

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

General Information
Phone: (505) 629-6116

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

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

Form C-101
August 1, 2011

Permit 395662

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202		2. OGRID Number 332195
4. Property Code 335279		3. API Number 30-025-55340
5. Property Name COONSKIN FEE		6. Well No. 152H

7. Surface Location

UL - Lot F	Section 33	Township 24S	Range 35E	Lot Idn F	Feet From 2330	N/S Line N	Feet From 1408	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot C	Section 28	Township 24S	Range 35E	Lot Idn C	Feet From 5	N/S Line N	Feet From 1980	E/W Line W	County Lea
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9. Pool Information

WC-025 G-07 S243517D;MIDDLE BONE SP	98294
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 3300
16. Multiple N	17. Proposed Depth 19377	18. Formation 3rd Bone Spring Carbonate	19. Contractor	20. Spud Date 1/1/2026
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	14.75	11.75	47	928	513	0
Int1	10.625	8.625	32	5128	613	0
Prod	7.875	5.5	20	19377	1525	0

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	5000	Shaffer
Double Ram	10000	10000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.	OIL CONSERVATION DIVISION
Signature:	
Printed Name: Electronically filed by Nathan S Bennett	Approved By: Jeffrey Harrison
Title: Director, Permitting & Compliance	Title: Petroleum Specialist III
Email Address: nbennett@civiresources.com	Approved Date: 10/9/2025 Expiration Date: 10/9/2027
Date: 9/22/2025 Phone: 303-312-8166	Conditions of Approval Attached

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025- 55340	Pool Code 98294	Pool Name WC-025 G-07 S243517D; MIDDLE BONE SP
Property Code 335279	Property Name COONSKIN FEE	Well Number 152H
OGRID No. 332195	Operator Name CIVITAS PERMIAN OPERATING, LLC	Ground Level Elevation 3300'
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
F	33	24-S	35-E	-	2330' N	1408' W	N 32.1748321	W 103.3764235	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
C	28	24-S	35-E	-	5' N	1980' W	N 32.1957421	W 103.3745672	LEA

Infill 30-025-49261 cited as defying well by 122H, same pool, same spacing unit.

Dedicated Acres 240	Infill or Defining Well D	Defining Well API PENDING (152H)	Overlapping Spacing Unit (Y/N) N	Consolidated Code -
Order Numbers -			Well Setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
F	33	24-S	35-E	-	2540' N	1980' W	N 32.1742568	W 103.3745742	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
F	33	24-S	35-E	-	2540' N	1980' W	N 32.1742568	W 103.3745742	LEA

Last Take Point (LTP)

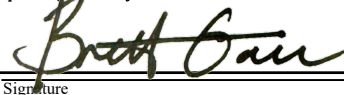
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
C	28	24-S	35-E	-	100' N	1980' W	N 32.1954806	W 103.3745673	LEA

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

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

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

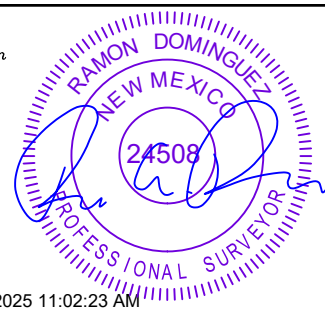
 08/21/2025

Signature
Brett Garza

Print Name
bgarza@civiresources.com
E-mail Address

SURVEYORS CERTIFICATION

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



5/6/2025 11:02:23 AM

Signature and Seal of Professional Surveyor Date

Certificate Number Date of Survey
01/20/2025

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Submittal Type:	☒ Initial Submittal
			☐ Amended Report
			☐ As Drilled
Property Name and Well Number COONSKIN FEE 152H			

SURFACE LOCATION (SHL)

NEW MEXICO EAST
NAD 1983
X=837410 Y=428655
LAT.: N 32.1748321
LONG.: W 103.3764235
2330' FNL 1408' FWL

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

NEW MEXICO EAST
NAD 1983
X=837984 Y=428451
LAT.: N 32.1742568
LONG.: W 103.3745742
2540' FNL 1980' FWL

LAST TAKE POINT (LTP)

NEW MEXICO EAST
NAD 1983
X=837917 Y=436172
LAT.: N 32.1954806
LONG.: W 103.3745673
100' FNL 1980' FWL

BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST
NAD 1983
X=837916 Y=436268
LAT.: N 32.1957421
LONG.: W 103.3745672
5' FNL 1980' FWL

The figure is a detailed survey plat for a well location. It features a grid system with horizontal and vertical lines labeled with numbers (e.g., 20, 21, 22, 28, 27, 29, 28, 27, 32, 33, 34, 32, 33, 34). The central focus is a vertical strip representing the well's path, divided into two sections: "PROJECT AREA" (top) and "PRODUCING AREA" (bottom). Key points are marked with red dots and labels: SHL (Surface Location), KOP/FTP (Kick Off Point / First Take Point), LTP (Last Take Point), and BHL (Bottom Hole Location). Each point is accompanied by its X and Y coordinates in the New Mexico East NAD 1983 datum. Bearings and distances are also provided for several segments, such as AZ = 109.58° 609.3' and AZ = 359.51° 7721.5'. A scale bar at the bottom indicates distances of 100 feet. The plat includes a section for "SURVEYORS CERTIFICATION" with a signature and date, and a circular seal for Ramon Dominguez, Professional Surveyor No. 24508.

11/03/2025 11:03 AM ID: A5830765

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

Form APD Conditions

Permit 395662

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: Civitas Permian Operating, LLC [332195] 555 17th Street Denver, CO 80202	API Number: 30-025-55340
	Well: COONSKIN FEE #152H

OCD Reviewer	Condition
jeffrey.harrison	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.
jeffrey.harrison	All logs run on the well must be submitted to NMOCD.
jeffrey.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing.
jeffrey.harrison	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.

