1,594.75	1,466.93	127.82	12.477	
17,300.00	12,548.61	17,011.15	12,165.55	65.10	69.18	-76.10	-4,553.67	1,218.61	1,594.75	1,464.37	130.38	12.232	
17,400.00	12,549.49	17,111.15	12,166.42	66.42	70.47	-76.10	-4,653.66	1,219.48	1,594.75	1,461.81	132.94	11.996	
17,500.00	12,550.36	17,211.15	12,167.29	67.75	71.76	-76.10	-4,753.65	1,220.34	1,594.75	1,459.24	135.51	11.769	
17,600.00	12,551.23	17,311.15	12,168.16	69.07	73.05	-76.10	-4,853.64	1,221.20	1,594.75	1,456.67	138.08	11.550	
17,700.00	12,552.11	17,411.15	12,169.03	70.40	74.35	-76.10	-4,953.64	1,222.06	1,594.75	1,454.10	140.65	11.338	
17,800.00	12,552.98	17,511.15	12,169.90	71.73	75.65	-76.10	-5,053.63	1,222.92	1,594.75	1,451.52	143.23	11.134	
17,900.00	12,553.85	17,611.15	12,170.78	73.06	76.95	-76.10	-5,153.62	1,223.78	1,594.75	1,448.94	145.81	10.937	
18,000.00	12,554.73	17,711.15	12,171.65	74.40	78.26	-76.10	-5,253.61	1,224.64	1,594.75	1,446.35	148.40	10.746	
18,100.00	12,555.60	17,811.15	12,172.52	75.73	79.56	-76.10	-5,353.61	1,225.50	1,594.75	1,443.77	150.99	10.562	
18,200.00	12,556.47	17,911.15	12,173.39	77.06	80.87	-76.10	-5,453.60	1,226.37	1,594.75	1,441.18	153.58	10.384	
18,300.00	12,557.35	18,011.15	12,174.26	78.40	82.18	-76.10	-5,553.59	1,227.23	1,594.75	1,438.58	156.17	10.212	
18,400.00	12,558.22	18,111.15	12,175.13	79.74	83.49	-76.10	-5,653.58	1,228.09	1,594.75	1,435.99	158.76	10.045	
18,500.00	12,559.09	18,211.15	12,176.01	81.08	84.81	-76.10	-5,753.58	1,228.95	1,594.76	1,433.39	161.36	9.883	
18,600.00	12,559.97	18,311.15	12,176.88	82.42	86.12	-76.10	-5,853.57	1,229.81	1,594.76	1,430.79	163.96	9.726	
18,700.00	12,560.84	18,411.15	12,177.75	83.76	87.44	-76.10	-5,953.56	1,230.67	1,594.76	1,428.19	166.56	9.574	
18,800.00	12,561.71	18,511.15	12,178.62	85.10	88.76	-76.10	-6,053.55	1,231.53	1,594.76	1,425.59	169.17	9.427	
18,900.00	12,562.59	18,611.15	12,179.49	86.44	90.08	-76.10	-6,153.55	1,232.39	1,594.76	1,422.98	171.78	9.284	
19,000.00	12,563.46	18,711.15	12,180.36	87.79	91.40	-76.10	-6,253.54	1,233.26	1,594.76	1,420.38	174.38	9.145	
19,100.00	12,564.33	18,811.15	12,181.24	89.13	92.73	-76.10	-6,353.53	1,234.12	1,594.76	1,417.77	176.99	9.010	
19,200.00	12,565.20	18,911.15	12,182.11	90.48	94.05	-76.10	-6,453.52	1,234.98	1,594.76	1,415.16	179.61	8.879	
19,300.00	12,566.08	19,011.15	12,182.98	91.82	95.38	-76.10	-6,553.52	1,235.84	1,594.76	1,412.54	182.22	8.752	
19,400.00	12,566.95	19,111.15	12,183.85	93.17	96.71	-76.10	-6,653.51	1,236.70	1,594.76	1,409.93	184.83	8.628	
19,500.00	12,567.82	19,211.15	12,184.72	94.51	98.03	-76.10	-6,753.50	1,237.56	1,594.76	1,407.31	187.45	8.508	
19,600.00	12,568.70	19,311.15	12,185.59	95.86	99.36	-76.10	-6,853.49	1,238.42	1,594.76	1,404.70	190.07	8.390	
19,700.00	12,569.57	19,411.15	12,186.46	97.21	100.69	-76.10	-6,953.49	1,239.29	1,594.76	1,402.08	192.69	8.276	
19,800.00	12,570.44	19,511.15	12,187.34	98.56	102.03	-76.10	-7,053.48	1,240.15	1,594.76	1,399.46	195.31	8.165	
19,900.00	12,571.32	19,611.15	12,188.21	99.91	103.36	-76.10	-7,153.47	1,241.01	1,594.77	1,396.84	197.93	8.057	
20,000.00	12,572.19	19,711.15	12,189.08	101.26	104.69	-76.10	-7,253.46	1,241.87	1,594.77	1,394.21	200.55	7.952	
20,100.00	12,573.06	19,811.15	12,189.95	102.61	106.03	-76.10	-7,353.46	1,242.73	1,594.77	1,391.59	203.18	7.849	
20,200.00	12,573.94	19,911.15	12,190.82	103.96	107.36	-76.10	-7,453.45	1,243.59	1,594.77	1,388.96	205.80	7.749	
20,300.00	12,574.81	20,011.15	12,191.69	105.31	108.70	-76.10	-7,553.44	1,244.45	1,594.77	1,386.34	208.43	7.651	
20,400.00	12,575.68	20,111.15	12,192.57	106.66	110.04	-76.10	-7,653.43	1,245.31	1,594.77	1,383.71	211.06	7.556	
20,500.00	12,576.56	20,211.15	12,193.44	108.02	111.37	-76.10	-7,753.43	1,246.18	1,594.77	1,381.08	213.69	7.463	

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 215H
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 215H	Survey Calculation Method:	Minimum 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)		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	12,577.43	20,311.15	12,194.31	109.37	112.71	-76.10	-76.10	-76.10	-7,853.42	1,247.04	1,594.77	1,378.46	216.32	7.372	
20,700.00	12,578.30	20,411.15	12,195.18	110.72	114.05	-76.10	-76.10	-76.10	-7,953.41	1,247.90	1,594.77	1,375.83	218.95	7.284	
20,800.00	12,579.18	20,511.15	12,196.05	112.08	115.39	-76.10	-76.10	-76.10	-8,053.40	1,248.76	1,594.77	1,373.19	221.58	7.197	
20,900.00	12,580.05	20,611.15	12,196.92	113.43	116.73	-76.10	-76.10	-76.10	-8,153.40	1,249.62	1,594.77	1,370.56	224.21	7.113	
21,000.00	12,580.92	20,711.15	12,197.80	114.79	118.08	-76.10	-76.10	-76.10	-8,253.39	1,250.48	1,594.77	1,367.93	226.84	7.030	
21,100.00	12,581.80	20,811.15	12,198.67	116.14	119.42	-76.10	-76.10	-76.10	-8,353.38	1,251.34	1,594.77	1,365.30	229.48	6.950	
21,200.00	12,582.67	20,911.15	12,199.54	117.50	120.76	-76.10	-76.10	-76.10	-8,453.37	1,252.20	1,594.78	1,362.66	232.11	6.871	
21,300.00	12,583.54	21,011.15	12,200.41	118.85	122.10	-76.10	-76.10	-76.10	-8,553.37	1,253.07	1,594.78	1,360.03	234.75	6.794	
21,400.00	12,584.42	21,111.15	12,201.28	120.21	123.45	-76.10	-76.10	-76.10	-8,653.36	1,253.93	1,594.78	1,357.39	237.38	6.718	
21,500.00	12,585.29	21,211.15	12,202.15	121.56	124.79	-76.10	-76.10	-76.10	-8,753.35	1,254.79	1,594.78	1,354.76	240.02	6.644	
21,600.00	12,586.16	21,311.15	12,203.03	122.92	126.14	-76.10	-76.10	-76.10	-8,853.34	1,255.65	1,594.78	1,352.12	242.66	6.572	
21,700.00	12,587.04	21,411.15	12,203.90	124.28	127.48	-76.10	-76.10	-76.10	-8,953.34	1,256.51	1,594.78	1,349.48	245.30	6.501	
21,800.00	12,587.91	21,511.15	12,204.77	125.63	128.83	-76.10	-76.10	-76.10	-9,053.33	1,257.37	1,594.78	1,346.84	247.94	6.432	
21,900.00	12,588.78	21,611.15	12,205.64	126.99	130.18	-76.10	-76.10	-76.10	-9,153.32	1,258.23	1,594.78	1,344.20	250.58	6.364	
22,000.00	12,589.66	21,711.15	12,206.51	128.35	131.52	-76.10	-76.10	-76.10	-9,253.31	1,259.09	1,594.78	1,341.57	253.22	6.298	
22,100.00	12,590.53	21,811.15	12,207.38	129.71	132.87	-76.10	-76.10	-76.10	-9,353.31	1,259.96	1,594.78	1,338.93	255.86	6.233	
22,200.00	12,591.40	21,911.15	12,208.26	131.07	134.22	-76.10	-76.10	-76.10	-9,453.30	1,260.82	1,594.78	1,336.28	258.50	6.169	
22,300.00	12,592.28	22,011.15	12,209.13	132.42	135.57	-76.10	-76.10	-76.10	-9,553.29	1,261.68	1,594.78	1,333.64	261.14	6.107	
22,400.00	12,593.15	22,111.15	12,210.00	133.78	136.92	-76.10	-76.10	-76.10	-9,653.28	1,262.54	1,594.78	1,331.00	263.78	6.046	
22,500.00	12,594.02	22,211.15	12,210.87	135.14	138.27	-76.10	-76.10	-76.10	-9,753.28	1,263.40	1,594.78	1,328.36	266.43	5.986	
22,600.00	12,594.89	22,311.15	12,211.74	136.50	139.62	-76.10	-76.10	-76.10	-9,853.27	1,264.26	1,594.79	1,325.72	269.07	5.927	
22,700.00	12,595.77	22,411.15	12,212.61	137.86	140.97	-76.10	-76.10	-76.10	-9,953.26	1,265.12	1,594.79	1,323.07	271.71	5.869	
22,800.00	12,596.64	22,511.15	12,213.49	139.22	142.32	-76.10	-76.10	-76.10	-10,053.25	1,265.98	1,594.79	1,320.43	274.36	5.813	
22,806.75	12,596.70	22,512.90	12,213.50	139.31	142.34	-76.10	-76.10	-76.10	-10,055.00	1,266.00	1,594.80	1,320.29	274.51	5.810	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 215H
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 215H	Survey Calculation Method:	Minimum 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)													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)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Warning		
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.50	0.50	69.74	856.00	2,319.00	2,471.94					
100.00	100.00	100.00	100.00	0.98	0.98	69.74	856.00	2,319.00	2,471.94	2,469.98	1.96	1,259.791		
200.00	200.00	200.00	200.00	1.56	1.56	69.74	856.00	2,319.00	2,471.94	2,468.82	3.12	791.718		
300.00	300.00	300.00	300.00	1.98	1.98	69.74	856.00	2,319.00	2,471.94	2,467.98	3.96	623.863	CC, ES	
400.00	399.99	375.66	375.66	2.41	2.30	110.45	855.52	2,319.57	2,472.89	2,468.29	4.60	537.804		
500.00	499.91	451.09	451.06	2.79	2.59	110.52	854.08	2,321.29	2,475.74	2,470.59	5.15	480.365		
600.00	599.69	526.08	525.95	3.12	2.86	110.63	851.70	2,324.12	2,480.52	2,474.86	5.66	437.943		
700.00	699.32	600.00	599.69	3.26	3.10	110.84	848.43	2,328.02	2,487.05	2,481.04	6.01	413.883		
800.00	798.94	688.09	687.46	3.51	3.21	111.16	843.59	2,333.79	2,494.54	2,488.17	6.37	391.540		
900.00	898.56	786.59	785.58	3.76	3.44	111.51	838.07	2,340.37	2,502.23	2,495.38	6.85	365.535		
1,000.00	998.18	885.08	883.70	3.99	3.68	111.86	832.55	2,346.94	2,510.01	2,502.69	7.31	343.279		
1,100.00	1,097.80	983.57	981.81	4.22	3.90	112.21	827.04	2,353.52	2,517.88	2,510.12	7.76	324.383	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 215H
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 215H	Survey Calculation Method:	Minimum 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 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	90.00	0.00	25.00	25.00					
100.00	100.00	101.00	100.00	0.98	0.99	90.00	0.00	25.00	25.00	23.03	1.97	12.706	CC, ES	
200.00	200.00	201.00	200.00	1.56	1.57	90.00	0.00	25.00	25.00	21.87	3.13	7.996		
300.00	300.00	301.00	300.00	1.98	1.98	90.00	0.00	25.00	25.00	21.03	3.97	6.304		
400.00	399.99	400.99	399.99	2.41	2.33	132.88	0.00	25.00	25.87	21.17	4.70	5.504		
500.00	499.91	500.92	499.92	2.79	2.64	138.60	0.00	25.00	28.69	23.33	5.36	5.355		
600.00	599.69	601.56	600.55	3.12	2.98	145.58	0.56	23.77	32.55	26.52	6.03	5.396		
700.00	699.32	702.32	701.22	3.26	3.29	152.31	2.22	20.12	35.96	29.46	6.50	5.532		
800.00	798.94	803.21	801.89	3.51	3.58	158.09	4.98	14.05	37.26	30.22	7.05	5.288		
900.00	898.56	903.44	901.75	3.76	3.71	163.84	8.55	6.21	36.94	29.52	7.42	4.976		
965.15	963.47	968.54	966.61	3.91	3.85	167.63	10.90	1.04	36.86	29.14	7.73	4.770		
1,000.00	998.18	1,003.37	1,001.30	3.99	3.93	169.65	12.16	-1.72	36.89	29.00	7.89	4.676		
1,100.00	1,097.80	1,103.30	1,100.85	4.22	4.14	175.43	15.77	-9.64	37.21	28.87	8.34	4.464		
1,200.00	1,197.42	1,203.24	1,200.41	4.45	4.36	-178.95	19.37	-17.57	37.90	29.12	8.78	4.318		
1,300.00	1,296.92	1,304.03	1,300.69	4.71	4.61	-172.70	23.58	-26.81	39.02	29.77	9.25	4.219	SF	
1,400.00	1,396.13	1,404.74	1,400.58	4.97	4.87	-165.43	28.87	-38.44	41.05	31.35	9.70	4.231		
1,500.00	1,495.05	1,505.34	1,500.00	5.11	5.12	-157.45	35.24	-52.44	43.78	33.77	10.01	4.374		
1,600.00	1,593.95	1,605.78	1,598.81	5.33	5.36	-147.97	42.69	-68.79	45.89	35.53	10.36	4.429		
1,700.00	1,692.86	1,705.56	1,696.61	5.54	5.50	-137.49	50.88	-86.80	48.33	37.69	10.64	4.543		
1,800.00	1,791.76	1,805.15	1,794.20	5.76	5.71	-128.18	59.10	-104.86	52.18	41.17	11.01	4.740		
1,900.00	1,890.66	1,904.74	1,891.80	5.97	5.91	-120.32	67.32	-122.92	57.21	45.81	11.40	5.017		
2,000.00	1,989.56	2,004.33	1,989.39	6.18	6.12	-113.83	75.54	-140.99	63.14	51.32	11.82	5.342		
2,100.00	2,088.46	2,103.93	2,086.98	6.39	6.33	-108.50	83.76	-159.05	69.74	57.49	12.25	5.693		
2,200.00	2,187.36	2,203.52	2,184.58	6.60	6.54	-104.11	91.99	-177.12	76.84	64.15	12.69	6.055		
2,300.00	2,286.26	2,303.11	2,282.17	6.81	6.75	-100.49	100.21	-195.18	84.31	71.17	13.14	6.418		
2,400.00	2,385.16	2,402.70	2,379.76	7.02	6.97	-97.46	108.43	-213.25	92.05	78.47	13.59	6.776		
2,500.00	2,484.06	2,502.29	2,477.36	7.23	7.20	-94.91	116.65	-231.31	100.02	85.98	14.04	7.126		
2,600.00	2,582.96	2,601.88	2,574.95	7.44	7.44	-92.74	124.87	-249.38	108.15	93.66	14.49	7.465		
2,700.00	2,681.87	2,701.47	2,672.54	7.65	7.69	-90.87	133.09	-267.44	116.42	101.48	14.94	7.793		
2,800.00	2,780.77	2,801.06	2,770.14	7.85	7.95	-89.25	141.31	-285.50	124.79	109.40	15.39	8.109		
2,900.00	2,879.67	2,900.65	2,867.73	8.06	8.20	-87.84	149.54	-303.57	133.25	117.41	15.84	8.412		
3,000.00	2,978.57	3,000.25	2,965.32	8.27	8.46	-86.59	157.76	-321.63	141.78	125.49	16.29	8.703		
3,100.00	3,077.47	3,099.84	3,062.92	8.47	8.72	-85.49	165.98	-339.70	150.37	133.63	16.74	8.982		
3,200.00	3,176.37	3,199.43	3,160.51	8.68	8.98	-84.51	174.20	-357.76	159.00	141.81	17.19	9.250		
3,300.00	3,275.27	3,299.02	3,258.10	8.89	9.24	-83.63	182.42	-375.83	167.68	150.04	17.64	9.506		
3,400.00	3,374.17	3,398.61	3,355.70	9.09	9.51	-82.83	190.64	-393.89	176.40	158.31	18.09	9.752		
3,500.00	3,473.07	3,498.20	3,453.29	9.30	9.77	-82.11	198.86	-411.95	185.14	166.61	18.54	9.988		
3,600.00	3,571.97	3,597.79	3,550.88	9.50	10.03	-81.46	207.09	-430.02	193.92	174.93	18.98	10.215		
3,700.00	3,670.87	3,697.38	3,648.48	9.71	10.30	-80.86	215.31	-448.08	202.71	183.28	19.43	10.432		
3,800.00	3,769.78	3,796.97	3,746.07	9.91	10.56	-80.31	223.53	-466.15	211.53	191.65	19.88	10.641		
3,900.00	3,868.68	3,896.57	3,843.66	10.12	10.83	-79.80	231.75	-484.21	220.36	200.03	20.33	10.841		
4,000.00	3,967.58	3,996.16	3,941.26	10.33	11.10	-79.34	239.97	-502.28	229.21	208.44	20.77	11.034		
4,100.00	4,066.48	4,095.75	4,038.85	10.53	11.36	-78.91	248.19	-520.34	238.07	216.85	21.22	11.219		
4,200.00	4,165.38	4,195.34	4,136.44	10.74	11.63	-78.51	256.41	-538.41	246.95	225.28	21.67	11.398		
4,300.00	4,264.28	4,294.93	4,234.04	10.94	11.90	-78.14	264.64	-556.47	255.83	233.72	22.11	11.569		
4,400.00	4,363.18	4,394.52	4,331.63	11.14	12.16	-77.79	272.86	-574.53	264.73	242.18	22.55	11.738		
4,500.00	4,462.28	4,494.05	4,429.17	11.36	12.43	-77.31	281.07	-592.59	273.94	250.96	22.98	11.919		
4,600.00	4,561.69	4,593.42	4,526.54	11.56	12.70	-76.37	289.28	-610.61	283.79	260.41	23.38	12.137		
4,700.00	4,661.35	4,692.56	4,623.70	11.76	12.97	-75.02	297.46	-628.60	294.41	270.66	23.75	12.395		
4,800.00	4,761.20	4,791.41	4,720.56	11.95	13.23	-73.32	305.62	-646.52	305.96	281.86	24.09	12.699		
4,900.00	4,861.15	4,889.89	4,817.07	12.12	13.50	-71.33	313.75	-664.39	318.64	294.23	24.40	13.056		
5,000.00	4,961.15	4,987.98	4,913.18	12.19	13.76	-109.75	321.85	-682.18	332.60	307.94	24.65	13.492		

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 215H
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 215H	Survey Calculation Method:	Minimum 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: 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	
5,100.00	5,061.15	5,085.97	5,009.21	12.27	14.03	-107.48	329.94	-699.95	347.29	322.36	24.92	13.934	
5,200.00	5,161.15	5,183.97	5,105.24	12.35	14.29	-105.39	338.03	-717.73	362.48	337.28	25.20	14.385	
5,300.00	5,261.15	5,281.96	5,201.27	12.43	14.56	-103.47	346.12	-735.50	378.12	352.64	25.48	14.842	
5,400.00	5,361.15	5,379.95	5,297.30	12.52	14.82	-101.70	354.21	-753.28	394.14	368.38	25.75	15.304	
5,500.00	5,461.15	5,477.95	5,393.33	12.60	15.09	-100.07	362.30	-771.05	410.50	384.47	26.03	15.768	
5,600.00	5,561.15	5,575.94	5,489.35	12.68	15.36	-98.56	370.39	-788.83	427.17	400.85	26.32	16.233	
5,700.00	5,661.15	5,673.94	5,585.38	12.76	15.62	-97.17	378.48	-806.60	444.10	417.51	26.60	16.697	
5,800.00	5,761.15	5,771.93	5,681.41	12.84	15.89	-95.88	386.57	-824.38	461.28	434.40	26.88	17.160	
5,900.00	5,861.15	5,869.92	5,777.44	12.93	16.16	-94.68	394.65	-842.15	478.67	451.50	27.17	17.619	
6,000.00	5,961.15	5,975.97	5,881.49	13.01	16.43	-93.51	403.15	-860.82	495.74	468.26	27.49	18.037	
6,100.00	6,061.15	6,087.67	5,991.61	13.09	16.70	-92.52	410.87	-877.78	510.60	482.79	27.81	18.360	
6,200.00	6,161.15	6,200.38	6,103.24	13.17	16.94	-91.74	417.31	-891.93	522.95	494.84	28.12	18.600	
6,300.00	6,261.15	6,313.92	6,216.11	13.25	17.13	-91.15	422.41	-903.14	532.72	504.32	28.40	18.759	
6,400.00	6,361.15	6,428.10	6,329.93	13.33	17.30	-90.74	426.14	-911.33	539.84	511.19	28.66	18.839	
6,500.00	6,461.15	6,542.72	6,444.40	13.42	17.43	-90.49	428.46	-916.43	544.28	515.39	28.88	18.844	
6,600.00	6,561.15	6,657.57	6,559.23	13.50	17.52	-90.39	429.36	-918.40	545.99	516.94	29.05	18.796	
6,700.00	6,661.15	6,759.49	6,661.15	13.58	17.57	-90.39	429.37	-918.43	546.01	516.84	29.17	18.715	
6,800.00	6,761.15	6,859.49	6,761.15	13.66	17.63	-90.39	429.37	-918.43	546.01	516.70	29.31	18.627	
6,900.00	6,861.15	6,959.49	6,861.15	13.74	17.69	-90.39	429.37	-918.43	546.01	516.56	29.45	18.539	
7,000.00	6,961.15	7,059.49	6,961.15	13.83	17.75	-90.39	429.37	-918.43	546.01	516.42	29.59	18.452	
7,100.00	7,061.15	7,159.49	7,061.15	13.91	17.81	-90.39	429.37	-918.43	546.01	516.28	29.73	18.366	
7,200.00	7,161.15	7,259.49	7,161.15	13.99	17.87	-90.39	429.37	-918.43	546.01	516.14	29.87	18.280	
7,300.00	7,261.15	7,359.49	7,261.15	14.07	17.93	-90.39	429.37	-918.43	546.01	516.00	30.01	18.195	
7,400.00	7,361.15	7,459.49	7,361.15	14.15	17.99	-90.39	429.37	-918.43	546.01	515.86	30.15	18.111	
7,500.00	7,461.15	7,559.49	7,461.15	14.24	18.05	-90.39	429.37	-918.43	546.01	515.72	30.29	18.027	
7,600.00	7,561.15	7,659.49	7,561.15	14.32	18.11	-90.39	429.37	-918.43	546.01	515.58	30.43	17.944	
7,700.00	7,661.15	7,759.49	7,661.15	14.40	18.17	-90.39	429.37	-918.43	546.01	515.44	30.57	17.862	
7,800.00	7,761.15	7,859.49	7,761.15	14.48	18.23	-90.39	429.37	-918.43	546.01	515.30	30.71	17.780	
7,900.00	7,861.15	7,959.49	7,861.15	14.56	18.29	-90.39	429.37	-918.43	546.01	515.16	30.85	17.699	
8,000.00	7,961.15	8,059.49	7,961.15	14.65	18.35	-90.39	429.37	-918.43	546.01	515.02	30.99	17.619	
8,100.00	8,061.15	8,159.49	8,061.15	14.73	18.41	-90.39	429.37	-918.43	546.01	514.88	31.13	17.539	
8,200.00	8,161.15	8,259.49	8,161.15	14.81	18.47	-90.39	429.37	-918.43	546.01	514.74	31.27	17.460	
8,300.00	8,261.15	8,359.49	8,261.15	14.89	18.53	-90.39	429.37	-918.43	546.01	514.60	31.41	17.381	
8,400.00	8,361.15	8,459.49	8,361.15	14.98	18.59	-90.39	429.37	-918.43	546.01	514.46	31.56	17.303	
8,500.00	8,461.15	8,559.49	8,461.15	15.06	18.66	-90.39	429.37	-918.43	546.01	514.32	31.70	17.226	
8,600.00	8,561.15	8,659.49	8,561.15	15.14	18.72	-90.39	429.37	-918.43	546.01	514.17	31.84	17.149	
8,700.00	8,661.15	8,759.49	8,661.15	15.22	18.78	-90.39	429.37	-918.43	546.01	514.03	31.98	17.073	
8,800.00	8,761.15	8,859.49	8,761.15	15.30	18.84	-90.39	429.37	-918.43	546.01	513.89	32.12	16.997	
8,900.00	8,861.15	8,959.49	8,861.15	15.39	18.90	-90.39	429.37	-918.43	546.01	513.75	32.27	16.922	
9,000.00	8,961.15	9,059.49	8,961.15	15.47	18.97	-90.39	429.37	-918.43	546.01	513.60	32.41	16.848	
9,100.00	9,061.15	9,159.49	9,061.15	15.55	19.03	-90.39	429.37	-918.43	546.01	513.46	32.55	16.774	
9,200.00	9,161.15	9,259.49	9,161.15	15.63	19.09	-90.39	429.37	-918.43	546.01	513.32	32.69	16.700	
9,300.00	9,261.15	9,359.49	9,261.15	15.71	19.15	-90.39	429.37	-918.43	546.01	513.17	32.84	16.627	
9,400.00	9,361.15	9,459.49	9,361.15	15.80	19.22	-90.39	429.37	-918.43	546.01	513.03	32.98	16.555	
9,500.00	9,461.15	9,559.49	9,461.15	15.88	19.28	-90.39	429.37	-918.43	546.01	512.89	33.12	16.483	
9,600.00	9,561.15	9,659.49	9,561.15	15.96	19.34	-90.39	429.37	-918.43	546.01	512.74	33.27	16.412	
9,700.00	9,661.15	9,759.49	9,661.15	16.04	19.41	-90.39	429.37	-918.43	546.01	512.60	33.41	16.342	
9,800.00	9,761.15	9,859.49	9,761.15	16.12	19.47	-90.39	429.37	-918.43	546.01	512.46	33.56	16.271	
9,900.00	9,861.15	9,959.49	9,861.15	16.21	19.53	-90.39	429.37	-918.43	546.01	512.31	33.70	16.202	
10,000.00	9,961.15	10,059.49	9,961.15	16.29	19.60	-90.39	429.37	-918.43	546.01	512.17	33.84	16.133	
10,100.00	10,061.15	10,159.49	10,061.15	16.37	19.66	-90.39	429.37	-918.43	546.01	512.02	33.99	16.064	
10,200.00	10,161.15	10,259.49	10,161.15	16.45	19.72	-90.39	429.37	-918.43	546.01	511.88	34.13	15.996	

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 215H
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 215H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 151H - OH - Plan 1													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)									Rule Assigned:				Offset Well Error: 0.50 usft	
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 Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,300.00	10,261.15	10,359.49	10,261.15	16.54	19.79	-90.39	429.37	-918.43	546.01	511.73	34.28	15.929		
10,400.00	10,361.15	10,459.49	10,361.15	16.62	19.85	-90.39	429.37	-918.43	546.01	511.59	34.42	15.862		
10,500.00	10,461.15	10,559.49	10,461.15	16.70	19.92	-90.39	429.37	-918.43	546.01	511.44	34.57	15.795		
10,600.00	10,561.15	10,659.49	10,561.15	16.78	19.98	-90.39	429.37	-918.43	546.01	511.30	34.71	15.729		
10,700.00	10,661.15	10,759.49	10,661.15	16.86	20.05	-90.39	429.37	-918.43	546.01	511.15	34.86	15.663		
10,800.00	10,761.15	10,859.49	10,761.15	16.95	20.11	-90.39	429.37	-918.43	546.01	511.01	35.00	15.598		
10,900.00	10,861.15	10,959.49	10,861.15	17.03	20.18	-90.39	429.37	-918.43	546.01	510.86	35.15	15.534		
11,000.00	10,961.15	11,059.49	10,961.15	17.11	20.24	-90.39	429.37	-918.43	546.01	510.72	35.30	15.470		
11,100.00	11,061.15	11,159.49	11,061.15	17.19	20.30	-90.39	429.37	-918.43	546.01	510.58	35.43	15.409		
11,149.35	11,110.50	11,208.86	11,110.50	17.23	20.31	-90.49	428.39	-918.42	546.01	510.53	35.48	15.390		
11,200.00	11,161.15	11,259.03	11,160.39	17.27	20.34	-91.03	423.27	-918.38	546.04	510.54	35.50	15.381		
11,300.00	11,261.15	11,353.80	11,252.59	17.36	20.35	-93.28	401.80	-918.19	546.73	511.20	35.52	15.391		
11,400.00	11,361.15	11,439.51	11,331.91	17.44	20.35	-96.64	369.54	-917.92	549.95	514.40	35.56	15.467		
11,500.00	11,461.15	11,514.20	11,396.45	17.52	20.34	-100.50	332.06	-917.59	558.21	522.50	35.71	15.632		
11,600.00	11,561.15	11,577.80	11,447.17	17.60	20.33	-104.35	293.74	-917.26	573.80	537.69	36.12	15.888		
11,700.00	11,661.15	11,631.37	11,486.38	17.69	20.33	-107.89	257.27	-916.95	598.29	561.43	36.87	16.229		
11,800.00	11,761.15	11,676.37	11,516.57	17.77	20.34	-111.02	223.92	-916.66	632.26	594.31	37.96	16.657		
11,900.00	11,861.15	11,714.26	11,539.90	17.85	20.36	-113.72	194.07	-916.40	675.46	636.19	39.27	17.200		
12,000.00	11,961.14	11,750.00	11,560.05	17.90	20.38	62.85	164.56	-916.15	726.88	686.25	40.63	17.892		
12,100.00	12,060.18	11,779.31	11,575.17	17.93	20.40	55.63	139.45	-915.93	780.57	738.57	42.00	18.583		
12,200.00	12,155.47	11,814.19	11,591.47	17.96	20.44	49.24	108.63	-915.67	832.27	789.03	43.25	19.244		
12,300.00	12,244.13	11,850.00	11,606.21	17.98	20.48	44.07	76.00	-915.39	879.95	835.53	44.41	19.814		
12,400.00	12,323.46	11,900.00	11,623.34	18.01	20.56	39.76	29.04	-914.98	922.23	876.86	45.37	20.329		
12,500.00	12,391.04	11,926.81	11,630.81	18.04	20.61	36.97	3.30	-914.76	957.46	911.01	46.44	20.615		
12,600.00	12,444.83	11,965.96	11,639.55	18.09	20.69	34.79	-34.86	-914.43	985.30	937.98	47.32	20.823		
12,700.00	12,483.18	12,000.00	11,645.01	18.16	20.77	33.39	-68.45	-914.14	1,005.02	956.90	48.12	20.886		
12,800.00	12,504.94	12,050.00	11,649.40	18.27	20.91	32.58	-118.24	-913.72	1,016.13	967.39	48.74	20.846		
12,900.00	12,510.19	12,107.91	11,650.26	18.42	21.09	32.41	-176.14	-913.22	1,018.66	969.46	49.20	20.704		
13,000.00	12,511.06	12,207.91	11,651.13	18.62	21.45	32.41	-276.13	-912.36	1,018.66	969.14	49.52	20.570		
13,100.00	12,511.94	12,307.91	11,651.99	18.88	21.87	32.41	-376.12	-911.50	1,018.67	968.78	49.89	20.416		
13,200.00	12,512.81	12,407.91	11,652.86	19.20	22.35	32.41	-476.12	-910.64	1,018.68	968.36	50.32	20.244		
13,300.00	12,513.68	12,507.91	11,653.73	19.61	22.88	32.41	-576.11	-909.77	1,018.68	967.89	50.79	20.055		
13,400.00	12,514.56	12,607.91	11,654.59	20.11	23.46	32.41	-676.10	-908.91	1,018.69	967.37	51.32	19.851		
13,500.00	12,515.43	12,707.91	11,655.46	20.70	24.10	32.41	-776.09	-908.05	1,018.70	966.81	51.89	19.632		
13,600.00	12,516.30	12,807.91	11,656.32	21.37	24.78	32.41	-876.09	-907.19	1,018.70	966.20	52.51	19.402		
13,700.00	12,517.18	12,907.91	11,657.19	22.12	25.52	32.41	-976.08	-906.33	1,018.71	965.54	53.17	19.160		
13,800.00	12,518.05	13,007.91	11,658.06	22.93	26.29	32.41	-1,076.07	-905.47	1,018.71	964.84	53.87	18.910		
13,900.00	12,518.92	13,107.91	11,658.92	23.80	27.11	32.41	-1,176.06	-904.61	1,018.72	964.10	54.62	18.652		
14,000.00	12,519.80	13,207.91	11,659.79	24.73	27.97	32.41	-1,276.06	-903.75	1,018.73	963.33	55.40	18.388		
14,100.00	12,520.67	13,307.91	11,660.65	25.70	28.87	32.41	-1,376.05	-902.89	1,018.73	962.51	56.22	18.120		
14,200.00	12,521.54	13,407.91	11,661.52	26.70	29.80	32.41	-1,476.04	-902.03	1,018.74	961.66	57.08	17.847		
14,300.00	12,522.42	13,507.91	11,662.39	27.75	30.76	32.41	-1,576.03	-901.17	1,018.74	960.77	57.97	17.573		
14,400.00	12,523.29	13,607.91	11,663.25	28.82	31.75	32.41	-1,676.03	-900.31	1,018.75	959.85	58.90	17.296		
14,500.00	12,524.16	13,707.91	11,664.12	29.91	32.77	32.41	-1,776.02	-899.45	1,018.76	958.90	59.86	17.020		
14,600.00	12,525.04	13,807.91	11,664.98	31.04	33.81	32.41	-1,876.01	-898.59	1,018.76	957.92	60.84	16.744		
14,700.00	12,525.91	13,907.91	11,665.85	32.18	34.88	32.41	-1,976.00	-897.72	1,018.77	956.91	61.86	16.469		
14,800.00	12,526.78	14,007.91	11,666.72	33.34	35.96	32.41	-2,076.00	-896.86	1,018.78	955.87	62.90	16.196		
14,900.00	12,527.66	14,107.91	11,667.58	34.51	37.07	32.41	-2,175.99	-896.00	1,018.78	954.81	63.97	15.926		
15,000.00	12,528.53	14,207.91	11,668.45	35.70	38.19	32.41	-2,275.98	-895.14	1,018.79	953.73	65.06	15.659		
15,100.00	12,529.40	14,307.91	11,669.31	36.91	39.33	32.41	-2,375.97	-894.28	1,018.79	952.62	66.18	15.395		
15,200.00	12,530.28	14,407.91	11,670.18	38.12	40.48	32.41	-2,475.97	-893.42	1,018.80	951.48	67.32	15.134		
15,300.00	12,531.15	14,507.91	11,671.05	39.35	41.64	32.41	-2,575.96	-892.56	1,018.81	950.33	68.48	14.878		

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 215H
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 215H	Survey Calculation Method:	Minimum 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		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	12,532.02	14,607.91	11,671.91	40.58	42.82	32.41	-2,675.95	-891.70	1,018.81	949.16	69.66	14.626	
15,500.00	12,532.89	14,707.91	11,672.78	41.82	44.01	32.41	-2,775.94	-890.84	1,018.82	947.97	70.85	14.379	
15,600.00	12,533.77	14,807.91	11,673.64	43.08	45.20	32.41	-2,875.94	-889.98	1,018.83	946.76	72.07	14.136	
15,700.00	12,534.64	14,907.91	11,674.51	44.34	46.41	32.41	-2,975.93	-889.12	1,018.83	945.53	73.30	13.899	
15,800.00	12,535.51	15,007.91	11,675.38	45.60	47.63	32.41	-3,075.92	-888.26	1,018.84	944.28	74.55	13.666	
15,900.00	12,536.39	15,107.91	11,676.24	46.87	48.85	32.41	-3,175.92	-887.40	1,018.84	943.02	75.82	13.438	
16,000.00	12,537.26	15,207.91	11,677.11	48.15	50.09	32.41	-3,275.91	-886.54	1,018.85	941.75	77.10	13.215	
16,100.00	12,538.13	15,307.91	11,677.97	49.43	51.33	32.41	-3,375.90	-885.67	1,018.86	940.46	78.39	12.997	
16,200.00	12,539.01	15,407.91	11,678.84	50.72	52.57	32.41	-3,475.89	-884.81	1,018.86	939.16	79.70	12.784	
16,300.00	12,539.88	15,507.91	11,679.71	52.01	53.83	32.41	-3,575.89	-883.95	1,018.87	937.85	81.02	12.575	
16,400.00	12,540.75	15,607.91	11,680.57	53.30	55.08	32.41	-3,675.88	-883.09	1,018.88	936.52	82.35	12.372	
16,500.00	12,541.63	15,707.91	11,681.44	54.60	56.35	32.41	-3,775.87	-882.23	1,018.88	935.18	83.70	12.173	
16,600.00	12,542.50	15,807.91	11,682.30	55.90	57.62	32.40	-3,875.86	-881.37	1,018.89	933.84	85.05	11.980	
16,700.00	12,543.37	15,907.91	11,683.17	57.21	58.89	32.40	-3,975.86	-880.51	1,018.89	932.48	86.42	11.790	
16,800.00	12,544.25	16,007.91	11,684.04	58.52	60.17	32.40	-4,075.85	-879.65	1,018.90	931.11	87.79	11.606	
16,900.00	12,545.12	16,107.91	11,684.90	59.83	61.45	32.40	-4,175.84	-878.79	1,018.91	929.73	89.18	11.426	
17,000.00	12,545.99	16,207.91	11,685.77	61.14	62.73	32.40	-4,275.83	-877.93	1,018.91	928.34	90.57	11.250	
17,100.00	12,546.87	16,307.91	11,686.63	62.46	64.02	32.40	-4,375.83	-877.07	1,018.92	926.95	91.97	11.078	
17,200.00	12,547.74	16,407.91	11,687.50	63.78	65.31	32.40	-4,475.82	-876.21	1,018.93	925.54	93.38	10.911	
17,300.00	12,548.61	16,507.91	11,688.37	65.10	66.61	32.40	-4,575.81	-875.35	1,018.93	924.13	94.80	10.748	
17,400.00	12,549.49	16,607.91	11,689.23	66.42	67.91	32.40	-4,675.80	-874.48	1,018.94	922.71	96.23	10.589	
17,500.00	12,550.36	16,707.91	11,690.10	67.75	69.21	32.40	-4,775.80	-873.62	1,018.94	921.28	97.66	10.433	
17,600.00	12,551.23	16,807.91	11,690.96	69.07	70.51	32.40	-4,875.79	-872.76	1,018.95	919.85	99.10	10.282	
17,700.00	12,552.11	16,907.91	11,691.83	70.40	71.82	32.40	-4,975.78	-871.90	1,018.96	918.41	100.55	10.134	
17,800.00	12,552.98	17,007.91	11,692.70	71.73	73.13	32.40	-5,075.77	-871.04	1,018.96	916.96	102.00	9.990	
17,900.00	12,553.85	17,107.91	11,693.56	73.06	74.44	32.40	-5,175.77	-870.18	1,018.97	915.51	103.46	9.849	
18,000.00	12,554.73	17,207.91	11,694.43	74.40	75.75	32.40	-5,275.76	-869.32	1,018.97	914.05	104.92	9.711	
18,100.00	12,555.60	17,307.91	11,695.29	75.73	77.06	32.40	-5,375.75	-868.46	1,018.98	912.59	106.40	9.577	
18,200.00	12,556.47	17,407.91	11,696.16	77.06	78.38	32.40	-5,475.74	-867.60	1,018.99	911.12	107.87	9.446	
18,300.00	12,557.35	17,507.91	11,697.03	78.40	79.70	32.40	-5,575.74	-866.74	1,018.99	909.64	109.35	9.318	
18,400.00	12,558.22	17,607.91	11,697.89	79.74	81.02	32.40	-5,675.73	-865.88	1,019.00	908.16	110.84	9.194	
18,500.00	12,559.09	17,707.91	11,698.76	81.08	82.34	32.40	-5,775.72	-865.02	1,019.01	906.68	112.33	9.072	
18,600.00	12,559.97	17,807.91	11,699.62	82.42	83.66	32.40	-5,875.71	-864.16	1,019.01	905.19	113.82	8.953	
18,700.00	12,560.84	17,907.91	11,700.49	83.76	84.99	32.40	-5,975.71	-863.30	1,019.02	903.70	115.32	8.836	
18,800.00	12,561.71	18,007.91	11,701.36	85.10	86.32	32.40	-6,075.70	-862.43	1,019.02	902.20	116.83	8.723	
18,900.00	12,562.59	18,107.91	11,702.22	86.44	87.64	32.40	-6,175.69	-861.57	1,019.03	900.70	118.33	8.612	
19,000.00	12,563.46	18,207.91	11,703.09	87.79	88.97	32.40	-6,275.68	-860.71	1,019.04	899.19	119.85	8.503	
19,100.00	12,564.33	18,307.91	11,703.95	89.13	90.30	32.40	-6,375.68	-859.85	1,019.04	897.68	121.36	8.397	
19,200.00	12,565.20	18,407.91	11,704.82	90.48	91.63	32.40	-6,475.67	-858.99	1,019.05	896.17	122.88	8.293	
19,300.00	12,566.08	18,507.91	11,705.69	91.82	92.97	32.40	-6,575.66	-858.13	1,019.06	894.65	124.40	8.192	
19,400.00	12,566.95	18,607.91	11,706.55	93.17	94.30	32.40	-6,675.65	-857.27	1,019.06	893.14	125.93	8.092	
19,500.00	12,567.82	18,707.91	11,707.42	94.51	95.64	32.40	-6,775.65	-856.41	1,019.07	891.61	127.46	7.995	
19,600.00	12,568.70	18,807.91	11,708.28	95.86	96.97	32.40	-6,875.64	-855.55	1,019.07	890.09	128.99	7.901	
19,700.00	12,569.57	18,907.91	11,709.15	97.21	98.31	32.40	-6,975.63	-854.69	1,019.08	888.56	130.52	7.808	
19,800.00	12,570.44	19,007.91	11,710.02	98.56	99.65	32.40	-7,075.62	-853.83	1,019.09	887.03	132.06	7.717	
19,900.00	12,571.32	19,107.91	11,710.88	99.91	100.98	32.40	-7,175.62	-852.97	1,019.09	885.49	133.60	7.628	
20,000.00	12,572.19	19,207.91	11,711.75	101.26	102.32	32.40	-7,275.61	-852.11	1,019.10	883.96	135.14	7.541	
20,100.00	12,573.06	19,307.91	11,712.61	102.61	103.66	32.40	-7,375.60	-851.24	1,019.11	882.42	136.69	7.456	
20,200.00	12,573.94	19,407.91	11,713.48	103.96	105.00	32.40	-7,475.59	-850.38	1,019.11	880.87	138.24	7.372	
20,300.00	12,574.81	19,507.91	11,714.35	105.31	106.35	32.40	-7,575.59	-849.52	1,019.12	879.33	139.79	7.290	
20,400.00	12,575.68	19,607.91	11,715.21	106.66	107.69	32.40	-7,675.58	-848.66	1,019.12	877.78	141.34	7.210	
20,500.00	12,576.56	19,707.91	11,716.08	108.02	109.03	32.40	-7,775.57	-847.80	1,019.13	876.23	142.90	7.132	