Hydrogen Sulfide Drilling

Operations Plan

Civitas Resources

1 H2S safety instructions to the following:

- Characteristics of H2S
- Physical effects and hazards
- Principal and operation of H2S detectors, warning system and briefing areas
- Evacuation procedures, routes and first aid
- Proper use of safety equipment & life support systems
- Essential personnel meeting medical evaluation criteria will receive additional training on the proper use of 30min pressure demand air packs

2 H2S Detection and Alarm Systems:

- H2S sensor/detectors to be located on the drilling rig floor, in the base of the sub structure / cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may be placed as deemed necessary
- An audio alarm system will be installed on the derrick floor and in the doghouse

3 Windssocks and / Wind Streamers:

- Windssocks at mud pit area should be high enough to be visible
- Windssock on the rig floor and / top of doghouse should be high enough to be visible

4 Condition Flags and Signs:

- Warning sign on access road to location
- Flags to be displayed on sign at entrance to location
 - Green Flag – Normal Safe Operation Condition
 - Yellow Flag – Potential Pressure and Danger
 - Red Flag – Danger (H2S present in dangerous concentrations) Only H2S trained personnel admitted on location

5 Well Control Equipment:

- See Drilling Operations Plan Schematics

6 Communication:

- While working under masks chalkboards will be used for communications
- Hand signals will be used where chalk board is inappropriate
- Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.

7 Drilling Stem Testing:

- No DST cores are planned at this time

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

9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary

11 Emergency Contacts

Emergency Contacts		
Carlsbad Police Department	575.887.7551	911
Carlsbad Medical Center	575.887.4100	911
Eddy County Fire Service	575.628.5450	911
Eddy County Sherriff	575.887.7551	911
Lea County Fire Service	575.391.2983	911
Lea County Sherriff	575.396.3611	911
Jal Police Department	575.395.2121	911
Jal Fire Department	575.395.2221	911
Tap Rock - Doug Sproul - Drilling	303-653-3518	

Civitas Resources

Lea County, NM (NAD 83)

Coonskin Fee Pad

Coonskin Fee 152H

OH

Plan #1



Anticollision Report

Minimum Magnetic Interference Warning level is 20' center to center

01 August, 2025

Total Report Version 1.70

COMPASS 5000.16 Build 97

[Click here for our anticollision policy](#)

ATTENTION

All offset data provided was gathered using available software and resources . Total Directional Services cannot guarantee the accuracy of all offset data , which should be verified for accuracy by the Operator.

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 2,084.92usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Well	Coonskin Fee 152H					
Well Position	+N-S	0.00 usft	Northing:	428,655.00 usft	Latitude:	32.1748311
	+E-W	0.00 usft	Easting:	837,410.00 usft	Longitude:	-103.3764231
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,300.00 usft
Grid Convergence:		0.51 °				

Survey Tool Program	Date	8/1/2025			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	19,377.07	Plan #1 (OH)	MWD+HRGM+SAG+FDIR (n	OWSG MWD + HRGM + SAG + FDIR Correction	

Experimental: Summary Highlights: Coonskin Fee 152H

- At 19,246.75 MD, (O) Coonskin Fee 601H - OH - OH is 251.39 usft away with a 1.75 SF.
- At 19,377.12 MD, John Callahan Fed Com 132H - OH - Design #1 is 63.83 usft away with a 0.77 SF.
- At 19,377.12 MD, John Callahan Fed Com 212H - OH - Design #1 is 216.57 usft away with a 1.52 SF.
- At 19,377.12 MD, John Callahan Fed Com 222H - OH - Design #1 is 155.93 usft away with a 1.10 SF.

Offset Listing								
Offset Customer - Project - Site Name			Map Coordinates		Geographical Coordinates		Surface Uncertainty	
Offset Well	Ground Level	KB Height	Northing	Easting	Latitude	Longitude	Site	Well
- - Coonskin Fee Pad								
(O) Coonskin Fee #111H -	3,291.00	3,317.00	428,681.00	837,145.00	32.1749090	-103.3772788	0.00	0.00
(O) Coonskin Fee #112H -	3,301.00	3,327.00	428,656.00	837,145.00	32.1748403	-103.3772795	0.00	0.00
(O) Coonskin Fee #151H -	3,301.00	3,327.00	428,656.00	837,250.00	32.1748377	-103.3769402	0.00	0.00
(O) Coonskin Fee 121H -	3,301.00	3,327.00	428,656.00	837,225.00	32.1748384	-103.3770210	0.00	0.00
(O) Coonskin Fee 25H -	3,319.00	3,348.00	436,065.67	838,248.01	32.1951791	-103.3735013	0.00	0.00
(O) Coonskin Fee 28H -	3,307.00	3,337.00	436,209.96	836,516.76	32.1956180	-103.3790931	0.00	0.00
(O) Coonskin Fee 601H -	3,316.40	3,341.40	436,218.17	837,416.68	32.1956186	-103.3761840	0.00	0.00
(O) Coonskin Fee 602H -	3,315.60	3,340.60	436,217.67	837,356.68	32.1956187	-103.3763780	0.00	0.00
(O) Coonskin Fee 603H -	3,306.90	3,336.90	436,210.26	836,546.76	32.1956181	-103.3789962	0.00	0.00
(O) Coonskin Fee 701H -	3,315.90	3,340.90	436,217.77	837,386.68	32.1956182	-103.3762810	0.00	0.00
(O) Coonskin Fee 702H -	3,306.70	3,336.70	436,210.56	836,576.76	32.1956182	-103.3788992	0.00	0.00
(O) Cosmo K 24S35E3328 #113H -	3,289.00	3,315.50	428,699.00	839,403.00	32.1749031	-103.3699812	0.00	0.00
(O) Cosmo K 24S35E3328 Fee 133H -	3,289.00	3,315.50	428,699.00	839,378.00	32.1749038	-103.3700620	0.00	0.00
(O) Cosmo K 24S35E3328 Fee 213H -	3,289.00	3,314.50	428,698.00	839,328.00	32.1749022	-103.3702236	0.00	0.00
(O) Cosmo K Fee #223H -	3,289.00	3,314.00	428,620.00	839,209.00	32.1746908	-103.3706105	0.00	0.00
Coonskin Fee 122H -	3,300.00	3,326.00	428,680.00	837,410.00	32.1748998	-103.3764224	0.00	0.00