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 215H
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 215H	Survey Calculation Method:	Minimum 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:

Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,577.43	19,807.91	11,716.94	109.37	110.37	32.40	-7,875.56	-846.94	1,019.14	874.68	144.45	7.055	
20,700.00	12,578.30	19,907.91	11,717.81	110.72	111.72	32.40	-7,975.56	-846.08	1,019.14	873.13	146.01	6.980	
20,800.00	12,579.18	20,007.91	11,718.68	112.08	113.06	32.40	-8,075.55	-845.22	1,019.15	871.57	147.58	6.906	
20,900.00	12,580.05	20,107.91	11,719.54	113.43	114.41	32.40	-8,175.54	-844.36	1,019.16	870.02	149.14	6.834	
21,000.00	12,580.92	20,207.91	11,720.41	114.79	115.76	32.40	-8,275.54	-843.50	1,019.16	868.46	150.70	6.763	
21,100.00	12,581.80	20,307.91	11,721.27	116.14	117.10	32.40	-8,375.53	-842.64	1,019.17	866.90	152.27	6.693	
21,200.00	12,582.67	20,407.91	11,722.14	117.50	118.45	32.40	-8,475.52	-841.78	1,019.17	865.33	153.84	6.625	
21,300.00	12,583.54	20,507.91	11,723.01	118.85	119.80	32.39	-8,575.51	-840.92	1,019.18	863.77	155.41	6.558	
21,400.00	12,584.42	20,607.91	11,723.87	120.21	121.14	32.39	-8,675.51	-840.06	1,019.19	862.20	156.99	6.492	
21,500.00	12,585.29	20,707.91	11,724.74	121.56	122.49	32.39	-8,775.50	-839.19	1,019.19	860.63	158.56	6.428	
21,600.00	12,586.16	20,807.91	11,725.60	122.92	123.84	32.39	-8,875.49	-838.33	1,019.20	859.06	160.14	6.365	
21,700.00	12,587.04	20,907.91	11,726.47	124.28	125.19	32.39	-8,975.48	-837.47	1,019.20	857.49	161.71	6.303	
21,800.00	12,587.91	21,007.91	11,727.34	125.63	126.54	32.39	-9,075.48	-836.61	1,019.21	855.92	163.29	6.242	
21,900.00	12,588.78	21,107.91	11,728.20	126.99	127.89	32.39	-9,175.47	-835.75	1,019.22	854.34	164.87	6.182	
22,000.00	12,589.66	21,207.91	11,729.07	128.35	129.24	32.39	-9,275.46	-834.89	1,019.22	852.77	166.45	6.123	
22,100.00	12,590.53	21,307.91	11,729.93	129.71	130.60	32.39	-9,375.45	-834.03	1,019.23	851.19	168.04	6.065	
22,200.00	12,591.40	21,407.91	11,730.80	131.07	131.95	32.39	-9,475.45	-833.17	1,019.24	849.61	169.62	6.009	
22,300.00	12,592.28	21,507.91	11,731.67	132.42	133.30	32.39	-9,575.44	-832.31	1,019.24	848.03	171.21	5.953	
22,400.00	12,593.15	21,607.91	11,732.53	133.78	134.65	32.39	-9,675.43	-831.45	1,019.25	846.45	172.80	5.899	
22,500.00	12,594.02	21,707.91	11,733.40	135.14	136.00	32.39	-9,775.42	-830.59	1,019.25	844.87	174.38	5.845	
22,600.00	12,594.89	21,807.91	11,734.26	136.50	137.36	32.39	-9,875.42	-829.73	1,019.26	843.29	175.97	5.792	
22,700.00	12,595.77	21,907.91	11,735.13	137.86	138.71	32.39	-9,975.41	-828.87	1,019.27	841.70	177.57	5.740	
22,800.00	12,596.64	22,007.91	11,736.00	139.22	140.06	32.39	-10,075.40	-828.01	1,019.27	840.12	179.16	5.689	
22,806.75	12,596.70	22,008.51	11,736.00	139.31	140.07	32.39	-10,076.00	-828.00	1,019.29	839.92	179.38	5.682	

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 215H
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 215H	Survey Calculation Method:	Minimum 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 Well Error: 0.50 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.50	0.50	7.70	185.00	25.00	186.68				
100.00	100.00	100.00	100.00	0.98	0.98	7.70	185.00	25.00	186.68	184.72	1.96	95.140	
200.00	200.00	200.00	200.00	1.56	1.56	7.70	185.00	25.00	186.68	183.56	3.12	59.791	
300.00	300.00	300.00	300.00	1.98	1.98	7.70	185.00	25.00	186.68	182.72	3.96	47.114	
400.00	399.99	396.82	396.81	2.41	2.40	48.96	185.68	26.02	186.66	181.94	4.72	39.552	
418.79	418.78	415.00	414.98	2.48	2.47	49.19	185.97	26.44	186.66	181.82	4.84	38.529	CC
500.00	499.91	493.43	493.34	2.79	2.76	50.67	187.73	29.06	186.73	181.35	5.38	34.725	
600.00	599.69	589.61	589.33	3.12	3.09	53.49	191.13	34.11	187.21	181.24	5.97	31.346	ES
700.00	699.32	687.21	686.58	3.26	3.24	57.24	195.73	40.96	188.71	182.46	6.25	30.174	
800.00	798.94	786.36	785.36	3.51	3.48	61.06	200.56	48.13	191.19	184.44	6.75	28.338	
900.00	898.56	885.51	884.13	3.76	3.72	64.77	205.38	55.30	194.51	187.28	7.23	26.902	
1,000.00	998.18	984.66	982.90	3.99	3.95	68.34	210.20	62.47	198.62	190.92	7.70	25.807	
1,100.00	1,097.80	1,083.81	1,081.68	4.22	4.18	71.76	215.03	69.64	203.48	195.33	8.15	24.975	
1,200.00	1,197.42	1,182.97	1,180.45	4.45	4.40	75.01	219.85	76.81	209.04	200.45	8.59	24.329	
1,300.00	1,296.92	1,281.99	1,279.09	4.71	4.62	78.31	224.67	83.97	214.99	205.97	9.02	23.840	
1,400.00	1,396.13	1,380.68	1,377.42	4.97	4.83	82.07	229.47	91.10	221.29	211.84	9.45	23.428	
1,500.00	1,495.05	1,479.08	1,475.44	5.11	5.04	86.15	234.26	98.22	228.40	218.61	9.79	23.331	
1,600.00	1,593.95	1,577.46	1,573.44	5.33	5.25	90.05	239.04	105.33	236.63	226.42	10.22	23.162	
1,700.00	1,692.86	1,675.83	1,671.44	5.54	5.45	93.67	243.83	112.45	245.91	235.27	10.64	23.113	
1,800.00	1,791.76	1,774.20	1,769.44	5.76	5.65	97.03	248.61	119.56	256.11	245.06	11.06	23.161	
1,900.00	1,890.66	1,872.58	1,867.44	5.97	5.85	100.13	253.40	126.68	267.14	255.67	11.47	23.284	
2,000.00	1,989.56	1,970.95	1,965.44	6.18	6.05	102.97	258.19	133.79	278.88	267.00	11.88	23.467	
2,100.00	2,088.46	2,069.32	2,063.43	6.39	6.25	105.59	262.97	140.90	291.27	278.97	12.29	23.697	
2,200.00	2,187.36	2,167.69	2,161.43	6.60	6.45	107.99	267.76	148.02	304.20	291.50	12.70	23.949	
2,300.00	2,286.26	2,261.61	2,254.96	6.81	6.65	110.08	272.55	155.14	318.05	304.95	13.10	24.285	
2,400.00	2,385.16	2,352.22	2,344.98	7.02	6.86	111.84	278.28	163.66	334.39	320.91	13.48	24.805	
2,500.00	2,484.06	2,442.21	2,434.12	7.23	7.06	113.33	285.15	173.87	353.26	339.40	13.86	25.482	
2,600.00	2,582.96	2,531.49	2,522.25	7.44	7.24	114.57	293.12	185.72	374.54	360.33	14.21	26.359	
2,700.00	2,681.87	2,627.82	2,617.12	7.65	7.41	115.70	302.46	199.59	397.25	382.68	14.57	27.262	
2,800.00	2,780.77	2,724.92	2,712.74	7.85	7.61	116.72	311.87	213.58	420.11	405.13	14.97	28.055	
2,900.00	2,879.67	2,822.01	2,808.36	8.06	7.81	117.63	321.28	227.57	443.08	427.70	15.38	28.814	
3,000.00	2,978.57	2,919.11	2,903.98	8.27	8.01	118.45	330.69	241.56	466.14	450.36	15.78	29.541	
3,100.00	3,077.47	3,016.21	2,999.60	8.47	8.21	119.19	340.10	255.55	489.29	473.10	16.18	30.236	
3,200.00	3,176.37	3,113.30	3,095.22	8.68	8.41	119.87	349.51	269.54	512.50	495.92	16.58	30.902	
3,300.00	3,275.27	3,210.40	3,190.85	8.89	8.61	120.49	358.92	283.53	535.78	518.80	16.99	31.540	
3,400.00	3,374.17	3,307.50	3,286.47	9.09	8.81	121.05	368.34	297.51	559.12	541.73	17.39	32.151	
3,500.00	3,473.07	3,404.59	3,382.09	9.30	9.01	121.58	377.75	311.50	582.50	564.71	17.79	32.737	
3,600.00	3,571.97	3,501.69	3,477.71	9.50	9.21	122.06	387.16	325.49	605.92	587.73	18.20	33.298	
3,700.00	3,670.87	3,598.78	3,573.33	9.71	9.41	122.50	396.57	339.48	629.38	610.78	18.60	33.838	
3,800.00	3,769.78	3,695.92	3,668.99	9.91	9.61	122.92	405.98	353.47	652.88	633.88	19.00	34.364	
3,900.00	3,868.68	3,811.06	3,782.67	10.12	9.86	123.44	416.18	368.63	675.10	655.61	19.50	34.628	
4,000.00	3,967.58	3,927.34	3,897.98	10.33	10.12	124.07	424.54	381.05	694.75	674.77	19.98	34.777	
4,100.00	4,066.48	4,044.57	4,014.63	10.53	10.36	124.80	430.98	390.62	711.83	691.39	20.44	34.830	
4,200.00	4,165.38	4,162.53	4,132.32	10.74	10.59	125.64	435.43	397.25	726.34	705.47	20.87	34.801	
4,300.00	4,264.28	4,281.00	4,250.71	10.94	10.81	126.59	437.87	400.86	738.31	717.04	21.27	34.704	
4,400.00	4,363.18	4,393.49	4,363.18	11.14	10.91	127.58	438.35	401.58	747.92	726.36	21.55	34.700	
4,500.00	4,462.28	4,492.58	4,462.28	11.36	10.99	128.48	438.35	401.58	756.21	734.38	21.83	34.643	
4,600.00	4,561.69	4,592.00	4,561.69	11.56	11.07	129.19	438.35	401.58	763.00	740.91	22.09	34.535	
4,700.00	4,661.35	4,691.66	4,661.35	11.76	11.15	129.72	438.35	401.58	768.21	745.87	22.34	34.381	
4,800.00	4,761.20	4,791.50	4,761.20	11.95	11.23	130.08	438.35	401.58	771.79	749.21	22.58	34.180	
4,900.00	4,861.15	4,891.45	4,861.15	12.12	11.32	130.27	438.35	401.58	773.69	750.90	22.80	33.937	
5,000.00	4,961.15	4,991.45	4,961.15	12.19	11.40	89.61	438.35	401.58	774.03	751.09	22.94	33.743	

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 215H
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 215H	Survey Calculation Method:	Minimum 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)													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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	5,061.15	5,091.45	5,061.15	12.27	11.48	89.61	438.35	401.58	774.03	750.93	23.10	33.504		
5,200.00	5,161.15	5,191.45	5,161.15	12.35	11.57	89.61	438.35	401.58	774.03	750.76	23.27	33.269		
5,300.00	5,261.15	5,291.45	5,261.15	12.43	11.65	89.61	438.35	401.58	774.03	750.60	23.43	33.037		
5,400.00	5,361.15	5,391.45	5,361.15	12.52	11.73	89.61	438.35	401.58	774.03	750.44	23.59	32.808		
5,500.00	5,461.15	5,491.45	5,461.15	12.60	11.82	89.61	438.35	401.58	774.03	750.27	23.76	32.582		
5,600.00	5,561.15	5,591.45	5,561.15	12.68	11.90	89.61	438.35	401.58	774.03	750.11	23.92	32.359		
5,700.00	5,661.15	5,691.45	5,661.15	12.76	11.98	89.61	438.35	401.58	774.03	749.94	24.08	32.140		
5,800.00	5,761.15	5,791.45	5,761.15	12.84	12.07	89.61	438.35	401.58	774.03	749.78	24.25	31.923		
5,900.00	5,861.15	5,891.45	5,861.15	12.93	12.15	89.61	438.35	401.58	774.03	749.62	24.41	31.710		
6,000.00	5,961.15	5,991.45	5,961.15	13.01	12.23	89.61	438.35	401.58	774.03	749.45	24.57	31.499		
6,100.00	6,061.15	6,091.45	6,061.15	13.09	12.31	89.61	438.35	401.58	774.03	749.29	24.74	31.291		
6,200.00	6,161.15	6,191.45	6,161.15	13.17	12.40	89.61	438.35	401.58	774.03	749.13	24.90	31.086		
6,300.00	6,261.15	6,291.45	6,261.15	13.25	12.48	89.61	438.35	401.58	774.03	748.96	25.06	30.883		
6,400.00	6,361.15	6,391.45	6,361.15	13.33	12.56	89.61	438.35	401.58	774.03	748.80	25.23	30.683		
6,500.00	6,461.15	6,491.45	6,461.15	13.42	12.65	89.61	438.35	401.58	774.03	748.64	25.39	30.485		
6,600.00	6,561.15	6,591.45	6,561.15	13.50	12.73	89.61	438.35	401.58	774.03	748.47	25.55	30.291		
6,700.00	6,661.15	6,691.45	6,661.15	13.58	12.81	89.61	438.35	401.58	774.03	748.31	25.72	30.098		
6,800.00	6,761.15	6,791.45	6,761.15	13.66	12.90	89.61	438.35	401.58	774.03	748.15	25.88	29.908		
6,900.00	6,861.15	6,891.45	6,861.15	13.74	12.98	89.61	438.35	401.58	774.03	747.98	26.04	29.721		
7,000.00	6,961.15	6,991.45	6,961.15	13.83	13.06	89.61	438.35	401.58	774.03	747.82	26.21	29.535		
7,100.00	7,061.15	7,091.45	7,061.15	13.91	13.15	89.61	438.35	401.58	774.03	747.66	26.37	29.352		
7,200.00	7,161.15	7,191.45	7,161.15	13.99	13.23	89.61	438.35	401.58	774.03	747.49	26.53	29.172		
7,300.00	7,261.15	7,291.45	7,261.15	14.07	13.31	89.61	438.35	401.58	774.03	747.33	26.70	28.993		
7,400.00	7,361.15	7,391.45	7,361.15	14.15	13.39	89.61	438.35	401.58	774.03	747.17	26.86	28.817		
7,500.00	7,461.15	7,491.45	7,461.15	14.24	13.48	89.61	438.35	401.58	774.03	747.00	27.02	28.643		
7,600.00	7,561.15	7,591.45	7,561.15	14.32	13.56	89.61	438.35	401.58	774.03	746.84	27.19	28.471		
7,700.00	7,661.15	7,691.45	7,661.15	14.40	13.64	89.61	438.35	401.58	774.03	746.68	27.35	28.301		
7,800.00	7,761.15	7,791.45	7,761.15	14.48	13.73	89.61	438.35	401.58	774.03	746.51	27.51	28.133		
7,900.00	7,861.15	7,891.45	7,861.15	14.56	13.81	89.61	438.35	401.58	774.03	746.35	27.68	27.967		
8,000.00	7,961.15	7,991.45	7,961.15	14.65	13.89	89.61	438.35	401.58	774.03	746.19	27.84	27.803		
8,100.00	8,061.15	8,091.45	8,061.15	14.73	13.98	89.61	438.35	401.58	774.03	746.02	28.00	27.640		
8,200.00	8,161.15	8,191.45	8,161.15	14.81	14.06	89.61	438.35	401.58	774.03	745.86	28.17	27.480		
8,300.00	8,261.15	8,291.45	8,261.15	14.89	14.14	89.61	438.35	401.58	774.03	745.70	28.33	27.322		
8,400.00	8,361.15	8,391.45	8,361.15	14.98	14.22	89.61	438.35	401.58	774.03	745.53	28.49	27.165		
8,500.00	8,461.15	8,491.45	8,461.15	15.06	14.31	89.61	438.35	401.58	774.03	745.37	28.66	27.010		
8,600.00	8,561.15	8,591.45	8,561.15	15.14	14.39	89.61	438.35	401.58	774.03	745.21	28.82	26.857		
8,700.00	8,661.15	8,691.45	8,661.15	15.22	14.47	89.61	438.35	401.58	774.03	745.04	28.98	26.706		
8,800.00	8,761.15	8,791.45	8,761.15	15.30	14.56	89.61	438.35	401.58	774.03	744.88	29.15	26.556		
8,900.00	8,861.15	8,891.45	8,861.15	15.39	14.64	89.61	438.35	401.58	774.03	744.72	29.31	26.408		
9,000.00	8,961.15	8,991.45	8,961.15	15.47	14.72	89.61	438.35	401.58	774.03	744.55	29.47	26.262		
9,100.00	9,061.15	9,091.45	9,061.15	15.55	14.81	89.61	438.35	401.58	774.03	744.39	29.64	26.117		
9,200.00	9,161.15	9,191.45	9,161.15	15.63	14.89	89.61	438.35	401.58	774.03	744.23	29.80	25.974		
9,300.00	9,261.15	9,291.45	9,261.15	15.71	14.97	89.61	438.35	401.58	774.03	744.06	29.96	25.833		
9,400.00	9,361.15	9,391.45	9,361.15	15.80	15.05	89.61	438.35	401.58	774.03	743.90	30.13	25.693		
9,500.00	9,461.15	9,491.45	9,461.15	15.88	15.14	89.61	438.35	401.58	774.03	743.74	30.29	25.554		
9,600.00	9,561.15	9,591.45	9,561.15	15.96	15.22	89.61	438.35	401.58	774.03	743.57	30.45	25.417		
9,700.00	9,661.15	9,691.45	9,661.15	16.04	15.30	89.61	438.35	401.58	774.03	743.41	30.62	25.282		
9,800.00	9,761.15	9,791.45	9,761.15	16.12	15.39	89.61	438.35	401.58	774.03	743.25	30.78	25.148		
9,900.00	9,861.15	9,891.45	9,861.15	16.21	15.47	89.61	438.35	401.58	774.03	743.09	30.94	25.015		
10,000.00	9,961.15	9,991.45	9,961.15	16.29	15.55	89.61	438.35	401.58	774.03	742.92	31.11	24.884		
10,100.00	10,061.15	10,091.45	10,061.15	16.37	15.63	89.61	438.35	401.58	774.03	742.76	31.27	24.754		
10,200.00	10,161.15	10,191.45	10,161.15	16.45	15.72	89.61	438.35	401.58	774.03	742.60	31.43	24.625		

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 215H
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 215H	Survey Calculation Method:	Minimum 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)												Offset Site Error: 0.00 usft	
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
10,300.00	10,261.15	10,291.45	10,261.15	16.54	15.80	89.61	438.35	401.58	774.03	742.43	31.60	24.498	
10,400.00	10,361.15	10,391.45	10,361.15	16.62	15.88	89.61	438.35	401.58	774.03	742.27	31.76	24.372	
10,500.00	10,461.15	10,491.45	10,461.15	16.70	15.97	89.61	438.35	401.58	774.03	742.11	31.92	24.247	
10,600.00	10,561.15	10,591.45	10,561.15	16.78	16.05	89.61	438.35	401.58	774.03	741.94	32.09	24.124	
10,700.00	10,661.15	10,691.45	10,661.15	16.86	16.13	89.61	438.35	401.58	774.03	741.78	32.25	24.002	
10,800.00	10,761.15	10,791.45	10,761.15	16.95	16.21	89.61	438.35	401.58	774.03	741.62	32.41	23.881	
10,900.00	10,861.15	10,891.45	10,861.15	17.03	16.30	89.61	438.35	401.58	774.03	741.45	32.58	23.761	
11,000.00	10,961.15	10,991.45	10,961.15	17.11	16.38	89.61	438.35	401.58	774.03	741.29	32.74	23.643	
11,100.00	11,061.15	11,091.45	11,061.15	17.19	16.47	89.61	438.35	401.58	774.03	741.12	32.91	23.522	
11,102.48	11,063.63	11,093.93	11,063.63	17.19	16.47	89.61	438.35	401.58	774.03	741.12	32.91	23.519	
11,200.00	11,161.15	11,190.63	11,160.02	17.27	16.52	90.07	432.16	401.63	774.06	741.09	32.98	23.472	
11,300.00	11,261.15	11,284.97	11,251.79	17.36	16.56	91.66	410.72	401.82	774.63	741.65	32.98	23.489	
11,400.00	11,361.15	11,370.33	11,330.78	17.44	16.61	94.03	378.59	402.09	777.03	744.06	32.98	23.563	
11,500.00	11,461.15	11,444.75	11,395.10	17.52	16.66	96.76	341.27	402.42	783.06	750.01	33.05	23.691	
11,600.00	11,561.15	11,508.17	11,445.72	17.60	16.71	99.52	303.11	402.74	794.43	761.12	33.31	23.851	
11,700.00	11,661.15	11,561.63	11,484.89	17.69	16.76	102.11	266.76	403.06	812.47	778.65	33.83	24.019	
11,800.00	11,761.15	11,600.00	11,510.83	17.77	16.80	104.08	238.50	403.30	838.02	803.32	34.70	24.149	
11,900.00	11,861.15	11,650.00	11,541.70	17.85	16.85	106.77	199.18	403.64	871.23	835.57	35.66	24.430	
12,000.00	11,961.14	11,676.74	11,556.76	17.90	16.89	-70.18	177.09	403.83	911.80	874.82	36.97	24.662	
12,100.00	12,060.18	11,700.00	11,569.01	17.93	16.91	-64.55	157.32	404.00	955.38	917.06	38.32	24.931	
12,200.00	12,155.47	11,750.00	11,592.58	17.96	16.99	-58.38	113.25	404.38	998.09	958.68	39.41	25.327	
12,300.00	12,244.13	11,780.79	11,605.15	17.98	17.04	-53.80	85.14	404.62	1,038.19	997.54	40.64	25.543	
12,400.00	12,323.46	11,818.41	11,618.42	18.01	17.10	-49.86	49.95	404.92	1,074.11	1,032.37	41.74	25.734	
12,500.00	12,391.04	11,850.00	11,627.77	18.04	17.17	-46.88	19.78	405.18	1,104.68	1,061.91	42.76	25.833	
12,600.00	12,444.83	11,900.00	11,639.12	18.09	17.28	-44.46	-28.90	405.60	1,128.81	1,085.25	43.56	25.915	
12,700.00	12,483.18	11,950.00	11,646.19	18.16	17.41	-42.88	-78.38	406.03	1,146.15	1,101.91	44.24	25.906	
12,800.00	12,504.94	11,975.45	11,648.13	18.27	17.48	-42.14	-103.74	406.25	1,155.59	1,110.76	44.83	25.775	
12,900.00	12,510.19	12,036.59	11,649.25	18.42	17.68	-41.96	-164.87	406.77	1,157.76	1,112.56	45.19	25.618	
13,000.00	12,511.06	12,136.59	11,650.12	18.62	18.07	-41.96	-264.87	407.63	1,157.75	1,112.23	45.52	25.433	
13,100.00	12,511.94	12,236.59	11,651.00	18.88	18.54	-41.96	-364.86	408.50	1,157.75	1,111.82	45.93	25.207	
13,200.00	12,512.81	12,336.59	11,651.87	19.20	19.10	-41.96	-464.85	409.36	1,157.75	1,111.33	46.42	24.942	
13,300.00	12,513.68	12,436.59	11,652.75	19.61	19.74	-41.96	-564.84	410.22	1,157.75	1,110.77	46.98	24.644	
13,400.00	12,514.56	12,536.59	11,653.63	20.11	20.46	-41.96	-664.84	411.08	1,157.75	1,110.13	47.62	24.315	
13,500.00	12,515.43	12,636.59	11,654.50	20.70	21.24	-41.96	-764.83	411.94	1,157.74	1,109.42	48.32	23.959	
13,600.00	12,516.30	12,736.59	11,655.38	21.37	22.09	-41.96	-864.82	412.80	1,157.74	1,108.65	49.09	23.582	
13,700.00	12,517.18	12,836.59	11,656.26	22.12	22.99	-41.96	-964.81	413.66	1,157.74	1,107.81	49.93	23.187	
13,800.00	12,518.05	12,936.59	11,657.13	22.93	23.94	-41.96	-1,064.81	414.52	1,157.74	1,106.91	50.83	22.777	
13,900.00	12,518.92	13,036.59	11,658.01	23.80	24.93	-41.96	-1,164.80	415.38	1,157.73	1,105.95	51.79	22.356	
14,000.00	12,519.80	13,136.59	11,658.89	24.73	25.95	-41.96	-1,264.79	416.24	1,157.73	1,104.94	52.80	21.928	
14,100.00	12,520.67	13,236.59	11,659.76	25.70	27.01	-41.96	-1,364.78	417.11	1,157.73	1,103.87	53.86	21.496	
14,200.00	12,521.54	13,336.59	11,660.64	26.70	28.10	-41.96	-1,464.77	417.97	1,157.73	1,102.76	54.97	21.061	
14,300.00	12,522.42	13,436.59	11,661.52	27.75	29.21	-41.96	-1,564.77	418.83	1,157.72	1,101.60	56.13	20.627	
14,400.00	12,523.29	13,536.59	11,662.39	28.82	30.34	-41.96	-1,664.76	419.69	1,157.72	1,100.40	57.33	20.195	
14,500.00	12,524.16	13,636.59	11,663.27	29.91	31.49	-41.96	-1,764.75	420.55	1,157.72	1,099.15	58.57	19.768	
14,600.00	12,525.04	13,736.59	11,664.14	31.04	32.66	-41.96	-1,864.74	421.41	1,157.72	1,097.87	59.84	19.345	
14,700.00	12,525.91	13,836.59	11,665.02	32.18	33.85	-41.96	-1,964.74	422.27	1,157.72	1,096.56	61.16	18.930	
14,800.00	12,526.78	13,936.59	11,665.90	33.34	35.05	-41.96	-2,064.73	423.13	1,157.71	1,095.21	62.51	18.522	
14,900.00	12,527.66	14,036.59	11,666.77	34.51	36.26	-41.96	-2,164.72	423.99	1,157.71	1,093.83	63.88	18.122	
15,000.00	12,528.53	14,136.59	11,667.65	35.70	37.48	-41.96	-2,264.71	424.85	1,157.71	1,092.42	65.29	17.731	
15,100.00	12,529.40	14,236.59	11,668.53	36.91	38.72	-41.96	-2,364.71	425.72	1,157.71	1,090.98	66.73	17.350	
15,200.00	12,530.28	14,336.59	11,669.40	38.12	39.96	-41.96	-2,464.70	426.58	1,157.70	1,089.52	68.19	16.978	
15,300.00	12,531.15	14,436.59	11,670.28	39.35	41.21	-41.96	-2,564.69	427.44	1,157.70	1,088.03	69.67	16.616	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 215H
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 215H	Survey Calculation Method:	Minimum 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)													Offset Well Error: 0.50 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,400.00	12,532.02	14,536.59	11,671.16	40.58	42.47	-41.96	-2,664.68	428.30	1,157.70	1,086.52	71.18	16.264		
15,500.00	12,532.89	14,636.59	11,672.03	41.82	43.73	-41.96	-2,764.68	429.16	1,157.70	1,084.99	72.71	15.922		
15,600.00	12,533.77	14,736.59	11,672.91	43.08	45.00	-41.96	-2,864.67	430.02	1,157.69	1,083.43	74.26	15.590		
15,700.00	12,534.64	14,836.59	11,673.79	44.34	46.28	-41.96	-2,964.66	430.88	1,157.69	1,081.86	75.83	15.268		
15,800.00	12,535.51	14,936.59	11,674.66	45.60	47.56	-41.96	-3,064.65	431.74	1,157.69	1,080.28	77.41	14.955		
15,900.00	12,536.39	15,036.59	11,675.54	46.87	48.85	-41.96	-3,164.65	432.60	1,157.69	1,078.67	79.01	14.652		
16,000.00	12,537.26	15,136.59	11,676.41	48.15	50.14	-41.96	-3,264.64	433.46	1,157.68	1,077.05	80.63	14.358		
16,100.00	12,538.13	15,236.59	11,677.29	49.43	51.43	-41.96	-3,364.63	434.32	1,157.68	1,075.42	82.26	14.073		
16,200.00	12,539.01	15,336.59	11,678.17	50.72	52.73	-41.96	-3,464.62	435.19	1,157.68	1,073.77	83.91	13.797		
16,300.00	12,539.88	15,436.59	11,679.04	52.01	54.04	-41.96	-3,564.62	436.05	1,157.68	1,072.11	85.57	13.529		
16,400.00	12,540.75	15,536.59	11,679.92	53.30	55.34	-41.96	-3,664.61	436.91	1,157.68	1,070.44	87.24	13.270		
16,500.00	12,541.63	15,636.59	11,680.80	54.60	56.65	-41.96	-3,764.60	437.77	1,157.67	1,068.75	88.92	13.019		
16,600.00	12,542.50	15,736.59	11,681.67	55.90	57.96	-41.96	-3,864.59	438.63	1,157.67	1,067.06	90.61	12.776		
16,700.00	12,543.37	15,836.59	11,682.55	57.21	59.28	-41.96	-3,964.59	439.49	1,157.67	1,065.35	92.32	12.540		
16,800.00	12,544.25	15,936.59	11,683.43	58.52	60.59	-41.96	-4,064.58	440.35	1,157.67	1,063.63	94.03	12.311		
16,900.00	12,545.12	16,036.59	11,684.30	59.83	61.91	-41.96	-4,164.57	441.21	1,157.66	1,061.91	95.75	12.090		
17,000.00	12,545.99	16,136.59	11,685.18	61.14	63.23	-41.96	-4,264.56	442.07	1,157.66	1,060.18	97.49	11.875		
17,100.00	12,546.87	16,236.59	11,686.05	62.46	64.56	-41.96	-4,364.56	442.93	1,157.66	1,058.43	99.23	11.667		
17,200.00	12,547.74	16,336.59	11,686.93	63.78	65.88	-41.96	-4,464.55	443.80	1,157.66	1,056.68	100.97	11.465		
17,300.00	12,548.61	16,436.59	11,687.81	65.10	67.21	-41.96	-4,564.54	444.66	1,157.65	1,054.93	102.73	11.269		
17,400.00	12,549.49	16,536.59	11,688.68	66.42	68.54	-41.96	-4,664.53	445.52	1,157.65	1,053.16	104.49	11.079		
17,500.00	12,550.36	16,636.59	11,689.56	67.75	69.87	-41.96	-4,764.53	446.38	1,157.65	1,051.39	106.26	10.895		
17,600.00	12,551.23	16,736.59	11,690.44	69.07	71.20	-41.96	-4,864.52	447.24	1,157.65	1,049.61	108.03	10.716		
17,700.00	12,552.11	16,836.59	11,691.31	70.40	72.54	-41.96	-4,964.51	448.10	1,157.65	1,047.83	109.82	10.542		
17,800.00	12,552.98	16,936.59	11,692.19	71.73	73.87	-41.96	-5,064.50	448.96	1,157.64	1,046.04	111.60	10.373		
17,900.00	12,553.85	17,036.59	11,693.07	73.06	75.21	-41.96	-5,164.50	449.82	1,157.64	1,044.25	113.40	10.209		
18,000.00	12,554.73	17,136.59	11,693.94	74.40	76.54	-41.96	-5,264.49	450.68	1,157.64	1,042.45	115.19	10.050		
18,100.00	12,555.60	17,236.59	11,694.82	75.73	77.88	-41.96	-5,364.48	451.54	1,157.64	1,040.64	117.00	9.895		
18,200.00	12,556.47	17,336.59	11,695.70	77.06	79.22	-41.96	-5,464.47	452.41	1,157.63	1,038.83	118.80	9.744		
18,300.00	12,557.35	17,436.59	11,696.57	78.40	80.56	-41.96	-5,564.47	453.27	1,157.63	1,037.02	120.62	9.598		
18,400.00	12,558.22	17,536.59	11,697.45	79.74	81.90	-41.96	-5,664.46	454.13	1,157.63	1,035.20	122.43	9.455		
18,500.00	12,559.09	17,636.59	11,698.32	81.08	83.25	-41.96	-5,764.45	454.99	1,157.63	1,033.37	124.25	9.317		
18,600.00	12,559.97	17,736.59	11,699.20	82.42	84.59	-41.96	-5,864.44	455.85	1,157.62	1,031.55	126.08	9.182		
18,700.00	12,560.84	17,836.59	11,700.08	83.76	85.93	-41.96	-5,964.44	456.71	1,157.62	1,029.72	127.91	9.051		
18,800.00	12,561.71	17,936.59	11,700.95	85.10	87.28	-41.96	-6,064.43	457.57	1,157.62	1,027.88	129.74	8.923		
18,900.00	12,562.59	18,036.59	11,701.83	86.44	88.62	-41.96	-6,164.42	458.43	1,157.62	1,026.04	131.57	8.798		
19,000.00	12,563.46	18,136.59	11,702.71	87.79	89.97	-41.96	-6,264.41	459.29	1,157.62	1,024.20	133.41	8.677		
19,100.00	12,564.33	18,236.59	11,703.58	89.13	91.32	-41.96	-6,364.41	460.15	1,157.61	1,022.36	135.26	8.559		
19,200.00	12,565.20	18,336.59	11,704.46	90.48	92.67	-41.96	-6,464.40	461.01	1,157.61	1,020.51	137.10	8.443		
19,300.00	12,566.08	18,436.59	11,705.34	91.82	94.01	-41.96	-6,564.39	461.88	1,157.61	1,018.66	138.95	8.331		
19,400.00	12,566.95	18,536.59	11,706.21	93.17	95.36	-41.96	-6,664.38	462.74	1,157.61	1,016.80	140.80	8.222		
19,500.00	12,567.82	18,636.59	11,707.09	94.51	96.71	-41.96	-6,764.38	463.60	1,157.60	1,014.95	142.66	8.115		
19,600.00	12,568.70	18,736.59	11,707.97	95.86	98.06	-41.96	-6,864.37	464.46	1,157.60	1,013.09	144.51	8.010		
19,700.00	12,569.57	18,836.59	11,708.84	97.21	99.41	-41.96	-6,964.36	465.32	1,157.60	1,011.23	146.37	7.909		
19,800.00	12,570.44	18,936.59	11,709.72	98.56	100.77	-41.96	-7,064.35	466.18	1,157.60	1,009.36	148.23	7.809		
19,900.00	12,571.32	19,036.59	11,710.59	99.91	102.12	-41.96	-7,164.34	467.04	1,157.59	1,007.50	150.10	7.712		
20,000.00	12,572.19	19,136.59	11,711.47	101.26	103.47	-41.96	-7,264.34	467.90	1,157.59	1,005.63	151.96	7.618		
20,100.00	12,573.06	19,236.59	11,712.35	102.61	104.82	-41.96	-7,364.33	468.76	1,157.59	1,003.76	153.83	7.525		
20,200.00	12,573.94	19,336.59	11,713.22	103.96	106.18	-41.96	-7,464.32	469.62	1,157.59	1,001.88	155.70	7.435		
20,300.00	12,574.81	19,436.59	11,714.10	105.31	107.53	-41.96	-7,564.31	470.49	1,157.58	1,000.01	157.58	7.346		
20,400.00	12,575.68	19,536.59	11,714.98	106.66	108.88	-41.96	-7,664.31	471.35	1,157.58	998.13	159.45	7.260		
20,500.00	12,576.56	19,636.59	11,715.85	108.02	110.24	-41.96	-7,764.30	472.21	1,157.58	996.25	161.33	7.175		

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 215H
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 215H	Survey Calculation Method:	Minimum 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:

Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,600.00	12,577.43	19,736.59	11,716.73	109.37	111.59	-41.96	-7,864.29	473.07	1,157.58	994.37	163.21	7.093	
20,700.00	12,578.30	19,836.59	11,717.61	110.72	112.95	-41.96	-7,964.28	473.93	1,157.58	992.49	165.09	7.012	
20,800.00	12,579.18	19,936.59	11,718.48	112.08	114.30	-41.96	-8,064.28	474.79	1,157.57	990.61	166.97	6.933	
20,900.00	12,580.05	20,036.59	11,719.36	113.43	115.66	-41.96	-8,164.27	475.65	1,157.57	988.72	168.85	6.856	
21,000.00	12,580.92	20,136.59	11,720.23	114.79	117.01	-41.96	-8,264.26	476.51	1,157.57	986.83	170.74	6.780	
21,100.00	12,581.80	20,236.59	11,721.11	116.14	118.37	-41.96	-8,364.25	477.37	1,157.57	984.94	172.62	6.706	
21,200.00	12,582.67	20,336.59	11,721.99	117.50	119.73	-41.96	-8,464.25	478.23	1,157.56	983.05	174.51	6.633	
21,300.00	12,583.54	20,436.59	11,722.86	118.85	121.09	-41.96	-8,564.24	479.10	1,157.56	981.16	176.40	6.562	
21,400.00	12,584.42	20,536.59	11,723.74	120.21	122.44	-41.96	-8,664.23	479.96	1,157.56	979.27	178.29	6.493	
21,500.00	12,585.29	20,636.59	11,724.62	121.56	123.80	-41.96	-8,764.22	480.82	1,157.56	977.37	180.18	6.424	
21,600.00	12,586.16	20,736.59	11,725.49	122.92	125.16	-41.97	-8,864.22	481.68	1,157.55	975.48	182.08	6.358	
21,700.00	12,587.04	20,836.59	11,726.37	124.28	126.52	-41.97	-8,964.21	482.54	1,157.55	973.58	183.97	6.292	
21,800.00	12,587.91	20,936.59	11,727.25	125.63	127.87	-41.97	-9,064.20	483.40	1,157.55	971.68	185.87	6.228	
21,900.00	12,588.78	21,036.59	11,728.12	126.99	129.23	-41.97	-9,164.19	484.26	1,157.55	969.78	187.77	6.165	
22,000.00	12,589.66	21,136.59	11,729.00	128.35	130.59	-41.97	-9,264.19	485.12	1,157.55	967.88	189.66	6.103	
22,100.00	12,590.53	21,236.59	11,729.88	129.71	131.95	-41.97	-9,364.18	485.98	1,157.54	965.98	191.56	6.043	
22,200.00	12,591.40	21,336.59	11,730.75	131.07	133.31	-41.97	-9,464.17	486.84	1,157.54	964.08	193.46	5.983	
22,300.00	12,592.28	21,436.59	11,731.63	132.42	134.67	-41.97	-9,564.16	487.70	1,157.54	962.17	195.37	5.925	
22,400.00	12,593.15	21,536.59	11,732.50	133.78	136.03	-41.97	-9,664.16	488.57	1,157.54	960.27	197.27	5.868	
22,500.00	12,594.02	21,636.59	11,733.38	135.14	137.39	-41.97	-9,764.15	489.43	1,157.53	958.36	199.17	5.812	
22,600.00	12,594.89	21,736.59	11,734.26	136.50	138.75	-41.97	-9,864.14	490.29	1,157.53	956.45	201.08	5.757	
22,700.00	12,595.77	21,836.59	11,735.13	137.86	140.11	-41.97	-9,964.13	491.15	1,157.53	954.55	202.98	5.703	
22,797.98	12,596.62	21,934.58	11,735.99	139.19	141.44	-41.97	-10,062.11	491.99	1,157.53	952.68	204.85	5.651	
22,800.00	12,596.64	21,935.47	11,736.00	139.22	141.45	-41.97	-10,063.00	492.00	1,157.53	952.64	204.89	5.650	
22,806.75	12,596.70	21,935.47	11,736.00	139.31	141.45	-41.97	-10,063.00	492.00	1,157.55	952.54	205.01	5.646	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 215H
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 215H	Survey Calculation Method:	Minimum 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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
700.00	699.32	865.82	861.51	3.26	3.62	108.24	984.43	2,304.37	2,517.28	2,510.69	6.58	382.464		
800.00	798.94	964.75	960.06	3.51	3.85	108.56	976.61	2,300.74	2,513.59	2,506.52	7.06	355.865		
900.00	898.56	1,063.67	1,058.61	3.76	4.07	108.88	968.78	2,297.11	2,509.97	2,502.45	7.53	333.534		
1,000.00	998.18	1,162.60	1,157.16	3.99	4.29	109.20	960.96	2,293.49	2,506.44	2,498.47	7.97	314.413		
1,100.00	1,097.80	1,269.42	1,263.57	4.22	4.46	109.55	952.48	2,289.56	2,502.98	2,494.62	8.36	299.544		
1,200.00	1,197.42	1,456.20	1,449.08	4.45	4.91	110.25	932.86	2,280.46	2,497.56	2,488.58	8.98	278.152		
1,300.00	1,296.92	1,639.38	1,629.77	4.71	5.37	111.24	905.65	2,267.84	2,489.29	2,479.67	9.62	258.750		
1,400.00	1,396.13	1,772.48	1,760.13	4.97	5.65	112.17	881.29	2,256.55	2,479.41	2,469.29	10.11	245.191		
1,500.00	1,495.05	1,867.99	1,853.55	5.11	5.84	112.85	863.28	2,248.20	2,470.29	2,459.82	10.47	236.018		
1,600.00	1,593.95	1,963.46	1,946.94	5.33	6.05	113.48	845.28	2,239.85	2,461.56	2,450.64	10.92	225.450		
1,700.00	1,692.86	2,058.93	2,040.32	5.54	6.25	114.12	827.27	2,231.50	2,453.16	2,441.79	11.37	215.726		
1,800.00	1,791.76	2,154.40	2,133.70	5.76	6.45	114.77	809.27	2,223.16	2,445.10	2,433.27	11.83	206.752		
1,900.00	1,890.66	2,249.87	2,227.09	5.97	6.66	115.41	791.27	2,214.81	2,437.37	2,425.08	12.28	198.447		
2,000.00	1,989.56	2,345.34	2,320.47	6.18	6.86	116.07	773.27	2,206.46	2,429.98	2,417.24	12.74	190.780		
2,100.00	2,088.46	2,440.81	2,413.86	6.39	7.11	116.72	755.26	2,198.12	2,422.93	2,409.73	13.20	183.531		
2,200.00	2,187.36	2,536.28	2,507.24	6.60	7.38	117.38	737.26	2,189.77	2,416.23	2,402.57	13.66	176.876		
2,300.00	2,286.26	2,631.75	2,600.63	6.81	7.64	118.04	719.26	2,181.42	2,409.88	2,395.76	14.12	170.640		
2,400.00	2,385.16	2,727.22	2,694.01	7.02	7.91	118.71	701.26	2,173.07	2,403.88	2,389.30	14.59	164.805		
2,500.00	2,484.06	2,822.69	2,787.40	7.23	8.18	119.37	683.25	2,164.73	2,398.24	2,383.19	15.05	159.336		
2,600.00	2,582.96	2,918.16	2,880.78	7.44	8.45	120.04	665.25	2,156.38	2,392.95	2,377.43	15.52	154.202		
2,700.00	2,681.87	3,013.63	2,974.17	7.65	8.72	120.72	647.25	2,148.03	2,388.02	2,372.02	15.99	149.377		
2,800.00	2,780.77	3,109.10	3,067.55	7.85	8.99	121.39	629.24	2,139.69	2,383.45	2,367.00	16.46	144.836		
2,900.00	2,879.67	3,204.57	3,160.94	8.06	9.26	122.07	611.24	2,131.34	2,379.25	2,362.32	16.93	140.555		
3,000.00	2,978.57	3,300.04	3,254.32	8.27	9.54	122.75	593.24	2,122.99	2,375.41	2,358.01	17.40	136.517		
3,100.00	3,077.47	3,395.51	3,347.71	8.47	9.81	123.43	575.24	2,114.64	2,371.94	2,354.06	17.87	132.702		
3,200.00	3,176.37	3,490.98	3,441.09	8.68	10.08	124.12	557.23	2,106.30	2,368.83	2,350.48	18.35	129.094		
3,300.00	3,275.27	3,586.45	3,534.48	8.89	10.36	124.80	539.23	2,097.95	2,366.10	2,347.27	18.83	125.680		
3,400.00	3,374.17	3,676.27	3,622.35	9.09	10.59	125.45	522.33	2,090.11	2,363.77	2,344.51	19.26	122.726		
3,500.00	3,473.07	3,749.08	3,693.78	9.30	10.78	125.95	509.51	2,084.17	2,362.46	2,342.80	19.66	120.155		
3,547.75	3,520.30	3,784.10	3,728.22	9.40	10.87	126.18	503.79	2,081.52	2,362.28	2,342.43	19.86	118.962	CC	
3,600.00	3,571.97	3,822.60	3,766.16	9.50	10.97	126.43	497.83	2,078.76	2,362.41	2,342.35	20.07	117.728	ES	
3,700.00	3,670.87	3,900.00	3,842.61	9.71	11.15	126.91	486.90	2,073.69	2,363.58	2,343.12	20.47	115.478		
3,800.00	3,769.78	3,971.58	3,913.52	9.91	11.31	127.32	478.04	2,069.58	2,365.92	2,345.09	20.84	113.545		
3,900.00	3,868.68	4,046.94	3,988.36	10.12	11.46	127.72	470.02	2,065.86	2,369.40	2,348.20	21.20	111.757		
4,000.00	3,967.58	4,122.82	4,063.87	10.33	11.60	128.09	463.30	2,062.75	2,373.97	2,352.42	21.55	110.147		
4,100.00	4,066.48	4,200.00	4,140.82	10.53	11.73	128.43	457.86	2,060.22	2,379.60	2,357.71	21.89	108.697		
4,200.00	4,165.38	4,275.88	4,216.58	10.74	11.83	128.74	453.89	2,058.38	2,386.26	2,364.05	22.21	107.447		
4,300.00	4,264.28	4,352.95	4,293.59	10.94	11.93	129.01	451.26	2,057.16	2,393.91	2,371.40	22.51	106.339		
4,400.00	4,363.18	4,430.30	4,370.93	11.14	11.99	129.26	450.03	2,056.59	2,402.53	2,379.76	22.78	105.483		
4,500.00	4,462.28	4,521.65	4,462.28	11.36	12.01	129.58	449.94	2,056.55	2,411.02	2,388.02	23.00	104.839		
4,600.00	4,561.69	4,621.07	4,561.69	11.56	12.05	129.86	449.94	2,056.55	2,417.94	2,394.71	23.23	104.107		
4,700.00	4,661.35	4,720.73	4,661.35	11.76	12.09	130.07	449.94	2,056.55	2,423.20	2,399.76	23.44	103.389		
4,800.00	4,761.20	4,820.57	4,761.20	11.95	12.13	130.21	449.94	2,056.55	2,426.80	2,403.16	23.63	102.686		
4,900.00	4,861.15	4,920.53	4,861.15	12.12	12.17	130.28	449.94	2,056.55	2,428.70	2,404.89	23.81	102.005		
5,000.00	4,961.15	5,020.52	4,961.15	12.19	12.21	89.60	449.94	2,056.55	2,429.04	2,405.13	23.91	101.599		
5,100.00	5,061.15	5,120.52	5,061.15	12.27	12.25	89.60	449.94	2,056.55	2,429.04	2,405.01	24.03	101.088		
5,200.00	5,161.15	5,220.52	5,161.15	12.35	12.29	89.60	449.94	2,056.55	2,429.04	2,404.89	24.15	100.580		
5,300.00	5,261.15	5,320.52	5,261.15	12.43	12.33	89.60	449.94	2,056.55	2,429.04	2,404.77	24.27	100.075		
5,400.00	5,361.15	5,420.52	5,361.15	12.50	12.37	89.60	449.94	2,056.55	2,429.04	2,404.64	24.39	99.574		
5,500.00	5,461.15	5,520.52	5,461.15	12.60	12.42	89.60	449.94	2,056.55	2,429.04	2,404.52	24.52	99.076		
5,600.00	5,561.15	5,620.52	5,561.15	12.68	12.46	89.60	449.94	2,056.55	2,429.04	2,404.40	24.64	98.582		
5,700.00	5,661.15	5,720.52	5,661.15	12.76	12.50	89.60	449.94	2,056.55	2,429.04	2,404.28	24.76	98.091		

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 215H
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 215H	Survey Calculation Method:	Minimum 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)						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)		
11,000.00	10,961.15	11,020.52	10,961.15	17.11	15.27	89.60	449.94	2,056.55	2,429.04	2,397.26	31.78	76.434	
11,001.95	10,963.10	11,022.47	10,963.10	17.11	15.27	89.60	449.94	2,056.55	2,429.04	2,397.26	31.78	76.428	
11,100.00	11,061.15	11,120.19	11,060.79	17.19	15.32	89.62	449.00	2,056.56	2,429.04	2,397.13	31.91	76.132	
11,200.00	11,161.15	11,217.06	11,156.58	17.27	15.48	89.95	435.33	2,056.68	2,429.12	2,397.03	32.09	75.705	
11,300.00	11,261.15	11,306.99	11,242.27	17.36	15.70	90.58	408.37	2,056.93	2,429.56	2,397.20	32.36	75.075	
11,400.00	11,361.15	11,386.88	11,314.05	17.44	15.96	91.41	373.43	2,057.25	2,430.86	2,398.15	32.71	74.314	
11,500.00	11,461.15	11,455.76	11,371.52	17.52	16.22	92.30	335.54	2,057.59	2,433.63	2,400.52	33.10	73.514	
11,600.00	11,561.15	11,514.17	11,416.40	17.60	16.49	93.18	298.20	2,057.93	2,438.40	2,404.87	33.53	72.722	
11,700.00	11,661.15	11,563.35	11,451.09	17.69	16.76	93.99	263.35	2,058.25	2,445.63	2,411.66	33.98	71.983	
11,800.00	11,761.15	11,600.00	11,474.92	17.77	16.98	94.65	235.52	2,058.50	2,455.68	2,421.28	34.41	71.373	
11,900.00	11,861.15	11,650.00	11,504.47	17.85	17.31	95.59	195.21	2,058.87	2,468.81	2,433.83	34.98	70.579	
12,000.00	11,961.14	11,669.77	11,515.16	17.90	17.46	-83.11	178.58	2,059.02	2,485.02	2,449.63	35.39	70.209	
12,100.00	12,060.18	11,700.00	11,530.39	17.93	17.68	-80.76	152.47	2,059.25	2,502.92	2,467.13	35.79	69.935	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 215H
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 215H	Survey Calculation Method:	Minimum 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		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	70.29	831.00	2,319.00	2,463.40				
100.00	100.00	100.00	100.00	0.98	0.98	70.29	831.00	2,319.00	2,463.40	2,461.43	1.96	1,255.436	CC, ES
200.00	200.00	200.00	200.00	1.56	1.56	70.29	831.00	2,319.00	2,463.40	2,460.27	3.12	788.981	
300.00	300.00	300.00	300.00	1.98	1.98	70.29	831.00	2,319.00	2,463.40	2,459.43	3.96	621.706	
400.00	399.99	378.36	378.36	2.41	2.31	111.00	830.43	2,319.57	2,464.30	2,459.70	4.60	535.307	
500.00	499.91	456.48	456.44	2.79	2.61	111.08	828.73	2,321.27	2,467.03	2,461.87	5.16	477.833	
600.00	599.69	534.11	533.96	3.12	2.88	111.21	825.93	2,324.07	2,471.61	2,465.93	5.68	435.447	
700.00	699.32	611.09	610.75	3.26	3.11	111.44	822.05	2,327.95	2,477.86	2,471.85	6.00	412.712	
800.00	798.94	703.24	702.55	3.51	3.24	111.78	816.41	2,333.59	2,484.90	2,478.52	6.38	389.267	
900.00	898.56	801.72	800.66	3.76	3.48	112.14	810.34	2,339.66	2,492.08	2,485.22	6.87	362.814	
1,000.00	998.18	900.20	898.77	3.99	3.71	112.49	804.28	2,345.72	2,499.37	2,492.03	7.33	340.802	
1,100.00	1,097.80	998.69	996.87	4.22	3.94	112.85	798.21	2,351.79	2,506.75	2,498.96	7.78	322.114	
1,200.00	1,197.42	1,097.17	1,094.98	4.45	4.16	113.20	792.14	2,357.86	2,514.22	2,506.00	8.22	305.737	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 215H
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 215H	Survey Calculation Method:	Minimum 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:	
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	180.00	-25.00	0.00	25.00	25.00					
100.00	100.00	101.00	100.00	0.98	0.99	180.00	-25.00	0.00	25.00	23.03	1.97	12.706			
200.00	200.00	201.00	200.00	1.56	1.57	180.00	-25.00	0.00	25.00	21.87	3.13	7.996			
300.00	300.00	301.00	300.00	1.98	1.99	-180.00	-25.00	0.00	25.00	21.03	3.97	6.304			
301.04	301.04	302.05	301.05	1.99	1.99	-139.31	-25.00	0.00	25.00	21.03	3.97	6.291	CC		
400.00	399.99	401.25	400.24	2.41	2.42	-138.45	-24.48	-1.24	25.48	20.76	4.72	5.398	ES		
500.00	499.91	501.48	500.39	2.79	2.79	-136.15	-22.94	-4.90	26.96	21.59	5.36	5.026			
600.00	599.69	601.66	600.35	3.12	3.12	-132.87	-20.39	-10.98	29.51	23.58	5.93	4.974			
700.00	699.32	701.65	699.97	3.26	3.26	-129.45	-17.07	-18.89	32.98	26.80	6.19	5.331			
800.00	798.94	801.57	799.51	3.51	3.51	-126.69	-13.69	-26.92	36.61	29.94	6.68	5.483			
900.00	898.56	901.49	899.05	3.76	3.75	-124.42	-10.32	-34.95	40.31	33.16	7.15	5.639			
1,000.00	998.18	1,001.41	998.59	3.99	3.98	-122.54	-6.95	-42.98	44.07	36.46	7.60	5.797			
1,100.00	1,097.80	1,101.33	1,098.13	4.22	4.21	-120.96	-3.58	-51.01	47.86	39.82	8.04	5.952			
1,200.00	1,197.42	1,201.25	1,197.67	4.45	4.43	-119.61	-0.21	-59.04	51.68	43.21	8.47	6.100			
1,300.00	1,296.92	1,301.19	1,297.20	4.71	4.56	-119.19	3.28	-67.35	56.11	47.31	8.80	6.376			
1,400.00	1,396.13	1,401.10	1,396.47	4.97	4.83	-118.83	7.65	-77.74	61.71	52.47	9.24	6.678			
1,500.00	1,495.05	1,500.95	1,495.35	5.11	5.09	-117.91	13.01	-90.51	68.21	58.62	9.59	7.110			
1,600.00	1,593.95	1,600.69	1,593.73	5.33	5.34	-115.29	19.36	-105.64	74.80	64.77	10.03	7.460			
1,700.00	1,692.86	1,700.19	1,691.41	5.54	5.60	-111.28	26.69	-123.09	81.70	71.24	10.46	7.809			
1,800.00	1,791.76	1,799.33	1,788.21	5.76	5.85	-106.28	34.97	-142.80	89.35	78.44	10.91	8.190			
1,900.00	1,890.66	1,898.50	1,884.66	5.97	6.02	-101.09	43.91	-164.10	98.02	86.70	11.32	8.656			
2,000.00	1,989.56	1,997.76	1,981.17	6.18	6.23	-96.74	52.89	-185.47	107.39	95.59	11.80	9.103			
2,100.00	2,088.46	2,097.02	2,077.68	6.39	6.45	-93.10	61.86	-206.84	117.27	104.99	12.27	9.554			
2,200.00	2,187.36	2,196.27	2,174.19	6.60	6.67	-90.03	70.83	-228.21	127.55	114.80	12.75	10.003			
2,300.00	2,286.26	2,295.53	2,270.71	6.81	6.89	-87.42	79.81	-249.58	138.13	124.91	13.23	10.443			
2,400.00	2,385.16	2,394.78	2,367.22	7.02	7.13	-85.19	88.78	-270.94	148.96	135.26	13.70	10.872			
2,500.00	2,484.06	2,494.04	2,463.73	7.23	7.40	-83.26	97.75	-292.31	159.99	145.81	14.18	11.286			
2,600.00	2,582.96	2,593.29	2,560.24	7.44	7.68	-81.59	106.73	-313.68	171.17	156.52	14.65	11.686			
2,700.00	2,681.87	2,692.55	2,656.76	7.65	7.96	-80.11	115.70	-335.05	182.48	167.36	15.12	12.070			
2,800.00	2,780.77	2,791.81	2,753.27	7.85	8.26	-78.81	124.67	-356.42	193.89	178.30	15.59	12.439			
2,900.00	2,879.67	2,891.06	2,849.78	8.06	8.55	-77.66	133.64	-377.79	205.39	189.34	16.06	12.793			
3,000.00	2,978.57	2,990.32	2,946.29	8.27	8.85	-76.63	142.62	-399.15	216.96	200.44	16.52	13.132			
3,100.00	3,077.47	3,089.57	3,042.80	8.47	9.15	-75.70	151.59	-420.52	228.60	211.61	16.99	13.457			
3,200.00	3,176.37	3,188.83	3,139.32	8.68	9.45	-74.86	160.56	-441.89	240.29	222.84	17.45	13.769			
3,300.00	3,275.27	3,288.09	3,235.83	8.89	9.75	-74.10	169.54	-463.26	252.03	234.11	17.92	14.068			
3,400.00	3,374.17	3,387.34	3,332.34	9.09	10.05	-73.41	178.51	-484.63	263.80	245.43	18.38	14.354			
3,500.00	3,473.07	3,486.60	3,428.85	9.30	10.36	-72.78	187.48	-505.99	275.62	256.78	18.84	14.629			
3,600.00	3,571.97	3,585.85	3,525.37	9.50	10.66	-72.20	196.46	-527.36	287.46	268.16	19.30	14.893			
3,700.00	3,670.87	3,685.11	3,621.88	9.71	10.97	-71.66	205.43	-548.73	299.33	279.56	19.76	15.146			
3,800.00	3,769.78	3,784.37	3,718.39	9.91	11.27	-71.17	214.40	-570.10	311.22	290.99	20.22	15.389			
3,900.00	3,868.68	3,883.62	3,814.90	10.12	11.58	-70.71	223.38	-591.47	323.13	302.45	20.68	15.623			
4,000.00	3,967.58	3,982.88	3,911.42	10.33	11.89	-70.28	232.35	-612.84	335.06	313.92	21.14	15.848			
4,100.00	4,066.48	4,082.13	4,007.93	10.53	12.19	-69.89	241.32	-634.20	347.01	325.41	21.60	16.064			
4,200.00	4,165.38	4,181.39	4,104.44	10.74	12.50	-69.52	250.29	-655.57	358.98	336.92	22.06	16.272			
4,300.00	4,264.28	4,280.65	4,200.95	10.94	12.81	-69.17	259.27	-676.94	370.95	348.44	22.52	16.473			
4,400.00	4,363.18	4,379.90	4,297.46	11.14	13.12	-68.85	268.24	-698.31	382.95	359.97	22.97	16.671			
4,500.00	4,462.28	4,479.06	4,393.88	11.36	13.43	-68.54	277.20	-719.65	395.46	372.05	23.42	16.889			
4,600.00	4,561.69	4,577.98	4,490.06	11.56	13.74	-67.92	286.15	-740.95	408.98	385.15	23.83	17.162			
4,700.00	4,661.35	4,676.59	4,585.95	11.76	14.05	-67.04	295.06	-762.18	423.59	399.37	24.22	17.491			
4,800.00	4,761.20	4,774.84	4,681.48	11.95	14.35	-65.94	303.94	-783.33	439.39	414.82	24.57	17.880			
4,900.00	4,861.15	4,872.65	4,776.59	12.12	14.66	-64.65	312.79	-804.39	456.52	431.61	24.90	18.331			
5,000.00	4,961.15	4,969.99	4,871.24	12.19	14.97	-103.83	321.59	-825.34	475.02	449.86	25.16	18.878			

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 215H
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 215H	Survey Calculation Method:	Minimum 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)		
5,100.00	5,061.15	5,067.22	4,965.79	12.27	15.27	-102.23	330.38	-846.28	494.14	468.69	25.45	19.419
5,200.00	5,161.15	5,164.46	5,060.33	12.35	15.58	-100.75	339.17	-867.21	513.61	487.88	25.73	19.962
5,300.00	5,261.15	5,261.69	5,154.88	12.43	15.88	-99.37	347.96	-888.14	533.39	507.37	26.01	20.503
5,400.00	5,361.15	5,358.93	5,249.43	12.52	16.19	-98.10	356.75	-909.08	553.44	527.14	26.30	21.042
5,500.00	5,461.15	5,456.17	5,343.98	12.60	16.50	-96.91	365.54	-930.01	573.75	547.16	26.59	21.579
5,600.00	5,561.15	5,553.40	5,438.53	12.68	16.80	-95.80	374.33	-950.94	594.28	567.40	26.88	22.111
5,700.00	5,661.15	5,650.64	5,533.07	12.76	17.11	-94.77	383.12	-971.88	615.01	587.84	27.17	22.639
5,800.00	5,761.15	5,756.65	5,636.26	12.84	17.43	-93.73	392.53	-994.30	635.58	608.08	27.49	23.117
5,900.00	5,861.15	5,872.14	5,749.33	12.93	17.76	-92.80	401.64	-1,015.99	653.96	626.11	27.85	23.480
6,000.00	5,961.15	5,989.00	5,864.39	13.01	18.05	-92.04	409.51	-1,034.73	669.74	641.55	28.19	23.759
6,100.00	6,061.15	6,107.01	5,981.18	13.09	18.31	-91.44	416.07	-1,050.34	682.83	654.32	28.50	23.956
6,200.00	6,161.15	6,225.97	6,099.38	13.17	18.52	-90.98	421.26	-1,062.71	693.14	664.35	28.79	24.076
6,300.00	6,261.15	6,345.67	6,218.67	13.25	18.70	-90.66	425.05	-1,071.73	700.63	671.58	29.05	24.119
6,400.00	6,361.15	6,465.86	6,338.70	13.33	18.84	-90.46	427.39	-1,077.31	705.26	675.98	29.28	24.089
6,500.00	6,461.15	6,586.31	6,459.13	13.42	18.94	-90.39	428.27	-1,079.40	706.99	677.56	29.43	24.020
6,600.00	6,561.15	6,688.33	6,561.15	13.50	18.99	-90.39	428.28	-1,079.42	707.01	677.44	29.57	23.912
6,700.00	6,661.15	6,788.33	6,661.15	13.58	19.05	-90.39	428.28	-1,079.42	707.01	677.30	29.70	23.803
6,800.00	6,761.15	6,888.33	6,761.15	13.66	19.10	-90.39	428.28	-1,079.42	707.01	677.17	29.84	23.694
6,900.00	6,861.15	6,988.33	6,861.15	13.74	19.16	-90.39	428.28	-1,079.42	707.01	677.03	29.97	23.587
7,000.00	6,961.15	7,088.33	6,961.15	13.83	19.21	-90.39	428.28	-1,079.42	707.01	676.90	30.11	23.480
7,100.00	7,061.15	7,188.33	7,061.15	13.91	19.27	-90.39	428.28	-1,079.42	707.01	676.76	30.25	23.374
7,200.00	7,161.15	7,288.33	7,161.15	13.99	19.32	-90.39	428.28	-1,079.42	707.01	676.62	30.38	23.269
7,300.00	7,261.15	7,388.33	7,261.15	14.07	19.38	-90.39	428.28	-1,079.42	707.01	676.49	30.52	23.165
7,400.00	7,361.15	7,488.33	7,361.15	14.15	19.43	-90.39	428.28	-1,079.42	707.01	676.35	30.66	23.061
7,500.00	7,461.15	7,588.33	7,461.15	14.24	19.49	-90.39	428.28	-1,079.42	707.01	676.21	30.80	22.958
7,600.00	7,561.15	7,688.33	7,561.15	14.32	19.54	-90.39	428.28	-1,079.42	707.01	676.07	30.93	22.856
7,700.00	7,661.15	7,788.33	7,661.15	14.40	19.60	-90.39	428.28	-1,079.42	707.01	675.94	31.07	22.755
7,800.00	7,761.15	7,888.33	7,761.15	14.48	19.65	-90.39	428.28	-1,079.42	707.01	675.80	31.21	22.654
7,900.00	7,861.15	7,988.33	7,861.15	14.56	19.71	-90.39	428.28	-1,079.42	707.01	675.66	31.35	22.555
8,000.00	7,961.15	8,088.33	7,961.15	14.65	19.77	-90.39	428.28	-1,079.42	707.01	675.52	31.48	22.456
8,100.00	8,061.15	8,188.33	8,061.15	14.73	19.82	-90.39	428.28	-1,079.42	707.01	675.38	31.62	22.357
8,200.00	8,161.15	8,288.33	8,161.15	14.81	19.88	-90.39	428.28	-1,079.42	707.01	675.24	31.76	22.259
8,300.00	8,261.15	8,388.33	8,261.15	14.89	19.94	-90.39	428.28	-1,079.42	707.01	675.11	31.90	22.163
8,400.00	8,361.15	8,488.33	8,361.15	14.98	19.99	-90.39	428.28	-1,079.42	707.01	674.97	32.04	22.066
8,500.00	8,461.15	8,588.33	8,461.15	15.06	20.05	-90.39	428.28	-1,079.42	707.01	674.83	32.18	21.971
8,600.00	8,561.15	8,688.33	8,561.15	15.14	20.11	-90.39	428.28	-1,079.42	707.01	674.69	32.32	21.876
8,700.00	8,661.15	8,788.33	8,661.15	15.22	20.17	-90.39	428.28	-1,079.42	707.01	674.55	32.46	21.782
8,800.00	8,761.15	8,888.33	8,761.15	15.30	20.22	-90.39	428.28	-1,079.42	707.01	674.41	32.60	21.688
8,900.00	8,861.15	8,988.33	8,861.15	15.39	20.28	-90.39	428.28	-1,079.42	707.01	674.27	32.74	21.595
9,000.00	8,961.15	9,088.33	8,961.15	15.47	20.34	-90.39	428.28	-1,079.42	707.01	674.13	32.88	21.503
9,100.00	9,061.15	9,188.33	9,061.15	15.55	20.40	-90.39	428.28	-1,079.42	707.01	673.99	33.02	21.412
9,200.00	9,161.15	9,288.33	9,161.15	15.63	20.46	-90.39	428.28	-1,079.42	707.01	673.85	33.16	21.321
9,300.00	9,261.15	9,388.33	9,261.15	15.71	20.51	-90.39	428.28	-1,079.42	707.01	673.71	33.30	21.231
9,400.00	9,361.15	9,488.33	9,361.15	15.80	20.57	-90.39	428.28	-1,079.42	707.01	673.56	33.44	21.141
9,500.00	9,461.15	9,588.33	9,461.15	15.88	20.63	-90.39	428.28	-1,079.42	707.01	673.42	33.58	21.052
9,600.00	9,561.15	9,688.33	9,561.15	15.96	20.69	-90.39	428.28	-1,079.42	707.01	673.28	33.72	20.964
9,700.00	9,661.15	9,788.33	9,661.15	16.04	20.75	-90.39	428.28	-1,079.42	707.01	673.14	33.87	20.877
9,800.00	9,761.15	9,888.33	9,761.15	16.12	20.81	-90.39	428.28	-1,079.42	707.01	673.00	34.01	20.790
9,900.00	9,861.15	9,988.33	9,861.15	16.21	20.87	-90.39	428.28	-1,079.42	707.01	672.86	34.15	20.703
10,000.00	9,961.15	10,088.33	9,961.15	16.29	20.93	-90.39	428.28	-1,079.42	707.01	672.71	34.29	20.618
10,100.00	10,061.15	10,188.33	10,061.15	16.37	20.99	-90.39	428.28	-1,079.42	707.01	672.57	34.43	20.532
10,200.00	10,161.15	10,288.33	10,161.15	16.45	21.05	-90.39	428.28	-1,079.42	707.01	672.43	34.58	20.448

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 215H
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 215H	Survey Calculation Method:	Minimum 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	10,261.15	10,388.33	10,261.15	16.54	21.11	-90.39	428.28	-1,079.42	707.01	672.29	34.72	20.364
10,400.00	10,361.15	10,488.33	10,361.15	16.62	21.17	-90.39	428.28	-1,079.42	707.01	672.15	34.86	20.281
10,500.00	10,461.15	10,588.33	10,461.15	16.70	21.23	-90.39	428.28	-1,079.42	707.01	672.00	35.00	20.198
10,600.00	10,561.15	10,688.33	10,561.15	16.78	21.29	-90.39	428.28	-1,079.42	707.01	671.86	35.15	20.116
10,700.00	10,661.15	10,788.33	10,661.15	16.86	21.35	-90.39	428.28	-1,079.42	707.01	671.72	35.29	20.034
10,800.00	10,761.15	10,888.33	10,761.15	16.95	21.41	-90.39	428.28	-1,079.42	707.01	671.57	35.43	19.953
10,900.00	10,861.15	10,988.33	10,861.15	17.03	21.47	-90.39	428.28	-1,079.42	707.01	671.43	35.58	19.873
11,000.00	10,961.15	11,088.33	10,961.15	17.11	21.53	-90.39	428.28	-1,079.42	707.01	671.29	35.72	19.793
11,100.00	11,061.15	11,188.33	11,061.15	17.19	21.59	-90.39	428.28	-1,079.42	707.01	671.14	35.86	19.713
11,200.00	11,161.15	11,288.33	11,161.15	17.27	21.65	-90.39	428.28	-1,079.42	707.01	671.00	36.01	19.635
11,300.00	11,261.15	11,388.33	11,261.15	17.36	21.72	-90.39	428.28	-1,079.42	707.01	670.85	36.15	19.556
11,400.00	11,361.15	11,488.33	11,361.15	17.44	21.78	-90.39	428.28	-1,079.42	707.01	670.71	36.30	19.479
11,500.00	11,461.15	11,588.33	11,461.15	17.52	21.84	-90.39	428.28	-1,079.42	707.01	670.57	36.44	19.402
11,600.00	11,561.15	11,688.33	11,561.15	17.60	21.90	-90.39	428.28	-1,079.42	707.01	670.42	36.59	19.325
11,700.00	11,661.15	11,788.33	11,661.15	17.69	21.96	-90.39	428.28	-1,079.42	707.01	670.28	36.73	19.249
11,800.00	11,761.15	11,888.33	11,761.15	17.77	22.02	-90.39	428.28	-1,079.42	707.01	670.13	36.87	19.173
11,900.00	11,861.15	11,988.33	11,861.15	17.85	22.09	-90.39	428.28	-1,079.42	707.01	669.99	37.02	19.098
12,000.00	11,961.14	12,088.38	11,961.19	17.90	22.13	90.10	427.77	-1,079.42	707.01	669.90	37.11	19.053
12,100.00	12,060.18	12,188.60	12,060.45	17.93	22.16	90.10	414.82	-1,079.30	707.01	670.04	36.96	19.128
12,200.00	12,155.47	12,288.82	12,155.92	17.96	22.15	90.10	384.81	-1,079.05	707.01	670.33	36.68	19.275
12,300.00	12,244.13	12,389.01	12,244.71	17.98	22.12	90.09	338.64	-1,078.65	707.01	670.71	36.30	19.479
12,400.00	12,323.46	12,489.19	12,324.09	18.01	22.08	90.08	277.75	-1,078.12	707.01	671.14	35.87	19.713
12,444.39	12,355.04	12,533.65	12,355.67	18.02	22.07	90.07	246.47	-1,077.86	707.01	671.33	35.68	19.815
12,500.00	12,391.04	12,589.34	12,391.66	18.04	22.06	90.06	204.00	-1,077.49	707.01	671.55	35.45	19.941
12,600.00	12,444.83	12,689.46	12,445.35	18.09	22.08	90.05	119.65	-1,076.76	707.01	671.87	35.13	20.123
12,700.00	12,483.18	12,789.55	12,483.55	18.16	22.17	90.03	27.28	-1,075.97	707.01	672.04	34.97	20.218
12,800.00	12,504.94	12,889.59	12,505.11	18.27	22.33	90.01	-70.28	-1,075.13	707.01	672.00	35.01	20.196
12,900.00	12,510.19	12,989.60	12,510.20	18.42	22.57	90.00	-170.08	-1,074.27	707.01	671.75	35.26	20.052
13,000.00	12,511.06	13,089.60	12,511.07	18.62	22.88	90.00	-270.07	-1,073.41	707.01	671.26	35.75	19.775
13,100.00	12,511.94	13,189.60	12,511.95	18.88	23.25	90.00	-370.06	-1,072.55	707.01	670.56	36.44	19.400
13,200.00	12,512.81	13,289.60	12,512.82	19.20	23.68	90.00	-470.05	-1,071.69	707.01	669.68	37.33	18.942
13,300.00	12,513.68	13,389.60	12,513.69	19.61	24.17	90.00	-570.05	-1,070.83	707.01	668.62	38.38	18.420
13,400.00	12,514.56	13,489.60	12,514.57	20.11	24.71	90.00	-670.04	-1,069.97	707.01	667.41	39.60	17.853
13,500.00	12,515.43	13,589.60	12,515.44	20.70	25.30	90.00	-770.03	-1,069.11	707.01	666.04	40.97	17.257
13,600.00	12,516.30	13,689.60	12,516.31	21.37	25.94	90.00	-870.02	-1,068.25	707.01	664.54	42.47	16.648
13,700.00	12,517.18	13,789.60	12,517.19	22.12	26.62	90.00	-970.02	-1,067.38	707.01	662.92	44.09	16.037
13,800.00	12,518.05	13,889.60	12,518.06	22.93	27.35	90.00	-1,070.01	-1,066.52	707.01	661.20	45.81	15.433
13,900.00	12,518.92	13,989.60	12,518.93	23.80	28.13	90.00	-1,170.00	-1,065.66	707.01	659.38	47.63	14.844
14,000.00	12,519.80	14,089.60	12,519.81	24.73	28.94	90.00	-1,269.99	-1,064.80	707.01	657.47	49.54	14.273
14,100.00	12,520.67	14,189.60	12,520.68	25.70	29.79	90.00	-1,369.99	-1,063.94	707.01	655.50	51.52	13.724
14,200.00	12,521.54	14,289.60	12,521.55	26.70	30.68	90.00	-1,469.98	-1,063.08	707.01	653.45	53.56	13.200
14,300.00	12,522.42	14,389.60	12,522.42	27.75	31.60	90.00	-1,569.97	-1,062.22	707.01	651.34	55.67	12.701
14,400.00	12,523.29	14,489.60	12,523.30	28.82	32.55	90.00	-1,669.96	-1,061.36	707.01	649.18	57.83	12.226
14,500.00	12,524.16	14,589.60	12,524.17	29.91	33.53	90.00	-1,769.96	-1,060.50	707.01	646.98	60.03	11.777
14,600.00	12,525.04	14,689.60	12,525.04	31.04	34.53	90.00	-1,869.95	-1,059.64	707.01	644.73	62.28	11.352
14,700.00	12,525.91	14,789.60	12,525.92	32.18	35.56	90.00	-1,969.94	-1,058.78	707.01	642.44	64.57	10.950
14,800.00	12,526.78	14,889.60	12,526.79	33.34	36.61	90.00	-2,069.93	-1,057.92	707.01	640.12	66.89	10.570
14,900.00	12,527.66	14,989.60	12,527.66	34.51	37.68	90.00	-2,169.93	-1,057.06	707.01	637.77	69.24	10.211
15,000.00	12,528.53	15,089.60	12,528.54	35.70	38.77	90.00	-2,269.92	-1,056.20	707.01	635.39	71.62	9.872
15,100.00	12,529.40	15,189.60	12,529.41	36.91	39.87	90.00	-2,369.91	-1,055.34	707.01	632.99	74.02	9.551
15,200.00	12,530.28	15,289.60	12,530.28	38.12	40.99	90.00	-2,469.90	-1,054.48	707.01	630.57	76.45	9.248
15,300.00	12,531.15	15,389.60	12,531.15	39.35	42.13	90.00	-2,569.90	-1,053.61	707.01	628.12	78.89	8.962

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 215H
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 215H	Survey Calculation Method:	Minimum 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)			Minimum Separation (usft)	
15,400.00	12,532.02	15,489.60	12,532.03	40.58	43.28	90.00	-2,669.89	-1,052.75	707.01	625.65	81.36	8.690		
15,500.00	12,532.89	15,589.60	12,532.90	41.82	44.44	90.00	-2,769.88	-1,051.89	707.01	623.17	83.84	8.433		
15,600.00	12,533.77	15,689.60	12,533.77	43.08	45.61	90.00	-2,869.87	-1,051.03	707.01	620.68	86.34	8.189		
15,700.00	12,534.64	15,789.60	12,534.65	44.34	46.80	90.00	-2,969.87	-1,050.17	707.01	618.16	88.85	7.957		
15,800.00	12,535.51	15,889.60	12,535.52	45.60	47.99	90.00	-3,069.86	-1,049.31	707.01	615.64	91.38	7.737		
15,900.00	12,536.39	15,989.60	12,536.39	46.87	49.20	90.00	-3,169.85	-1,048.45	707.02	613.10	93.91	7.528		
16,000.00	12,537.26	16,089.60	12,537.27	48.15	50.41	90.00	-3,269.84	-1,047.59	707.02	610.55	96.46	7.330		
16,100.00	12,538.13	16,189.60	12,538.14	49.43	51.63	90.00	-3,369.84	-1,046.73	707.02	608.00	99.02	7.140		
16,200.00	12,539.01	16,289.60	12,539.01	50.72	52.86	90.00	-3,469.83	-1,045.87	707.02	605.43	101.59	6.960		
16,300.00	12,539.88	16,389.60	12,539.89	52.01	54.09	90.00	-3,569.82	-1,045.01	707.02	602.85	104.16	6.788		
16,400.00	12,540.75	16,489.60	12,540.76	53.30	55.33	90.00	-3,669.81	-1,044.15	707.02	600.27	106.75	6.623		
16,500.00	12,541.63	16,589.60	12,541.63	54.60	56.58	90.00	-3,769.81	-1,043.29	707.02	597.68	109.34	6.466		
16,600.00	12,542.50	16,689.60	12,542.50	55.90	57.83	90.00	-3,869.80	-1,042.43	707.02	595.08	111.94	6.316		
16,700.00	12,543.37	16,789.60	12,543.38	57.21	59.09	90.00	-3,969.79	-1,041.57	707.02	592.47	114.55	6.172		
16,800.00	12,544.25	16,889.60	12,544.25	58.52	60.35	90.00	-4,069.78	-1,040.70	707.02	589.86	117.16	6.035		
16,900.00	12,545.12	16,989.60	12,545.12	59.83	61.62	90.00	-4,169.78	-1,039.84	707.02	587.24	119.78	5.903		
17,000.00	12,545.99	17,089.60	12,546.00	61.14	62.89	90.00	-4,269.77	-1,038.98	707.02	584.62	122.40	5.776		
17,100.00	12,546.87	17,189.60	12,546.87	62.46	64.17	90.00	-4,369.76	-1,038.12	707.02	581.99	125.03	5.655		
17,200.00	12,547.74	17,289.60	12,547.74	63.78	65.45	90.00	-4,469.75	-1,037.26	707.02	579.36	127.66	5.538		
17,300.00	12,548.61	17,389.60	12,548.62	65.10	66.73	90.00	-4,569.75	-1,036.40	707.02	576.72	130.30	5.426		
17,400.00	12,549.49	17,489.60	12,549.49	66.42	68.02	90.00	-4,669.74	-1,035.54	707.02	574.08	132.94	5.318		
17,500.00	12,550.36	17,589.60	12,550.36	67.75	69.31	90.00	-4,769.73	-1,034.68	707.02	571.44	135.58	5.215		
17,600.00	12,551.23	17,689.60	12,551.23	69.07	70.60	90.00	-4,869.72	-1,033.82	707.02	568.79	138.23	5.115		
17,700.00	12,552.11	17,789.60	12,552.11	70.40	71.90	90.00	-4,969.72	-1,032.96	707.02	566.14	140.88	5.018		
17,800.00	12,552.98	17,889.60	12,552.98	71.73	73.19	90.00	-5,069.71	-1,032.10	707.02	563.48	143.54	4.926		
17,900.00	12,553.85	17,989.60	12,553.85	73.06	74.50	90.00	-5,169.70	-1,031.24	707.02	560.82	146.20	4.836		
18,000.00	12,554.73	18,089.60	12,554.73	74.40	75.80	90.00	-5,269.69	-1,030.38	707.02	558.16	148.86	4.750		
18,100.00	12,555.60	18,189.60	12,555.60	75.73	77.11	90.00	-5,369.69	-1,029.52	707.02	555.50	151.52	4.666		
18,200.00	12,556.47	18,289.60	12,556.47	77.06	78.41	90.00	-5,469.68	-1,028.66	707.02	552.83	154.19	4.585		
18,300.00	12,557.35	18,389.60	12,557.35	78.40	79.72	90.00	-5,569.67	-1,027.80	707.02	550.16	156.86	4.507		
18,400.00	12,558.22	18,489.60	12,558.22	79.74	81.04	90.00	-5,669.66	-1,026.93	707.02	547.49	159.53	4.432		
18,500.00	12,559.09	18,589.60	12,559.09	81.08	82.35	90.00	-5,769.66	-1,026.07	707.02	544.82	162.21	4.359		
18,600.00	12,559.97	18,689.60	12,559.97	82.42	83.67	90.00	-5,869.65	-1,025.21	707.02	542.14	164.88	4.288		
18,700.00	12,560.84	18,789.60	12,560.84	83.76	84.98	90.00	-5,969.64	-1,024.35	707.02	539.46	167.56	4.220		
18,800.00	12,561.71	18,889.60	12,561.71	85.10	86.30	90.00	-6,069.63	-1,023.49	707.02	536.78	170.24	4.153		
18,900.00	12,562.59	18,989.60	12,562.58	86.44	87.62	90.00	-6,169.63	-1,022.63	707.02	534.10	172.92	4.089		
19,000.00	12,563.46	19,089.60	12,563.46	87.79	88.95	90.00	-6,269.62	-1,021.77	707.02	531.42	175.61	4.026		
19,100.00	12,564.33	19,189.60	12,564.33	89.13	90.27	90.00	-6,369.61	-1,020.91	707.02	528.73	178.29	3.966		
19,200.00	12,565.20	19,289.60	12,565.20	90.48	91.60	90.00	-6,469.60	-1,020.05	707.02	526.05	180.98	3.907		
19,300.00	12,566.08	19,389.60	12,566.08	91.82	92.92	90.00	-6,569.60	-1,019.19	707.02	523.36	183.67	3.849		
19,400.00	12,566.95	19,489.60	12,566.95	93.17	94.25	90.00	-6,669.59	-1,018.33	707.02	520.67	186.36	3.794		
19,500.00	12,567.82	19,589.60	12,567.82	94.51	95.58	90.00	-6,769.58	-1,017.47	707.02	517.98	189.05	3.740		
19,600.00	12,568.70	19,689.60	12,568.70	95.86	96.91	90.00	-6,869.57	-1,016.61	707.03	515.28	191.74	3.687		
19,700.00	12,569.57	19,789.60	12,569.57	97.21	98.24	90.00	-6,969.57	-1,015.75	707.03	512.59	194.44	3.636		
19,800.00	12,570.44	19,889.60	12,570.44	98.56	99.57	90.00	-7,069.56	-1,014.89	707.03	509.89	197.13	3.587		
19,900.00	12,571.32	19,989.60	12,571.32	99.91	100.91	90.00	-7,169.55	-1,014.02	707.03	507.20	199.83	3.538		
20,000.00	12,572.19	20,089.60	12,572.19	101.26	102.24	90.00	-7,269.54	-1,013.16	707.03	504.50	202.53	3.491		
20,100.00	12,573.06	20,189.60	12,573.06	102.61	103.57	90.00	-7,369.54	-1,012.30	707.03	501.80	205.23	3.445		
20,200.00	12,573.94	20,289.60	12,573.93	103.96	104.91	90.00	-7,469.53	-1,011.44	707.03	499.10	207.93	3.400		
20,300.00	12,574.81	20,389.60	12,574.81	105.31	106.25	90.00	-7,569.52	-1,010.58	707.03	496.40	210.63	3.357		
20,400.00	12,575.68	20,489.60	12,575.68	106.66	107.59	90.00	-7,669.51	-1,009.72	707.03	493.70	213.33	3.314		
20,500.00	12,576.56	20,589.60	12,576.55	108.02	108.92	90.00	-7,769.51	-1,008.86	707.03	490.99	216.03	3.273		