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Listing

Offset Customer - Project - Site Name			Map Coordinates		Geographical Coordinates		Surface		
	Offset Well	Ground Level	KB Height	Northing	Easting	Latitude	Longitude	Uncertainty Site	Well
- John Callahan Offsets Pad 2									
John Callahan Fed Com 112H -	3,319.00	3,347.50	436,658.51	837,704.90	32.1968218	-103.3752397	0.00	0.00	
John Callahan Fed Com 132H -	3,317.00	3,345.50	436,657.53	837,594.96	32.1968218	-103.3755951	0.00	0.00	
John Callahan Fed Com 202H -	3,318.00	3,346.50	436,687.47	837,594.69	32.1969041	-103.3755952	0.00	0.00	
John Callahan Fed Com 209H -	3,326.00	3,354.50	436,683.60	840,478.17	32.1968225	-103.3662747	0.00	0.00	
John Callahan Fed Com 212H -	3,318.00	3,346.50	436,657.80	837,624.91	32.1968218	-103.3754983	0.00	0.00	
John Callahan Fed Com 222H -	3,318.00	3,346.50	436,687.81	837,624.72	32.1969043	-103.3754981	0.00	0.00	
- John Callahan Pad									
John Callahan Fed Com 113H -	3,310.00	3,338.50	435,512.91	839,070.73	32.1936396	-103.3708580	0.00	0.00	
John Callahan Fed Com 137H -	3,309.00	3,337.50	435,482.91	839,040.73	32.1935579	-103.3709558	0.00	0.00	
John Callahan Fed Com 223H -	3,309.00	3,337.50	435,482.91	839,071.73	32.1935571	-103.3708556	0.00	0.00	

Summary

Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation	Warning
	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)		
Coonskin Fee Pad						
(O) Coonskin Fee #111H - OH - OH	800.00	793.64	266.09	260.28	45.78	CC, ES
(O) Coonskin Fee #111H - OH - OH	16,500.00	15,321.91	2,083.98	1,953.00	15.91	SF
(O) Coonskin Fee #112H - OH - OH	800.00	803.74	264.35	258.56	45.64	CC, ES
(O) Coonskin Fee #112H - OH - OH	10,149.45	10,145.25	335.09	284.09	6.57	SF
(O) Coonskin Fee #151H - OH - OH	800.37	803.35	157.29	151.38	26.59	CC, ES
(O) Coonskin Fee #151H - OH - OH	19,300.00	18,868.00	1,396.34	1,173.25	6.26	SF
(O) Coonskin Fee 121H - OH - OH	800.00	802.50	182.69	176.85	31.31	CC, ES
(O) Coonskin Fee 121H - OH - OH	19,377.12	19,395.00	1,644.98	1,410.87	7.03	SF
(O) Coonskin Fee 25H - OH - OH	19,217.39	11,735.27	348.95	205.31	2.43	CC, ES, SF
(O) Coonskin Fee 28H - OH - OH	19,266.82	12,100.00	1,623.64	1,481.55	11.43	CC, ES
(O) Coonskin Fee 28H - OH - OH	19,377.12	12,082.33	1,627.06	1,483.89	11.36	SF
(O) Coonskin Fee 601H - OH - OH	19,246.75	11,739.80	251.39	107.95	1.75	Collision Risk Procedures Re
(O) Coonskin Fee 602H - OH - OH	19,222.71	11,764.79	816.83	673.78	5.71	
(O) Coonskin Fee 603H - OH - OH	19,331.26	11,737.67	1,367.21	1,222.45	9.44	CC, ES
(O) Coonskin Fee 603H - OH - OH	19,377.12	11,733.11	1,367.96	1,222.83	9.43	SF
(O) Coonskin Fee 701H - OH - OH	19,325.40	11,710.33	536.99	392.15	3.71	CC, ES, SF
(O) Coonskin Fee 702H - OH - OH	19,346.91	11,712.78	1,099.87	954.38	7.56	CC, ES
(O) Coonskin Fee 702H - OH - OH	19,377.12	11,712.39	1,100.28	954.57	7.55	SF
(O) Cosmo K 24S35E3328 #113H - OH - OH	7,341.32	7,300.14	1,313.73	1,274.11	33.16	CC
(O) Cosmo K 24S35E3328 #113H - OH - OH	7,400.00	7,351.08	1,313.90	1,274.07	32.98	ES
(O) Cosmo K 24S35E3328 #113H - OH - OH	18,200.00	16,802.00	1,838.78	1,685.47	11.99	SF
(O) Cosmo K 24S35E3328 Fee 133H - OH - OH	11,334.77	11,325.32	1,086.23	1,030.48	19.48	CC, ES
(O) Cosmo K 24S35E3328 Fee 133H - OH - OH	18,100.00	18,582.00	1,214.62	1,041.20	7.00	SF
(O) Cosmo K 24S35E3328 Fee 213H - OH - OH	11,377.57	11,366.31	1,005.49	949.74	18.04	CC
(O) Cosmo K 24S35E3328 Fee 213H - OH - OH	11,400.00	11,388.86	1,005.54	949.71	18.01	ES
(O) Cosmo K 24S35E3328 Fee 213H - OH - OH	18,100.00	18,823.00	1,213.86	1,054.39	7.61	SF
(O) Cosmo K Fee #223H - OH - OH	7,590.75	7,547.66	1,207.49	1,167.14	29.93	CC
(O) Cosmo K Fee #223H - OH - OH	7,800.00	7,752.21	1,208.09	1,166.91	29.34	ES
(O) Cosmo K Fee #223H - OH - OH	18,100.00	19,191.00	1,756.68	1,597.45	11.03	SF
Coonskin Fee 122H - OH - Plan #1	700.00	700.00	25.00	18.75	4.00	CC
Coonskin Fee 122H - OH - Plan #1	900.00	900.24	25.27	18.37	3.66	ES
Coonskin Fee 122H - OH - Plan #1	5,400.00	5,400.22	82.35	57.37	3.30	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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	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	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
John Callahan Offsets Pad 2						
John Callahan Fed Com 112H - OH - Design #1	19,377.12	10,450.00	1,532.79	1,471.31	24.93	CC, ES, SF
John Callahan Fed Com 132H - OH - Design #1	19,377.12	11,743.53	63.83	-18.99	0.77	No-Go Zone - Stop Drilling, (
John Callahan Fed Com 202H - OH - Design #1	19,377.12	11,747.24	334.42	188.07	2.29	CC, ES, SF
John Callahan Fed Com 209H - OH - OH	19,377.12	23,110.26	1,189.06	1,026.04	7.29	CC, ES, SF
John Callahan Fed Com 212H - OH - Design #1	19,377.12	11,763.83	216.57	74.09	1.52	Collision Risk Procedures Re
John Callahan Fed Com 222H - OH - Design #1	19,377.12	11,751.37	155.93	13.68	1.10	Collision Avoidance Req., CC
John Callahan Pad						
John Callahan Fed Com 113H - OH - OH	18,887.45	10,752.00	1,946.22	1,844.40	19.11	CC
John Callahan Fed Com 113H - OH - OH	18,900.00	10,752.00	1,946.26	1,844.26	19.08	ES
John Callahan Fed Com 113H - OH - OH	19,377.12	11,148.41	1,964.75	1,857.68	18.35	SF
John Callahan Fed Com 137H - OH - OH	19,377.12	13,334.00	1,412.91	1,274.48	10.21	CC, ES, SF
John Callahan Fed Com 223H - OH - OH	18,086.86	11,734.50	1,193.24	1,066.78	9.44	CC
John Callahan Fed Com 223H - OH - OH	18,100.00	11,734.29	1,193.32	1,066.62	9.42	ES
John Callahan Fed Com 223H - OH - OH	18,200.00	11,732.71	1,198.59	1,070.47	9.35	SF