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 215H
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 215H	Survey Calculation Method:	Minimum 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:						
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation	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)		
20,600.00	12,577.43	20,689.60	12,577.43	109.37	110.26	90.00	-7,869.50	-1,008.00	707.03	488.29	218.74	3.232
20,700.00	12,578.30	20,789.60	12,578.30	110.72	111.60	90.00	-7,969.49	-1,007.14	707.03	485.59	221.44	3.193
20,800.00	12,579.18	20,889.60	12,579.17	112.08	112.94	90.00	-8,069.48	-1,006.28	707.03	482.88	224.15	3.154
20,900.00	12,580.05	20,989.60	12,580.05	113.43	114.29	90.00	-8,169.48	-1,005.42	707.03	480.18	226.85	3.117
21,000.00	12,580.92	21,089.60	12,580.92	114.79	115.63	90.00	-8,269.47	-1,004.56	707.03	477.47	229.56	3.080
21,100.00	12,581.80	21,189.60	12,581.79	116.14	116.97	90.00	-8,369.46	-1,003.70	707.03	474.76	232.27	3.044
21,200.00	12,582.67	21,289.60	12,582.66	117.50	118.31	90.00	-8,469.45	-1,002.84	707.03	472.05	234.98	3.009
21,300.00	12,583.54	21,389.60	12,583.54	118.85	119.66	90.00	-8,569.45	-1,001.98	707.03	469.34	237.69	2.975
21,400.00	12,584.42	21,489.60	12,584.41	120.21	121.00	90.00	-8,669.44	-1,001.12	707.03	466.63	240.40	2.941
21,500.00	12,585.29	21,589.60	12,585.28	121.56	122.35	90.00	-8,769.43	-1,000.25	707.03	463.92	243.11	2.908
21,600.00	12,586.16	21,689.60	12,586.16	122.92	123.69	90.00	-8,869.42	-999.39	707.03	461.21	245.82	2.876
21,700.00	12,587.04	21,789.60	12,587.03	124.28	125.04	90.00	-8,969.42	-998.53	707.03	458.50	248.53	2.845
21,800.00	12,587.91	21,889.60	12,587.90	125.63	126.39	90.00	-9,069.41	-997.67	707.03	455.79	251.24	2.814
21,900.00	12,588.78	21,989.60	12,588.78	126.99	127.73	90.00	-9,169.40	-996.81	707.03	453.07	253.96	2.784
22,000.00	12,589.66	22,089.60	12,589.65	128.35	129.08	90.00	-9,269.39	-995.95	707.03	450.36	256.67	2.755
22,100.00	12,590.53	22,189.60	12,590.52	129.71	130.43	90.00	-9,369.39	-995.09	707.03	447.65	259.39	2.726
22,200.00	12,591.40	22,289.60	12,591.40	131.07	131.78	90.00	-9,469.38	-994.23	707.03	444.93	262.10	2.698
22,300.00	12,592.28	22,389.60	12,592.27	132.42	133.13	90.00	-9,569.37	-993.37	707.03	442.22	264.82	2.670
22,400.00	12,593.15	22,489.60	12,593.14	133.78	134.48	90.00	-9,669.36	-992.51	707.03	439.50	267.53	2.643
22,500.00	12,594.02	22,589.60	12,594.01	135.14	135.83	90.00	-9,769.36	-991.65	707.03	436.78	270.25	2.616
22,600.00	12,594.89	22,689.60	12,594.89	136.50	137.18	90.00	-9,869.35	-990.79	707.03	434.07	272.97	2.590
22,700.00	12,595.77	22,789.60	12,595.76	137.86	138.53	90.00	-9,969.34	-989.93	707.03	431.35	275.68	2.565
22,800.00	12,596.64	22,889.60	12,596.63	139.22	139.88	90.00	-10,069.33	-989.07	707.03	428.63	278.40	2.540
22,806.75	12,596.70	22,896.36	12,596.69	139.31	139.97	90.00	-10,076.09	-989.01	707.03	428.45	278.58	2.538 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 215H
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 215H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

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

Offset Site Error: 0.00 usft

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		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	
0.00	0.00	0.00	0.00	0.50	0.50	0.00	160.00	0.00	160.00				
100.00	100.00	100.00	100.00	0.98	0.98	0.00	160.00	0.00	160.00	158.04	1.96	81.542	
200.00	200.00	200.00	200.00	1.56	1.56	0.00	160.00	0.00	160.00	156.88	3.12	51.245	
300.00	300.00	300.00	300.00	1.98	1.98	0.00	160.00	0.00	160.00	156.04	3.96	40.380	
400.00	399.99	399.99	399.99	2.41	2.33	41.01	160.00	0.00	159.01	154.30	4.71	33.781	
500.00	499.91	499.91	499.91	2.79	2.63	41.98	160.00	0.00	156.07	150.71	5.35	29.152	
600.00	599.69	599.69	599.69	3.12	2.91	43.69	160.00	0.00	151.27	145.33	5.93	25.492	
700.00	699.32	699.32	699.32	3.26	3.16	46.04	160.00	0.00	145.18	138.86	6.32	22.987	
800.00	798.94	798.94	798.94	3.51	3.40	48.62	160.00	0.00	139.26	132.47	6.79	20.497	
900.00	898.56	898.56	898.56	3.76	3.62	51.42	160.00	0.00	133.64	126.40	7.25	18.440	
1,000.00	998.18	998.18	998.18	3.99	3.83	54.45	160.00	0.00	128.38	120.70	7.68	16.716	
1,100.00	1,097.80	1,097.80	1,097.80	4.22	4.03	57.73	160.00	0.00	123.50	115.41	8.09	15.258	
1,200.00	1,197.42	1,197.42	1,197.42	4.45	4.23	61.27	160.00	0.00	119.06	110.56	8.50	14.010	
1,300.00	1,296.92	1,296.92	1,296.92	4.71	4.41	65.68	160.00	0.00	114.60	105.71	8.88	12.899	
1,400.00	1,396.13	1,396.13	1,396.13	4.97	4.59	71.68	160.00	0.00	110.00	100.74	9.26	11.878	
1,500.00	1,495.05	1,495.05	1,495.05	5.11	4.77	79.12	160.00	0.00	106.27	96.72	9.55	11.133	
1,600.00	1,593.95	1,593.95	1,593.95	5.33	4.94	87.02	160.00	0.00	104.46	94.54	9.92	10.532	
1,637.09	1,630.63	1,630.63	1,630.63	5.41	5.00	90.00	160.00	0.00	104.32	94.26	10.06	10.371	CC, ES
1,700.00	1,692.86	1,692.86	1,692.86	5.54	5.10	95.04	160.00	0.00	104.73	94.43	10.30	10.169	
1,800.00	1,791.76	1,791.76	1,791.76	5.76	5.26	102.86	160.00	0.00	107.06	96.38	10.69	10.018	
1,900.00	1,890.66	1,890.66	1,890.66	5.97	5.42	110.23	160.00	0.00	111.32	100.25	11.08	10.048	
2,000.00	1,989.56	1,989.56	1,989.56	6.18	5.57	116.96	160.00	0.00	117.31	105.84	11.47	10.225	
2,100.00	2,088.46	2,088.46	2,088.46	6.39	5.73	122.98	160.00	0.00	124.77	112.90	11.86	10.517	
2,200.00	2,187.36	2,187.36	2,187.36	6.60	5.87	128.28	160.00	0.00	133.45	121.20	12.25	10.894	
2,300.00	2,286.26	2,284.30	2,284.30	6.81	6.04	132.52	160.71	0.60	143.73	131.10	12.63	11.381	
2,400.00	2,385.16	2,380.96	2,380.89	7.02	6.21	135.45	163.26	2.78	156.13	143.14	12.99	12.021	
2,500.00	2,484.06	2,477.50	2,477.25	7.23	6.38	137.26	167.66	6.54	170.26	156.93	13.34	12.767	
2,600.00	2,582.96	2,573.79	2,573.20	7.44	6.54	138.14	173.90	11.86	185.87	172.20	13.68	13.591	
2,700.00	2,681.87	2,669.72	2,668.54	7.65	6.71	138.30	181.94	18.72	202.84	188.83	14.01	14.480	
2,800.00	2,780.77	2,766.18	2,764.13	7.85	6.82	137.93	191.75	27.10	221.06	206.76	14.30	15.462	
2,900.00	2,879.67	2,864.43	2,861.43	8.06	6.95	137.49	202.15	35.97	239.58	224.96	14.62	16.383	
3,000.00	2,978.57	2,962.69	2,958.72	8.27	7.09	137.12	212.55	44.85	258.11	243.14	14.97	17.243	
3,100.00	3,077.47	3,060.94	3,056.02	8.47	7.24	136.80	222.95	53.72	276.66	261.34	15.32	18.063	
3,200.00	3,176.37	3,159.20	3,153.32	8.68	7.39	136.52	233.35	62.59	295.21	279.54	15.66	18.845	
3,300.00	3,275.27	3,257.45	3,250.62	8.89	7.55	136.27	243.75	71.47	313.76	297.75	16.02	19.591	
3,400.00	3,374.17	3,355.71	3,347.92	9.09	7.70	136.05	254.15	80.34	332.32	315.96	16.37	20.303	
3,500.00	3,473.07	3,453.96	3,445.22	9.30	7.86	135.86	264.55	89.22	350.89	334.17	16.72	20.983	
3,600.00	3,571.97	3,552.21	3,542.52	9.50	8.01	135.68	274.94	98.09	369.46	352.38	17.08	21.633	
3,700.00	3,670.87	3,650.47	3,639.82	9.71	8.17	135.52	285.34	106.96	388.03	370.59	17.44	22.255	
3,800.00	3,769.78	3,748.72	3,737.12	9.91	8.33	135.38	295.74	115.84	406.60	388.81	17.79	22.851	
3,900.00	3,868.68	3,846.98	3,834.42	10.12	8.49	135.24	306.14	124.71	425.18	407.03	18.15	23.421	
4,000.00	3,967.58	3,945.23	3,931.72	10.33	8.66	135.12	316.54	133.59	443.76	425.25	18.51	23.968	
4,100.00	4,066.48	4,043.49	4,029.01	10.53	8.82	135.01	326.94	142.46	462.34	443.47	18.88	24.493	
4,200.00	4,165.38	4,141.74	4,126.31	10.74	8.99	134.91	337.34	151.33	480.92	461.68	19.24	24.996	
4,300.00	4,264.28	4,240.00	4,223.61	10.94	9.15	134.81	347.74	160.21	499.51	479.90	19.60	25.480	
4,400.00	4,363.18	4,338.25	4,320.91	11.14	9.32	134.73	358.14	169.08	518.09	498.13	19.96	25.953	
4,500.00	4,462.28	4,436.67	4,418.37	11.36	9.49	134.73	368.55	177.97	535.70	515.37	20.33	26.350	
4,600.00	4,561.69	4,535.35	4,516.09	11.56	9.66	134.52	379.00	186.88	551.51	530.82	20.68	26.663	
4,700.00	4,661.35	4,634.22	4,614.00	11.76	9.83	134.13	389.46	195.81	565.54	544.51	21.02	26.899	
4,800.00	4,761.20	4,733.21	4,712.02	11.95	10.01	133.56	399.94	204.75	577.83	556.48	21.35	27.066	
4,900.00	4,861.15	4,833.71	4,811.55	12.12	10.17	132.80	410.55	213.81	588.42	566.77	21.65	27.184	
5,000.00	4,961.15	4,943.72	4,920.75	12.19	10.36	91.20	420.67	222.45	596.38	574.48	21.90	27.230	

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 215H
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 215H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

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

Offset Site Error: 0.00 usft

Offset Well Error: 0.50 usft

Survey Program: Reference		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
5,100.00	5,061.15	5,054.41	5,030.97	12.27	10.57	90.44	428.43	229.07	602.28	580.10	22.18	27.152	
5,200.00	5,161.15	5,165.60	5,141.93	12.35	10.76	89.93	433.78	233.64	606.37	583.93	22.45	27.015	
5,300.00	5,261.15	5,277.11	5,253.38	12.43	10.95	89.66	436.68	236.11	608.60	585.91	22.69	26.821	
5,400.00	5,361.15	5,384.89	5,361.15	12.52	11.04	89.61	437.23	236.58	609.02	586.16	22.86	26.642	
5,500.00	5,461.15	5,484.89	5,461.15	12.60	11.13	89.61	437.23	236.58	609.02	586.00	23.03	26.448	
5,600.00	5,561.15	5,584.89	5,561.15	12.68	11.23	89.61	437.23	236.58	609.02	585.82	23.20	26.249	
5,700.00	5,661.15	5,684.89	5,661.15	12.76	11.32	89.61	437.23	236.58	609.02	585.65	23.38	26.053	
5,800.00	5,761.15	5,784.89	5,761.15	12.84	11.41	89.61	437.23	236.58	609.02	585.47	23.55	25.861	
5,900.00	5,861.15	5,884.89	5,861.15	12.93	11.51	89.61	437.23	236.58	609.02	585.30	23.72	25.671	
6,000.00	5,961.15	5,984.89	5,961.15	13.01	11.60	89.61	437.23	236.58	609.02	585.13	23.90	25.484	
6,100.00	6,061.15	6,084.89	6,061.15	13.09	11.69	89.61	437.23	236.58	609.02	584.95	24.07	25.301	
6,200.00	6,161.15	6,184.89	6,161.15	13.17	11.79	89.61	437.23	236.58	609.02	584.78	24.24	25.120	
6,300.00	6,261.15	6,284.89	6,261.15	13.25	11.88	89.61	437.23	236.58	609.02	584.61	24.42	24.941	
6,400.00	6,361.15	6,384.89	6,361.15	13.33	11.97	89.61	437.23	236.58	609.02	584.43	24.59	24.766	
6,500.00	6,461.15	6,484.89	6,461.15	13.42	12.06	89.61	437.23	236.58	609.02	584.26	24.76	24.593	
6,600.00	6,561.15	6,584.89	6,561.15	13.50	12.16	89.61	437.23	236.58	609.02	584.09	24.94	24.422	
6,700.00	6,661.15	6,684.89	6,661.15	13.58	12.25	89.61	437.23	236.58	609.02	583.91	25.11	24.255	
6,800.00	6,761.15	6,784.89	6,761.15	13.66	12.34	89.61	437.23	236.58	609.02	583.74	25.28	24.089	
6,900.00	6,861.15	6,884.89	6,861.15	13.74	12.43	89.61	437.23	236.58	609.02	583.57	25.45	23.926	
7,000.00	6,961.15	6,984.89	6,961.15	13.83	12.52	89.61	437.23	236.58	609.02	583.40	25.63	23.765	
7,100.00	7,061.15	7,084.89	7,061.15	13.91	12.62	89.61	437.23	236.58	609.02	583.23	25.80	23.606	
7,200.00	7,161.15	7,184.89	7,161.15	13.99	12.71	89.61	437.23	236.58	609.02	583.05	25.97	23.450	
7,300.00	7,261.15	7,284.89	7,261.15	14.07	12.80	89.61	437.23	236.58	609.02	582.88	26.14	23.296	
7,400.00	7,361.15	7,384.89	7,361.15	14.15	12.89	89.61	437.23	236.58	609.02	582.71	26.31	23.144	
7,500.00	7,461.15	7,484.89	7,461.15	14.24	12.98	89.61	437.23	236.58	609.02	582.54	2		

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 215H
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 215H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

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

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	10,261.15	10,284.89	10,261.15	16.54	15.49	89.61	437.23	236.58	609.02	577.77	31.25	19.487			
10,400.00	10,361.15	10,384.89	10,361.15	16.62	15.58	89.61	437.23	236.58	609.02	577.60	31.42	19.382			
10,500.00	10,461.15	10,484.89	10,461.15	16.70	15.67	89.61	437.23	236.58	609.02	577.43	31.59	19.279			
10,600.00	10,561.15	10,584.89	10,561.15	16.78	15.76	89.61	437.23	236.58	609.02	577.26	31.76	19.176			
10,700.00	10,661.15	10,684.89	10,661.15	16.86	15.85	89.61	437.23	236.58	609.02	577.10	31.93	19.075			
10,800.00	10,761.15	10,784.89	10,761.15	16.95	15.93	89.61	437.23	236.58	609.02	576.93	32.10	18.974			
10,900.00	10,861.15	10,884.89	10,861.15	17.03	16.02	89.61	437.23	236.58	609.02	576.76	32.27	18.875			
11,000.00	10,961.15	10,984.89	10,961.15	17.11	16.11	89.61	437.23	236.58	609.02	576.59	32.43	18.777			
11,100.00	11,061.15	11,084.89	11,061.15	17.19	16.20	89.61	437.23	236.58	609.02	576.42	32.60	18.680			
11,200.00	11,161.15	11,184.89	11,161.15	17.27	16.29	89.61	437.23	236.58	609.02	576.25	32.77	18.584			
11,300.00	11,261.15	11,284.89	11,261.15	17.36	16.37	89.61	437.23	236.58	609.02	576.08	32.94	18.489			
11,400.00	11,361.15	11,384.89	11,361.15	17.44	16.46	89.61	437.23	236.58	609.02	575.92	33.11	18.395			
11,500.00	11,461.15	11,484.89	11,461.15	17.52	16.55	89.61	437.23	236.58	609.02	575.75	33.28	18.302			
11,600.00	11,561.15	11,584.89	11,561.15	17.60	16.64	89.61	437.23	236.58	609.02	575.58	33.45	18.209			
11,700.00	11,661.15	11,684.89	11,661.15	17.69	16.73	89.61	437.23	236.58	609.02	575.41	33.61	18.118			
11,800.00	11,761.15	11,784.89	11,761.15	17.77	16.81	89.61	437.23	236.58	609.02	575.24	33.78	18.028			
11,900.00	11,861.15	11,884.89	11,861.15	17.85	16.90	89.61	437.23	236.58	609.02	575.07	33.95	17.939			
12,000.00	11,961.14	11,984.86	11,961.11	17.90	16.96	-89.92	436.94	236.58	609.02	574.96	34.06	17.881			
12,082.58	12,043.11	12,067.37	12,043.11	17.93	17.00	-90.00	428.42	236.66	609.02	575.07	33.95	17.939			
12,100.00	12,060.18	12,084.79	12,060.22	17.93	17.01	-90.02	425.11	236.68	609.02	575.10	33.92	17.954			
12,200.00	12,155.47	12,184.91	12,155.93	17.96	17.06	-90.12	396.19	236.93	609.02	575.37	33.66	18.095			
12,300.00	12,244.13	12,285.21	12,245.32	17.98	17.11	-90.21	350.98	237.32	609.03	575.72	33.31	18.283			
12,400.00	12,323.46	12,385.69	12,325.60	18.01	17.16	-90.30	290.77	237.84	609.03	576.09	32.94	18.490			
12,500.00	12,391.0														

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 215H
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 215H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

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

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	12,532.02	15,389.73	12,538.02	40.58	41.93	-90.56	-2,658.51	263.24	609.05	526.99	82.06	7.422			
15,500.00	12,532.89	15,489.73	12,538.89	41.82	43.19	-90.56	-2,758.50	264.10	609.05	524.46	84.59	7.200			
15,600.00	12,533.77	15,589.73	12,539.76	43.08	44.46	-90.56	-2,858.49	264.96	609.05	521.93	87.13	6.990			
15,700.00	12,534.64	15,689.73	12,540.64	44.34	45.74	-90.56	-2,958.49	265.82	609.05	519.37	89.68	6.791			
15,800.00	12,535.51	15,789.73	12,541.51	45.60	47.02	-90.56	-3,058.48	266.68	609.05	516.81	92.24	6.603			
15,900.00	12,536.39	15,889.73	12,542.38	46.87	48.31	-90.56	-3,158.47	267.54	609.05	514.24	94.81	6.424			
16,000.00	12,537.26	15,989.73	12,543.26	48.15	49.60	-90.56	-3,258.46	268.40	609.05	511.66	97.39	6.254			
16,100.00	12,538.13	16,089.73	12,544.13	49.43	50.90	-90.56	-3,358.46	269.26	609.05	509.07	99.98	6.092			
16,200.00	12,539.01	16,189.73	12,545.00	50.72	52.20	-90.56	-3,458.45	270.12	609.05	506.48	102.58	5.937			
16,300.00	12,539.88	16,289.73	12,545.88	52.01	53.50	-90.56	-3,558.44	270.98	609.05	503.87	105.18	5.790			
16,400.00	12,540.75	16,389.73	12,546.75	53.30	54.81	-90.56	-3,658.43	271.85	609.05	501.26	107.79	5.650			
16,500.00	12,541.63	16,489.73	12,547.62	54.60	56.12	-90.56	-3,758.43	272.71	609.06	498.64	110.41	5.516			
16,600.00	12,542.50	16,589.73	12,548.50	55.90	57.43	-90.56	-3,858.42	273.57	609.06	496.02	113.03	5.388			
16,700.00	12,543.37	16,689.73	12,549.37	57.21	58.74	-90.56	-3,958.41	274.43	609.06	493.39	115.66	5.266			
16,800.00	12,544.25	16,789.73	12,550.24	58.52	60.06	-90.56	-4,058.40	275.29	609.06	490.76	118.30	5.149			
16,900.00	12,545.12	16,889.73	12,551.12	59.83	61.38	-90.56	-4,158.40	276.15	609.06	488.12	120.93	5.036			
17,000.00	12,545.99	16,989.73	12,551.99	61.14	62.70	-90.56	-4,258.39	277.01	609.06	485.48	123.58	4.929			
17,100.00	12,546.87	17,089.73	12,552.86	62.46	64.03	-90.56	-4,358.38	277.87	609.06	482.83	126.22	4.825			
17,200.00	12,547.74	17,189.73	12,553.74	63.78	65.35	-90.56	-4,458.37	278.73	609.06	480.18	128.87	4.726			
17,300.00	12,548.61	17,289.73	12,554.61	65.10	66.68	-90.56	-4,558.37	279.59	609.06	477.53	131.53	4.631			
17,400.00	12,549.49	17,389.73	12,555.48	66.42	68.01	-90.56	-4,658.36	280.46	609.06	474.87	134.19	4.539			
17,500.00	12,550.36	17,489.73	12,556.36	67.75	69.34	-90.56	-4,758.35	281.32	609.06	472.21	136.85	4.451			
17,600.00	12,551.23	17,589.73	12,557.23	69.07	70.67	-90.56	-4,858.34	282.18	609.06	469.55	139.51	4.366			
17,700.00	12,552.11	17,6													

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 215H
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 215H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

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

Offset Site Error: 0.00 usft

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)					
20,600.00	12,577.43	20,589.73	12,583.43	109.37	111.07	-90.56	-7,858.12	308.01	609.06	388.77	220.29	2.765			
20,700.00	12,578.30	20,689.73	12,584.31	110.72	112.42	-90.56	-7,958.11	308.87	609.06	386.06	223.00	2.731			
20,800.00	12,579.18	20,789.73	12,585.18	112.08	113.78	-90.56	-8,058.10	309.73	609.06	383.34	225.71	2.698			
20,900.00	12,580.05	20,889.73	12,586.05	113.43	115.13	-90.56	-8,158.09	310.59	609.06	380.63	228.43	2.666			
21,000.00	12,580.92	20,989.73	12,586.93	114.79	116.49	-90.56	-8,258.09	311.45	609.06	377.92	231.14	2.635			
21,100.00	12,581.80	21,089.73	12,587.80	116.14	117.85	-90.56	-8,358.08	312.31	609.06	375.21	233.85	2.604			
21,200.00	12,582.67	21,189.73	12,588.67	117.50	119.20	-90.56	-8,458.07	313.17	609.06	372.49	236.56	2.575			
21,300.00	12,583.54	21,289.73	12,589.55	118.85	120.56	-90.56	-8,558.06	314.03	609.06	369.78	239.28	2.545			
21,400.00	12,584.42	21,389.73	12,590.42	120.21	121.92	-90.56	-8,658.06	314.89	609.06	367.06	241.99	2.517			
21,500.00	12,585.29	21,489.73	12,591.29	121.56	123.28	-90.56	-8,758.05	315.76	609.06	364.35	244.71	2.489			
21,600.00	12,586.16	21,589.73	12,592.17	122.92	124.63	-90.56	-8,858.04	316.62	609.06	361.63	247.42	2.462			
21,700.00	12,587.04	21,689.73	12,593.04	124.28	125.99	-90.56	-8,958.03	317.48	609.06	358.92	250.14	2.435			
21,800.00	12,587.91	21,789.73	12,593.91	125.63	127.35	-90.56	-9,058.03	318.34	609.06	356.20	252.86	2.409			
21,900.00	12,588.78	21,889.73	12,594.79	126.99	128.71	-90.56	-9,158.02	319.20	609.06	353.48	255.58	2.383			
22,000.00	12,589.66	21,989.73	12,595.66	128.35	130.07	-90.56	-9,258.01	320.06	609.06	350.76	258.29	2.358			
22,100.00	12,590.53	22,089.73	12,596.53	129.71	131.43	-90.56	-9,358.00	320.92	609.06	348.05	261.01	2.333			
22,200.00	12,591.40	22,189.73	12,597.41	131.07	132.79	-90.56	-9,458.00	321.78	609.06	345.33	263.73	2.309			
22,300.00	12,592.28	22,289.73	12,598.28	132.42	134.15	-90.56	-9,557.99	322.64	609.06	342.61	266.45	2.286			
22,400.00	12,593.15	22,389.73	12,599.15	133.78	135.51	-90.56	-9,657.98	323.50	609.06	339.89	269.17	2.263			
22,500.00	12,594.02	22,489.73	12,600.03	135.14	136.87	-90.57	-9,757.97	324.36	609.06	337.17	271.89	2.240			
22,600.00	12,594.89	22,589.73	12,600.90	136.50	138.23	-90.57	-9,857.97	325.23	609.06	334.45	274.61	2.218			
22,700.00	12,595.77	22,689.73	12,601.77	137.86	139.59	-90.57	-9,957.96	326.09	609.06	331.73	277.33	2.196			
22,800.00	12,596.64	22,789.73	12,602.65	139.22	140.95	-90.57	-10,057.95	326.95	609.06	329.01	280.05	2.175			
22,800.01	12,596.64	22,789.74	12,602.65	139.22	140.95	-90.57	-10,057.96	326.95	609.06	329.01	280.05	2.175			
22,806.75	12,596.70	22,796.26	12,602.70	139.31	141.04	-90.57	-10,064.48	327.00	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 215H
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 215H	Survey Calculation Method:	Minimum 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:	
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)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
1,400.00	1,396.13	2,044.37	2,027.32	4.97	6.03	112.81	878.37	2,225.47	2,503.16	2,492.69	10.46	239.253		
1,500.00	1,495.05	2,140.43	2,120.10	5.11	6.23	113.36	864.80	2,204.64	2,483.38	2,472.58	10.79	230.095		
1,600.00	1,593.95	2,236.46	2,212.87	5.33	6.46	113.82	851.22	2,183.81	2,463.82	2,452.59	11.23	219.323		
1,700.00	1,692.86	2,332.50	2,305.63	5.54	6.73	114.29	837.65	2,162.99	2,444.42	2,432.76	11.66	209.613		
1,800.00	1,791.76	2,428.54	2,398.39	5.76	7.01	114.76	824.08	2,142.16	2,425.19	2,413.10	12.10	200.503		
1,900.00	1,890.66	2,524.57	2,491.16	5.97	7.30	115.24	810.51	2,121.33	2,406.13	2,393.60	12.53	192.010		
2,000.00	1,989.56	2,620.61	2,583.92	6.18	7.60	115.73	796.94	2,100.51	2,387.24	2,374.27	12.97	184.077		
2,100.00	2,088.46	2,716.65	2,676.69	6.39	7.90	116.22	783.37	2,079.68	2,368.53	2,355.12	13.41	176.651		
2,200.00	2,187.36	2,812.68	2,769.45	6.60	8.20	116.73	769.80	2,058.86	2,350.00	2,336.15	13.85	169.688		
2,300.00	2,286.26	2,908.72	2,862.22	6.81	8.51	117.24	756.23	2,038.03	2,331.66	2,317.37	14.29	163.146		
2,400.00	2,385.16	3,004.76	2,954.98	7.02	8.82	117.76	742.65	2,017.20	2,313.51	2,298.77	14.74	156.990		
2,500.00	2,484.06	3,100.80	3,047.74	7.23	9.14	118.28	729.08	1,996.38	2,295.55	2,280.36	15.18	151.187		
2,600.00	2,582.96	3,196.83	3,140.51	7.44	9.46	118.82	715.51	1,975.55	2,277.79	2,262.16	15.63	145.708		
2,700.00	2,681.87	3,292.87	3,233.27	7.65	9.77	119.36	701.94	1,954.73	2,260.23	2,244.15	16.08	140.529		
2,800.00	2,780.77	3,388.91	3,326.04	7.85	10.10	119.91	688.37	1,933.90	2,242.89	2,226.35	16.54	135.627		
2,900.00	2,879.67	3,484.94	3,418.80	8.06	10.42	120.46	674.80	1,913.08	2,225.76	2,208.76	16.99	130.981		
3,000.00	2,978.57	3,580.98	3,511.57	8.27	10.74	121.03	661.23	1,892.25	2,208.85	2,191.39	17.45	126.573		
3,100.00	3,077.47	3,677.02	3,604.33	8.47	11.07	121.60	647.65	1,871.42	2,192.16	2,174.24	17.91	122.385		
3,200.00	3,176.37	3,773.05	3,697.09	8.68	11.40	122.19	634.08	1,850.60	2,175.70	2,157.32	18.38	118.402		
3,300.00	3,275.27	3,869.09	3,789.86	8.89	11.73	122.78	620.51	1,829.77	2,159.47	2,140.63	18.84	114.612		
3,400.00	3,374.17	3,965.13	3,882.62	9.09	12.06	123.38	606.94	1,808.95	2,143.49	2,124.18	19.31	111.001		
3,500.00	3,473.07	4,061.17	3,975.39	9.30	12.39	123.99	593.37	1,788.12	2,127.75	2,107.96	19.78	107.557		
3,600.00	3,571.97	4,157.20	4,068.15	9.50	12.72	124.60	579.80	1,767.29	2,112.26	2,092.00	20.26	104.271		
3,700.00	3,670.87	4,253.24	4,160.91	9.71	13.05	125.23	566.23	1,746.47	2,097.02	2,076.29	20.74	101.133		
3,800.00	3,769.78	4,349.28	4,253.68	9.91	13.39	125.86	552.65	1,725.64	2,082.05	2,060.83	21.22	98.134		
3,900.00	3,868.68	4,445.31	4,346.44	10.12	13.72	126.50	539.08	1,704.82	2,067.34	2,045.64	21.70	95.266		
4,000.00	3,967.58	4,541.35	4,439.21	10.33	14.06	127.15	525.51	1,683.99	2,052.91	2,030.72	22.19	92.523		
4,100.00	4,066.48	4,624.91	4,519.95	10.53	14.35	127.72	513.75	1,665.94	2,038.88	2,016.22	22.65	89.998		
4,200.00	4,165.38	4,700.00	4,592.79	10.74	14.60	128.23	503.81	1,650.68	2,026.35	2,003.24	23.11	87.683		
4,300.00	4,264.28	4,756.75	4,648.07	10.94	14.77	128.60	496.81	1,639.95	2,015.48	1,991.97	23.52	85.708		
4,400.00	4,363.18	4,823.39	4,713.22	11.14	14.97	129.02	489.17	1,628.22	2,006.37	1,982.44	23.93	83.848		
4,500.00	4,462.28	4,900.00	4,788.41	11.36	15.19	129.36	481.15	1,615.91	1,998.10	1,973.74	24.36	82.028		
4,600.00	4,561.69	4,958.33	4,845.85	11.56	15.33	129.56	475.60	1,607.40	1,989.78	1,965.06	24.72	80.502		
4,700.00	4,661.35	5,026.60	4,913.26	11.76	15.50	129.75	469.71	1,598.36	1,981.45	1,956.38	25.07	79.041		
4,800.00	4,761.20	5,100.00	4,985.94	11.95	15.66	129.90	464.11	1,589.77	1,973.07	1,947.67	25.40	77.676		
4,900.00	4,861.15	5,164.36	5,049.82	12.12	15.79	129.96	459.83	1,583.21	1,964.57	1,938.89	25.68	76.515		
5,000.00	4,961.15	5,233.71	5,118.79	12.19	15.91	89.33	455.88	1,577.14	1,956.07	1,930.20	25.87	75.613		
5,100.00	5,061.15	5,300.00	5,184.83	12.27	16.02	89.42	452.74	1,572.33	1,948.78	1,922.72	26.06	74.766		
5,200.00	5,161.15	5,373.08	5,257.74	12.35	16.12	89.50	450.01	1,568.13	1,943.04	1,916.78	26.26	73.994		
5,300.00	5,261.15	5,443.02	5,327.59	12.43	16.20	89.56	448.11	1,565.21	1,938.84	1,912.40	26.43	73.350		
5,400.00	5,361.15	5,500.00	5,384.54	12.52	16.27	89.59	447.07	1,563.62	1,936.25	1,909.68	26.56	72.888		
5,500.00	5,461.15	5,583.15	5,467.68	12.60	16.33	89.61	446.40	1,562.59	1,935.07	1,908.37	26.70	72.480		
5,542.65	5,503.80	5,619.28	5,503.80	12.63	16.34	89.61	446.38	1,562.56	1,935.04	1,908.29	26.75	72.351		
5,600.00	5,561.15	5,676.62	5,561.15	12.68	16.37	89.61	446.38	1,562.56	1,935.04	1,908.22	26.81	72.170		
5,700.00	5,661.15	5,776.62	5,661.15	12.76	16.40	89.61	446.38	1,562.56	1,935.04	1,908.11	26.93	71.857		
5,800.00	5,761.15	5,876.62	5,761.15	12.84	16.44	89.61	446.38	1,562.56	1,935.04	1,907.99	27.05	71.545		
5,900.00	5,861.15	5,976.62	5,861.15	12.93	16.48	89.61	446.38	1,562.56	1,935.04	1,907.87	27.16	71.235		
6,000.00	5,961.15	6,076.62	5,961.15	13.01	16.51	89.61	446.38	1,562.56	1,935.04	1,907.75	27.28	70.927		
6,100.00	6,061.15	6,176.62	6,061.15	13.09	16.55	89.61	446.38	1,562.56	1,935.04	1,907.64	27.40	70.620		
6,200.00	6,161.15	6,276.62	6,161.15	13.17	16.59	89.61	446.38	1,562.56	1,935.04	1,907.52	27.52	70.315		
6,300.00	6,261.15	6,376.62	6,261.15	13.25	16.63	89.61	446.38	1,562.56	1,935.04	1,907.40	27.64	70.012		
6,400.00	6,361.15	6,476.62	6,361.15	13.33	16.66	89.61	446.38	1,562.56	1,935.04	1,907.28	27.76	69.710		