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee #111H - OH - OH

Survey Program: 119-3_MWD												Offset Site Error:	0.00 usft
Reference												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	9.00	0.00	0.00	-84.40	26.00	-265.00	266.42				
100.00	100.00	90.47	99.47	0.84	0.13	-84.35	26.23	-265.07	266.36	265.39	0.97	274.362	
200.00	200.00	190.69	199.69	1.48	0.42	-84.23	26.79	-265.22	266.57	264.66	1.90	140.117	
300.00	300.00	291.02	300.01	1.92	0.78	-84.10	27.40	-265.20	266.61	263.91	2.70	98.753	
313.09	313.09	304.09	313.09	1.96	0.83	-84.07	27.54	-265.19	266.61	263.82	2.79	95.440	
400.00	400.00	390.69	399.68	2.28	1.14	-83.88	28.44	-265.14	266.66	263.25	3.41	78.088	
500.00	500.00	490.91	499.90	2.59	1.50	-83.69	29.31	-265.13	266.75	262.66	4.09	65.290	
600.00	600.00	591.47	600.45	2.87	1.86	-83.49	30.22	-264.96	266.68	261.96	4.73	56.432	
700.00	700.00	692.01	700.98	3.12	2.22	-83.21	31.49	-264.55	266.41	261.07	5.34	49.865	
786.05	786.05	779.44	788.40	3.22	2.53	167.52	32.71	-263.87	266.38	260.63	5.75	46.355	
800.00	800.00	793.64	802.60	3.23	2.58	167.56	32.89	-263.72	266.09	260.28	5.81	45.783	CC, ES
900.00	899.96	893.19	902.14	3.51	2.94	167.97	34.14	-262.62	267.72	261.28	6.44	41.576	
1,000.00	999.82	993.14	1,002.07	3.77	3.29	168.49	35.45	-261.62	272.03	264.97	7.06	38.550	
1,100.00	1,099.51	1,092.60	1,101.53	4.02	3.65	169.04	36.53	-260.66	278.93	271.27	7.66	36.402	
1,200.00	1,198.96	1,189.53	1,198.44	4.27	3.99	169.59	37.43	-260.16	288.84	280.59	8.25	35.000	
1,300.00	1,298.11	1,286.05	1,294.95	4.43	4.34	170.23	38.76	-260.69	302.42	293.66	8.76	34.522	
1,400.00	1,397.13	1,385.44	1,394.33	4.62	4.69	170.90	40.23	-261.43	317.14	307.83	9.31	34.076	
1,500.00	1,496.16	1,483.91	1,492.79	4.82	5.03	171.45	41.38	-262.04	331.70	321.86	9.85	33.687	
1,600.00	1,595.19	1,579.69	1,588.56	5.01	5.36	171.70	41.17	-263.45	346.86	336.50	10.36	33.465	
1,700.00	1,694.22	1,674.61	1,683.41	5.20	5.68	171.59	39.09	-266.25	363.06	352.19	10.87	33.396	
1,800.00	1,793.24	1,771.30	1,779.95	5.40	6.00	171.23	35.47	-270.26	380.14	368.75	11.38	33.391	
1,900.00	1,892.27	1,867.36	1,875.83	5.59	6.33	170.85	31.59	-274.60	397.53	385.63	11.90	33.412	
2,000.00	1,991.30	1,959.66	1,967.87	5.79	6.65	170.38	27.08	-279.91	415.99	403.60	12.39	33.563	
2,100.00	2,090.33	2,054.68	2,062.45	5.98	6.98	169.76	21.39	-286.94	435.90	423.00	12.91	33.771	
2,200.00	2,189.35	2,154.59	2,161.92	6.17	7.33	169.16	15.40	-294.18	455.71	442.26	13.45	33.881	
2,300.00	2,288.38	2,255.92	2,262.86	6.37	7.69	168.66	9.60	-300.95	475.05	461.04	14.00	33.925	
2,400.00	2,387.41	2,353.03	2,359.65	6.56	8.03	168.26	4.42	-306.88	493.91	479.38	14.54	33.979	
2,500.00	2,486.44	2,444.33	2,450.54	6.76	8.36	167.82	-1.24	-313.36	513.66	498.62	15.04	34.154	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee #111H - OH - OH