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 215H
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 215H	Survey Calculation Method:	Minimum 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)				
6,500.00	6,461.15	6,576.62	6,461.15	13.42	16.70	89.61	446.38	1,562.56	1,935.04	1,907.16	27.88	69.411		
6,600.00	6,561.15	6,676.62	6,561.15	13.50	16.74	89.61	446.38	1,562.56	1,935.04	1,907.04	28.00	69.112		
6,700.00	6,661.15	6,776.62	6,661.15	13.58	16.78	89.61	446.38	1,562.56	1,935.04	1,906.92	28.12	68.816		
6,800.00	6,761.15	6,876.62	6,761.15	13.66	16.82	89.61	446.38	1,562.56	1,935.04	1,906.80	28.24	68.521		
6,900.00	6,861.15	6,976.62	6,861.15	13.74	16.86	89.61	446.38	1,562.56	1,935.04	1,906.67	28.36	68.228		
7,000.00	6,961.15	7,076.62	6,961.15	13.83	16.90	89.61	446.38	1,562.56	1,935.04	1,906.55	28.48	67.937		
7,100.00	7,061.15	7,176.62	7,061.15	13.91	16.94	89.61	446.38	1,562.56	1,935.04	1,906.43	28.60	67.647		
7,200.00	7,161.15	7,276.62	7,161.15	13.99	16.98	89.61	446.38	1,562.56	1,935.04	1,906.31	28.73	67.359		
7,300.00	7,261.15	7,376.62	7,261.15	14.07	17.03	89.61	446.38	1,562.56	1,935.04	1,906.19	28.85	67.073		
7,400.00	7,361.15	7,476.62	7,361.15	14.15	17.07	89.61	446.38	1,562.56	1,935.04	1,906.06	28.97	66.788		
7,500.00	7,461.15	7,576.62	7,461.15	14.24	17.11	89.61	446.38	1,562.56	1,935.04	1,905.94	29.10	66.505		
7,600.00	7,561.15	7,676.62	7,561.15	14.32	17.15	89.61	446.38	1,562.56	1,935.04	1,905.82	29.22	66.223		
7,700.00	7,661.15	7,776.62	7,661.15	14.40	17.19	89.61	446.38	1,562.56	1,935.04	1,905.69	29.34	65.944		
7,800.00	7,761.15	7,876.62	7,761.15	14.48	17.24	89.61	446.38	1,562.56	1,935.04	1,905.57	29.47	65.666		
7,900.00	7,861.15	7,976.62	7,861.15	14.56	17.28	89.61	446.38	1,562.56	1,935.04	1,905.44	29.59	65.389		
8,000.00	7,961.15	8,076.62	7,961.15	14.65	17.32	89.61	446.38	1,562.56	1,935.04	1,905.32	29.72	65.114		
8,100.00	8,061.15	8,176.62	8,061.15	14.73	17.37	89.61	446.38	1,562.56	1,935.04	1,905.19	29.84	64.841		
8,200.00	8,161.15	8,276.62	8,161.15	14.81	17.41	89.61	446.38	1,562.56	1,935.04	1,905.07	29.97	64.569		
8,300.00	8,261.15	8,376.62	8,261.15	14.89	17.46	89.61	446.38	1,562.56	1,935.04	1,904.94	30.09	64.299		
8,400.00	8,361.15	8,476.62	8,361.15	14.98	17.50	89.61	446.38	1,562.56	1,935.04	1,904.82	30.22	64.031		
8,500.00	8,461.15	8,576.62	8,461.15	15.06	17.55	89.61	446.38	1,562.56	1,935.04	1,904.69	30.35	63.764		
8,600.00	8,561.15	8,676.62	8,561.15	15.14	17.59	89.61	446.38	1,562.56	1,935.04	1,904.56	30.47	63.499		
8,700.00	8,661.15	8,776.62	8,661.15	15.22	17.64	89.61	446.38	1,562.56	1,935.04	1,904.44	30.60	63.235		
8,800.00	8,761.15	8,876.62	8,761.15	15.30	17.68	89.61	446.38	1,562.56	1,935.04	1,904.31	30.73	62.973		
8,900.00	8,861.15	8,976.62	8,861.15	15.39	17.73	89.61	446.38	1,562.56	1,935.04	1,904.18	30.86	62.713		
9,000.00	8,961.15	9,076.62	8,961.15	15.47	17.77	89.61	446.38	1,562.56	1,935.04	1,904.05	30.98	62.454		
9,100.00	9,061.15	9,176.62	9,061.15	15.55	17.82	89.61	446.38	1,562.56	1,935.04	1,903.92	31.11	62.196		
9,200.00	9,161.15	9,276.62	9,161.15	15.63	17.87	89.61	446.38	1,562.56	1,935.04	1,903.80	31.24	61.941		
9,300.00	9,261.15	9,376.62	9,261.15	15.71	17.91	89.61	446.38	1,562.56	1,935.04	1,903.67	31.37	61.686		
9,400.00	9,361.15	9,476.62	9,361.15	15.80	17.96	89.61	446.38	1,562.56	1,935.04	1,903.54	31.50	61.434		
9,500.00	9,461.15	9,576.62	9,461.15	15.88	18.01	89.61	446.38	1,562.56	1,935.04	1,903.41	31.63	61.182		
9,600.00	9,561.15	9,676.62	9,561.15	15.96	18.06	89.61	446.38	1,562.56	1,935.04	1,903.28	31.76	60.933		
9,700.00	9,661.15	9,776.62	9,661.15	16.04	18.10	89.61	446.38	1,562.56	1,935.04	1,903.15	31.89	60.685		
9,800.00	9,761.15	9,876.62	9,761.15	16.12	18.15	89.61	446.38	1,562.56	1,935.04	1,903.02	32.02	60.438		
9,900.00	9,861.15	9,976.62	9,861.15	16.21	18.20	89.61	446.38	1,562.56	1,935.04	1,902.89	32.15	60.193		
10,000.00	9,961.15	10,076.62	9,961.15	16.29	18.25	89.61	446.38	1,562.56	1,935.04	1,902.76	32.28	59.949		
10,100.00	10,061.15	10,176.62	10,061.15	16.37	18.30	89.61	446.38	1,562.56	1,935.04	1,902.63	32.41	59.707		
10,200.00	10,161.15	10,276.62	10,161.15	16.45	18.35	89.61	446.38	1,562.56	1,935.04	1,902.50	32.54	59.466		
10,300.00	10,261.15	10,376.62	10,261.15	16.54	18.40	89.61	446.38	1,562.56	1,935.04	1,902.36	32.67	59.227		
10,400.00	10,361.15	10,476.62	10,361.15	16.62	18.45	89.61	446.38	1,562.56	1,935.04	1,902.23	32.80	58.989		
10,500.00	10,461.15	10,576.62	10,461.15	16.70	18.50	89.61	446.38	1,562.56	1,935.04	1,902.10	32.94	58.753		
10,600.00	10,561.15	10,676.62	10,561.15	16.78	18.55	89.61	446.38	1,562.56	1,935.04	1,901.97	33.07	58.518		
10,700.00	10,661.15	10,776.62	10,661.15	16.86	18.60	89.61	446.38	1,562.56	1,935.04	1,901.84	33.20	58.285		
10,800.00	10,761.15	10,876.62	10,761.15	16.95	18.65	89.61	446.38	1,562.56	1,935.04	1,901.70	33.33	58.053		
10,900.00	10,861.15	10,976.62	10,861.15	17.03	18.70	89.61	446.38	1,562.56	1,935.04	1,901.57	33.47	57.822		
11,000.00	10,961.15	11,076.62	10,961.15	17.11	18.75	89.61	446.38	1,562.56	1,935.04	1,901.44	33.60	57.593		
11,100.00	11,061.15	11,176.62	11,061.15	17.19	18.80	89.61	446.38	1,562.56	1,935.04	1,901.30	33.73	57.365		
11,200.00	11,161.15	11,276.62	11,161.15	17.27	18.85	89.61	446.38	1,562.56	1,935.04	1,901.17	33.87	57.139		
11,300.00	11,261.15	11,376.62	11,261.15	17.36	18.90	89.61	446.38	1,562.56	1,935.04	1,901.04	34.00	56.914		
11,400.00	11,361.15	11,476.62	11,361.15	17.44	18.95	89.61	446.38	1,562.56	1,935.04	1,900.90	34.13	56.690		
11,500.00	11,461.15	11,576.62	11,461.15	17.52	19.01	89.61	446.38	1,562.56	1,935.04	1,900.77	34.27	56.468		
11,600.00	11,561.15	11,676.62	11,561.15	17.60	19.06	89.61	446.38	1,562.56	1,935.04	1,900.63	34.40	56.247		

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 215H
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 215H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan 1	Offset TVD Reference:	Reference Datum

Offset Design: Junior Mint Fed Pad - Junior Mint Fed 213H - OH - Plan 1														Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)				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		
11,700.00	11,661.15	11,776.62	11,661.15	17.69	19.11	89.61	446.38	1,562.56	1,935.04	1,900.50	34.54	56.028			
11,800.00	11,761.15	11,876.62	11,761.15	17.77	19.16	89.61	446.38	1,562.56	1,935.04	1,900.36	34.67	55.810			
11,900.00	11,861.15	11,976.62	11,861.15	17.85	19.22	89.61	446.38	1,562.56	1,935.04	1,900.23	34.81	55.595	CC		
12,000.00	11,961.14	12,075.61	11,959.88	17.90	19.32	-89.75	440.92	1,562.61	1,935.05	1,900.14	34.91	55.432			
12,100.00	12,060.18	12,172.82	12,054.57	17.93	19.51	-89.48	419.46	1,562.80	1,935.12	1,900.16	34.96	55.350			
12,200.00	12,155.47	12,268.60	12,143.01	17.96	19.76	-89.22	382.97	1,563.13	1,935.24	1,900.20	35.04	55.236			
12,300.00	12,244.13	12,363.12	12,223.13	17.98	20.07	-88.98	333.02	1,563.58	1,935.39	1,900.23	35.15	55.054			
12,400.00	12,323.46	12,456.58	12,293.22	18.01	20.46	-88.77	271.36	1,564.13	1,935.55	1,900.20	35.35	54.758			
12,500.00	12,391.04	12,550.00	12,352.35	18.04	20.93	-88.60	199.17	1,564.78	1,935.70	1,900.05	35.66	54.287			
12,600.00	12,444.83	12,641.06	12,397.96	18.09	21.48	-88.47	120.48	1,565.49	1,935.85	1,899.75	36.10	53.626			
12,700.00	12,483.18	12,732.48	12,430.65	18.16	22.12	-88.39	35.20	1,566.26	1,935.96	1,899.25	36.71	52.735			
12,800.00	12,504.94	12,823.64	12,449.33	18.27	22.84	-88.34	-53.92	1,567.06	1,936.03	1,898.54	37.49	51.635			
12,900.00	12,510.19	12,916.80	12,454.07	18.42	23.64	-88.34	-146.88	1,567.90	1,936.07	1,897.61	38.47	50.329			
13,000.00	12,511.06	13,016.80	12,454.60	18.62	24.55	-88.33	-246.87	1,568.80	1,936.12	1,896.42	39.71	48.762			
13,100.00	12,511.94	13,116.80	12,455.13	18.88	25.52	-88.32	-346.87	1,569.70	1,936.17	1,895.08	41.09	47.123			
13,200.00	12,512.81	13,216.80	12,455.65	19.20	26.52	-88.31	-446.86	1,570.59	1,936.22	1,893.62	42.60	45.448			
13,300.00	12,513.68	13,316.80	12,456.18	19.61	27.56	-88.30	-546.86	1,571.49	1,936.27	1,892.03	44.24	43.768			
13,400.00	12,514.56	13,416.80	12,456.70	20.11	28.62	-88.29	-646.85	1,572.39	1,936.32	1,890.33	45.99	42.107			
13,500.00	12,515.43	13,516.80	12,457.23	20.70	29.71	-88.28	-746.84	1,573.29	1,936.37	1,888.54	47.83	40.484			
13,600.00	12,516.30	13,616.80	12,457.76	21.37	30.82	-88.27	-846.84	1,574.19	1,936.42	1,886.65	49.76	38.914			
13,700.00	12,517.18	13,716.80	12,458.28	22.12	31.95	-88.26	-946.83	1,575.09	1,936.46	1,884.69	51.77	37.404			
13,800.00	12,518.05	13,816.80	12,458.81	22.93	33.10	-88.25	-1,046.83	1,575.99	1,936.51	1,882.66	53.85	35.961			
13,900.00	12,518.92	13,916.80	12,459.33	23.80	34.26	-88.24	-1,146.82								

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 215H
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 215H	Survey Calculation Method:	Minimum 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)			
16,900.00	12,545.12	16,916.78	12,475.12	59.83	72.53	-87.93	-4,146.64	1,603.87	1,938.07	1,806.73	131.34	14.756	
17,000.00	12,545.99	17,016.78	12,475.65	61.14	73.86	-87.92	-4,246.63	1,604.77	1,938.12	1,804.12	133.99	14.464	
17,100.00	12,546.87	17,116.78	12,476.17	62.46	75.19	-87.91	-4,346.63	1,605.67	1,938.17	1,801.52	136.65	14.184	
17,200.00	12,547.74	17,216.78	12,476.70	63.78	76.52	-87.90	-4,446.62	1,606.57	1,938.22	1,798.91	139.31	13.913	
17,300.00	12,548.61	17,316.77	12,477.22	65.10	77.85	-87.89	-4,546.61	1,607.47	1,938.27	1,796.30	141.97	13.653	
17,400.00	12,549.49	17,416.77	12,477.75	66.42	79.18	-87.88	-4,646.61	1,608.37	1,938.32	1,793.69	144.63	13.402	
17,500.00	12,550.36	17,516.77	12,478.28	67.75	80.51	-87.87	-4,746.60	1,609.27	1,938.37	1,791.07	147.30	13.159	
17,600.00	12,551.23	17,616.77	12,478.80	69.07	81.85	-87.86	-4,846.60	1,610.17	1,938.42	1,788.45	149.97	12.925	
17,700.00	12,552.11	17,716.77	12,479.33	70.40	83.18	-87.85	-4,946.59	1,611.07	1,938.48	1,785.83	152.64	12.699	
17,800.00	12,552.98	17,816.77	12,479.86	71.73	84.52	-87.84	-5,046.58	1,611.97	1,938.53	1,783.21	155.32	12.481	
17,900.00	12,553.85	17,916.77	12,480.38	73.06	85.85	-87.83	-5,146.58	1,612.87	1,938.58	1,780.58	158.00	12.270	
18,000.00	12,554.73	18,016.77	12,480.91	74.40	87.19	-87.82	-5,246.57	1,613.77	1,938.63	1,777.96	160.67	12.066	
18,100.00	12,555.60	18,116.77	12,481.43	75.73	88.53	-87.81	-5,346.57	1,614.67	1,938.68	1,775.33	163.36	11.868	
18,200.00	12,556.47	18,216.77	12,481.96	77.06	89.87	-87.80	-5,446.56	1,615.57	1,938.73	1,772.70	166.04	11.676	
18,300.00	12,557.35	18,316.77	12,482.49	78.40	91.21	-87.79	-5,546.55	1,616.47	1,938.79	1,770.06	168.72	11.491	
18,400.00	12,558.22	18,416.77	12,483.01	79.74	92.56	-87.78	-5,646.55	1,617.36	1,938.84	1,767.43	171.41	11.311	
18,500.00	12,559.09	18,516.77	12,483.54	81.08	93.90	-87.77	-5,746.54	1,618.26	1,938.89	1,764.79	174.10	11.137	
18,600.00	12,559.97	18,616.77	12,484.07	82.42	95.24	-87.76	-5,846.54	1,619.16	1,938.94	1,762.16	176.78	10.968	
18,700.00	12,560.84	18,716.77	12,484.59	83.76	96.59	-87.75	-5,946.53	1,620.06	1,938.99	1,759.52	179.47	10.804	
18,800.00	12,561.71	18,816.77	12,485.12	85.10	97.93	-87.74	-6,046.52	1,620.96	1,939.05	1,756.88	182.17	10.644	
18,900.00	12,562.59	18,916.76	12,485.64	86.44	99.28	-87.73	-6,146.52	1,621.86	1,939.10	1,754.24	184.86	10.490	
19,000.00	12,563.46	19,016.76	12,486.17	87.79	100.62	-87.72	-6,246.51	1,622.76	1,939.15	1,751.60	187.55	10.339	
19,100.00	12,564.33	19,116.76	12,486.70	89.13	101.97								

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 215H
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 215H	Survey Calculation Method:	Minimum 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)													Offset Site Error:	0.00 usft
Reference													Offset Well Error:	0.50 usft
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
22,100.00	12,590.53	22,116.75	12,502.48	129.71	142.57	-87.40	-9,346.33	1,650.64	1,940.80	1,669.33	271.47	7.149		
22,200.00	12,591.40	22,216.74	12,503.01	131.07	143.93	-87.39	-9,446.32	1,651.54	1,940.85	1,666.67	274.18	7.079		
22,300.00	12,592.28	22,316.74	12,503.53	132.42	145.29	-87.38	-9,546.31	1,652.44	1,940.91	1,664.01	276.90	7.009		
22,400.00	12,593.15	22,416.74	12,504.06	133.78	146.65	-87.37	-9,646.31	1,653.34	1,940.96	1,661.35	279.62	6.942		
22,500.00	12,594.02	22,516.74	12,504.59	135.14	148.01	-87.36	-9,746.30	1,654.24	1,941.02	1,658.69	282.33	6.875		
22,600.00	12,594.89	22,616.74	12,505.11	136.50	149.37	-87.35	-9,846.30	1,655.14	1,941.07	1,656.02	285.05	6.810		
22,700.00	12,595.77	22,716.74	12,505.64	137.86	150.72	-87.34	-9,946.29	1,656.04	1,941.13	1,653.36	287.77	6.746		
22,800.00	12,596.64	22,816.74	12,506.16	139.22	152.07	-87.33	-10,046.28	1,656.94	1,941.18	1,650.72	290.46	6.683		
22,806.75	12,596.70	22,823.46	12,506.20	139.31	152.16	-87.33	-10,053.00	1,657.00	1,941.19	1,650.55	290.63	6.679	ES, SF	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Junior Mint Fed 215H
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 215H	Survey Calculation Method:	Minimum 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)													Offset Site Error: 0.00 usft		
Reference													Offset Well Error: 0.50 usft		
Measured		Vertical		Reference		Offset		Highside		Offset Wellbore Centre		Rule Assigned:		Warning	
Depth	Vertical	Measured	Vertical	Depth	Offset	Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation			
(usft)	(usft)	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Separation	Factor			
									(usft)	(usft)	(usft)				
0.00	0.00	0.00	0.00	0.50	0.50	69.94	856.00	2,344.00	2,495.41						
100.00	100.00	100.00	100.00	0.98	0.98	69.94	856.00	2,344.00	2,495.41	2,493.45	1.96	1,271.751			
200.00	200.00	200.00	200.00	1.56	1.56	69.94	856.00	2,344.00	2,495.41	2,492.29	3.12	799.235			
300.00	300.00	300.00	300.00	1.98	1.98	69.94	856.00	2,344.00	2,495.41	2,491.45	3.96	629.785	CC, ES		
400.00	399.99	366.64	366.64	2.41	2.26	110.64	855.80	2,344.55	2,496.54	2,491.95	4.58	544.502			
500.00	499.91	433.11	433.09	2.79	2.53	110.67	855.21	2,346.18	2,499.93	2,494.79	5.14	486.634			
600.00	599.69	500.00	499.91	3.12	2.77	110.73	854.21	2,348.92	2,505.59	2,499.95	5.65	443.773			
700.00	699.32	597.98	597.76	3.26	3.03	110.95	852.46	2,353.74	2,512.69	2,506.65	6.04	415.845	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 215H
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 215H	Survey Calculation Method:	Minimum 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		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Major Axis (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	0.00	0.50	0.50	0.00	185.00	0.00	185.00				
100.00	100.00	101.00	100.00	0.98	0.99	0.00	185.00	0.00	185.00	183.03	1.97	94.021	
200.00	200.00	201.00	200.00	1.56	1.57	0.00	185.00	0.00	185.00	181.87	3.13	59.173	
300.00	300.00	301.00	300.00	1.98	1.98	0.00	185.00	0.00	185.00	181.03	3.97	46.649	
400.00	399.99	400.99	399.99	2.41	2.33	40.97	185.00	0.00	184.01	179.30	4.71	39.067	
500.00	499.91	500.91	499.91	2.79	2.64	41.81	185.00	0.00	181.06	175.71	5.36	33.800	
600.00	599.69	600.69	599.69	3.12	2.91	43.27	185.00	0.00	176.24	170.30	5.94	29.679	
700.00	699.32	700.32	699.32	3.26	3.16	45.27	185.00	0.00	170.09	163.77	6.32	26.908	
800.00	798.94	799.94	798.94	3.51	3.40	47.43	185.00	0.00	164.06	157.26	6.80	24.123	
900.00	898.56	899.56	898.56	3.76	3.62	49.75	185.00	0.00	158.28	151.03	7.26	21.813	
1,000.00	998.18	999.06	998.06	3.99	3.76	52.25	185.00	0.05	152.79	145.18	7.62	20.062	
1,100.00	1,097.80	1,097.81	1,096.79	4.22	4.00	55.57	184.94	1.82	147.99	139.97	8.02	18.459	
1,200.00	1,197.42	1,196.10	1,194.99	4.45	4.23	60.03	184.79	6.11	144.47	136.06	8.41	17.175	
1,300.00	1,296.92	1,293.62	1,292.27	4.71	4.45	66.03	184.55	12.86	142.36	133.57	8.79	16.190	
1,369.53	1,365.93	1,361.58	1,359.97	4.89	4.54	71.25	184.35	18.73	141.93	132.90	9.02	15.729	CC
1,400.00	1,396.13	1,391.42	1,389.70	4.97	4.59	73.69	184.26	21.33	142.02	132.89	9.13	15.556	ES
1,500.00	1,495.05	1,489.10	1,487.01	5.11	4.76	82.03	183.96	29.84	144.04	134.61	9.43	15.273	
1,600.00	1,593.95	1,586.75	1,584.29	5.33	4.93	90.05	183.66	38.34	149.14	139.31	9.83	15.167	
1,700.00	1,692.86	1,684.41	1,681.57	5.54	5.11	97.43	183.36	46.85	157.05	146.81	10.24	15.332	
1,800.00	1,791.76	1,782.06	1,778.85	5.76	5.28	104.03	183.07	55.35	167.38	156.72	10.66	15.706	
1,900.00	1,890.66	1,879.71	1,876.13	5.97	5.46	109.82	182.77	63.86	179.71	168.64	11.07	16.233	
2,000.00	1,989.56	1,977.36	1,973.41	6.18	5.63	114.85	182.47	72.36	193.66	182.18	11.48	16.868	
2,100.00	2,088.46	2,075.01	2,070.69	6.39	5.81	119.18	182.18	80.87	208.90	197.01	11.89	17.573	
2,200.00	2,187.36	2,172.66	2,167.97	6.60	5.99	122.93	181.88	89.38	225.18	212.88	12.30	18.314	
2,300.00	2,286.26	2,266.64	2,261.54	6.81	6.16	126.00	181.82	98.02	242.78	230.10	12.68	19.142	
2,400.00	2,385.16	2,358.40	2,352.72	7.02	6.35	128.41	182.72	108.34	263.04	249.97	13.06	20.139	
2,500.00	2,484.06	2,449.48	2,442.96	7.23	6.54	130.27	184.58	120.51	285.79	272.35	13.43	21.272	
2,600.00	2,582.96	2,539.79	2,532.14	7.44	6.73	131.67	187.39	134.47	310.83	297.03	13.80	22.524	
2,700.00	2,681.87	2,629.24	2,620.12	7.65	6.92	132.67	191.11	150.14	337.99	323.84	14.16	23.875	
2,800.00	2,780.77	2,717.73	2,706.78	7.85	7.10	133.35	195.71	167.46	367.18	352.67	14.51	25.310	
2,900.00	2,879.67	2,805.21	2,792.02	8.06	7.29	133.77	201.15	186.33	398.28	383.43	14.85	26.818	
3,000.00	2,978.57	2,891.58	2,875.73	8.27	7.47	133.99	207.40	206.66	431.25	416.06	15.19	28.395	
3,100.00	3,077.47	2,984.93	2,965.90	8.47	7.65	134.11	214.70	229.69	465.27	449.71	15.57	29.886	
3,200.00	3,176.37	3,078.96	3,056.72	8.68	7.83	134.21	222.04	252.89	499.30	483.35	15.96	31.291	
3,300.00	3,275.27	3,172.98	3,147.55	8.89	8.01	134.30	229.39	276.09	533.34	516.99	16.35	32.624	
3,400.00	3,374.17	3,267.01	3,238.37	9.09	8.19	134.38	236.74	299.29	567.37	550.63	16.74	33.890	
3,500.00	3,473.07	3,361.04	3,329.20	9.30	8.40	134.45	244.09	322.50	601.40	584.27	17.14	35.097	
3,600.00	3,571.97	3,455.07	3,420.02	9.50	8.67	134.52	251.44	345.70	635.44	617.90	17.53	36.242	
3,700.00	3,670.87	3,549.10	3,510.84	9.71	8.94	134.57	258.79	368.90	669.47	651.54	17.93	37.333	
3,800.00	3,769.78	3,643.12	3,601.67	9.91	9.21	134.62	266.14	392.10	703.51	685.17	18.33	38.373	
3,900.00	3,868.68	3,737.15	3,692.49	10.12	9.49	134.67	273.48	415.30	737.54	718.81	18.74	39.366	
4,000.00	3,967.58	3,831.18	3,783.31	10.33	9.77	134.71	280.83	438.51	771.58	752.44	19.14	40.313	
4,100.00	4,066.48	3,925.21	3,874.14	10.53	10.05	134.75	288.18	461.71	805.62	786.07	19.55	41.219	
4,200.00	4,165.38	4,019.24	3,964.96	10.74	10.34	134.79	295.53	484.91	839.65	819.70	19.95	42.084	
4,300.00	4,264.28	4,113.26	4,055.78	10.94	10.63	134.82	302.88	508.11	873.69	853.33	20.36	42.912	
4,400.00	4,363.18	4,207.29	4,146.61	11.14	10.92	134.87	310.23	531.31	907.73	886.96	20.76	43.717	
4,500.00	4,462.28	4,301.65	4,237.75	11.36	11.21	135.20	317.60	554.60	940.82	919.65	21.18	44.431	
4,600.00	4,561.69	4,396.58	4,329.45	11.56	11.51	135.40	325.02	578.02	972.16	950.59	21.57	45.061	
4,700.00	4,661.35	4,492.02	4,421.63	11.76	11.81	135.48	332.48	601.57	1,001.74	979.78	21.96	45.615	
4,800.00	4,761.20	4,587.89	4,514.24	11.95	12.12	135.44	339.97	625.23	1,029.56	1,007.22	22.33	46.100	
4,900.00	4,861.15	4,684.14	4,607.20	12.12	12.43	135.30	347.49	648.98	1,055.62	1,032.93	22.69	46.529	
5,000.00	4,961.15	4,780.67	4,700.45	12.19	12.74	94.27	355.04	672.80	1,080.07	1,057.11	22.96	47.038	

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 215H
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 215H	Survey Calculation Method:	Minimum 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)										Rule Assigned:			Offset Site Error:		0.00 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Offset Well Error:		0.50 usft			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
5,100.00	5,061.15	4,877.27	4,793.75	12.27	13.05	93.77	362.59	696.63	1,104.25	1,080.99	23.26	47.475				
5,200.00	5,161.15	4,973.86	4,887.05	12.35	13.36	93.70	370.14	720.47	1,128.50	1,104.94	23.56	47.903				
5,300.00	5,261.15	5,070.45	4,980.35	12.43	13.68	92.84	377.69	744.30	1,152.82	1,128.97	23.86	48.322				
5,400.00	5,361.15	5,167.04	5,073.65	12.52	14.00	92.40	385.23	768.13	1,177.21	1,153.06	24.16	48.732				
5,500.00	5,461.15	5,263.63	5,166.95	12.60	14.31	91.98	392.78	791.97	1,201.67	1,177.21	24.46	49.133				
5,600.00	5,561.15	5,360.23	5,260.25	12.68	14.63	91.58	400.33	815.80	1,226.18	1,201.42	24.75	49.533				
5,700.00	5,661.15	5,486.36	5,382.39	12.76	15.03	91.09	409.85	845.84	1,249.97	1,224.78	25.19	49.629				
5,800.00	5,761.15	5,628.63	5,521.27	12.84	15.43	90.64	419.15	875.21	1,270.57	1,244.90	25.67	49.496				
5,900.00	5,861.15	5,773.07	5,663.35	12.93	15.80	90.27	426.99	899.97	1,287.70	1,261.57	26.12	49.291				
6,000.00	5,961.15	5,919.32	5,808.10	13.01	16.10	89.99	433.27	919.80	1,301.26	1,274.72	26.55	49.020				
6,100.00	6,061.15	6,066.97	5,954.94	13.09	16.35	89.79	437.91	934.45	1,311.20	1,284.27	26.93	48.693				
6,200.00	6,161.15	6,215.60	6,103.25	13.17	16.55	89.66	440.85	943.72	1,317.45	1,290.18	27.27	48.316				
6,300.00	6,261.15	6,364.77	6,252.35	13.25	16.69	89.61	442.04	947.49	1,319.98	1,292.46	27.52	47.965				
6,400.00	6,361.15	6,473.57	6,361.15	13.33	16.75	89.61	442.07	947.58	1,320.04	1,292.38	27.66	47.718				
6,500.00	6,461.15	6,573.57	6,461.15	13.42	16.81	89.61	442.07	947.58	1,320.04	1,292.24	27.80	47.479				
6,600.00	6,561.15	6,673.57	6,561.15	13.50	16.86	89.61	442.07	947.58	1,320.04	1,292.10	27.94	47.242				
6,700.00	6,661.15	6,773.57	6,661.15	13.58	16.92	89.61	442.07	947.58	1,320.04	1,291.96	28.08	47.007				
6,800.00	6,761.15	6,873.57	6,761.15	13.66	16.98	89.61	442.07	947.58	1,320.04	1,291.82	28.22	46.773				
6,900.00	6,861.15	6,973.57	6,861.15	13.74	17.04	89.61	442.07	947.58	1,320.04	1,291.68	28.36	46.542				
7,000.00	6,961.15	7,073.57	6,961.15	13.83	17.10	89.61	442.07	947.58	1,320.04	1,291.54	28.50	46.312				
7,100.00	7,061.15	7,173.57	7,061.15	13.91	17.16	89.61	442.07	947.58	1,320.04	1,291.40	28.64	46.085				
7,200.00	7,161.15	7,273.57	7,161.15	13.99	17.22	89.61	442.07	947.58	1,320.04	1,291.26	28.78	45.859				
7,300.00	7,261.15	7,373.57	7,261.15	14.07	17.27	89.61	442.07	947.58	1,320.04	1,291.11	28.93	45.635				
7,400.00	7,361.15	7,473.57	7,361.15	14.15	17.33	89.61	442.07	947.58	1,320.04	1,290.97	29.07	45.413				
7,500.00	7,461.15	7,573.57	7,461.15	14.24	17.39	89.61	442.07	947.58	1,320.04	1,290.83	29.21	45.193				
7,600.00	7,561.15	7,673.57	7,561.15	14.32	17.45	89.61	442.07	947.58	1,320.04	1,290.69	29.35	44.975				
7,700.00	7,661.15	7,773.57	7,661.15	14.40	17.51	89.61	442.07	947.58	1,320.04	1,290.55	29.49	44.758				
7,800.00	7,761.15	7,873.57	7,761.15	14.48	17.57	89.61	442.07	947.58	1,320.04	1,290.41	29.63	44.544				
7,900.00	7,861.15	7,973.57	7,861.15	14.56	17.63	89.61	442.07	947.58	1,320.04	1,290.26	29.78	44.331				
8,000.00	7,961.15	8,073.57	7,961.15	14.65	17.69	89.61	442.07	947.58	1,320.04	1,290.12	29.92	44.120				
8,100.00	8,061.15	8,173.57	8,061.15	14.73	17.76	89.61	442.07	947.58	1,320.04	1,289.98	30.06	43.910				
8,200.00	8,161.15	8,273.57	8,161.15	14.81	17.82	89.61	442.07	947.58	1,320.04	1,289.84	30.21	43.702				
8,300.00	8,261.15	8,373.57	8,261.15	14.89	17.88	89.61	442.07	947.58	1,320.04	1,289.69	30.35	43.496				
8,400.00	8,361.15	8,473.57	8,361.15	14.98	17.94	89.61	442.07	947.58	1,320.04	1,289.55	30.49	43.292				
8,500.00	8,461.15	8,573.57	8,461.15	15.06	18.00	89.61	442.07	947.58	1,320.04	1,289.41	30.64	43.089				
8,600.00	8,561.15	8,673.57	8,561.15	15.14	18.06	89.61	442.07	947.58	1,320.04	1,289.26	30.78	42.888				
8,700.00	8,661.15	8,773.57	8,661.15	15.22	18.12	89.61	442.07	947.58	1,320.04	1,289.12	30.92	42.689				
8,800.00	8,761.15	8,873.57	8,761.15	15.30	18.18	89.61	442.07	947.58	1,320.04	1,288.97	31.07	42.491				
8,900.00	8,861.15	8,973.57	8,861.15	15.39	18.25	89.61	442.07	947.58	1,320.04	1,288.83	31.21	42.294				
9,000.00	8,961.15	9,073.57	8,961.15	15.47	18.31	89.61	442.07	947.58	1,320.04	1,288.69	31.36	42.100				
9,100.00	9,061.15	9,173.57	9,061.15	15.55	18.37	89.61	442.07	947.58	1,320.04	1,288.54	31.50	41.907				
9,200.00	9,161.15	9,273.57	9,161.15	15.63	18.43	89.61	442.07	947.58	1,320.04	1,288.40	31.64	41.715				
9,300.00	9,261.15	9,373.57	9,261.15	15.71	18.50	89.61	442.07	947.58	1,320.04	1,288.25	31.79	41.525				
9,400.00	9,361.15	9,473.57	9,361.15	15.80	18.56	89.61	442.07	947.58	1,320.04	1,288.11	31.93	41.336				
9,500.00	9,461.15	9,573.57	9,461.15	15.88	18.62	89.61	442.07	947.58	1,320.04	1,287.96	32.08	41.149				
9,600.00	9,561.15	9,673.57	9,561.15	15.96	18.68	89.61	442.07	947.58	1,320.04	1,287.82	32.22	40.964				
9,700.00	9,661.15	9,773.57	9,661.15	16.04	18.75	89.61	442.07	947.58	1,320.04	1,287.67	32.37	40.780				
9,800.00	9,761.15	9,873.57	9,761.15	16.12	18.81	89.61	442.07	947.58	1,320.04	1,287.52	32.52	40.597				
9,900.00	9,861.15	9,973.57	9,861.15	16.21	18.87	89.61	442.07	947.58	1,320.04	1,287.38	32.66	40.416				
10,000.00	9,961.15	10,073.57	9,961.15	16.29	18.94	89.61	442.07	947.58	1,320.04	1,287.23	32.81	40.236				
10,100.00	10,061.15	10,173.57	10,061.15	16.37	19.00	89.61	442.07	947.58	1,320.04	1,287.09	32.95	40.058				
10,200.00	10,161.15	10,273.57	10,161.15	16.45	19.06	89.61	442.07	947.58	1,320.04	1,286.94	33.10	39.881				

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 215H
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 215H	Survey Calculation Method:	Minimum 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)										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	10,261.15	10,373.57	10,261.15	16.54	19.13	89.61	442.07	947.58	1,320.04	1,286.79	33.25	39.705					
10,400.00	10,361.15	10,473.57	10,361.15	16.62	19.19	89.61	442.07	947.58	1,320.04	1,286.65	33.39	39.531					
10,500.00	10,461.15	10,573.57	10,461.15	16.70	19.26	89.61	442.07	947.58	1,320.04	1,286.50	33.54	39.358					
10,600.00	10,561.15	10,673.57	10,561.15	16.78	19.32	89.61	442.07	947.58	1,320.04	1,286.35	33.69	39.186					
10,700.00	10,661.15	10,773.57	10,661.15	16.86	19.39	89.61	442.07	947.58	1,320.04	1,286.21	33.83	39.016					
10,800.00	10,761.15	10,873.57	10,761.15	16.95	19.45	89.61	442.07	947.58	1,320.04	1,286.06	33.98	38.847					
10,900.00	10,861.15	10,973.57	10,861.15	17.03	19.52	89.61	442.07	947.58	1,320.04	1,285.91	34.13	38.680					
11,000.00	10,961.15	11,073.57	10,961.15	17.11	19.58	89.61	442.07	947.58	1,320.04	1,285.77	34.27	38.513					
11,100.00	11,061.15	11,173.57	11,061.15	17.19	19.64	89.61	442.07	947.58	1,320.04	1,285.62	34.42	38.348					
11,200.00	11,161.15	11,273.57	11,161.15	17.27	19.71	89.61	442.07	947.58	1,320.04	1,285.47	34.57	38.185					
11,300.00	11,261.15	11,373.57	11,261.15	17.36	19.78	89.61	442.07	947.58	1,320.04	1,285.32	34.72	38.022					
11,400.00	11,361.15	11,473.57	11,361.15	17.44	19.84	89.61	442.07	947.58	1,320.04	1,285.18	34.87	37.861					
11,500.00	11,461.15	11,573.57	11,461.15	17.52	19.91	89.61	442.07	947.58	1,320.04	1,285.03	35.01	37.701					
11,600.00	11,561.15	11,673.57	11,561.15	17.60	19.97	89.61	442.07	947.58	1,320.04	1,284.88	35.16	37.542					
11,700.00	11,661.15	11,773.57	11,661.15	17.69	20.04	89.61	442.07	947.58	1,320.04	1,284.73	35.31	37.384					
11,800.00	11,761.15	11,873.57	11,761.15	17.77	20.10	89.61	442.07	947.58	1,320.04	1,284.58	35.46	37.228					
11,900.00	11,861.15	11,973.57	11,861.15	17.85	20.17	89.61	442.07	947.58	1,320.04	1,284.43	35.61	37.073					
11,972.76	11,933.90	12,046.32	11,933.90	17.89	20.21	-89.94	442.07	947.58	1,320.04	1,284.36	35.68	36.996					
12,000.00	11,961.14	12,073.46	11,961.03	17.90	20.23	-89.89	441.52	947.58	1,320.04	1,284.35	35.69	36.985					
12,100.00	12,060.18	12,173.03	12,059.63	17.93	20.29	-89.89	428.57	947.70	1,320.04	1,284.47	35.57	37.115					
12,200.00	12,155.47	12,272.58	12,154.49	17.96	20.34	-89.89	398.78	947.95	1,320.04	1,284.71	35.33	37.358					
12,300.00	12,244.13	12,372.13	12,242.76	17.98	20.37	-89.89	353.03	948.35	1,320.04	1,285.01	35.03	37.683					
12,400.00	12,323.46	12,471.70	12,321.81	18.01	20.42	-89.89	292.71	948.87	1,320.04	1,285.33	34.71	38.034					
12,500.00	12,391.04	12,571.29	12,389.26	18.04	20.49	-89.90	219.60	949.50	1,320.04	1,285.61	34.43	38.339					
12,600.00	12,444.83	12,670.92	12,443.06	18.09	20.62	-89.91	135.90	950.22	1,320.04	1,285.77	34.27	38.520					
12,700.00	12,483.18	12,770.60	12,481.58	18.16	20.81	-89.93	44.11	951.01	1,320.04	1,285.76	34.28	38.506					
12,800.00	12,504.94	12,870.34	12,503.65	18.27	21.08	-89.94	-53.03	951.84	1,320.04	1,285.54	34.50	38.257					
12,862.31	12,510.78	12,932.48	12,508.74	18.36	21.30	-89.91	-114.93	952.38	1,320.04	1,285.27	34.77	37.968					
12,900.00	12,510.19	12,970.19	12,509.17	18.42	21.44	-89.96	-152.63	952.70	1,320.04	1,285.09	34.95	37.772					
13,000.00	12,511.06	13,070.19	12,510.04	18.62	21.87	-89.96	-252.63	953.56	1,320.04	1,284.41	35.63	37.050					
13,100.00	12,511.94	13,170.19	12,510.92	18.88	22.36	-89.96	-352.62	954.42	1,320.04	1,283.54	36.50	36.164					
13,200.00	12,512.81	13,270.19	12,511.79	19.20	22.92	-89.96	-452.61	955.29	1,320.04	1,282.49	37.55	35.150					
13,300.00	12,513.68	13,370.19	12,512.66	19.61	23.54	-89.96	-552.60	956.15	1,320.04	1,281.27	38.77	34.045					
13,400.00	12,514.56	13,470.19	12,513.54	20.11	24.21	-89.96	-652.60	957.01	1,320.04	1,279.90	40.14	32.883					
13,500.00	12,515.43	13,570.19	12,514.41	20.70	24.93	-89.96	-752.59	957.87	1,320.04	1,278.39	41.65	31.694					
13,600.00	12,516.30	13,670.19	12,515.29	21.37	25.70	-89.96	-852.58	958.73	1,320.04	1,276.76	43.28	30.502					
13,700.00	12,517.18	13,770.19	12,516.16	22.12	26.51	-89.96	-952.57	959.59	1,320.04	1,275.03	45.01	29.325					
13,800.00	12,518.05	13,870.19	12,517.03	22.93	27.37	-89.96	-1,052.57	960.45	1,320.04	1,273.20	46.85	28.178					
13,900.00	12,518.92	13,970.19	12,517.91	23.80	28.26	-89.96	-1,152.56	961.31	1,320.04	1,271.28	48.77	27.069					
14,000.00	12,519.80	14,070.19	12,518.78	24.73	29.19	-89.96	-1,252.55	962.17	1,320.04	1,269.28	50.76	26.006					
14,100.00	12,520.67	14,170.19	12,519.65	25.70	30.15	-89.96	-1,352.54	963.04	1,320.04	1,267.22	52.82	24.991					
14,200.00	12,521.54	14,270.19	12,520.53	26.70	31.14	-89.96	-1,452.54	963.90	1,320.04	1,265.10	54.94	24.026					
14,300.00	12,522.42	14,370.19	12,521.40	27.75	32.15	-89.96	-1,552.53	964.76	1,320.04	1,262.93	57.12	23.112					
14,400.00	12,523.29	14,470.19	12,522.27	28.82	33.19	-89.96	-1,652.52	965.62	1,320.04	1,260.71	59.34	22.247					
14,500.00	12,524.16	14,570.19	12,523.15	29.91	34.26	-89.96	-1,752.51	966.48	1,320.04	1,258.44	61.60	21.430					
14,600.00	12,525.04	14,670.19	12,524.02	31.04	35.34	-89.96	-1,852.50	967.34	1,320.04	1,256.15	63.90	20.658					
14,700.00	12,525.91	14,770.19	12,524.89	32.18	36.45	-89.96	-1,952.50	968.20	1,320.04	1,253.81	66.23	19.930					
14,800.00	12,526.78	14,870.19	12,525.77	33.34	37.57	-89.96	-2,052.49	969.06	1,320.04	1,251.45	68.60	19.244					
14,900.00	12,527.66	14,970.19	12,526.64	34.51	38.70	-89.96	-2,152.48	969.92	1,320.04	1,249.06	70.99	18.596					
15,000.00	12,528.53	15,070.19	12,527.52	35.70	39.85	-89.96	-2,252.47	970.79	1,320.05	1,246.64	73.40	17.984					
15,100.00	12,529.40	15,170.19	12,528.39	36.91	41.02	-89.96	-2,352.47	971.65	1,320.05	1,244.21	75.84	17.406					
15,200.00	12,530.28	15,270.19	12,529.26	38.12	42.19	-89.96	-2,452.46	972.51	1,320.05	1,241.75	78.30	16.859					