Survey Program: 119-3_MWD		Rule Assigned:										Offset Site Error: 0.00 usft	
Reference		Offset										Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,600.00	2,585.46	2,539.19	2,544.84	6.95	8.71	167.30	-7.75	-321.40	534.68	519.12	15.56	34.352	
2,700.00	2,684.49	2,641.38	2,646.49	7.15	9.09	166.84	-14.26	-329.69	555.46	539.33	16.13	34.428	
2,800.00	2,783.52	2,736.83	2,741.53	7.35	9.44	166.55	-19.37	-336.79	575.72	559.05	16.67	34.545	
2,900.00	2,882.55	2,821.98	2,826.24	7.54	9.76	166.31	-23.68	-344.24	597.32	580.19	17.14	34.856	
3,000.00	2,981.57	2,908.79	2,912.39	7.74	10.09	166.05	-28.29	-353.96	621.23	603.61	17.62	35.264	
3,100.00	3,080.60	3,008.17	3,010.96	7.94	10.46	165.82	-33.01	-365.59	645.74	627.56	18.18	35.524	
3,200.00	3,179.63	3,115.58	3,117.72	8.14	10.87	165.72	-36.72	-376.78	669.12	650.33	18.79	35.615	
3,300.00	3,278.66	3,215.10	3,216.78	8.34	11.25	165.71	-39.44	-385.91	691.34	671.99	19.35	35.733	
3,400.00	3,377.68	3,304.54	3,305.74	8.54	11.59	165.61	-42.82	-394.65	714.08	694.23	19.85	35.977	
3,500.00	3,476.71	3,395.08	3,395.56	8.74	11.94	165.39	-47.81	-404.83	738.07	717.71	20.36	36.256	
3,600.00	3,575.74	3,493.71	3,493.34	8.94	12.33	165.12	-53.69	-416.26	762.39	741.47	20.92	36.444	
3,700.00	3,674.77	3,601.17	3,600.02	9.14	12.75	164.89	-59.69	-427.83	785.96	764.43	21.54	36.496	
3,800.00	3,773.79	3,706.78	3,705.02	9.34	13.15	164.71	-65.16	-437.71	808.18	786.04	22.14	36.509	
3,900.00	3,872.82	3,805.92	3,803.64	9.54	13.53	164.56	-70.26	-446.42	829.85	807.15	22.70	36.558	
4,000.00	3,971.85	3,897.51	3,894.67	9.75	13.89	164.35	-76.06	-454.76	851.76	828.54	23.22	36.680	
4,100.00	4,070.88	4,002.23	3,998.68	9.95	14.30	164.09	-83.14	-464.55	873.91	850.09	23.82	36.688	
4,200.00	4,169.90	4,140.61	4,136.55	10.15	14.82	163.88	-91.18	-473.05	892.89	868.30	24.58	36.323	
4,300.00	4,268.93	4,240.71	4,236.35	10.36	15.19	163.68	-97.82	-477.00	909.76	884.61	25.15	36.180	
4,400.00	4,367.96	4,330.85	4,326.20	10.56	15.52	163.51	-103.91	-480.88	926.98	901.32	25.66	36.120	
4,500.00	4,466.99	4,413.43	4,408.46	10.77	15.83	163.35	-109.40	-485.60	945.61	919.46	26.14	36.169	
4,600.00	4,566.01	4,493.00	4,487.68	10.97	16.14	163.24	-114.08	-491.44	965.89	939.29	26.60	36.306	
4,700.00	4,665.04	4,573.39	4,567.66	11.17	16.45	163.21	-117.54	-498.74	987.97	960.91	27.06	36.508	
4,800.00	4,764.07	4,658.00	4,651.77	11.38	16.78	163.27	-119.39	-507.79	1,011.69	984.15	27.54	36.739	
4,900.00	4,863.10	4,773.02	4,766.12	11.58	17.22	163.46	-119.97	-520.02	1,035.52	1,007.33	28.19	36.735	
5,000.00	4,962.12	4,901.86	4,894.58	11.79	17.70	163.66	-120.93	-529.78	1,056.18	1,027.28	28.90	36.541	
5,100.00	5,061.15	4,992.91	4,985.36	11.99	18.04	163.66	-124.12	-536.04	1,076.12	1,046.70	29.42	36.574	
5,200.00	5,160.27	5,079.49	5,071.49	12.17	18.38	163.58	-129.55	-542.94	1,096.32	1,066.42	29.90	36.670	
5,300.00	5,259.69	5,169.36	5,160.72	12.35	18.73	163.41	-136.64	-551.01	1,115.07	1,084.65	30.42	36.656	
5,400.00	5,359.35	5,273.76	5,264.32	12.52	19.14	163.13	-145.37	-560.48	1,131.47	1,100.45	31.01	36.482	
5,500.00	5,459.20	5,385.78	5,375.62	12.68	19.58	162.82	-154.02	-569.78	1,144.69	1,113.05	31.63	36.184	
5,600.00	5,559.15	5,482.42	5,471.77	12.83	19.96	162.55	-160.82	-576.68	1,154.34	1,122.19	32.15	35.900	
5,700.00	5,659.15	5,558.75	5,547.56	12.87	20.26	-88.15	-166.67	-583.56	1,163.53	1,131.08	32.45	35.861	
5,800.00	5,759.15	5,651.75	5,639.79	12.92	20.63	-88.53	-174.13	-592.89	1,173.36	1,140.52	32.84	35.733	
5,900.00	5,859.15	5,738.60	5,725.79	12.98	20.99	-88.91	-181.69	-602.37	1,184.12	1,150.92	33.19	35.674	
6,000.00	5,959.15	5,841.06	5,827.15	13.03	21.41	-89.38	-191.23	-613.85	1,195.23	1,161.58	33.64	35.526	
6,100.00	6,059.15	5,935.57	5,920.59	13.08	21.80	-89.84	-200.70	-624.50	1,206.49	1,172.44	34.05	35.435	
6,200.00	6,159.15	6,029.34	6,013.35	13.14	22.19	-90.23	-208.93	-635.44	1,218.21	1,183.76	34.45	35.364	
6,300.00	6,259.15	6,123.87	6,106.94	13.19	22.58	-90.55	-215.63	-646.95	1,230.46	1,195.61	34.85	35.308	
6,400.00	6,359.15	6,236.76	6,218.82	13.25	23.04	-90.88	-223.03	-659.98	1,242.08	1,206.72	35.35	35.132	
6,500.00	6,459.15	6,331.52	6,312.89	13.30	23.41	-91.03	-226.44	-670.83	1,253.60	1,217.84	35.75	35.064	
6,600.00	6,559.15	6,430.38	6,411.06	13.36	23.80	-91.12	-228.46	-682.37	1,265.31	1,229.14	36.17	34.983	
6,700.00	6,659.15	6,530.19	6,510.18	13.41	24.20	-91.19	-230.27	-693.97	1,276.96	1,240.37	36.59	34.899	
6,800.00	6,759.15	6,627.39	6,606.69	13.47	24.58	-91.25	-231.99	-705.35	1,288.70	1,251.71	37.00	34.832	
6,900.00	6,859.15	6,725.40	6,703.98	13.52	24.97	-91.33	-234.03	-716.97	1,300.61	1,263.20	37.41	34.765	
7,000.00	6,959.15	6,851.11	6,828.85	13.58	25.46	-91.44	-236.81	-731.22	1,312.11	1,274.15	37.97	34.558	
7,100.00	7,059.15	6,959.98	6,937.20	13.64	25.89	-91.59	-240.41	-741.20	1,321.34	1,282.91	38.44	34.378	
7,200.00	7,159.15	7,105.15	7,081.90	13.69	26.44	-91.77	-245.06	-751.73	1,328.61	1,289.55	39.06	34.016	
7,300.00	7,259.15	7,211.04	7,187.58	13.75	26.83	-91.90	-248.16	-757.54	1,334.19	1,294.69	39.50	33.777	
7,400.00	7,359.15	7,315.97	7,292.36	13.81	27.22	-91.98	-250.27	-762.89	1,339.36	1,299.42	39.94	33.538	
7,500.00	7,459.15	7,448.85	7,425.12	13.87	27.70	-92.05	-252.10	-768.22	1,343.51	1,303.04	40.47	33.199	
7,600.00	7,559.15	7,562.80	7,539.04	13.93	28.08	-92.02	-251.34	-770.44	1,345.43	1,304.51	40.92	32.883	
7,700.00	7,659.15	7,662.43	7,638.65	13.98	28.42	-91.94	-249.53	-772.01	1,346.94	1,305.62	41.31	32.604	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee #111H - OH - OH

Survey Program: 119-3_MWD		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)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,800.00	7,759.15	7,761.08	7,737.26	14.04	28.74	-91.86	-247.68	-773.60	1,348.48	1,306.78	41.71	32.333			
7,900.00	7,859.15	7,855.50	7,831.65	14.10	29.06	-91.79	-246.13	-775.33	1,350.27	1,308.18	42.09	32.080			
8,000.00	7,959.15	7,947.94	7,924.05	14.16	29.38	-91.74	-245.06	-777.58	1,352.66	1,310.19	42.47	31.849			
8,100.00	8,059.15	8,049.95	8,026.03	14.22	29.73	-91.70	-244.21	-780.17	1,355.17	1,312.28	42.89	31.600			
8,200.00	8,159.15	8,153.65	8,129.70	14.28	30.09	-91.67	-243.45	-782.66	1,357.55	1,314.24	43.31	31.348			
8,300.00	8,259.15	8,278.06	8,254.09	14.34	30.51	-91.63	-242.67	-784.56	1,359.12	1,315.34	43.78	31.045			
8,400.00	8,359.15	8,392.72	8,368.75	14.40	30.87	-91.62	-242.35	-784.15	1,358.73	1,314.53	44.20	30.739			
8,500.00	8,459.15	8,493.55	8,469.58	14.46	31.19	-91.62	-242.29	-783.38	1,357.96	1,313.38	44.59	30.456			
8,600.00	8,559.15	8,591.59	8,567.61	14.52	31.50	-91.61	-242.12	-782.70	1,357.26	1,312.30	44.97	30.184			
8,700.00	8,659.15	8,692.21	8,668.23	14.58	31.81	-91.59	-241.69	-782.07	1,356.62	1,311.27	45.35	29.912			
8,800.00	8,759.15	8,795.60	8,771.61	14.65	32.14	-91.57	-241.04	-781.30	1,355.87	1,310.12	45.75	29.637			
8,900.00	8,859.15	8,909.16	8,885.16	14.71	32.50	-91.58	-241.27	-779.63	1,354.39	1,308.22	46.17	29.336			
9,000.00	8,959.15	9,010.65	8,986.62	14.77	32.82	-91.63	-242.35	-777.45	1,352.28	1,305.72	46.56	29.044			
9,100.00	9,059.15	9,101.40	9,077.35	14.83	33.10	-91.66	-243.14	-775.88	1,350.57	1,303.64	46.93	28.778			
9,200.00	9,159.15	9,190.12	9,166.07	14.89	33.39	-91.67	-243.44	-775.03	1,349.63	1,302.33	47.30	28.536			
9,256.71	9,215.86	9,239.92	9,215.86	14.93	33.55	-91.67	-243.39	-774.91	1,349.48	1,301.98	47.50	28.408			
9,300.00	9,259.15	9,278.80	9,254.75	14.96	33.68	-91.67	-243.25	-774.98	1,349.56	1,301.90	47.67	28.313			
9,400.00	9,359.15	9,370.35	9,346.30	15.02	33.99	-91.64	-242.58	-775.54	1,350.16	1,302.11	48.05	28.100			
9,500.00	9,459.15	9,454.00	9,429.93	15.08	34.28	-91.60	-241.67	-776.88	1,351.72	1,303.31	48.41	27.922			
9,600.00	9,559.15	9,581.27	9,557.18	15.15	34.72	-91.57	-241.11	-778.20	1,352.71	1,303.82	48.90	27.665			
9,700.00	9,659.15	9,692.46	9,668.37	15.21	35.09	-91.60	-241.73	-777.89	1,352.45	1,303.12	49.33	27.417			
9,800.00	9,759.15	9,793.37	9,769.27	15.28	35.42	-91.65	-242.89	-776.97	1,351.57	1,301.84	49.73	27.178			
9,900.00	9,859.15	9,889.12	9,865.02	15.34	35.73	-91.70	-244.10	-776.41	1,351.02	1,300.90	50.12	26.955			
9,983.22	9,942.37	9,966.48	9,942.37	15.39	35.99	-91.73	-244.81	-776.16	1,350.77	1,300.33	50.44	26.777			
10,000.00	9,959.15	9,981.20	9,957.09	15.40	36.04	-91.74	-244.91	-776.16	1,350.79	1,300.28	50.51	26.744			
10,100.00	10,059.15	10,026.00	10,001.89	15.47	36.19	-91.74	-245.12	-776.33	1,352.17	1,301.41	50.76	26.638			