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 215H
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 215H	Survey Calculation Method:	Minimum 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)											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			
15,300.00	12,531.15	15,370.19	12,530.14	39.35	43.38	-89.96	-2,552.45	973.37	1,320.05	1,239.27	80.77	16.343				
15,400.00	12,532.02	15,470.19	12,531.01	40.58	44.58	-89.96	-2,652.44	974.23	1,320.05	1,236.78	83.26	15.854				
15,500.00	12,532.89	15,570.19	12,531.88	41.82	45.79	-89.96	-2,752.44	975.09	1,320.05	1,234.27	85.77	15.390				
15,600.00	12,533.77	15,670.19	12,532.76	43.08	47.00	-89.96	-2,852.43	975.95	1,320.05	1,231.75	88.29	14.951				
15,700.00	12,534.64	15,770.19	12,533.63	44.34	48.23	-89.96	-2,952.42	976.81	1,320.05	1,229.22	90.83	14.534				
15,800.00	12,535.51	15,870.19	12,534.50	45.60	49.46	-89.96	-3,052.41	977.68	1,320.05	1,226.68	93.37	14.138				
15,900.00	12,536.39	15,970.19	12,535.38	46.87	50.70	-89.96	-3,152.41	978.54	1,320.05	1,224.12	95.93	13.761				
16,000.00	12,537.26	16,070.19	12,536.25	48.15	51.94	-89.96	-3,252.40	979.40	1,320.05	1,221.55	98.49	13.402				
16,100.00	12,538.13	16,170.19	12,537.13	49.43	53.20	-89.96	-3,352.39	980.26	1,320.05	1,218.98	101.07	13.061				
16,200.00	12,539.01	16,270.19	12,538.00	50.72	54.45	-89.96	-3,452.38	981.12	1,320.05	1,216.40	103.65	12.735				
16,300.00	12,539.88	16,370.19	12,538.87	52.01	55.72	-89.96	-3,552.38	981.98	1,320.05	1,213.81	106.24	12.425				
16,400.00	12,540.75	16,470.19	12,539.75	53.30	56.98	-89.96	-3,652.37	982.84	1,320.05	1,211.21	108.84	12.128				
16,500.00	12,541.63	16,570.19	12,540.62	54.60	58.26	-89.96	-3,752.36	983.70	1,320.05	1,208.60	111.45	11.845				
16,600.00	12,542.50	16,670.19	12,541.49	55.90	59.53	-89.96	-3,852.35	984.56	1,320.05	1,205.99	114.06	11.573				
16,700.00	12,543.37	16,770.19	12,542.37	57.21	60.81	-89.96	-3,952.35	985.43	1,320.05	1,203.37	116.68	11.314				
16,800.00	12,544.25	16,870.19	12,543.24	58.52	62.10	-89.96	-4,052.34	986.29	1,320.05	1,200.75	119.30	11.065				
16,900.00	12,545.12	16,970.19	12,544.11	59.83	63.39	-89.96	-4,152.33	987.15	1,320.05	1,198.12	121.93	10.827				
17,000.00	12,545.99	17,070.19	12,544.99	61.14	64.68	-89.96	-4,252.32	988.01	1,320.05	1,195.49	124.56	10.598				
17,100.00	12,546.87	17,170.19	12,545.86	62.46	65.97	-89.96	-4,352.32	988.87	1,320.05	1,192.85	127.20	10.378				
17,200.00	12,547.74	17,270.19	12,546.73	63.78	67.27	-89.96	-4,452.31	989.73	1,320.05	1,190.21	129.84	10.167				
17,300.00	12,548.61	17,370.19	12,547.61	65.10	68.57	-89.96	-4,552.30	990.59	1,320.05	1,187.57	132.48	9.964				
17,400.00	12,549.49	17,470.19	12,548.48	66.42	69.87	-89.96	-4,652.29	991.45	1,320.05	1,184.92	135.13	9.768				
17,500.00	12,550.36	17,570.19	12,549.36	67.75	71.18	-89.96	-4,752.29	992.31	1,320.05	1,182.26	137.79	9.580				
17,600.00	12,551.23	17,670.19	12,550.23	69.07	72.49	-89.96	-4,852.28	993.18	1,320.05	1,179.61	140.44	9.399				
17,700.00	12,552.11	17,770.19	12,551.10	70.40	73.80	-89.96	-4,952.27	994.04	1,320.05	1,176.95	143.10	9.225				
17,800.00	12,552.98	17,870.19	12,551.98	71.73	75.11	-89.96	-5,052.26	994.90	1,320.05	1,174.29	145.76	9.056				
17,900.00	12,553.85	17,970.19	12,552.85	73.06	76.42	-89.96	-5,152.26	995.76	1,320.05	1,171.62	148.43	8.893				
18,000.00	12,554.73	18,070.19	12,553.72	74.40	77.74	-89.96	-5,252.25	996.62	1,320.05	1,168.96	151.10	8.736				
18,100.00	12,555.60	18,170.19	12,554.60	75.73	79.06	-89.96	-5,352.24	997.48	1,320.05	1,166.29	153.77	8.585				
18,200.00	12,556.47	18,270.19	12,555.47	77.06	80.38	-89.96	-5,452.23	998.34	1,320.05	1,163.61	156.44	8.438				
18,300.00	12,557.35	18,370.19	12,556.34	78.40	81.70	-89.96	-5,552.23	999.20	1,320.05	1,160.94	159.12	8.296				
18,400.00	12,558.22	18,470.19	12,557.22	79.74	83.02	-89.96	-5,652.22	1,000.07	1,320.05	1,158.26	161.79	8.159				
18,500.00	12,559.09	18,570.19	12,558.09	81.08	84.35	-89.96	-5,752.21	1,000.93	1,320.05	1,155.58	164.47	8.026				
18,600.00	12,559.97	18,670.19	12,558.96	82.42	85.67	-89.96	-5,852.20	1,001.79	1,320.05	1,152.90	167.15	7.897				
18,700.00	12,560.84	18,770.19	12,559.84	83.76	87.00	-89.96	-5,952.20	1,002.65	1,320.05	1,150.22	169.84	7.773				
18,800.00	12,561.71	18,870.19	12,560.71	85.10	88.33	-89.96	-6,052.19	1,003.51	1,320.05	1,147.53	172.52	7.652				
18,900.00	12,562.59	18,970.19	12,561.59	86.44	89.66	-89.96	-6,152.18	1,004.37	1,320.05	1,144.85	175.21	7.534				
19,000.00	12,563.46	19,070.19	12,562.46	87.79	90.99	-89.96	-6,252.17	1,005.23	1,320.05	1,142.16	177.90	7.420				
19,100.00	12,564.33	19,170.19	12,563.33	89.13	92.32	-89.96	-6,352.17	1,006.09	1,320.05	1,139.47	180.58	7.310				
19,200.00	12,565.20	19,270.19	12,564.21	90.48	93.65	-89.96	-6,452.16	1,006.95	1,320.05	1,136.78	183.28	7.203				
19,300.00	12,566.08	19,370.19	12,565.08	91.82	94.99	-89.96	-6,552.15	1,007.82	1,320.06	1,134.09	185.97	7.098				
19,400.00	12,566.95	19,470.19	12,565.95	93.17	96.32	-89.96	-6,652.14	1,008.68	1,320.06	1,131.39	188.66	6.997				
19,500.00	12,567.82	19,570.19	12,566.83	94.51	97.66	-89.96	-6,752.14	1,009.54	1,320.06	1,128.70	191.36	6.898				
19,600.00	12,568.70	19,670.19	12,567.70	95.86	99.00	-89.96	-6,852.13	1,010.40	1,320.06	1,126.00	194.05	6.803				
19,700.00	12,569.57	19,770.19	12,568.57	97.21	100.34	-89.96	-6,952.12	1,011.26	1,320.06	1,123.30	196.75	6.709				
19,800.00	12,570.44	19,870.19	12,569.45	98.56	101.67	-89.96	-7,052.11	1,012.12	1,320.06	1,120.61	199.45	6.618				
19,900.00	12,571.32	19,970.19	12,570.32	99.91	103.01	-89.96	-7,152.11	1,012.98	1,320.06	1,117.91	202.15	6.530				
20,000.00	12,572.19	20,070.19	12,571.20	101.26	104.35	-89.96	-7,252.10	1,013.84	1,320.06	1,115.21	204.85	6.444				
20,100.00	12,573.06	20,170.19	12,572.07	102.61	105.70	-89.96	-7,352.09	1,014.70	1,320.06	1,112.50	207.55	6.360				
20,200.00	12,573.94	20,270.19	12,572.94	103.96	107.04	-89.96	-7,452.08	1,015.57	1,320.06	1,109.80	210.26	6.278				
20,300.00	12,574.81	20,370.19	12,573.82	105.31	108.38	-89.96	-7,552.08	1,016.43	1,320.06	1,107.10	212.96	6.199				
20,400.00	12,575.68	20,470.19	12,574.69	106.66	109.72	-89.96	-7,652.07	1,017.29	1,320.06	1,104.39	215.66	6.121				

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 215H
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 215H	Survey Calculation Method:	Minimum 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:			
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	12,576.56	20,570.19	12,575.56	108.02	111.07	-89.96	-7,752.06	1,018.15	1,320.06	1,101.69	218.37	6.045			
20,600.00	12,577.43	20,670.19	12,576.44	109.37	112.41	-89.96	-7,852.05	1,019.01	1,320.06	1,098.98	221.08	5.971			
20,700.00	12,578.30	20,770.19	12,577.31	110.72	113.76	-89.96	-7,952.05	1,019.87	1,320.06	1,096.27	223.78	5.899			
20,800.00	12,579.18	20,870.19	12,578.18	112.08	115.10	-89.96	-8,052.04	1,020.73	1,320.06	1,093.57	226.49	5.828			
20,900.00	12,580.05	20,970.19	12,579.06	113.43	116.45	-89.96	-8,152.03	1,021.59	1,320.06	1,090.86	229.20	5.759			
21,000.00	12,580.92	21,070.19	12,579.93	114.79	117.80	-89.96	-8,252.02	1,022.46	1,320.06	1,088.15	231.91	5.692			
21,100.00	12,581.80	21,170.19	12,580.80	116.14	119.14	-89.96	-8,352.02	1,023.32	1,320.06	1,085.44	234.62	5.626			
21,200.00	12,582.67	21,270.19	12,581.68	117.50	120.49	-89.96	-8,452.01	1,024.18	1,320.06	1,082.73	237.33	5.562			
21,300.00	12,583.54	21,370.19	12,582.55	118.85	121.84	-89.96	-8,552.00	1,025.04	1,320.06	1,080.02	240.04	5.499			
21,400.00	12,584.42	21,470.19	12,583.43	120.21	123.19	-89.96	-8,651.99	1,025.90	1,320.06	1,077.30	242.76	5.438			
21,500.00	12,585.29	21,570.19	12,584.30	121.56	124.54	-89.96	-8,751.99	1,026.76	1,320.06	1,074.59	245.47	5.378			
21,600.00	12,586.16	21,670.19	12,585.17	122.92	125.89	-89.96	-8,851.98	1,027.62	1,320.06	1,071.88	248.18	5.319			
21,700.00	12,587.04	21,770.19	12,586.05	124.28	127.24	-89.96	-8,951.97	1,028.48	1,320.06	1,069.17	250.90	5.261			
21,800.00	12,587.91	21,870.19	12,586.92	125.63	128.59	-89.96	-9,051.96	1,029.34	1,320.06	1,066.45	253.61	5.205			
21,900.00	12,588.78	21,970.19	12,587.79	126.99	129.94	-89.96	-9,151.96	1,030.21	1,320.06	1,063.74	256.33	5.150			
22,000.00	12,589.66	22,070.19	12,588.67	128.35	131.29	-89.96	-9,251.95	1,031.07	1,320.06	1,061.02	259.04	5.096			
22,100.00	12,590.53	22,170.19	12,589.54	129.71	132.64	-89.96	-9,351.94	1,031.93	1,320.06	1,058.30	261.76	5.043			
22,200.00	12,591.40	22,270.19	12,590.41	131.07	134.00	-89.96	-9,451.93	1,032.79	1,320.06	1,055.59	264.47	4.991			
22,300.00	12,592.28	22,370.19	12,591.29	132.42	135.35	-89.96	-9,551.93	1,033.65	1,320.06	1,052.87	267.19	4.941			
22,400.00	12,593.15	22,470.19	12,592.16	133.78	136.70	-89.96	-9,651.92	1,034.51	1,320.06	1,050.15	269.91	4.891			
22,500.00	12,594.02	22,570.19	12,593.03	135.14	138.06	-89.96	-9,751.91	1,035.37	1,320.06	1,047.44	272.63	4.842			
22,600.00	12,594.89	22,670.19	12,593.91	136.50	139.41	-89.96	-9,851.90	1,036.23	1,320.06	1,044.72	275.34	4.794			
22,700.00	12,595.77	22,770.19	12,594.78	137.86	140.76	-89.96	-9,951.90	1,037.09	1,320.06	1,042.00	278.06	4.747			
22,800.00	12,596.64	22,870.19	12,595.66	139.22	142.12	-89.96	-10,051.89	1,037.96	1,320.06	1,039.28	280.78	4.701			
22,800.22	12,596.64	22,870.41	12,595.66	139.22	142.12	-89.96	-10,052.11	1,037.96	1,320.06	1,039.28	280.79	4.701			
22,806.75	12,596.70	22,875.30	12,595.70	139.31	142.19	-89.96	-10,057.00	1,038.00	1,320.06	1,039.11	280.95	4.699	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 215H
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 215H	Survey Calculation Method:	Minimum 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 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	70.48	831.00	2,344.00	2,486.95				
100.00	100.00	100.00	100.00	0.98	0.98	70.48	831.00	2,344.00	2,486.95	2,484.98	1.96	1,267.437	
200.00	200.00	200.00	200.00	1.56	1.56	70.48	831.00	2,344.00	2,486.95	2,483.82	3.12	796.523	
300.00	300.00	300.00	300.00	1.98	1.98	70.48	831.00	2,344.00	2,486.95	2,482.98	3.96	627.649	
400.00	399.99	365.68	365.68	2.41	2.26	111.18	830.83	2,344.54	2,488.11	2,483.52	4.58	542.705	
500.00	499.91	431.20	431.18	2.79	2.52	111.21	830.33	2,346.15	2,491.60	2,486.46	5.14	484.930	
600.00	599.69	500.00	499.91	3.12	2.78	111.27	829.45	2,349.00	2,497.43	2,491.77	5.66	441.496	
700.00	699.32	561.20	561.00	3.26	2.98	111.39	828.36	2,352.53	2,505.39	2,499.41	5.98	418.920	
800.00	798.94	625.67	625.28	3.51	3.19	111.58	826.90	2,357.25	2,514.82	2,508.39	6.43	391.394	
												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 215H
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 215H	Survey Calculation Method:	Minimum 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:						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	180.00	-50.00	0.00	50.00					
100.00	100.00	101.00	100.00	0.98	0.99	180.00	-50.00	0.00	50.00	48.03	1.97	25.411	CC, ES	
200.00	200.00	201.00	200.00	1.56	1.57	180.00	-50.00	0.00	50.00	46.87	3.13	15.993		
300.00	300.00	301.00	300.00	1.98	1.98	180.00	-50.00	0.00	50.00	46.03	3.97	12.608		
400.00	399.99	400.99	399.99	2.41	2.33	-140.26	-50.00	0.00	51.00	46.29	4.71	10.824		
500.00	499.91	500.91	499.91	2.79	2.64	-142.89	-50.00	0.00	54.08	48.71	5.37	10.071		
600.00	599.69	600.69	599.69	3.12	2.91	-146.65	-50.00	0.00	59.43	53.45	5.97	9.947		
700.00	699.32	700.33	699.33	3.26	3.16	-150.68	-50.00	0.00	66.76	60.38	6.38	10.465		
800.00	798.94	801.71	800.70	3.51	3.46	-153.56	-48.96	-0.87	73.28	66.36	6.93	10.582		
900.00	898.56	903.43	902.33	3.76	3.74	-155.18	-45.85	-3.48	77.53	70.09	7.44	10.419		
1,000.00	998.18	1,005.32	1,004.00	3.99	4.00	-155.87	-40.66	-7.84	79.38	71.45	7.92	10.017		
1,100.00	1,097.80	1,105.86	1,104.16	4.22	4.12	-155.97	-34.02	-13.41	79.43	71.15	8.27	9.599		
1,200.00	1,197.42	1,205.86	1,203.78	4.45	4.33	-156.04	-27.35	-19.01	79.39	70.67	8.71	9.110		
1,201.76	1,199.17	1,207.61	1,205.53	4.45	4.33	-156.04	-27.23	-19.11	79.39	70.67	8.72	9.102		
1,300.00	1,296.92	1,305.85	1,303.39	4.71	4.53	-156.46	-20.67	-24.61	80.48	71.31	9.17	8.777		
1,400.00	1,396.13	1,405.77	1,402.93	4.97	4.73	-157.55	-14.00	-30.21	83.99	74.36	9.63	8.719		
1,500.00	1,495.05	1,505.59	1,502.37	5.11	4.93	-159.06	-7.34	-35.80	89.48	79.49	9.99	8.960		
1,600.00	1,593.95	1,605.40	1,601.80	5.33	5.13	-160.43	-0.67	-41.39	95.17	84.76	10.41	9.141		
1,700.00	1,692.86	1,705.22	1,701.24	5.54	5.33	-161.65	5.99	-46.98	100.92	90.08	10.83	9.315		
1,800.00	1,791.76	1,805.03	1,800.67	5.76	5.52	-162.74	12.66	-52.58	106.70	95.45	11.25	9.484		
1,900.00	1,890.66	1,904.84	1,900.10	5.97	5.71	-163.71	19.32	-58.17	112.52	100.86	11.67	9.646		
2,000.00	1,989.56	2,004.66	1,999.54	6.18	5.90	-164.59	25.99	-63.76	118.37	106.30	12.08	9.801		
2,100.00	2,088.46	2,104.47	2,098.97	6.39	6.10	-165.38	32.65	-69.35	124.25	111.76	12.49	9.951		
2,200.00	2,187.36	2,204.28	2,198.40	6.60	6.29	-166.11	39.31	-74.94	130.14	117.24	12.90	10.087		
2,300.00	2,286.26	2,306.78	2,300.40	6.81	6.50	-166.40	46.64	-81.95	135.07	121.76	13.32	10.144		
2,400.00	2,385.16	2,409.45	2,402.28	7.02	6.72	-165.91	54.94	-91.54	138.02	124.28	13.74	10.048		
2,500.00	2,484.06	2,512.12	2,503.80	7.23	6.94	-164.67	64.21	-103.69	139.02	124.86	14.15	9.823		
2,600.00	2,582.96	2,614.65	2,604.76	7.44	7.17	-162.64	74.42	-118.36	138.19	123.63	14.56	9.489		
2,700.00	2,681.87	2,716.43	2,704.48	7.65	7.38	-159.77	85.47	-135.40	135.77	120.81	14.96	9.075		
2,800.00	2,780.77	2,816.11	2,801.99	7.85	7.57	-156.57	96.60	-152.88	133.16	117.80	15.36	8.667		
2,900.00	2,879.67	2,915.79	2,899.49	8.06	7.77	-153.25	107.72	-170.37	130.98	115.21	15.77	8.308		
3,000.00	2,978.57	3,015.47	2,996.99	8.27	7.97	-149.83	118.85	-187.85	129.25	113.09	16.17	7.994		
3,100.00	3,077.47	3,115.15	3,094.50	8.47	8.18	-146.34	129.97	-205.34	128.00	111.43	16.57	7.724		
3,200.00	3,176.37	3,214.84	3,192.00	8.68	8.39	-142.79	141.10	-222.83	127.24	110.26	16.98	7.494		
3,300.00	3,275.27	3,314.52	3,289.50	8.89	8.60	-139.21	152.23	-240.31	126.97	109.58	17.39	7.302		
3,303.40	3,278.64	3,317.91	3,292.82	8.89	8.60	-139.08	152.61	-240.91	126.97	109.57	17.40	7.296		
3,400.00	3,374.17	3,414.20	3,387.01	9.09	8.81	-135.63	163.35	-257.80	127.21	109.41	17.80	7.146		
3,500.00	3,473.07	3,513.88	3,484.51	9.30	9.03	-132.07	174.48	-275.28	127.94	109.72	18.22	7.023		
3,600.00	3,571.97	3,613.56	3,582.02	9.50	9.25	-128.57	185.60	-292.77	129.15	110.52	18.63	6.931		
3,700.00	3,670.87	3,713.25	3,679.52	9.71	9.48	-125.15	196.73	-310.25	130.85	111.79	19.06	6.866		
3,800.00	3,769.78	3,812.93	3,777.02	9.91	9.71	-121.82	207.86	-327.74	133.00	113.52	19.48	6.827		
3,900.00	3,868.68	3,912.61	3,874.53	10.12	9.95	-118.62	218.98	-345.23	135.58	115.67	19.91	6.809		
4,000.00	3,967.58	4,012.29	3,972.03	10.33	10.19	-115.54	230.11	-362.71	138.58	118.24	20.34	6.813		
4,100.00	4,066.48	4,111.97	4,069.53	10.53	10.44	-112.59	241.24	-380.20	141.96	121.19	20.77	6.834		
4,200.00	4,165.38	4,211.66	4,167.04	10.74	10.69	-109.79	252.36	-397.68	145.70	124.49	21.21	6.869		
4,300.00	4,264.28	4,311.34	4,264.54	10.94	10.94	-107.14	263.49	-415.17	149.77	128.12	21.65	6.919		
4,400.00	4,363.18	4,411.02	4,362.04	11.14	11.19	-104.63	274.61	-432.65	154.14	132.06	22.08	6.982		
4,500.00	4,462.28	4,510.61	4,459.46	11.36	11.45	-101.83	285.73	-450.13	158.50	136.00	22.50	7.044		
4,600.00	4,561.69	4,610.00	4,556.68	11.56	11.70	-98.30	296.82	-467.56	162.84	139.95	22.89	7.115		
4,700.00	4,661.35	4,709.11	4,653.62	11.76	11.96	-94.10	307.89	-484.95	167.59	144.35	23.24	7.212		
4,800.00	4,761.20	4,807.88	4,750.23	11.95	12.22	-89.33	318.91	-502.27	173.25	149.69	23.55	7.355		
4,900.00	4,861.15	4,906.24	4,846.44	12.12	12.48	-84.12	329.89	-519.52	180.34	156.50	23.84	7.566		

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 215H
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 215H	Survey Calculation Method:	Minimum 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:						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)	
5,000.00	4,961.15	5,004.15	4,942.22	12.19	12.74	-119.32	340.82	-536.70	189.36	165.30	24.06	7.871		
5,100.00	5,061.15	5,101.97	5,037.89	12.27	12.99	-114.15	351.74	-553.86	200.19	175.88	24.31	8.234		
5,200.00	5,161.15	5,199.78	5,133.57	12.35	13.25	-109.53	362.65	-571.02	212.51	187.93	24.58	8.647		
5,300.00	5,261.15	5,297.60	5,229.25	12.43	13.52	-105.42	373.57	-588.18	226.07	201.22	24.85	9.098		
5,400.00	5,361.15	5,395.41	5,324.93	12.52	13.78	-101.79	384.49	-605.33	240.66	215.54	25.12	9.579		
5,500.00	5,461.15	5,497.66	5,425.13	12.60	14.03	-98.58	395.38	-622.45	255.40	229.98	25.42	10.048		
5,600.00	5,561.15	5,601.69	5,527.61	12.68	14.28	-96.05	405.00	-637.56	268.72	242.99	25.73	10.446		
5,700.00	5,661.15	5,706.63	5,631.44	12.76	14.50	-94.10	413.17	-650.42	280.28	254.26	26.02	10.772		
5,800.00	5,761.15	5,812.35	5,736.42	12.84	14.69	-92.63	419.86	-660.93	289.86	263.56	26.29	11.024		
5,900.00	5,861.15	5,918.69	5,842.32	12.93	14.86	-91.56	425.01	-669.02	297.30	270.75	26.55	11.197		
6,000.00	5,961.15	6,025.48	5,948.89	13.01	15.01	-90.85	428.59	-674.64	302.50	275.71	26.78	11.294		
6,100.00	6,061.15	6,132.56	6,055.91	13.09	15.12	-90.47	430.57	-677.76	305.38	278.39	26.99	11.314		
6,200.00	6,161.15	6,237.80	6,161.15	13.17	15.20	-90.39	431.00	-678.43	306.01	278.85	27.15	11.270		
6,300.00	6,261.15	6,337.80	6,261.15	13.25	15.27	-90.39	431.00	-678.43	306.01	278.71	27.30	11.210		
6,400.00	6,361.15	6,437.80	6,361.15	13.33	15.34	-90.39	431.00	-678.43	306.01	278.56	27.45	11.150		
6,500.00	6,461.15	6,537.80	6,461.15	13.42	15.41	-90.39	431.00	-678.43	306.01	278.41	27.59	11.090		
6,600.00	6,561.15	6,637.80	6,561.15	13.50	15.48	-90.39	431.00	-678.43	306.01	278.26	27.74	11.030		
6,700.00	6,661.15	6,737.80	6,661.15	13.58	15.55	-90.39	431.00	-678.43	306.01	278.12	27.89	10.972		
6,800.00	6,761.15	6,837.80	6,761.15	13.66	15.62	-90.39	431.00	-678.43	306.01	277.97	28.04	10.913		
6,900.00	6,861.15	6,937.80	6,861.15	13.74	15.69	-90.39	431.00	-678.43	306.01	277.82	28.19	10.856		
7,000.00	6,961.15	7,037.80	6,961.15	13.83	15.76	-90.39	431.00	-678.43	306.01	277.67	28.34	10.798		
7,100.00	7,061.15	7,137.80	7,061.15	13.91	15.83	-90.39	431.00	-678.43	306.01	277.52	28.49	10.742		
7,200.00	7,161.15	7,237.80	7,161.15	13.99	15.90	-90.39	431.00	-678.43	306.01	277.37	28.64	10.686		
7,300.00	7,261.15	7,337.80	7,261.15	14.07	15.97	-90.39	431.00	-678.43	306.01	277.22	28.79	10.630		
7,400.00	7,361.15	7,437.80	7,361.15	14.15	16.04	-90.39	431.00	-678.43	306.01	277.07	28.94	10.575		
7,500.00	7,461.15	7,537.80	7,461.15	14.24	16.11	-90.39	431.00	-678.43	306.01	276.92	29.09	10.521		
7,600.00	7,561.15	7,637.80	7,561.15	14.32	16.18	-90.39	431.00	-678.43	306.01	276.77	29.24	10.467		
7,700.00	7,661.15	7,737.80	7,661.15	14.40	16.25	-90.39	431.00	-678.43	306.01	276.62	29.39	10.413		
7,800.00	7,761.15	7,837.80	7,761.15	14.48	16.33	-90.39	431.00	-678.43	306.01	276.47	29.54	10.360		
7,900.00	7,861.15	7,937.80	7,861.15	14.56	16.40	-90.39	431.00	-678.43	306.01	276.32	29.69	10.308		
8,000.00	7,961.15	8,037.80	7,961.15	14.65	16.47	-90.39	431.00	-678.43	306.01	276.17	29.84	10.256		
8,100.00	8,061.15	8,137.80	8,061.15	14.73	16.54	-90.39	431.00	-678.43	306.01	276.02	29.99	10.204		
8,200.00	8,161.15	8,237.80	8,161.15	14.81	16.61	-90.39	431.00	-678.43	306.01	275.87	30.14	10.153		
8,300.00	8,261.15	8,337.80	8,261.15	14.89	16.68	-90.39	431.00	-678.43	306.01	275.72	30.29	10.103		
8,400.00	8,361.15	8,437.80	8,361.15	14.98	16.75	-90.39	431.00	-678.43	306.01	275.57	30.44	10.053		
8,500.00	8,461.15	8,537.80	8,461.15	15.06	16.83	-90.39	431.00	-678.43	306.01	275.42	30.59	10.003		
8,600.00	8,561.15	8,637.80	8,561.15	15.14	16.90	-90.39	431.00	-678.43	306.01	275.26	30.74	9.954		
8,700.00	8,661.15	8,737.80	8,661.15	15.22	16.97	-90.39	431.00	-678.43	306.01	275.11	30.89	9.905		
8,800.00	8,761.15	8,837.80	8,761.15	15.30	17.04	-90.39	431.00	-678.43	306.01	274.96	31.05	9.857		
8,900.00	8,861.15	8,937.80	8,861.15	15.39	17.11	-90.39	431.00	-678.43	306.01	274.81	31.20	9.809		
9,000.00	8,961.15	9,037.80	8,961.15	15.47	17.19	-90.39	431.00	-678.43	306.01	274.66	31.35	9.761		
9,100.00	9,061.15	9,137.80	9,061.15	15.55	17.26	-90.39	431.00	-678.43	306.01	274.51	31.50	9.714		
9,200.00	9,161.15	9,237.80	9,161.15	15.63	17.33	-90.39	431.00	-678.43	306.01	274.35	31.65	9.668		
9,300.00	9,261.15	9,337.80	9,261.15	15.71	17.40	-90.39	431.00	-678.43	306.01	274.20	31.80	9.621		
9,400.00	9,361.15	9,437.80	9,361.15	15.80	17.48	-90.39	431.00	-678.43	306.01	274.05	31.96	9.576		
9,500.00	9,461.15	9,537.80	9,461.15	15.88	17.55	-90.39	431.00	-678.43	306.01	273.90	32.11	9.530		
9,600.00	9,561.15	9,637.80	9,561.15	15.96	17.62	-90.39	431.00	-678.43	306.01	273.75	32.26	9.485		
9,700.00	9,661.15	9,737.80	9,661.15	16.04	17.69	-90.39	431.00	-678.43	306.01	273.59	32.41	9.441		
9,800.00	9,761.15	9,837.80	9,761.15	16.12	17.77	-90.39	431.00	-678.43	306.01	273.44	32.57	9.396		
9,900.00	9,861.15	9,937.80	9,861.15	16.21	17.84	-90.39	431.00	-678.43	306.01	273.29	32.72	9.353		
10,000.00	9,961.15	10,037.80	9,961.15	16.29	17.91	-90.39	431.00	-678.43	306.01	273.14	32.87	9.309		
10,100.00	10,061.15	10,137.80	10,061.15	16.37	17.99	-90.39	431.00	-678.43	306.01	272.98	33.02	9.266		

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 215H
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 215H	Survey Calculation Method:	Minimum 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:						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)			
10,200.00	10,161.15	10,237.80	10,161.15	16.45	18.06	-90.39	431.00	-678.43	306.01	272.83	33.18	9.223		
10,300.00	10,261.15	10,337.80	10,261.15	16.54	18.13	-90.39	431.00	-678.43	306.01	272.68	33.33	9.181		
10,400.00	10,361.15	10,437.80	10,361.15	16.62	18.21	-90.39	431.00	-678.43	306.01	272.52	33.48	9.139		
10,500.00	10,461.15	10,537.80	10,461.15	16.70	18.28	-90.39	431.00	-678.43	306.01	272.37	33.64	9.097		
10,600.00	10,561.15	10,637.80	10,561.15	16.78	18.35	-90.39	431.00	-678.43	306.01	272.22	33.79	9.056		
10,700.00	10,661.15	10,737.80	10,661.15	16.86	18.43	-90.39	431.00	-678.43	306.01	272.06	33.94	9.015		
10,800.00	10,761.15	10,837.80	10,761.15	16.95	18.50	-90.39	431.00	-678.43	306.01	271.91	34.10	8.975		
10,900.00	10,861.15	10,937.80	10,861.15	17.03	18.57	-90.39	431.00	-678.43	306.01	271.76	34.25	8.934		
11,000.00	10,961.15	11,037.80	10,961.15	17.11	18.65	-90.39	431.00	-678.43	306.01	271.60	34.40	8.895		
11,100.00	11,061.15	11,137.80	11,061.15	17.19	18.72	-90.39	431.00	-678.43	306.01	271.45	34.56	8.855		
11,200.00	11,161.15	11,237.80	11,161.15	17.27	18.80	-90.39	431.00	-678.43	306.01	271.30	34.71	8.816		
11,300.00	11,261.15	11,337.80	11,261.15	17.36	18.87	-90.39	431.00	-678.43	306.01	271.14	34.87	8.777		
11,400.00	11,361.15	11,437.80	11,361.15	17.44	18.94	-90.39	431.00	-678.43	306.01	270.99	35.02	8.738		
11,500.00	11,461.15	11,537.80	11,461.15	17.52	19.02	-90.39	431.00	-678.43	306.01	270.83	35.17	8.700		
11,600.00	11,561.15	11,637.80	11,561.15	17.60	19.09	-90.39	431.00	-678.43	306.01	270.68	35.33	8.662		
11,700.00	11,661.15	11,737.80	11,661.15	17.69	19.17	-90.39	431.00	-678.43	306.01	270.53	35.48	8.624		
11,800.00	11,761.15	11,837.80	11,761.15	17.77	19.24	-90.39	431.00	-678.43	306.01	270.37	35.64	8.587		
11,900.00	11,861.15	11,937.80	11,861.15	17.85	19.32	-90.39	431.00	-678.43	306.01	270.22	35.79	8.550		
11,903.64	11,864.79	11,941.45	11,864.79	17.85	19.32	90.10	431.00	-678.43	306.01	270.21	35.79	8.549		
12,000.00	11,961.14	12,037.80	11,961.14	17.90	19.39	90.20	431.00	-678.43	306.01	270.09	35.91	8.521		
12,100.00	12,060.18	12,136.83	12,060.18	17.93	19.46	92.55	431.00	-678.43	306.32	270.42	35.90	8.533		
12,200.00	12,155.47	12,232.13	12,155.47	17.96	19.53	97.54	431.00	-678.43	309.13	273.30	35.83	8.627		
12,300.00	12,244.13	12,320.79	12,244.13	17.98	19.60	103.92	431.00	-678.43	318.92	283.11	35.80	8.907		
12,400.00	12,323.46	12,410.94	12,334.20	18.01	19.65	110.83	428.54	-678.67	340.34	304.43	35.90	9.479		
12,500.00	12,391.04	12,518.31	12,439.56	18.04	19.68	117.65	408.73	-680.57	371.68	335.33	36.34	10.227		
12,600.00	12,444.83	12,645.32	12,556.73	18.09	19.71	123.74	360.62	-685.21	409.04	371.36	37.68	10.855		
12,700.00	12,483.18	12,801.33	12,681.64	18.16	19.76	128.94	268.39	-694.09	447.62	407.27	40.35	11.094		
12,800.00	12,504.94	12,996.55	12,795.49	18.27	19.92	132.55	111.68	-709.18	481.31	437.37	43.93	10.955		
12,900.00	12,510.19	13,231.36	12,853.35	18.42	20.38	133.42	-113.15	-730.83	502.50	456.29	46.21	10.874		
13,000.00	12,511.06	13,357.31	12,854.85	18.62	20.75	132.58	-238.67	-740.99	509.05	462.88	46.17	11.026		
13,100.00	12,511.94	13,472.37	12,855.86	18.88	21.15	132.17	-353.63	-745.52	512.60	466.28	46.32	11.066		
13,200.00	12,512.81	13,582.98	12,856.83	19.20	21.57	132.08	-464.23	-745.68	513.32	466.65	46.66	11.001		
13,300.00	12,513.68	13,682.98	12,857.71	19.61	22.01	132.08	-564.22	-744.82	513.32	466.21	47.11	10.895		
13,400.00	12,514.56	13,782.98	12,858.59	20.11	22.50	132.08	-664.21	-743.96	513.32	465.67	47.66	10.771		
13,500.00	12,515.43	13,882.98	12,859.46	20.70	23.05	132.08	-764.20	-743.10	513.33	465.04	48.29	10.631		
13,600.00	12,516.30	13,982.98	12,860.34	21.37	23.66	132.09	-864.20	-742.24	513.33	464.33	49.00	10.476		
13,700.00	12,517.18	14,082.98	12,861.22	22.12	24.33	132.09	-964.19	-741.38	513.33	463.54	49.79	10.310		
13,800.00	12,518.05	14,182.98	12,862.10	22.93	25.05	132.09	-1,064.18	-740.52	513.34	462.68	50.66	10.133		
13,900.00	12,518.92	14,282.98	12,862.98	23.80	25.83	132.09	-1,164.17	-739.66	513.34	461.74	51.61	9.947		
14,000.00	12,519.80	14,382.98	12,863.85	24.73	26.65	132.09	-1,264.17	-738.80	513.35	460.73	52.62	9.756		
14,100.00	12,520.67	14,482.98	12,864.73	25.70	27.52	132.09	-1,364.16	-737.94	513.35	459.66	53.69	9.561		
14,200.00	12,521.54	14,582.98	12,865.61	26.70	28.43	132.09	-1,464.15	-737.08	513.35	458.52	54.83	9.362		
14,300.00	12,522.42	14,682.98	12,866.49	27.75	29.37	132.09	-1,564.14	-736.22	513.36	457.33	56.03	9.163		
14,400.00	12,523.29	14,782.98	12,867.37	28.82	30.35	132.09	-1,664.14	-735.36	513.36	456.08	57.27	8.963		
14,500.00	12,524.16	14,882.98	12,868.24	29.91	31.36	132.09	-1,764.13	-734.50	513.36	454.79	58.57	8.764		
14,600.00	12,525.04	14,982.98	12,869.12	31.04	32.40	132.09	-1,864.12	-733.64	513.37	453.45	59.92	8.568		
14,700.00	12,525.91	15,082.98	12,870.00	32.18	33.46	132.09	-1,964.11	-732.78	513.37	452.06	61.31	8.373		
14,800.00	12,526.78	15,182.98	12,870.88	33.34	34.55	132.09	-2,064.11	-731.92	513.37	450.63	62.74	8.182		
14,900.00	12,527.66	15,282.98	12,871.75	34.51	35.65	132.09	-2,164.10	-731.06	513.38	449.17	64.21	7.995		
15,000.00	12,528.53	15,382.98	12,872.63	35.70	36.78	132.09	-2,264.09	-730.20	513.38	447.66	65.72	7.812		
15,100.00	12,529.40	15,482.98	12,873.51	36.91	37.92	132.09	-2,364.08	-729.34	513.38	446.13	67.25	7.634		
15,200.00	12,530.28	15,582.98	12,874.39	38.12	39.08	132.09	-2,464.08	-728.48	513.39	444.56	68.82	7.459		

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 215H
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 215H	Survey Calculation Method:	Minimum 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	Warning
15,300.00	12,531.15	15,682.98	12,875.27	39.35	40.25	132.09	-2,564.07	-727.62	513.39	442.97	70.42	7.290	
15,400.00	12,532.02	15,782.98	12,876.14	40.58	41.43	132.09	-2,664.06	-726.76	513.39	441.35	72.05	7.126	
15,500.00	12,532.89	15,882.98	12,877.02	41.82	42.62	132.09	-2,764.05	-725.90	513.40	439.70	73.70	6.966	
15,600.00	12,533.77	15,982.98	12,877.90	43.08	43.83	132.09	-2,864.05	-725.04	513.40	438.03	75.37	6.811	
15,700.00	12,534.64	16,082.98	12,878.78	44.34	45.04	132.09	-2,964.04	-724.18	513.41	436.34	77.07	6.662	
15,800.00	12,535.51	16,182.98	12,879.66	45.60	46.27	132.09	-3,064.03	-723.32	513.41	434.62	78.79	6.516	
15,900.00	12,536.39	16,282.98	12,880.53	46.87	47.50	132.09	-3,164.02	-722.45	513.41	432.89	80.52	6.376	
16,000.00	12,537.26	16,382.98	12,881.41	48.15	48.74	132.09	-3,264.02	-721.59	513.42	431.14	82.28	6.240	
16,100.00	12,538.13	16,482.98	12,882.29	49.43	49.99	132.09	-3,364.01	-720.73	513.42	429.37	84.05	6.109	
16,200.00	12,539.01	16,582.98	12,883.17	50.72	51.24	132.09	-3,464.00	-719.87	513.42	427.59	85.84	5.981	
16,300.00	12,539.88	16,682.98	12,884.05	52.01	52.50	132.09	-3,563.99	-719.01	513.43	425.79	87.64	5.858	
16,400.00	12,540.75	16,782.98	12,884.92	53.30	53.77	132.09	-3,663.99	-718.15	513.43	423.97	89.46	5.739	
16,500.00	12,541.63	16,882.98	12,885.80	54.60	55.04	132.10	-3,763.98	-717.29	513.43	422.15	91.29	5.624	
16,600.00	12,542.50	16,982.98	12,886.68	55.90	56.31	132.10	-3,863.97	-716.43	513.44	420.31	93.13	5.513	
16,700.00	12,543.37	17,082.98	12,887.56	57.21	57.59	132.10	-3,963.96	-715.57	513.44	418.46	94.98	5.406	
16,800.00	12,544.25	17,182.98	12,888.43	58.52	58.87	132.10	-4,063.96	-714.71	513.44	416.60	96.85	5.302	
16,900.00	12,545.12	17,282.98	12,889.31	59.83	60.16	132.10	-4,163.95	-713.85	513.45	414.72	98.72	5.201	
17,000.00	12,545.99	17,382.98	12,890.19	61.14	61.45	132.10	-4,263.94	-712.99	513.45	412.84	100.61	5.103	
17,100.00	12,546.87	17,482.98	12,891.07	62.46	62.75	132.10	-4,363.93	-712.13	513.45	410.95	102.50	5.009	
17,200.00	12,547.74	17,582.98	12,891.95	63.78	64.04	132.10	-4,463.92	-711.27	513.46	409.05	104.41	4.918	
17,300.00	12,548.61	17,682.98	12,892.82	65.10	65.35	132.10	-4,563.92	-710.41	513.46	407.14	106.32	4.830	
17,400.00	12,549.49	17,782.98	12,893.70	66.42	66.65	132.10	-4,663.91	-709.55	513.47	405.23	108.24	4.744	
17,500.00	12,550.36	17,882.98	12,894.58	67.75	67.96	132.10	-4,763.90	-708.69	513.47	403.31	110.16	4.661	
17,600.00	12,551.23	17,982.98	12,895.46	69.07	69.26	132.10	-4,863.89	-707.83	513.47	401.37	112.10	4.581	
17,700.00	12,552.11	18,082.98	12,896.34	70.40	70.58	132.10	-4,963.89	-706.97	513.48	399.44	114.04	4.503	
17,800.00	12,552.98	18,182.98	12,897.21	71.73	71.89	132.10	-5,063.88	-706.11	513.48	397.49	115.99	4.427	
17,900.00	12,553.85	18,282.98	12,898.09	73.06	73.20	132.10	-5,163.87	-705.25	513.48	395.54	117.94	4.354	
18,000.00	12,554.73	18,382.98	12,898.97	74.40	74.52	132.10	-5,263.86	-704.39	513.49	393.59	119.90	4.283	
18,100.00	12,555.60	18,482.98	12,899.85	75.73	75.84	132.10	-5,363.86	-703.53	513.49	391.63	121.86	4.214	
18,200.00	12,556.47	18,582.98	12,900.73	77.06	77.16	132.10	-5,463.85	-702.67	513.49	389.66	123.83	4.147	
18,300.00	12,557.35	18,682.98	12,901.60	78.40	78.49	132.10	-5,563.84	-701.81	513.50	387.69	125.81	4.082	
18,400.00	12,558.22	18,782.98	12,902.48	79.74	79.81	132.10	-5,663.83	-700.95	513.50	385.72	127.78	4.018	
18,500.00	12,559.09	18,882.98	12,903.36	81.08	81.14	132.10	-5,763.83	-700.09	513.50	383.74	129.77	3.957	
18,600.00	12,559.97	18,982.98	12,904.24	82.42	82.46	132.10	-5,863.82	-699.23	513.51	381.75	131.76	3.897	
18,700.00	12,560.84	19,082.98	12,905.11	83.76	83.79	132.10	-5,963.81	-698.36	513.51	379.76	133.75	3.839	
18,800.00	12,561.71	19,182.98	12,905.99	85.10	85.12	132.10	-6,063.80	-697.50	513.51	377.77	135.74	3.783	
18,900.00	12,562.59	19,282.98	12,906.87	86.44	86.46	132.10	-6,163.80	-696.64	513.52	375.77	137.74	3.728	
19,000.00	12,563.46	19,382.98	12,907.75	87.79	87.79	132.10	-6,263.79	-695.78	513.52	373.77	139.75	3.675	
19,100.00	12,564.33	19,482.98	12,908.63	89.13	89.12	132.10	-6,363.78	-694.92	513.53	371.77	141.75	3.623	
19,200.00	12,565.20	19,582.98	12,909.50	90.48	90.46	132.10	-6,463.77	-694.06	513.53	369.76	143.76	3.572	
19,300.00	12,566.08	19,682.98	12,910.38	91.82	91.79	132.10	-6,563.77	-693.20	513.53	367.75	145.78	3.523	
19,400.00	12,566.95	19,782.98	12,911.26	93.17	93.13	132.11	-6,663.76	-692.34	513.54	365.74	147.79	3.475	
19,500.00	12,567.82	19,882.98	12,912.14	94.51	94.47	132.11	-6,763.75	-691.48	513.54	363.73	149.81	3.428	
19,600.00	12,568.70	19,982.98	12,913.02	95.86	95.81	132.11	-6,863.74	-690.62	513.54	361.71	151.84	3.382	
19,700.00	12,569.57	20,082.98	12,913.89	97.21	97.15	132.11	-6,963.74	-689.76	513.55	359.69	153.86	3.338	
19,800.00	12,570.44	20,182.98	12,914.77	98.56	98.49	132.11	-7,063.73	-688.90	513.55	357.66	155.89	3.294	
19,900.00	12,571.32	20,282.98	12,915.65	99.91	99.83	132.11	-7,163.72	-688.04	513.55	355.64	157.92	3.252	
20,000.00	12,572.19	20,382.98	12,916.53	101.26	101.17	132.11	-7,263.71	-687.18	513.56	353.61	159.95	3.211	
20,100.00	12,573.06	20,482.98	12,917.41	102.61	102.51	132.11	-7,363.71	-686.32	513.56	351.58	161.98	3.170	
20,200.00	12,573.94	20,582.98	12,918.28	103.96	103.86	132.11	-7,463.70	-685.46	513.56	349.54	164.02	3.131	
20,300.00	12,574.81	20,682.98	12,919.16	105.31	105.20	132.11	-7,563.69	-684.60	513.57	347.51	166.06	3.093	
20,400.00	12,575.68	20,782.98	12,920.04	106.66	106.55	132.11	-7,663.68	-683.74	513.57	345.47	168.10	3.055	