10,200.00	10,159.15	10,090.03	10,065.78	15.53	36.41	-91.63	-242.45	-778.80	1,356.57	1,305.51	51.05	26.572			
10,300.00	10,259.15	10,122.00	10,097.43	15.60	36.52	-91.48	-238.96	-781.59	1,365.65	1,314.43	51.22	26.663			
10,400.00	10,359.15	10,181.18	10,155.29	15.67	36.72	-91.06	-229.11	-789.04	1,378.43	1,326.97	51.46	26.786			
10,500.00	10,459.15	10,227.92	10,200.13	15.73	36.88	-90.60	-218.47	-796.80	1,395.13	1,343.49	51.65	27.013			
10,600.00	10,559.15	10,276.23	10,245.61	15.80	37.04	-90.05	-205.29	-806.32	1,415.49	1,363.67	51.82	27.315			
10,700.00	10,659.15	10,313.00	10,279.60	15.86	37.16	-89.58	-193.92	-814.53	1,439.50	1,387.56	51.94	27.715			
10,800.00	10,759.15	10,366.24	10,327.42	15.93	37.32	-88.80	-174.64	-827.76	1,467.03	1,414.91	52.12	28.147			
10,900.00	10,859.15	10,408.00	10,363.41	16.00	37.44	-88.09	-156.81	-839.14	1,498.32	1,446.07	52.25	28.677			
11,000.00	10,959.15	10,408.00	10,363.41	16.06	37.44	-88.09	-156.81	-839.14	1,534.31	1,482.13	52.18	29.406			
11,100.00	11,059.15	10,459.49	10,405.27	16.13	37.58	-87.09	-131.39	-854.94	1,573.11	1,520.77	52.34	30.055			
11,200.00	11,159.15	10,503.00	10,437.92	16.20	37.71	-86.16	-106.97	-870.11	1,617.11	1,564.64	52.47	30.817			
11,300.00	11,259.00	10,503.00	10,437.92	16.28	37.71	-82.06	-106.97	-870.11	1,663.79	1,611.41	52.38	31.765			
11,400.00	11,356.78	10,503.00	10,437.92	16.40	37.71	-76.50	-106.97	-870.11	1,713.02	1,660.76	52.26	32.778			
11,500.00	11,449.54	10,558.98	10,475.84	16.52	37.85	-70.69	-71.72	-891.31	1,760.31	1,707.92	52.39	33.598			
11,600.00	11,534.47	10,598.00	10,499.36	16.63	37.95	-65.76	-44.71	-906.76	1,806.44	1,753.98	52.45	34.438			
11,700.00	11,608.98	10,598.00	10,499.36	16.75	37.95	-61.52	-44.71	-906.76	1,849.24	1,796.87	52.37	35.310			
11,800.00	11,670.81	10,635.37	10,519.36	16.89	38.03	-58.09	-17.16	-922.15	1,887.52	1,835.03	52.49	35.960			
11,900.00	11,718.09	10,694.00	10,545.18	17.06	38.20	-55.67	28.87	-947.59	1,922.17	1,869.44	52.73	36.452			
12,000.00	11,749.36	10,694.00	10,545.18	17.30	38.20	-53.43	28.87	-947.59	1,948.64	1,895.82	52.82	36.895			
12,100.00	11,763.70	10,694.00	10,545.18	17.63	38.20	-51.70	28.87	-947.59	1,969.85	1,916.88	52.97	37.187			
12,200.00	11,764.05	10,694.00	10,545.18	18.04	38.20	-51.19	28.87	-947.59	1,987.47	1,934.31	53.16	37.386			
12,300.00	11,763.18	10,745.21	10,561.22	18.54	38.34	-51.98	71.68	-970.57	2,006.62	1,953.02	53.60	37.434			
12,400.00	11,762.31	10,789.00	10,569.34	19.13	38.49	-52.52	109.90	-990.28	2,030.90	1,976.80	54.09	37.545			
12,500.00	11,761.43	11,363.32	10,563.88	19.79	40.82	-53.98	672.22	-1,081.23	2,037.40	1,980.84	56.56	36.021			
12,600.00	11,760.56	11,461.56	10,561.22	20.52	41.36	-53.95	770.40	-1,083.00	2,039.25	1,981.74	57.50	35.464			
12,700.00	11,759.69	11,567.24	10,557.88	21.32	41.99	-53.91	876.01	-1,084.74	2,041.22	1,982.65	58.57	34.852			