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 215H
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 215H	Survey Calculation Method:	Minimum 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:			
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	12,576.56	20,882.98	12,920.92	108.02	107.89	132.11	-7,763.68	-682.88	513.58	343.43	170.14	3.018			
20,600.00	12,577.43	20,982.98	12,921.79	109.37	109.24	132.11	-7,863.67	-682.02	513.58	341.39	172.19	2.983			
20,700.00	12,578.30	21,082.98	12,922.67	110.72	110.59	132.11	-7,963.66	-681.16	513.58	339.35	174.24	2.948			
20,800.00	12,579.18	21,182.98	12,923.55	112.08	111.93	132.11	-8,063.65	-680.30	513.59	337.30	176.28	2.913			
20,900.00	12,580.05	21,282.98	12,924.43	113.43	113.28	132.11	-8,163.65	-679.44	513.59	335.26	178.33	2.880			
21,000.00	12,580.92	21,382.98	12,925.31	114.79	114.63	132.11	-8,263.64	-678.58	513.59	333.21	180.39	2.847			
21,100.00	12,581.80	21,482.98	12,926.18	116.14	115.98	132.11	-8,363.63	-677.72	513.60	331.16	182.44	2.815			
21,200.00	12,582.67	21,582.98	12,927.06	117.50	117.33	132.11	-8,463.62	-676.86	513.60	329.11	184.49	2.784			
21,300.00	12,583.54	21,682.98	12,927.94	118.85	118.68	132.11	-8,563.62	-676.00	513.60	327.05	186.55	2.753			
21,400.00	12,584.42	21,782.98	12,928.82	120.21	120.03	132.11	-8,663.61	-675.14	513.61	325.00	188.61	2.723			
21,500.00	12,585.29	21,882.98	12,929.70	121.56	121.38	132.11	-8,763.60	-674.27	513.61	322.94	190.67	2.694			
21,600.00	12,586.16	21,982.98	12,930.57	122.92	122.73	132.11	-8,863.59	-673.41	513.61	320.89	192.73	2.665			
21,700.00	12,587.04	22,082.98	12,931.45	124.28	124.08	132.11	-8,963.59	-672.55	513.62	318.83	194.79	2.637			
21,800.00	12,587.91	22,182.98	12,932.33	125.63	125.43	132.11	-9,063.58	-671.69	513.62	316.77	196.85	2.609			
21,900.00	12,588.78	22,282.98	12,933.21	126.99	126.79	132.11	-9,163.57	-670.83	513.62	314.71	198.92	2.582			
22,000.00	12,589.66	22,382.98	12,934.08	128.35	128.14	132.11	-9,263.56	-669.97	513.63	312.65	200.98	2.556			
22,100.00	12,590.53	22,482.98	12,934.96	129.71	129.49	132.11	-9,363.55	-669.11	513.63	310.58	203.05	2.530			
22,200.00	12,591.40	22,582.98	12,935.84	131.07	130.85	132.11	-9,463.55	-668.25	513.64	308.52	205.12	2.504			
22,300.00	12,592.28	22,682.98	12,936.72	132.42	132.20	132.11	-9,563.54	-667.39	513.64	306.45	207.19	2.479			
22,400.00	12,593.15	22,782.98	12,937.60	133.78	133.55	132.12	-9,663.53	-666.53	513.64	304.39	209.26	2.455			
22,500.00	12,594.02	22,882.98	12,938.47	135.14	134.91	132.12	-9,763.52	-665.67	513.65	302.32	211.33	2.431			
22,600.00	12,594.89	22,982.98	12,939.35	136.50	136.26	132.12	-9,863.52	-664.81	513.65	300.25	213.40	2.407			
22,700.00	12,595.77	23,082.98	12,940.23	137.86	137.62	132.12	-9,963.51	-663.95	513.65	298.18	215.47	2.384			
22,800.00	12,596.64	23,182.98	12,941.11	139.22	138.87	132.12	-10,063.50	-663.09	513.66	296.23	217.42	2.362			
22,806.75	12,596.70	23,189.73	12,941.17	139.31	138.95	132.12	-10,070.25	-663.03	513.66	296.10	217.55	2.361	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 215H
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 215H	Survey Calculation Method:	Minimum 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)													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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.50	0.50	0.00	135.00	0.00	135.00					
100.00	100.00	100.00	100.00	0.98	0.98	0.00	135.00	0.00	135.00	133.04	1.96	68.801		
200.00	200.00	200.00	200.00	1.56	1.56	0.00	135.00	0.00	135.00	131.88	3.12	43.238		
300.00	300.00	300.00	300.00	1.98	1.98	0.00	135.00	0.00	135.00	131.04	3.96	34.071		
400.00	399.99	399.99	399.99	2.41	2.33	41.06	135.00	0.00	134.01	129.30	4.71	28.471		
500.00	499.91	499.91	499.91	2.79	2.63	42.22	135.00	0.00	131.08	125.72	5.35	24.486		
600.00	599.69	599.69	599.69	3.12	2.91	44.26	135.00	0.00	126.31	120.37	5.93	21.293		
700.00	699.32	699.32	699.32	3.26	3.16	47.13	135.00	0.00	120.31	113.99	6.31	19.061		
800.00	798.94	798.94	798.94	3.51	3.40	50.32	135.00	0.00	114.54	107.75	6.79	16.875		
900.00	898.56	898.56	898.56	3.76	3.62	53.83	135.00	0.00	109.17	101.93	7.24	15.082		
1,000.00	998.18	998.18	998.18	3.99	3.83	57.69	135.00	0.00	104.25	96.58	7.67	13.596		
1,100.00	1,097.80	1,097.80	1,097.80	4.22	4.03	61.91	135.00	0.00	99.85	91.77	8.08	12.360		
1,200.00	1,197.42	1,197.42	1,197.42	4.45	4.23	66.49	135.00	0.00	96.04	87.56	8.48	11.326		
1,300.00	1,296.92	1,296.92	1,296.92	4.71	4.41	72.17	135.00	0.00	92.51	83.65	8.86	10.442		
1,400.00	1,396.13	1,396.13	1,396.13	4.97	4.59	79.84	135.00	0.00	89.45	80.21	9.23	9.687		
1,500.00	1,495.05	1,495.05	1,495.05	5.11	4.77	89.15	135.00	0.00	88.03	78.50	9.53	9.240		
1,507.11	1,502.09	1,502.05	1,502.05	5.12	4.78	89.83	135.00	0.00	88.02	78.46	9.55	9.212	CC, ES	
1,600.00	1,593.95	1,591.99	1,591.98	5.33	4.96	98.72	135.13	1.10	90.07	80.13	9.94	9.064		
1,700.00	1,692.86	1,688.32	1,688.24	5.54	5.15	107.98	135.57	4.61	97.02	86.67	10.35	9.372		
1,800.00	1,791.76	1,784.00	1,783.74	5.76	5.33	115.98	136.29	10.47	108.74	97.98	10.77	10.101		
1,900.00	1,890.66	1,880.42	1,879.81	5.97	5.42	122.45	137.27	18.50	124.43	113.34	11.09	11.220		
2,000.00	1,989.56	1,978.22	1,977.25	6.18	5.56	127.51	138.31	26.96	141.69	130.23	11.46	12.362		
2,100.00	2,088.46	2,076.03	2,074.69	6.39	5.71	131.46	139.35	35.42	159.80	147.96	11.84	13.497		
2,200.00	2,187.36	2,173.84	2,172.13	6.60	5.87	134.60	140.39	43.88	178.50	166.29	12.22	14.612		
2,300.00	2,286.26	2,269.30	2,267.17	6.81	6.03	136.96	141.79	52.59	198.04	185.46	12.58	15.745		
2,400.00	2,385.16	2,363.44	2,360.70	7.02	6.20	138.42	144.62	62.87	219.37	206.43	12.93	16.959		
2,500.00	2,484.06	2,457.04	2,453.44	7.23	6.37	139.20	148.93	74.81	242.35	229.06	13.29	18.238		
2,600.00	2,582.96	2,550.01	2,545.22	7.44	6.55	139.45	154.69	88.38	266.88	253.24	13.64	19.569		
2,700.00	2,681.87	2,642.22	2,635.91	7.65	6.73	139.31	161.84	103.50	292.92	278.93	13.99	20.944		
2,800.00	2,780.77	2,735.29	2,727.04	7.85	6.90	138.89	170.42	120.33	320.37	306.03	14.34	22.343		
2,900.00	2,879.67	2,831.32	2,820.97	8.06	7.06	138.46	179.59	138.06	348.15	333.45	14.70	23.677		
3,000.00	2,978.57	2,927.35	2,914.90	8.27	7.23	138.10	188.76	155.79	375.96	360.88	15.08	24.938		
3,100.00	3,077.47	3,023.38	3,008.84	8.47	7.39	137.78	197.93	173.52	403.77	388.32	15.45	26.134		
3,200.00	3,176.37	3,119.41	3,102.77	8.68	7.56	137.51	207.09	191.25	431.60	415.77	15.83	27.269		
3,300.00	3,275.27	3,215.45	3,196.71	8.89	7.73	137.26	216.26	208.98	459.43	443.22	16.21	28.348		
3,400.00	3,374.17	3,311.48	3,290.64	9.09	7.90	137.05	225.43	226.71	487.27	470.68	16.59	29.373		
3,500.00	3,473.07	3,407.51	3,384.58	9.30	8.08	136.86	234.60	244.44	515.12	498.14	16.97	30.349		
3,600.00	3,571.97	3,503.54	3,478.51	9.50	8.30	136.69	243.77	252.97	542.97	525.61	17.36	31.278		
3,700.00	3,670.87	3,599.57	3,572.44	9.71	8.52	136.53	252.94	269.90	570.82	553.07	17.75	32.164		
3,800.00	3,769.78	3,695.60	3,666.38	9.91	8.74	136.39	262.11	297.63	598.68	580.54	18.14	33.009		
3,900.00	3,868.68	3,791.64	3,760.31	10.12	8.97	136.27	271.28	315.36	626.54	608.01	18.53	33.815		
4,000.00	3,967.58	3,887.67	3,854.25	10.33	9.20	136.15	280.45	333.09	654.40	635.48	18.92	34.586		
4,100.00	4,066.48	3,983.70	3,948.18	10.53	9.43	136.04	289.62	350.81	682.27	662.95	19.32	35.322		
4,200.00	4,165.38	4,079.73	4,042.12	10.74	9.66	135.94	298.79	368.54	710.13	690.42	19.71	36.027		
4,300.00	4,264.28	4,175.76	4,136.05	10.94	9.90	135.85	307.96	386.27	738.00	717.90	20.11	36.702		
4,400.00	4,363.18	4,271.79	4,229.98	11.14	10.13	135.78	317.13	404.00	765.87	745.37	20.50	37.360		
4,500.00	4,462.28	4,368.08	4,324.17	11.36	10.37	135.92	326.32	421.78	792.77	771.87	20.90	37.931		
4,600.00	4,561.69	4,464.81	4,418.78	11.56	10.61	135.91	335.56	439.64	817.87	796.58	21.29	38.419		
4,700.00	4,661.35	4,561.90	4,513.76	11.76	10.86	135.78	344.83	457.56	841.16	819.50	21.66	38.832		
4,800.00	4,761.20	4,659.30	4,609.02	11.95	11.10	135.52	354.13	475.55	862.68	840.66	22.02	39.177		
4,900.00	4,861.15	4,756.93	4,704.52	12.12	11.35	135.14	363.45	493.57	882.44	860.08	22.36	39.467		
5,000.00	4,961.15	4,854.71	4,800.17	12.19	11.60	93.90	372.79	511.62	900.61	877.99	22.62	39.821		

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 215H
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 215H	Survey Calculation Method:	Minimum 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)												Offset Site Error: 0.00 usft	
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
5,100.00	5,061.15	4,952.53	4,895.85	12.27	11.85	93.23	382.12	529.68	918.55	895.65	22.90	40.117	
5,200.00	5,161.15	5,050.35	4,991.53	12.35	12.11	92.59	391.46	547.74	936.60	913.42	23.18	40.409	
5,300.00	5,261.15	5,148.16	5,087.21	12.43	12.35	91.97	400.80	565.80	954.76	931.32	23.44	40.725	
5,400.00	5,361.15	5,271.64	5,208.34	12.52	12.63	91.27	411.82	587.11	971.86	948.04	23.82	40.800	
5,500.00	5,461.15	5,399.19	5,334.19	12.60	12.92	90.69	421.31	605.46	986.17	961.95	24.22	40.725	
5,600.00	5,561.15	5,528.00	5,461.93	12.68	13.16	90.24	428.94	620.20	997.58	973.00	24.58	40.578	
5,700.00	5,661.15	5,657.80	5,591.13	12.76	13.37	89.91	434.61	631.17	1,006.04	981.11	24.93	40.361	
5,800.00	5,761.15	5,788.29	5,721.37	12.84	13.54	89.71	438.28	638.26	1,011.49	986.25	25.24	40.078	
5,900.00	5,861.15	5,919.18	5,852.21	12.93	13.67	89.61	439.90	641.40	1,013.90	988.40	25.50	39.763	
6,000.00	5,961.15	6,028.12	5,961.15	13.01	13.73	89.61	439.99	641.57	1,014.02	988.39	25.64	39.552	
6,100.00	6,061.15	6,128.12	6,061.15	13.09	13.80	89.61	439.99	641.57	1,014.02	988.23	25.79	39.319	
6,200.00	6,161.15	6,228.12	6,161.15	13.17	13.87	89.61	439.99	641.57	1,014.02	988.08	25.94	39.088	
6,300.00	6,261.15	6,328.12	6,261.15	13.25	13.94	89.61	439.99	641.57	1,014.02	987.93	26.09	38.859	
6,400.00	6,361.15	6,428.12	6,361.15	13.33	14.02	89.61	439.99	641.57	1,014.02	987.78	26.25	38.633	
6,500.00	6,461.15	6,528.12	6,461.15	13.42	14.09	89.61	439.99	641.57	1,014.02	987.62	26.40	38.410	
6,600.00	6,561.15	6,628.12	6,561.15	13.50	14.16	89.61	439.99	641.57	1,014.02	987.47	26.55	38.189	
6,700.00	6,661.15	6,728.12	6,661.15	13.58	14.24	89.61	439.99	641.57	1,014.02	987.32	26.71	37.970	
6,800.00	6,761.15	6,828.12	6,761.15	13.66	14.31	89.61	439.99	641.57	1,014.02	987.16	26.86	37.753	
6,900.00	6,861.15	6,928.12	6,861.15	13.74	14.39	89.61	439.99	641.57	1,014.02	987.01	27.01	37.539	
7,000.00	6,961.15	7,028.12	6,961.15	13.83	14.46	89.61	439.99	641.57	1,014.02	986.86	27.17	37.327	
7,100.00	7,061.15	7,128.12	7,061.15	13.91	14.53	89.61	439.99	641.57	1,014.02	986.70	27.32	37.118	
7,200.00	7,161.15	7,228.12	7,161.15	13.99	14.61	89.61	439.99	641.57	1,014.02	986.55	27.47	36.910	
7,300.00	7,261.15	7,328.13	7,261.15	14.07	14.68	89.61	439.99	641.57	1,014.02	986.40	27.63	36.705	
7,400.00	7,361.15	7,428.13	7,361.15	14.15	14.76	89.61	439.99	641.57	1,014.02	986.24	27.78	36.502	
7,500.00	7,461.15	7,528.13	7,461.15	14.24	14.83	89.61	439.99	641.57	1,014.02	986.09	27.93	36.301	
7,600.00	7,561.15	7,628.13	7,561.15	14.32	14.90	89.61	439.99	641.57	1,014.02	985.94	28.09	36.102	
7,700.00	7,661.15	7,728.13	7,661.15	14.40	14.98	89.61	439.99	641.57	1,014.02	985.78	28.24	35.905	
7,800.00	7,761.15	7,828.13	7,761.15	14.48	15.05	89.61	439.99	641.57	1,014.02	985.63	28.40	35.710	
7,900.00	7,861.15	7,928.13	7,861.15	14.56	15.13	89.61	439.99	641.57	1,014.02	985.47	28.55	35.517	
8,000.00	7,961.15	8,028.13	7,961.15	14.65	15.20	89.61	439.99	641.57	1,014.02	985.32	28.70	35.326	
8,100.00	8,061.15	8,128.13	8,061.15	14.73	15.28	89.61	439.99	641.57	1,014.02	985.16	28.86	35.137	
8,200.00	8,161.15	8,228.13	8,161.15	14.81	15.35	89.61	439.99	641.57	1,014.02	985.01	29.01	34.950	
8,300.00	8,261.15	8,328.13	8,261.15	14.89	15.43	89.61	439.99	641.57	1,014.02	984.86	29.17	34.764	
8,400.00	8,361.15	8,428.13	8,361.15	14.98	15.50	89.61	439.99	641.57	1,014.02	984.70	29.32	34.581	
8,500.00	8,461.15	8,528.13	8,461.15	15.06	15.58	89.61	439.99	641.57	1,014.02	984.55	29.48	34.399	
8,600.00	8,561.15	8,628.13	8,561.15	15.14	15.65	89.61	439.99	641.57	1,014.02	984.39	29.63	34.220	
8,700.00	8,661.15	8,728.13	8,661.15	15.22	15.73	89.61	439.99	641.57	1,014.02	984.24	29.79	34.042	
8,800.00	8,761.15	8,828.13	8,761.15	15.30	15.80	89.61	439.99	641.57	1,014.02	984.08	29.94	33.865	
8,900.00	8,861.15	8,928.13	8,861.15	15.39	15.88	89.61	439.99	641.57	1,014.02	983.93	30.10	33.691	
9,000.00	8,961.15	9,028.13	8,961.15	15.47	15.95	89.61	439.99	641.57	1,014.02	983.77	30.25	33.518	
9,100.00	9,061.15	9,128.13	9,061.15	15.55	16.03	89.61	439.99	641.57	1,014.02	983.61	30.41	33.347	
9,200.00	9,161.15	9,228.13	9,161.15	15.63	16.10	89.61	439.99	641.57	1,014.02	983.46	30.56	33.177	
9,300.00	9,261.15	9,328.13	9,261.15	15.71	16.18	89.61	439.99	641.57	1,014.02	983.30	30.72	33.009	
9,400.00	9,361.15	9,428.13	9,361.15	15.80	16.25	89.61	439.99	641.57	1,014.02	983.15	30.88	32.843	
9,500.00	9,461.15	9,528.13	9,461.15	15.88	16.33	89.61	439.99	641.57	1,014.02	982.99	31.03	32.678	
9,600.00	9,561.15	9,628.13	9,561.15	15.96	16.41	89.61	439.99	641.57	1,014.02	982.84	31.19	32.515	
9,700.00	9,661.15	9,728.13	9,661.15	16.04	16.48	89.61	439.99	641.57	1,014.02	982.68	31.34	32.353	
9,800.00	9,761.15	9,828.13	9,761.15	16.12	16.56	89.61	439.99	641.57	1,014.02	982.53	31.50	32.193	
9,900.00	9,861.15	9,928.13	9,861.15	16.21	16.63	89.61	439.99	641.57	1,014.02	982.37	31.65	32.035	
10,000.00	9,961.15	10,028.13	9,961.15	16.29	16.71	89.61	439.99	641.57	1,014.02	982.21	31.81	31.878	
10,100.00	10,061.15	10,128.13	10,061.15	16.37	16.79	89.61	439.99	641.57	1,014.02	982.06	31.97	31.722	
10,200.00	10,161.15	10,228.13	10,161.15	16.45	16.86	89.61	439.99	641.57	1,014.02	981.90	32.12	31.568	

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 215H
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 215H	Survey Calculation Method:	Minimum 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)		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	10,261.15	10,328.13	10,261.15	16.54	16.94	89.61	439.99	641.57	1,014.02	981.75	32.28	31.415	
10,400.00	10,361.15	10,428.13	10,361.15	16.62	17.01	89.61	439.99	641.57	1,014.02	981.59	32.43	31.264	
10,500.00	10,461.15	10,528.13	10,461.15	16.70	17.09	89.61	439.99	641.57	1,014.02	981.43	32.59	31.114	
10,600.00	10,561.15	10,628.13	10,561.15	16.78	17.17	89.61	439.99	641.57	1,014.02	981.28	32.75	30.965	
10,700.00	10,661.15	10,728.13	10,661.15	16.86	17.24	89.61	439.99	641.57	1,014.02	981.12	32.90	30.818	
10,800.00	10,761.15	10,828.13	10,761.15	16.95	17.32	89.61	439.99	641.57	1,014.02	980.96	33.06	30.672	
10,900.00	10,861.15	10,928.13	10,861.15	17.03	17.40	89.61	439.99	641.57	1,014.02	980.81	33.22	30.527	
11,000.00	10,961.15	11,028.13	10,961.15	17.11	17.47	89.61	439.99	641.57	1,014.02	980.65	33.37	30.384	
11,100.00	11,061.15	11,128.13	11,061.15	17.19	17.55	89.61	439.99	641.57	1,014.02	980.49	33.53	30.242	
11,200.00	11,161.15	11,228.13	11,161.15	17.27	17.63	89.61	439.99	641.57	1,014.02	980.34	33.69	30.101	
11,300.00	11,261.15	11,328.13	11,261.15	17.36	17.70	89.61	439.99	641.57	1,014.02	980.18	33.84	29.962	
11,400.00	11,361.15	11,428.13	11,361.15	17.44	17.78	89.61	439.99	641.57	1,014.02	980.02	34.00	29.823	
11,500.00	11,461.15	11,528.13	11,461.15	17.52	17.86	89.61	439.99	641.57	1,014.02	979.87	34.16	29.686	
11,600.00	11,561.15	11,628.13	11,561.15	17.60	17.93	89.61	439.99	641.57	1,014.02	979.71	34.31	29.551	
11,700.00	11,661.15	11,728.13	11,661.15	17.69	18.01	89.61	439.99	641.57	1,014.02	979.55	34.47	29.416	
11,800.00	11,761.15	11,828.13	11,761.15	17.77	18.09	89.61	439.99	641.57	1,014.02	979.39	34.63	29.282	
11,900.00	11,861.15	11,928.13	11,861.15	17.85	18.16	89.61	439.99	641.57	1,014.02	979.24	34.79	29.150	
12,000.00	11,961.14	12,028.12	11,961.14	17.90	18.24	-89.93	439.99	641.57	1,014.02	979.11	34.91	29.044	
12,021.67	11,982.76	12,049.74	11,982.76	17.91	18.26	-90.00	439.99	641.57	1,014.02	979.11	34.91	29.046	
12,100.00	12,060.18	12,127.16	12,060.18	17.93	18.32	-90.64	439.99	641.57	1,014.09	979.19	34.90	29.056	
12,200.00	12,155.47	12,222.45	12,155.47	17.96	18.39	-92.16	439.99	641.57	1,014.87	980.06	34.81	29.158	
12,300.00	12,244.13	12,311.11	12,244.13	17.98	18.46	-94.16	439.99	641.57	1,017.79	983.14	34.64	29.380	
12,400.00	12,323.46	12,420.55	12,353.41	18.01	18.53	-97.12	435.91	641.18	1,024.22	989.79	34.42	29.753	
12,500.00	12,391.04	12,584.62	12,511.31	18.04	18.58	-101.33	393.62	637.10	1,031.31	996.91	34.40	29.976	
12,600.00	12,444.83	12,796.44	12,686.21	18.09	18.62	-105.69	276.82	625.86	1,035.60	1,000.42	35.18	29.434	
12,700.00	12,483.18	13,054.27	12,824.19	18.16	18.82	-108.78	62.58	605.23	1,032.59	995.89	36.70	28.134	
12,800.00	12,504.94	13,267.69	12,858.12	18.27	19.25	-109.55	-145.97	585.22	1,019.97	982.51	37.45	27.233	
12,900.00	12,510.19	13,342.33	12,858.77	18.42	19.49	-110.19	-220.40	579.58	1,010.56	972.80	37.77	26.758	
13,000.00	12,511.06	13,417.39	12,859.42	18.62	19.77	-110.28	-295.36	575.85	1,005.10	966.83	38.28	26.259	
13,100.00	12,511.94	13,500.00	12,860.14	18.88	20.14	-110.33	-377.94	574.03	1,002.14	963.21	38.93	25.739	
13,200.00	12,512.81	13,574.93	12,860.79	19.20	20.51	-110.33	-452.87	574.30	1,001.47	961.83	39.64	25.263	
13,222.39	12,513.01	13,597.32	12,860.99	19.29	20.63	-110.33	-475.25	574.49	1,001.47	961.62	39.85	25.129	
13,300.00	12,513.68	13,674.93	12,861.66	19.61	21.09	-110.33	-552.86	575.16	1,001.47	960.83	40.63	24.646	
13,400.00	12,514.56	13,774.93	12,862.53	20.11	21.73	-110.33	-652.85	576.02	1,001.46	959.70	41.76	23.980	
13,500.00	12,515.43	13,874.93	12,863.40	20.70	22.43	-110.33	-752.84	576.88	1,001.46	958.45	43.02	23.281	
13,600.00	12,516.30	13,974.93	12,864.26	21.37	23.20	-110.33	-852.84	577.74	1,001.46	957.07	44.39	22.562	
13,700.00	12,517.18	14,074.93	12,865.13	22.12	24.02	-110.33	-952.83	578.60	1,001.46	955.60	45.86	21.836	
13,800.00	12,518.05	14,174.93	12,866.00	22.93	24.88	-110.33	-1,052.82	579.46	1,001.46	954.02	47.43	21.113	
13,900.00	12,518.92	14,274.93	12,866.87	23.80	25.80	-110.33	-1,152.81	580.32	1,001.45	952.36	49.09	20.400	
14,000.00	12,519.80	14,374.93	12,867.74	24.73	26.75	-110.33	-1,252.81	581.18	1,001.45	950.63	50.83	19.704	
14,100.00	12,520.67	14,474.93	12,868.60	25.70	27.74	-110.33	-1,352.80	582.04	1,001.45	948.82	52.63	19.028	
14,200.00	12,521.54	14,574.93	12,869.47	26.70	28.76	-110.33	-1,452.79	582.90	1,001.45	946.95	54.50	18.376	
14,300.00	12,522.42	14,674.93	12,870.34	27.75	29.80	-110.33	-1,552.78	583.76	1,001.45	945.02	56.42	17.749	
14,400.00	12,523.29	14,774.93	12,871.21	28.82	30.88	-110.33	-1,652.78	584.62	1,001.44	943.04	58.40	17.148	
14,500.00	12,524.16	14,874.93	12,872.08	29.91	31.98	-110.33	-1,752.77	585.48	1,001.44	941.02	60.42	16.574	
14,600.00	12,525.04	14,974.93	12,872.94	31.04	33.10	-110.33	-1,852.76	586.35	1,001.44	938.95	62.49	16.026	
14,700.00	12,525.91	15,074.93	12,873.81	32.18	34.23	-110.33	-1,952.75	587.21	1,001.44	936.85	64.59	15.505	
14,800.00	12,526.78	15,174.93	12,874.68	33.34	35.39	-110.33	-2,052.75	588.07	1,001.44	934.71	66.73	15.008	
14,900.00	12,527.66	15,274.93	12,875.55	34.51	36.56	-110.33	-2,152.74	588.93	1,001.43	932.54	68.89	14.536	
15,000.00	12,528.53	15,374.93	12,876.42	35.70	37.74	-110.33	-2,252.73	589.79	1,001.43	930.34	71.09	14.087	
15,100.00	12,529.40	15,474.93	12,877.28	36.91	38.94	-110.33	-2,352.72	590.65	1,001.43	928.12	73.31	13.660	
15,200.00	12,530.28	15,574.93	12,878.15	38.12	40.14	-110.33	-2,452.72	591.51	1,001.43	925.88	75.55	13.255	

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 215H
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 215H	Survey Calculation Method:	Minimum 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		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	12,531.15	15,674.93	12,879.02	39.35	41.36	-110.33	-2,552.71	592.37	1,001.43	923.61	77.82	12.869	
15,400.00	12,532.02	15,774.93	12,879.89	40.58	42.59	-110.33	-2,652.70	593.23	1,001.42	921.32	80.10	12.502	
15,500.00	12,532.89	15,874.93	12,880.76	41.82	43.82	-110.33	-2,752.69	594.09	1,001.42	919.02	82.41	12.152	
15,600.00	12,533.77	15,974.93	12,881.63	43.08	45.07	-110.33	-2,852.69	594.95	1,001.42	916.69	84.73	11.819	
15,700.00	12,534.64	16,074.93	12,882.49	44.34	46.32	-110.33	-2,952.68	595.81	1,001.42	914.36	87.06	11.502	
15,800.00	12,535.51	16,174.93	12,883.36	45.60	47.57	-110.33	-3,052.67	596.67	1,001.42	912.01	89.41	11.200	
15,900.00	12,536.39	16,274.93	12,884.23	46.87	48.84	-110.33	-3,152.66	597.53	1,001.41	909.64	91.77	10.912	
16,000.00	12,537.26	16,374.93	12,885.10	48.15	50.11	-110.33	-3,252.66	598.40	1,001.41	907.27	94.15	10.637	
16,100.00	12,538.13	16,474.93	12,885.97	49.43	51.38	-110.33	-3,352.65	599.26	1,001.41	904.88	96.53	10.374	
16,200.00	12,539.01	16,574.93	12,886.83	50.72	52.66	-110.33	-3,452.64	600.12	1,001.41	902.48	98.92	10.123	
16,300.00	12,539.88	16,674.93	12,887.70	52.01	53.94	-110.33	-3,552.63	600.98	1,001.41	900.08	101.33	9.883	
16,400.00	12,540.75	16,774.93	12,888.57	53.30	55.23	-110.32	-3,652.63	601.84	1,001.40	897.66	103.74	9.653	
16,500.00	12,541.63	16,874.93	12,889.44	54.60	56.52	-110.32	-3,752.62	602.70	1,001.40	895.24	106.16	9.433	
16,600.00	12,542.50	16,974.93	12,890.31	55.90	57.82	-110.32	-3,852.61	603.56	1,001.40	892.81	108.59	9.222	
16,700.00	12,543.37	17,074.93	12,891.17	57.21	59.12	-110.32	-3,952.60	604.42	1,001.40	890.37	111.03	9.019	
16,800.00	12,544.25	17,174.93	12,892.04	58.52	60.42	-110.32	-4,052.60	605.28	1,001.40	887.93	113.47	8.825	
16,900.00	12,545.12	17,274.93	12,892.91	59.83	61.72	-110.32	-4,152.59	606.14	1,001.39	885.47	115.92	8.639	
17,000.00	12,545.99	17,374.93	12,893.78	61.14	63.03	-110.32	-4,252.58	607.00	1,001.39	883.02	118.38	8.459	
17,100.00	12,546.87	17,474.93	12,894.65	62.46	64.34	-110.32	-4,352.57	607.86	1,001.39	880.55	120.84	8.287	
17,200.00	12,547.74	17,574.93	12,895.51	63.78	65.66	-110.32	-4,452.57	608.72	1,001.39	878.09	123.30	8.121	
17,300.00	12,548.61	17,674.93	12,896.38	65.10	66.97	-110.32	-4,552.56	609.58	1,001.39	875.61	125.77	7.962	
17,400.00	12,549.49	17,774.93	12,897.25	66.42	68.29	-110.32	-4,652.55	610.45	1,001.38	873.14	128.25	7.808	
17,500.00	12,550.36	17,874.93	12,898.12	67.75	69.61	-110.32	-4,752.54	611.31	1,001.38	870.65	130.73	7.660	
17,600.00	12,551.23	17,974.93	12,898.99	69.07	70.93	-110.32	-4,852.54	612.17	1,001.38	868.17	133.21	7.517	
17,700.00	12,552.11	18,074.93	12,899.85	70.40	72.25	-110.32	-4,952.53	613.03	1,001.38	865.68	135.70	7.379	
17,800.00	12,552.98	18,174.93	12,900.72	71.73	73.58	-110.32	-5,052.52	613.89	1,001.38	863.19	138.19	7.246	
17,900.00	12,553.85	18,274.93	12,901.59	73.06	74.90	-110.32	-5,152.51	614.75	1,001.37	860.69	140.69	7.118	
18,000.00	12,554.73	18,374.93	12,902.46	74.40	76.23	-110.32	-5,252.51	615.61	1,001.37	858.19	143.18	6.994	
18,100.00	12,555.60	18,474.93	12,903.33	75.73	77.56	-110.32	-5,352.50	616.47	1,001.37	855.68	145.69	6.873	
18,200.00	12,556.47	18,574.93	12,904.19	77.06	78.89	-110.32	-5,452.49	617.33	1,001.37	853.18	148.19	6.757	
18,300.00	12,557.35	18,674.93	12,905.06	78.40	80.22	-110.32	-5,552.48	618.19	1,001.37	850.67	150.70	6.645	
18,400.00	12,558.22	18,774.93	12,905.93	79.74	81.56	-110.32	-5,652.48	619.05	1,001.36	848.16	153.21	6.536	
18,500.00	12,559.09	18,874.93	12,906.80	81.08	82.89	-110.32	-5,752.47	619.91	1,001.36	845.64	155.72	6.431	
18,600.00	12,559.97	18,974.93	12,907.67	82.42	84.23	-110.32	-5,852.46	620.77	1,001.36	843.13	158.23	6.328	
18,700.00	12,560.84	19,074.93	12,908.53	83.76	85.57	-110.32	-5,952.46	621.63	1,001.36	840.61	160.75	6.229	
18,800.00	12,561.71	19,174.93	12,909.40	85.10	86.90	-110.32	-6,052.45	622.50	1,001.36	838.08	163.27	6.133	
18,900.00	12,562.59	19,274.93	12,910.27	86.44	88.24	-110.32	-6,152.44	623.36	1,001.35	835.56	165.79	6.040	
19,000.00	12,563.46	19,374.93	12,911.14	87.79	89.58	-110.32	-6,252.43	624.22	1,001.35	833.04	168.32	5.949	
19,100.00	12,564.33	19,474.93	12,912.01	89.13	90.92	-110.32	-6,352.43	625.08	1,001.35	830.51	170.84	5.861	
19,200.00	12,565.20	19,574.93	12,912.87	90.48	92.26	-110.32	-6,452.42	625.94	1,001.35	827.98	173.37	5.776	
19,300.00	12,566.08	19,674.93	12,913.74	91.82	93.61	-110.32	-6,552.41	626.80	1,001.35	825.45	175.90	5.693	
19,400.00	12,566.95	19,774.93	12,914.61	93.17	94.95	-110.32	-6,652.40	627.66	1,001.34	822.91	178.43	5.612	
19,500.00	12,567.82	19,874.93	12,915.48	94.51	96.29	-110.32	-6,752.40	628.52	1,001.34	820.38	180.96	5.533	
19,600.00	12,568.70	19,974.93	12,916.35	95.86	97.64	-110.32	-6,852.39	629.38	1,001.34	817.84	183.50	5.457	
19,700.00	12,569.57	20,074.93	12,917.21	97.21	98.98	-110.32	-6,952.38	630.24	1,001.34	815.31	186.03	5.383	
19,800.00	12,570.44	20,174.93	12,918.08	98.56	100.33	-110.32	-7,052.37	631.10	1,001.34	812.77	188.57	5.310	
19,900.00	12,571.32	20,274.93	12,918.95	99.91	101.68	-110.32	-7,152.37	631.96	1,001.33	810.23	191.11	5.240	
20,000.00	12,572.19	20,374.93	12,919.82	101.26	103.02	-110.31	-7,252.36	632.82	1,001.33	807.68	193.65	5.171	
20,100.00	12,573.06	20,474.93	12,920.69	102.61	104.37	-110.31	-7,352.35	633.68	1,001.33	805.14	196.19	5.104	
20,200.00	12,573.94	20,574.93	12,921.55	103.96	105.72	-110.31	-7,452.34	634.55	1,001.33	802.60	198.73	5.039	
20,300.00	12,574.81	20,674.93	12,922.42	105.31	107.07	-110.31	-7,552.34	635.41	1,001.33	800.05	201.27	4.975	
20,400.00	12,575.68	20,774.93	12,923.29	106.66	108.42	-110.31	-7,652.33	636.27	1,001.32	797.51	203.82	4.913	

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 215H
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 215H	Survey Calculation Method:	Minimum 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
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
20,500.00	12,576.56	20,874.93	12,924.16	108.02	109.77	-110.31	-7,752.32	637.13	1,001.32	794.96	206.36	4.852
20,600.00	12,577.43	20,974.93	12,925.03	109.37	111.12	-110.31	-7,852.31	637.99	1,001.32	792.41	208.91	4.793
20,700.00	12,578.30	21,074.93	12,925.89	110.72	112.47	-110.31	-7,952.31	638.85	1,001.32	789.86	211.46	4.735
20,800.00	12,579.18	21,174.93	12,926.76	112.08	113.82	-110.31	-8,052.30	639.71	1,001.32	787.31	214.01	4.679
20,900.00	12,580.05	21,274.93	12,927.63	113.43	115.17	-110.31	-8,152.29	640.57	1,001.31	784.76	216.56	4.624
21,000.00	12,580.92	21,374.93	12,928.50	114.79	116.53	-110.31	-8,252.28	641.43	1,001.31	782.20	219.11	4.570
21,100.00	12,581.80	21,474.93	12,929.37	116.14	117.88	-110.31	-8,352.28	642.29	1,001.31	779.65	221.66	4.517
21,200.00	12,582.67	21,574.93	12,930.23	117.50	119.23	-110.31	-8,452.27	643.15	1,001.31	777.10	224.21	4.466
21,300.00	12,583.54	21,674.93	12,931.10	118.85	120.59	-110.31	-8,552.26	644.01	1,001.31	774.54	226.77	4.416
21,400.00	12,584.42	21,774.93	12,931.97	120.21	121.94	-110.31	-8,652.25	644.87	1,001.30	771.99	229.32	4.366
21,500.00	12,585.29	21,874.93	12,932.84	121.56	123.29	-110.31	-8,752.25	645.73	1,001.30	769.43	231.87	4.318
21,600.00	12,586.16	21,974.93	12,933.71	122.92	124.65	-110.31	-8,852.24	646.60	1,001.30	766.87	234.43	4.271
21,700.00	12,587.04	22,074.93	12,934.58	124.28	126.00	-110.31	-8,952.23	647.46	1,001.30	764.31	236.99	4.225
21,800.00	12,587.91	22,174.93	12,935.44	125.63	127.36	-110.31	-9,052.22	648.32	1,001.30	761.75	239.54	4.180
21,900.00	12,588.78	22,274.93	12,936.31	126.99	128.71	-110.31	-9,152.22	649.18	1,001.29	759.19	242.10	4.136
22,000.00	12,589.66	22,374.93	12,937.18	128.35	130.07	-110.31	-9,252.21	650.04	1,001.29	756.63	244.66	4.093
22,100.00	12,590.53	22,474.93	12,938.05	129.71	131.43	-110.31	-9,352.20	650.90	1,001.29	754.07	247.22	4.050
22,200.00	12,591.40	22,574.93	12,938.92	131.07	132.78	-110.31	-9,452.19	651.76	1,001.29	751.51	249.78	4.009
22,300.00	12,592.28	22,674.93	12,939.78	132.42	134.14	-110.31	-9,552.19	652.62	1,001.29	748.95	252.34	3.968
22,400.00	12,593.15	22,774.93	12,940.65	133.78	135.50	-110.31	-9,652.18	653.48	1,001.28	746.39	254.90	3.928
22,500.00	12,594.02	22,874.93	12,941.52	135.14	136.85	-110.31	-9,752.17	654.34	1,001.28	743.82	257.46	3.889
22,600.00	12,594.89	22,974.93	12,942.39	136.50	138.21	-110.31	-9,852.16	655.20	1,001.28	741.26	260.02	3.851
22,700.00	12,595.77	23,074.93	12,943.26	137.86	139.57	-110.31	-9,952.16	656.06	1,001.28	738.70	262.58	3.813
22,800.00	12,596.64	23,174.93	12,944.12	139.22	140.93	-110.31	-10,052.15	656.92	1,001.28	736.13	265.14	3.776
22,806.75	12,596.70	23,181.68	12,944.18	139.31	141.02	-110.31	-10,058.90	656.98	1,001.28	735.96	265.32	3.774 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 215H
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 215H	Survey Calculation Method:	Minimum 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)		
3,400.00	3,374.17	3,787.49	3,761.50	9.09	8.28	118.16	867.13	2,166.21	2,513.36	2,496.37	17.00	147.861
3,500.00	3,473.07	3,884.30	3,856.61	9.30	8.47	118.68	853.67	2,154.18	2,504.92	2,487.54	17.38	144.119
3,600.00	3,571.97	3,981.10	3,951.72	9.50	8.67	119.21	840.21	2,142.15	2,496.70	2,478.94	17.77	140.526
3,700.00	3,670.87	4,077.91	4,046.82	9.71	8.87	119.74	826.74	2,130.11	2,488.71	2,470.55	18.16	137.077
3,800.00	3,769.78	4,174.71	4,141.93	9.91	9.08	120.28	813.28	2,118.08	2,480.94	2,462.40	18.55	133.764
3,900.00	3,868.68	4,271.52	4,237.04	10.12	9.29	120.82	799.82	2,106.04	2,473.41	2,454.46	18.94	130.581
4,000.00	3,967.58	4,368.32	4,332.14	10.33	9.50	121.36	786.36	2,094.01	2,466.10	2,446.76	19.34	127.523
4,100.00	4,066.48	4,465.13	4,427.25	10.53	9.71	121.90	772.90	2,081.98	2,459.03	2,439.29	19.74	124.583
4,200.00	4,165.38	4,561.93	4,522.36	10.74	9.93	122.45	759.44	2,069.94	2,452.20	2,432.06	20.14	121.757
4,300.00	4,264.28	4,658.74	4,617.46	10.94	10.15	123.00	745.98	2,057.91	2,445.60	2,425.06	20.54	119.038
4,400.00	4,363.18	4,755.54	4,712.57	11.14	10.37	123.55	732.52	2,045.88	2,439.24	2,418.30	20.95	116.458
4,500.00	4,462.28	4,852.58	4,807.90	11.36	10.59	124.00	719.03	2,033.82	2,432.34	2,410.99	21.35	113.917
4,600.00	4,561.69	4,949.98	4,903.60	11.56	10.81	124.38	705.48	2,021.71	2,424.18	2,402.43	21.74	111.484
4,700.00	4,661.35	5,047.70	4,999.59	11.76	11.04	124.71	691.90	2,009.56	2,414.71	2,392.59	22.12	109.152
4,800.00	4,761.20	5,145.65	5,095.83	11.95	11.27	124.98	678.28	1,997.38	2,403.89	2,381.41	22.48	106.912
4,900.00	4,861.15	5,243.78	5,192.24	12.12	11.50	125.18	664.63	1,985.19	2,391.69	2,368.86	22.83	104.763
5,000.00	4,961.15	5,342.01	5,288.74	12.19	11.73	84.69	650.97	1,972.98	2,378.18	2,355.07	23.10	102.938
5,100.00	5,061.15	5,440.25	5,385.26	12.27	11.97	85.00	637.31	1,960.76	2,364.43	2,341.03	23.40	101.045
5,200.00	5,161.15	5,538.50	5,481.78	12.35	12.20	85.31	623.65	1,948.55	2,350.76	2,327.06	23.70	99.195
5,300.00	5,261.15	5,636.74	5,578.31	12.43	12.44	85.62	609.99	1,936.34	2,337.16	2,313.16	24.00	97.386
5,400.00	5,361.15	5,734.99	5,674.83	12.52	12.68	85.93	596.33	1,924.13	2,323.62	2,299.32	24.30	95.619
5,500.00	5,461.15	5,833.23	5,771.35	12.60	12.92	86.25	582.67	1,911.91	2,310.16	2,285.55	24.60	93.892
5,600.00	5,561.15	5,931.48	5,867.87	12.68	13.16	86.58	569.01	1,899.70	2,296.77	2,271.86	24.91	92.204
5,700.00	5,661.15	6,029.72	5,964.39	12.76	13.40	86.90	555.35	1,887.49	2,283.45	2,258.23	25.22	90.554
5,800.00	5,761.15	6,127.97	6,060.91	12.84	13.64	87.23	541.69	1,875.28	2,270.21	2,244.68	25.52	88.941
5,900.00	5,861.15	6,226.21	6,157.43	12.93	13.88	87.57	528.02	1,863.06	2,257.04	2,231.21	25.83	87.365
6,000.00	5,961.15	6,324.46	6,253.95	13.01	14.12	87.91	514.36	1,850.85	2,243.95	2,217.81	26.15	85.825
6,100.00	6,061.15	6,422.70	6,350.48	13.09	14.36	88.25	500.70	1,838.64	2,230.94	2,204.49	26.45	84.344
6,200.00	6,161.15	6,500.00	6,426.49	13.17	14.53	88.51	490.28	1,829.32	2,218.42	2,191.72	26.69	83.102
6,300.00	6,261.15	6,568.89	6,494.47	13.25	14.68	88.73	481.92	1,821.85	2,207.19	2,180.25	26.94	81.944
6,400.00	6,361.15	6,639.81	6,564.64	13.33	14.83	88.92	474.27	1,815.01	2,197.27	2,170.10	27.17	80.871
6,500.00	6,461.15	6,700.00	6,624.34	13.42	14.95	89.07	468.54	1,809.89	2,188.70	2,161.33	27.37	79.957
6,600.00	6,561.15	6,782.69	6,706.53	13.50	15.09	89.24	461.82	1,803.88	2,181.35	2,153.74	27.61	79.014
6,700.00	6,661.15	6,854.55	6,778.11	13.58	15.20	89.37	457.06	1,799.62	2,175.33	2,147.52	27.81	78.230
6,800.00	6,761.15	6,926.63	6,850.01	13.66	15.30	89.47	453.29	1,796.25	2,170.59	2,142.60	28.00	77.534
6,900.00	6,861.15	7,000.00	6,923.28	13.74	15.38	89.54	450.49	1,793.75	2,167.14	2,138.96	28.17	76.918
7,000.00	6,961.15	7,071.24	6,994.48	13.83	15.45	89.58	448.78	1,792.22	2,164.96	2,136.63	28.33	76.414
7,100.00	7,061.15	7,143.66	7,066.90	13.91	15.49	89.60	448.05	1,791.57	2,164.06	2,135.60	28.46	76.049
7,142.12	7,103.26	7,180.03	7,103.26	13.94	15.50	89.60	448.03	1,791.55	2,164.03	2,135.54	28.50	75.943
7,200.00	7,161.15	7,237.91	7,161.15	13.99	15.52	89.60	448.03	1,791.55	2,164.03	2,135.47	28.56	75.778
7,300.00	7,261.15	7,337.91	7,261.15	14.07	15.56	89.60	448.03	1,791.55	2,164.03	2,135.36	28.68	75.464
7,400.00	7,361.15	7,437.91	7,361.15	14.15	15.60	89.60	448.03	1,791.55	2,164.03	2,135.24	28.80	75.152
7,500.00	7,461.15	7,537.91	7,461.15	14.24	15.64	89.60	448.03	1,791.55	2,164.03	2,135.12	28.91	74.842
7,600.00	7,561.15	7,637.91	7,561.15	14.32	15.68	89.60	448.03	1,791.55	2,164.03	2,135.00	29.03	74.533
7,700.00	7,661.15	7,737.91	7,661.15	14.40	15.72	89.60	448.03	1,791.55	2,164.03	2,134.88	29.15	74.226
7,800.00	7,761.15	7,837.91	7,761.15	14.48	15.76	89.60	448.03	1,791.55	2,164.03	2,134.76	29.28	73.920
7,900.00	7,861.15	7,937.91	7,861.15	14.56	15.80	89.60	448.03	1,791.55	2,164.03	2,134.64	29.40	73.616
8,000.00	7,961.15	8,037.91	7,961.15	14.65	15.84	89.60	448.03	1,791.55	2,164.03	2,134.51	29.52	73.314
8,100.00	8,061.15	8,137.91	8,061.15	14.73	15.88	89.60	448.03	1,791.55	2,164.03	2,134.39	29.64	73.014
8,200.00	8,161.15	8,237.91	8,161.15	14.81	15.92	89.60	448.03	1,791.55	2,164.03	2,134.27	29.76	72.715
8,300.00	8,261.15	8,337.91	8,261.15	14.89	15.96	89.60	448.03	1,791.55	2,164.03	2,134.15	29.88	72.417
8,400.00	8,361.15	8,437.91	8,361.15	14.98	16.01	89.60	448.03	1,791.55	2,164.03	2,134.03	30.01	72.122

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 215H
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 215H	Survey Calculation Method:	Minimum 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: 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
8,500.00	8,461.15	8,537.91	8,461.15	15.06	16.05	89.60	448.03	1,791.55	2,164.03	2,133.90	30.13	71.828	
8,600.00	8,561.15	8,637.91	8,561.15	15.14	16.09	89.60	448.03	1,791.55	2,164.03	2,133.78	30.25	71.535	
8,700.00	8,661.15	8,737.91	8,661.15	15.22	16.14	89.60	448.03	1,791.55	2,164.03	2,133.66	30.37	71.245	
8,800.00	8,761.15	8,837.91	8,761.15	15.30	16.18	89.60	448.03	1,791.55	2,164.03	2,133.53	30.50	70.955	
8,900.00	8,861.15	8,937.91	8,861.15	15.39	16.22	89.60	448.03	1,791.55	2,164.03	2,133.41	30.62	70.668	
9,000.00	8,961.15	9,037.91	8,961.15	15.47	16.27	89.60	448.03	1,791.55	2,164.03	2,133.28	30.75	70.382	
9,100.00	9,061.15	9,137.91	9,061.15	15.55	16.31	89.60	448.03	1,791.55	2,164.03	2,133.16	30.87	70.098	
9,200.00	9,161.15	9,237.91	9,161.15	15.63	16.36	89.60	448.03	1,791.55	2,164.03	2,133.03	31.00	69.815	
9,300.00	9,261.15	9,337.91	9,261.15	15.71	16.40	89.60	448.03	1,791.55	2,164.03	2,132.91	31.12	69.534	
9,400.00	9,361.15	9,437.91	9,361.15	15.80	16.45	89.60	448.03	1,791.55	2,164.03	2,132.78	31.25	69.254	
9,500.00	9,461.15	9,537.91	9,461.15	15.88	16.49	89.60	448.03	1,791.55	2,164.03	2,132.66	31.37	68.976	
9,600.00	9,561.15	9,637.91	9,561.15	15.96	16.54	89.60	448.03	1,791.55	2,164.03	2,132.53	31.50	68.700	
9,700.00	9,661.15	9,737.91	9,661.15	16.04	16.59	89.60	448.03	1,791.55	2,164.03	2,132.41	31.63	68.425	
9,800.00	9,761.15	9,837.91	9,761.15	16.12	16.63	89.60	448.03	1,791.55	2,164.03	2,132.28	31.75	68.152	
9,900.00	9,861.15	9,937.91	9,861.15	16.21	16.68	89.60	448.03	1,791.55	2,164.03	2,132.15	31.88	67.880	
10,000.00	9,961.15	10,037.91	9,961.15	16.29	16.73	89.60	448.03	1,791.55	2,164.03	2,132.02	32.01	67.610	
10,100.00	10,061.15	10,137.91	10,061.15	16.37	16.78	89.60	448.03	1,791.55	2,164.03	2,131.90	32.14	67.341	
10,200.00	10,161.15	10,237.91	10,161.15	16.45	16.82	89.60	448.03	1,791.55	2,164.03	2,131.77	32.26	67.074	
10,300.00	10,261.15	10,337.91	10,261.15	16.54	16.87	89.60	448.03	1,791.55	2,164.03	2,131.64	32.39	66.808	
10,400.00	10,361.15	10,437.91	10,361.15	16.62	16.92	89.60	448.03	1,791.55	2,164.03	2,131.51	32.52	66.544	
10,500.00	10,461.15	10,537.91	10,461.15	16.70	16.97	89.60	448.03	1,791.55	2,164.03	2,131.38	32.65	66.282	
10,600.00	10,561.15	10,637.91	10,561.15	16.78	17.02	89.60	448.03	1,791.55	2,164.03	2,131.25	32.78	66.021	
10,700.00	10,661.15	10,737.91	10,661.15	16.86	17.07	89.60	448.03	1,791.55	2,164.03	2,131.12	32.91	65.761	
10,800.00	10,761.15	10,837.91	10,761.15	16.95	17.12	89.60	448.03	1,791.55	2,164.03	2,130.99	33.04	65.503	
10,900.00	10,861.15	10,937.91	10,861.15	17.03	17.17	89.60	448.03	1,791.55	2,164.03	2,130.86	33.17	65.247	
11,000.00	10,961.15	11,037.91	10,961.15	17.11	17.22	89.60	448.03	1,791.55	2,164.03	2,130.73	33.30	64.992	
11,100.00	11,061.15	11,137.91	11,061.15	17.19	17.27	89.60	448.03	1,791.55	2,164.03	2,130.60	33.43	64.739	
11,200.00	11,161.15	11,237.91	11,161.15	17.27	17.32	89.60	448.03	1,791.55	2,164.03	2,130.47	33.56	64.487	
11,300.00	11,261.15	11,337.91	11,261.15	17.36	17.37	89.60	448.03	1,791.55	2,164.03	2,130.34	33.69	64.236	
11,400.00	11,361.15	11,437.91	11,361.15	17.44	17.42	89.60	448.03	1,791.55	2,164.03	2,130.21	33.82	63.987	
11,500.00	11,461.15	11,537.91	11,461.15	17.52	17.47	89.60	448.03	1,791.55	2,164.03	2,130.08	33.95	63.739	
11,600.00	11,561.15	11,637.91	11,561.15	17.60	17.52	89.60	448.03	1,791.55	2,164.03	2,129.95	34.08	63.493	
11,700.00	11,661.15	11,737.91	11,661.15	17.69	17.57	89.60	448.03	1,791.55	2,164.03	2,129.82	34.21	63.248	
11,800.00	11,761.15	11,837.91	11,761.15	17.77	17.62	89.60	448.03	1,791.55	2,164.03	2,129.68	34.35	63.005	
11,900.00	11,861.15	11,937.91	11,861.15	17.85	17.68	89.60	448.03	1,791.55	2,164.03	2,129.55	34.48	62.763	
12,000.00	11,961.14	12,037.91	11,961.14	17.90	17.73	-89.92	448.03	1,791.55	2,164.03	2,129.45	34.58	62.578	
12,040.93	12,001.94	12,078.70	12,001.94	17.91	17.75	-90.00	448.03	1,791.55	2,164.03	2,129.46	34.57	62.603	CC
12,100.00	12,060.18	12,136.94	12,060.18	17.93	17.78	-90.25	448.03	1,791.55	2,164.05	2,129.51	34.54	62.646	
12,200.00	12,155.47	12,232.24	12,155.47	17.96	17.83	-90.97	448.03	1,791.55	2,164.39	2,129.97	34.42	62.875	
12,300.00	12,244.13	12,315.13	12,238.36	17.98	17.88	-91.83	447.80	1,791.58	2,165.75	2,131.52	34.23	63.273	
12,400.00	12,323.46	12,379.59	12,302.56	18.01	17.97	-92.37	442.40	1,792.35	2,169.44	2,135.45	34.00	63.817	
12,500.00	12,391.04	12,446.38	12,367.98	18.04	18.09	-92.76	429.31	1,794.21	2,175.96	2,142.17	33.80	64.385	
12,600.00	12,444.83	12,516.40	12,434.44	18.09	18.25	-92.98	407.60	1,797.30	2,185.40	2,151.72	33.68	64.888	
12,700.00	12,483.18	12,591.08	12,501.79	18.16	18.47	-93.04	375.80	1,801.83	2,197.76	2,164.07	33.69	65.234	
12,800.00	12,504.94	12,672.73	12,569.97	18.27	18.75	-93.00	331.44	1,808.14	2,212.92	2,179.02	33.90	65.280	
12,900.00	12,510.19	12,766.14	12,639.24	18.42	19.15	-93.47	269.55	1,816.95	2,230.59	2,196.19	34.39	64.853	
13,000.00	12,511.06	12,891.07	12,714.30	18.62	19.84	-95.37	170.98	1,830.98	2,249.25	2,213.82	35.42	63.494	
13,100.00	12,511.94	13,057.46	12,777.62	18.88	21.05	-96.90	19.27	1,852.57	2,266.63	2,229.41	37.22	60.895	
13,200.00	12,512.81	13,266.25	12,795.32	19.20	22.95	-97.22	-186.19	1,880.54	2,279.94	2,240.04	39.89	57.149	
13,300.00	12,513.68	13,622.81	12,797.19	19.61	26.75	-97.14	-541.93	1,900.75	2,282.38	2,237.38	45.00	50.716	
13,400.00	12,514.56	13,722.81	12,797.72	20.11	27.88	-97.13	-641.93	1,901.66	2,282.39	2,235.62	46.76	48.807	
13,500.00	12,515.43	13,822.81	12,798.25	20.70	29.04	-97.12	-741.92	1,902.57	2,282.39	2,233.77	48.62	46.946	

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 215H
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 215H	Survey Calculation Method:	Minimum 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)		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
13,600.00	12,516.30	13,922.81	12,798.77	21.37	30.20	-97.11	-841.92	1,903.48	2,282.39	2,231.84	50.56	45.147	
13,700.00	12,517.18	14,022.81	12,799.30	22.12	31.39	-97.10	-941.91	1,904.38	2,282.39	2,229.83	52.57	43.418	
13,800.00	12,518.05	14,122.81	12,799.82	22.93	32.58	-97.09	-1,041.90	1,905.29	2,282.40	2,227.75	54.65	41.767	
13,900.00	12,518.92	14,222.81	12,800.35	23.80	33.79	-97.08	-1,141.90	1,906.20	2,282.40	2,225.62	56.78	40.195	
14,000.00	12,519.80	14,322.81	12,800.87	24.73	35.02	-97.07	-1,241.89	1,907.10	2,282.40	2,223.43	58.97	38.703	
14,100.00	12,520.67	14,422.81	12,801.40	25.70	36.25	-97.07	-1,341.88	1,908.01	2,282.41	2,221.20	61.21	37.290	
14,200.00	12,521.54	14,522.81	12,801.93	26.70	37.49	-97.06	-1,441.88	1,908.92	2,282.41	2,218.92	63.48	35.952	
14,300.00	12,522.42	14,622.81	12,802.45	27.75	38.74	-97.05	-1,541.87	1,909.82	2,282.41	2,216.61	65.80	34.688	
14,400.00	12,523.29	14,722.81	12,802.98	28.82	39.99	-97.04	-1,641.87	1,910.73	2,282.41	2,214.27	68.14	33.494	
14,500.00	12,524.16	14,822.81	12,803.50	29.91	41.26	-97.03	-1,741.86	1,911.64	2,282.42	2,211.90	70.52	32.366	
14,600.00	12,525.04	14,922.81	12,804.03	31.04	42.53	-97.02	-1,841.85	1,912.54	2,282.42	2,209.50	72.92	31.301	
14,700.00	12,525.91	15,022.81	12,804.56	32.18	43.80	-97.01	-1,941.85	1,913.45	2,282.42	2,207.08	75.34	30.293	
14,800.00	12,526.78	15,122.80	12,805.08	33.34	45.08	-97.00	-2,041.84	1,914.36	2,282.43	2,204.64	77.79	29.341	
14,900.00	12,527.66	15,222.80	12,805.61	34.51	46.37	-97.00	-2,141.84	1,915.26	2,282.43	2,202.18	80.25	28.440	
15,000.00	12,528.53	15,322.80	12,806.13	35.70	47.66	-96.99	-2,241.83	1,916.17	2,282.43	2,199.70	82.74	27.587	
15,100.00	12,529.40	15,422.80	12,806.66	36.91	48.96	-96.98	-2,341.82	1,917.08	2,282.44	2,197.20	85.23	26.778	
15,200.00	12,530.28	15,522.80	12,807.18	38.12	50.25	-96.97	-2,441.82	1,917.98	2,282.44	2,194.69	87.75	26.012	
15,300.00	12,531.15	15,622.80	12,807.71	39.35	51.56	-96.96	-2,541.81	1,918.89	2,282.44	2,192.17	90.27	25.284	
15,400.00	12,532.02	15,722.80	12,808.24	40.58	52.86	-96.95	-2,641.81	1,919.80	2,282.45	2,189.64	92.81	24.593	
15,500.00	12,532.89	15,822.80	12,808.76	41.82	54.17	-96.94	-2,741.80	1,920.71	2,282.45	2,187.09	95.36	23.936	
15,600.00	12,533.77	15,922.80	12,809.29	43.08	55.48	-96.93	-2,841.79	1,921.61	2,282.45	2,184.54	97.91	23.311	
15,700.00	12,534.64	16,022.80	12,809.81	44.34	56.80	-96.92	-2,941.79	1,922.52	2,282.46	2,181.98	100.48	22.715	
15,800.00	12,535.51	16,122.80	12,810.34	45.60	58.11	-96.92	-3,041.78	1,923.43	2,282.46	2,179.41	103.06	22.148	
15,900.00	12,536.39	16,222.80	12,810.86	46.87	59.43	-96.91	-3,141.78	1,924.33	2,282.46	2,176.83	105.64	21.606	
16,000.00	12,537.26	16,322.80	12,811.39	48.15	60.75	-96.90	-3,241.77	1,925.24	2,282.47	2,174.24	108.23	21.089	
16,100.00	12,538.13	16,422.80	12,811.92	49.43	62.07	-96.89	-3,341.76	1,926.15	2,282.47	2,171.65	110.83	20.595	
16,200.00	12,539.01	16,522.80	12,812.44	50.72	63.40	-96.88	-3,441.76	1,927.05	2,282.48	2,169.05	113.43	20.122	
16,300.00	12,539.88	16,622.80	12,812.97	52.01	64.73	-96.87	-3,541.75	1,927.96	2,282.48	2,166.44	116.04	19.670	
16,400.00	12,540.75	16,722.79	12,813.49	53.30	66.05	-96.86	-3,641.74	1,928.87	2,282.48	2,163.83	118.65	19.237	
16,500.00	12,541.63	16,822.79	12,814.02	54.60	67.39	-96.85	-3,741.74	1,929.77	2,282.49	2,161.21	121.27	18.821	
16,600.00	12,542.50	16,922.79	12,814.55	55.90	68.72	-96.85	-3,841.73	1,930.68	2,282.49	2,158.59	123.90	18.422	
16,700.00	12,543.37	17,022.79	12,815.07	57.21	70.05	-96.84	-3,941.73	1,931.59	2,282.50	2,155.97	126.53	18.040	
16,800.00	12,544.25	17,122.79	12,815.60	58.52	71.38	-96.83	-4,041.72	1,932.49	2,282.50	2,153.34	129.16	17.672	
16,900.00	12,545.12	17,222.79	12,816.12	59.83	72.72	-96.82	-4,141.71	1,933.40	2,282.50	2,150.71	131.80	17.318	
17,000.00	12,545.99	17,322.79	12,816.65	61.14	74.06	-96.81	-4,241.71	1,934.31	2,282.51	2,148.07	134.44	16.978	
17,100.00	12,546.87	17,422.79	12,817.17	62.46	75.39	-96.80	-4,341.70	1,935.21	2,282.51	2,145.43	137.08	16.651	
17,200.00	12,547.74	17,522.79	12,817.70	63.78	76.73	-96.79	-4,441.70	1,936.12	2,282.52	2,142.79	139.73	16.335	
17,300.00	12,548.61	17,622.79	12,818.23	65.10	78.07	-96.78	-4,541.69	1,937.03	2,282.52	2,140.14	142.38	16.031	
17,400.00	12,549.49	17,722.79	12,818.75	66.42	79.41	-96.78	-4,641.68	1,937.93	2,282.53	2,137.50	145.03	15.738	
17,500.00	12,550.36	17,822.79	12,819.28	67.75	80.76	-96.77	-4,741.68	1,938.84	2,282.53	2,134.85	147.69	15.455	
17,600.00	12,551.23	17,922.79	12,819.80	69.07	82.10	-96.76	-4,841.67	1,939.75	2,282.54	2,132.19	150.35	15.182	
17,700.00	12,552.11	18,022.79	12,820.33	70.40	83.44	-96.75	-4,941.67	1,940.66	2,282.54	2,129.54	153.01	14.918	
17,800.00	12,552.98	18,122.79	12,820.85	71.73	84.79	-96.74	-5,041.66	1,941.56	2,282.55	2,126.88	155.67	14.663	
17,900.00	12,553.85	18,222.79	12,821.38	73.06	86.13	-96.73	-5,141.65	1,942.47	2,282.55	2,124.22	158.33	14.416	
18,000.00	12,554.73	18,322.79	12,821.91	74.40	87.48	-96.72	-5,241.65	1,943.38	2,282.56	2,121.55	161.00	14.177	
18,100.00	12,555.60	18,422.78	12,822.43	75.73	88.83	-96.71	-5,341.64	1,944.28	2,282.56	2,118.89	163.67	13.946	
18,200.00	12,556.47	18,522.78	12,822.96	77.06	90.17	-96.70	-5,441.63	1,945.19	2,282.57	2,116.22	166.34	13.722	
18,300.00	12,557.35	18,622.78	12,823.48	78.40	91.52	-96.70	-5,541.63	1,946.10	2,282.57	2,113.55	169.02	13.505	
18,400.00	12,558.22	18,722.78	12,824.01	79.74	92.87	-96.69	-5,641.62	1,947.00	2,282.58	2,110.88	171.69	13.295	
18,500.00	12,559.09	18,822.78	12,824.54	81.08	94.22	-96.68	-5,741.62	1,947.91	2,282.58	2,108.21	174.37	13.091	
18,600.00	12,559.97	18,922.78	12,825.06	82.42	95.57	-96.67	-5,841.61	1,948.82	2,282.59	2,105.54	177.05	12.893	
18,700.00	12,560.84	19,022.78	12,825.59	83.76	96.92	-96.66	-5,941.60	1,949.72	2,282.59	2,102.86	179.73	12.700	

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 215H
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 215H	Survey Calculation Method:	Minimum 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				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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
18,800.00	12,561.71	19,122.78	12,826.11	85.10	98.27	-96.65	-6,041.60	1,950.63	2,282.60	2,100.19	182.41	12.514			
18,900.00	12,562.59	19,222.78	12,826.64	86.44	99.62	-96.64	-6,141.59	1,951.54	2,282.60	2,097.51	185.09	12.332			
19,000.00	12,563.46	19,322.78	12,827.16	87.79	100.97	-96.63	-6,241.59	1,952.44	2,282.61	2,094.83	187.77	12.156			
19,100.00	12,564.33	19,422.78	12,827.69	89.13	102.33	-96.63	-6,341.58	1,953.35	2,282.61	2,092.15	190.46	11.985			
19,200.00	12,565.20	19,522.78	12,828.22	90.48	103.68	-96.62	-6,441.57	1,954.26	2,282.62	2,089.47	193.15	11.818			
19,300.00	12,566.08	19,622.78	12,828.74	91.82	105.03	-96.61	-6,541.57	1,955.16	2,282.62	2,086.79	195.83	11.656			
19,400.00	12,566.95	19,722.78	12,829.27	93.17	106.39	-96.60	-6,641.56	1,956.07	2,282.63	2,084.11	198.52	11.498			
19,500.00	12,567.82	19,822.78	12,829.79	94.51	107.74	-96.59	-6,741.56	1,956.98	2,282.64	2,081.42	201.21	11.344			
19,600.00	12,568.70	19,922.78	12,830.32	95.86	109.10	-96.58	-6,841.55	1,957.89	2,282.64	2,078.74	203.90	11.195			
19,700.00	12,569.57	20,022.77	12,830.84	97.21	110.45	-96.57	-6,941.54	1,958.79	2,282.65	2,076.05	206.59	11.049			
19,800.00	12,570.44	20,122.77	12,831.37	98.56	111.81	-96.56	-7,041.54	1,959.70	2,282.65	2,073.36	209.29	10.907			
19,900.00	12,571.32	20,222.77	12,831.90	99.91	113.16	-96.56	-7,141.53	1,960.61	2,282.66	2,070.68	211.98	10.768			
20,000.00	12,572.19	20,322.77	12,832.42	101.26	114.52	-96.55	-7,241.52	1,961.51	2,282.66	2,067.99	214.68	10.633			
20,100.00	12,573.06	20,422.77	12,832.95	102.61	115.87	-96.54	-7,341.52	1,962.42	2,282.67	2,065.30	217.37	10.501			
20,200.00	12,573.94	20,522.77	12,833.47	103.96	117.23	-96.53	-7,441.51	1,963.33	2,282.68	2,062.61	220.07	10.373			
20,300.00	12,574.81	20,622.77	12,834.00	105.31	118.59	-96.52	-7,541.51	1,964.23	2,282.68	2,059.92	222.77	10.247			
20,400.00	12,575.68	20,722.77	12,834.53	106.66	119.94	-96.51	-7,641.50	1,965.14	2,282.69	2,057.23	225.46	10.124			
20,500.00	12,576.56	20,822.77	12,835.05	108.02	121.30	-96.50	-7,741.49	1,966.05	2,282.70	2,054.53	228.16	10.005			
20,600.00	12,577.43	20,922.77	12,835.58	109.37	122.66	-96.49	-7,841.49	1,966.95	2,282.70	2,051.84	230.86	9.888			
20,700.00	12,578.30	21,022.77	12,836.10	110.72	124.02	-96.48	-7,941.48	1,967.86	2,282.71	2,049.15	233.56	9.773			
20,800.00	12,579.18	21,122.77	12,836.63	112.08	125.37	-96.48	-8,041.48	1,968.77	2,282.71	2,046.45	236.26	9.662			
20,900.00	12,580.05	21,222.77	12,837.15	113.43	126.73	-96.47	-8,141.47	1,969.67	2,282.72	2,043.76	238.97	9.553			
21,000.00	12,580.92	21,322.77	12,837.68	114.79	128.09	-96.46	-8,241.46	1,970.58	2,282.73	2,041.06	241.67	9.446			
21,100.00	12,581.80	21,422.77	12,838.21	116.14	129.45	-96.45	-8,341.46	1,971.49	2,282.73	2,038.36	244.37	9.341			
21,200.00	12,582.67	21,522.77	12,838.73	117.50	130.81	-96.44	-8,441.45	1,972.39	2,282.74	2,035.67	247.07	9.239			
21,300.00	12,583.54	21,622.76	12,839.26	118.85	132.17	-96.43	-8,541.45	1,973.30	2,282.75	2,032.97	249.78	9.139			
21,400.00	12,584.42	21,722.76	12,839.78	120.21	133.53	-96.42	-8,641.44	1,974.21	2,282.75	2,030.27	252.48	9.041			
21,500.00	12,585.29	21,822.76	12,840.31	121.56	134.89	-96.41	-8,741.43	1,975.11	2,282.76	2,027.57	255.19	8.945			
21,600.00	12,586.16	21,922.76	12,840.83	122.92	136.25	-96.41	-8,841.43	1,976.02	2,282.77	2,024.87	257.89	8.852			
21,700.00	12,587.04	22,022.76	12,841.36	124.28	137.61	-96.40	-8,941.42	1,976.93	2,282.77	2,022.17	260.60	8.760			
21,800.00	12,587.91	22,122.76	12,841.89	125.63	138.97	-96.39	-9,041.41	1,977.84	2,282.78	2,019.47	263.31	8.670			
21,900.00	12,588.78	22,222.76	12,842.41	126.99	140.33	-96.38	-9,141.41	1,978.74	2,282.79	2,016.77	266.01	8.581			
22,000.00	12,589.66	22,322.76	12,842.94	128.35	141.69	-96.37	-9,241.40	1,979.65	2,282.79	2,014.07	268.72	8.495			
22,100.00	12,590.53	22,422.76	12,843.46	129.71	143.05	-96.36	-9,341.40	1,980.56	2,282.80	2,011.37	271.43	8.410			
22,200.00	12,591.40	22,522.76	12,843.99	131.07	144.41	-96.35	-9,441.39	1,981.46	2,282.81	2,008.67	274.14	8.327			
22,300.00	12,592.28	22,622.76	12,844.52	132.42	145.77	-96.34	-9,541.38	1,982.37	2,282.82	2,005.97	276.85	8.246			
22,400.00	12,593.15	22,722.76	12,845.04	133.78	147.13	-96.34	-9,641.38	1,983.28	2,282.82	2,003.26	279.56	8.166			
22,500.00	12,594.02	22,822.76	12,845.57	135.14	148.49	-96.33	-9,741.37	1,984.18	2,282.83	2,000.56	282.27	8.087			
22,600.00	12,594.89	22,922.76	12,846.09	136.50	149.85	-96.32	-9,841.37	1,985.09	2,282.84	1,997.86	284.98	8.011			
22,700.00	12,595.77	23,022.76	12,846.62	137.86	151.22	-96.31	-9,941.36	1,986.00	2,282.85	1,995.15	287.69	7.935			
22,800.00	12,596.64	23,122.76	12,847.14	139.22	152.58	-96.30	-10,041.35	1,986.90	2,282.85	1,992.45	290.40	7.861			
22,806.75	12,596.70	23,129.51	12,847.18	139.31	152.67	-96.30	-10,048.11	1,986.96	2,282.85	1,992.27	290.59	7.856	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 215H
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 215H	Survey Calculation Method:	Minimum 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		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	
0.00	0.00	0.00	0.00	0.50	0.50	69.40	881.00	2,344.00	2,504.10				
100.00	100.00	100.00	100.00	0.98	0.98	69.40	881.00	2,344.00	2,504.10	2,502.13	1.96	1,276.178	CC, ES
200.00	200.00	200.00	200.00	1.56	1.56	69.40	881.00	2,344.00	2,504.10	2,500.97	3.12	802.017	
300.00	300.00	300.00	300.00	1.98	1.98	69.40	881.00	2,344.00	2,504.10	2,500.13	3.96	631.978	
400.00	399.99	363.90	363.90	2.41	2.25	110.10	880.91	2,344.53	2,505.27	2,500.69	4.58	546.869	
500.00	499.91	427.66	427.64	2.79	2.51	110.12	880.63	2,346.10	2,508.78	2,503.64	5.13	488.577	
600.00	599.69	500.00	499.91	3.12	2.78	110.18	880.09	2,349.16	2,514.66	2,508.99	5.67	443.474	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 215H
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 215H	Survey Calculation Method:	Minimum 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 215H

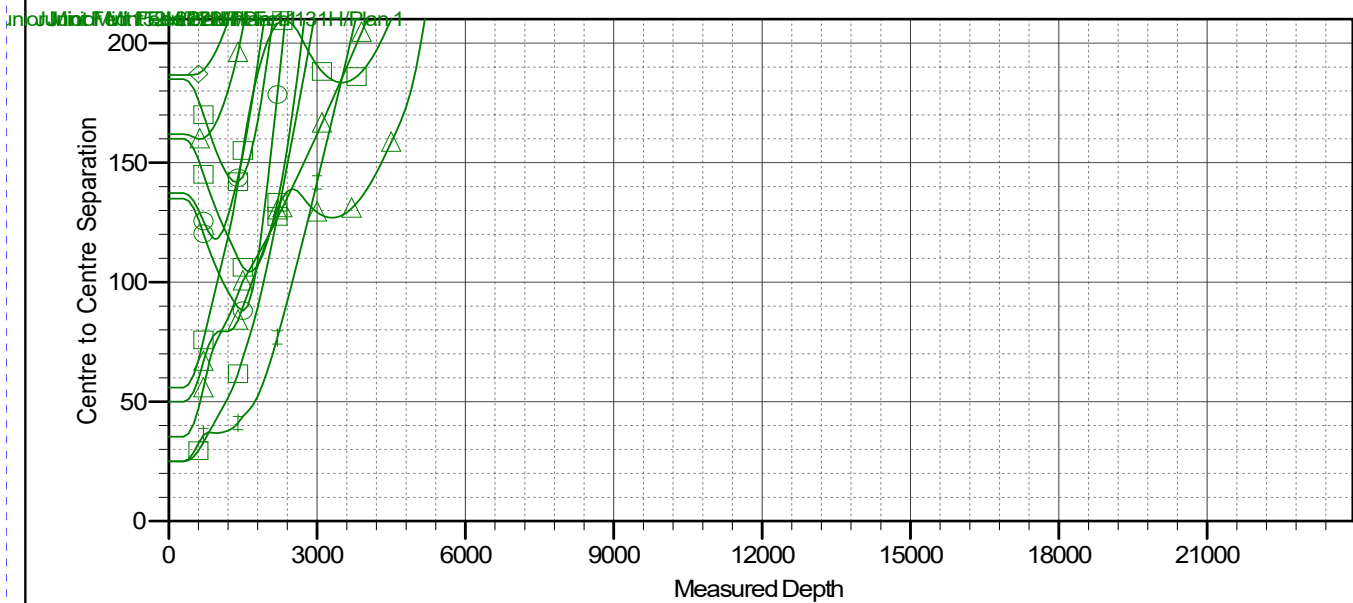
Offset Depths are relative to Offset Datum

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 211H, OH, Plan 1 V0	Junior Mint Fed 135H, OH, Plan 1 V0
Junior Mint Fed 131H, OH, Plan 1 V0	Junior Mint Fed 224H, OH, Plan 1 V0	Junior Mint Fed 213H, OH, Plan 1 V0
Junior Mint Fed 138H, OH, Plan 1 V0	Junior Mint Fed 223H, OH, Plan 1 V0	Junior Mint Fed 221H, OH, Plan 1 V0
Junior Mint Fed 152H, OH, Plan 1 V0	Junior Mint Fed 218H, OH, Plan 1 V0	Junior Mint Fed 151H, OH, Plan 1 V0
Junior Mint Fed 158H, OH, Plan 1 V0	Junior Mint Fed 132H, OH, Plan 1 V0	Junior Mint Fed 212H, OH, Plan 1 V0
Junior Mint Fed 133H, OH, Plan 1 V0	Junior Mint Fed 156H, OH, Plan 1 V0	Junior Mint Fed 222H, OH, Plan 1 V0
Junior Mint Fed 137H, OH, Plan 1 V0	Junior Mint Fed 134H, OH, Plan 1 V0	Junior Mint Fed 214H, 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 215H
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 215H	Survey Calculation Method:	Minimum 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 215H

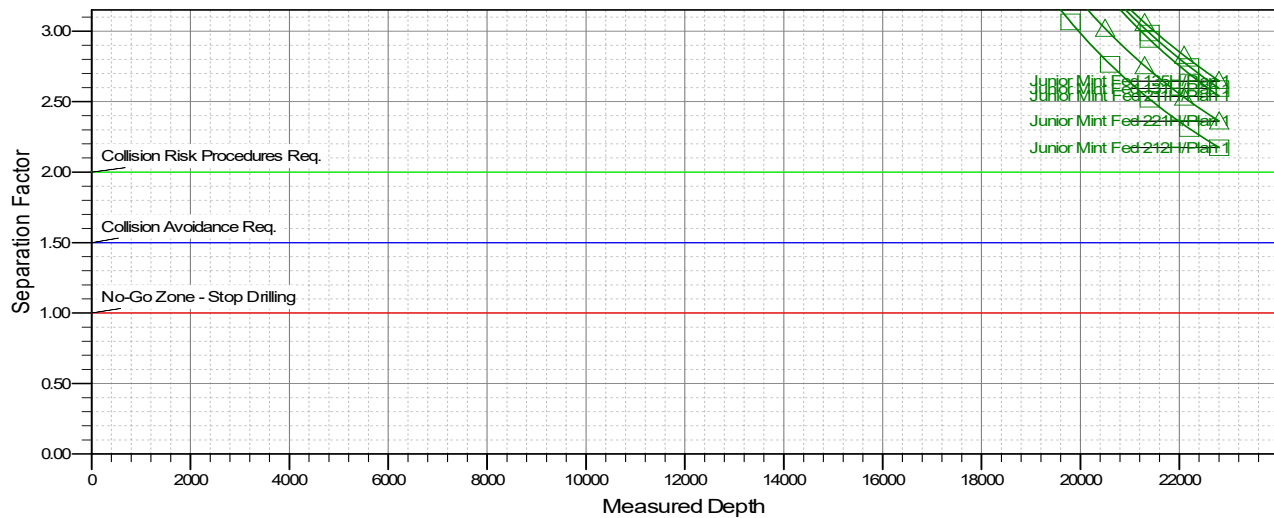
Offset Depths are relative to Offset Datum

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 211H, OH, Plan 1 V0	Junior Mint Fed 135H, OH, Plan 1 V0
Junior Mint Fed 131H, OH, Plan 1 V0	Junior Mint Fed 224H, OH, Plan 1 V0	Junior Mint Fed 213H, OH, Plan 1 V0
Junior Mint Fed 138H, OH, Plan 1 V0	Junior Mint Fed 223H, OH, Plan 1 V0	Junior Mint Fed 221H, OH, Plan 1 V0
Junior Mint Fed 152H, OH, Plan 1 V0	Junior Mint Fed 218H, OH, Plan 1 V0	Junior Mint Fed 151H, OH, Plan 1 V0
Junior Mint Fed 158H, OH, Plan 1 V0	Junior Mint Fed 132H, OH, Plan 1 V0	Junior Mint Fed 212H, OH, Plan 1 V0
Junior Mint Fed 133H, OH, Plan 1 V0	Junior Mint Fed 156H, OH, Plan 1 V0	Junior Mint Fed 222H, OH, Plan 1 V0
Junior Mint Fed 137H, OH, Plan 1 V0	Junior Mint Fed 134H, OH, Plan 1 V0	Junior Mint Fed 214H, OH, Plan 1 V0

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

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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 475443

CONDITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 475443
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	Directional plan reports the FTP within the Bone Spring formation. If production is desired to occur outside of the Wolfcamp formation, a second pool must be added and a DHC must be approved prior to producing the well.	6/26/2025
matthew.gomez	Any previous COA's not addressed within the updated COA's still apply.	6/26/2025