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee #111H - OH - OH

Survey Program: 119-3_MWD		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)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,800.00	11,758.82	11,661.20	10,553.58	22.16	42.61	-53.83			969.87	-1,085.15	2,043.06	1,983.39	59.67	34.240	
12,900.00	11,757.94	11,763.43	10,548.12	23.06	43.33	-53.71			1,071.95	-1,085.26	2,045.09	1,984.21	60.88	33.590	
13,000.00	11,757.07	11,850.72	10,543.25	24.01	43.99	-53.61			1,159.12	-1,085.39	2,047.30	1,985.20	62.10	32.966	
13,100.00	11,756.20	11,939.49	10,537.86	24.99	44.70	-53.50			1,247.72	-1,085.88	2,050.15	1,986.75	63.39	32.340	
13,200.00	11,755.32	12,118.40	10,532.07	26.01	46.23	-53.39			1,426.49	-1,086.34	2,050.85	1,985.60	65.25	31.428	
13,300.00	11,754.45	12,206.50	10,530.80	27.06	47.02	-53.36			1,514.58	-1,086.04	2,050.24	1,983.55	66.70	30.740	
13,400.00	11,753.58	12,329.32	10,528.38	28.14	48.18	-53.30			1,637.38	-1,085.72	2,050.10	1,981.71	68.39	29.977	
13,500.00	11,752.71	12,439.21	10,528.67	29.24	49.25	-53.31			1,747.27	-1,085.38	2,048.46	1,978.38	70.08	29.229	
13,600.00	11,751.83	12,560.81	10,530.05	30.36	50.49	-53.33			1,868.85	-1,084.15	2,045.66	1,973.75	71.91	28.448	
13,700.00	11,750.96	12,630.00	10,530.43	31.51	51.22	-53.33			1,938.04	-1,083.75	2,043.64	1,970.18	73.46	27.821	
13,793.78	11,750.14	12,697.15	10,529.86	32.60	51.95	-53.32			2,005.18	-1,083.84	2,043.05	1,968.10	74.95	27.259	
13,800.00	11,750.09	12,701.69	10,529.79	32.67	51.99	-53.32			2,009.72	-1,083.85	2,043.06	1,968.01	75.05	27.223	
13,900.00	11,749.22	12,790.42	10,527.70	33.85	52.98	-53.29			2,098.42	-1,084.20	2,043.54	1,966.76	76.78	26.616	
14,000.00	11,748.34	12,891.91	10,524.78	35.04	54.12	-53.23			2,199.87	-1,084.37	2,044.18	1,965.56	78.62	26.000	
14,100.00	11,747.47	13,012.49	10,525.04	36.24	55.52	-53.17			2,320.42	-1,084.36	2,044.33	1,963.70	80.63	25.354	
14,150.55	11,747.03	13,053.97	10,521.14	36.85	56.01	-53.15			2,361.89	-1,084.21	2,044.22	1,962.69	81.53	25.073	
14,200.00	11,746.60	13,094.73	10,520.15	37.46	56.49	-53.13			2,402.64	-1,084.19	2,044.33	1,961.91	82.41	24.806	
14,300.00	11,745.73	13,193.53	10,517.66	38.68	57.69	-53.08			2,501.40	-1,084.47	2,044.84	1,960.51	84.34	24.246	
14,400.00	11,744.85	13,270.93	10,515.16	39.92	58.64	-53.04			2,578.76	-1,084.72	2,045.83	1,959.71	86.12	23.755	
14,500.00	11,743.98	13,345.45	10,511.35	41.16	59.57	-52.96			2,653.19	-1,085.03	2,048.04	1,960.15	87.88	23.304	
14,600.00	11,743.11	13,429.34	10,506.28	42.41	60.63	-52.87			2,736.91	-1,086.08	2,051.42	1,961.70	89.73	22.863	
14,700.00	11,742.23	13,564.90	10,498.64	43.67	62.37	-52.73			2,872.25	-1,087.63	2,054.65	1,962.66	92.00	22.334	
14,800.00	11,741.36	13,689.84	10,494.64	44.93	64.00	-52.66			2,997.12	-1,088.25	2,055.73	1,961.50	94.23	21.817	
14,900.00	11,740.49	13,782.67	10,490.99	46.21	65.22	-52.58			3,089.87	-1,087.92	2,056.61	1,960.41	96.20	21.377	
15,000.00	11,739.62	13,895.31	10,486.54	47.48	66.71	-52.47			3,202.42	-1,087.21	2,057.28	1,958.94	98.34	20.919	
15,100.00	11,738.74	14,005.56	10,483.24	48.76	68.19	-52.40			3,312.63	-1,086.77	2,057.59	1,957.09	100.50	20.474	
15,200.00	11,737.87	14,117.61	10,484.33	50.05	69.72	-52.46			3,424.65	-1,088.60	2,057.05	1,954.26	102.79	20.013	
15,286.78	11,737.11	14,190.83	10,485.15	51.17	70.73	-52.50			3,497.85	-1,089.89	2,056.63	1,952.04	104.59	19.664	
15,300.00	11,737.00	14,200.26	10,485.15	51.34	70.86	-52.50			3,507.28	-1,090.05	2,056.65	1,951.80	104.85	19.615	
15,400.00	11,736.13	14,277.93	10,483.98	52.64	71.94	-52.50			3,584.93	-1,091.20	2,057.49	1,950.65	106.84	19.258	
15,500.00	11,735.25	14,369.70	10,481.26	53.93	73.22	-52.46			3,676.65	-1,092.14	2,058.89	1,949.96	108.92	18.902	
15,600.00	11,734.38	14,453.84	10,477.86	55.24	74.40	-52.40			3,760.72	-1,093.09	2,061.02	1,950.08	110.94	18.578	
15,700.00	11,733.51	14,566.27	10,474.35	56.54	76.00	-52.36			3,873.08	-1,094.80	2,062.87	1,949.65	113.23	18.219	
15,800.00	11,732.64	14,649.18	10,471.77	57.85	77.18	-52.34			3,955.93	-1,096.58	2,065.23	1,949.95	115.28	17.915	
15,900.00	11,731.76	14,767.76	10,469.42	59.16	78.89	-52.35			4,074.44	-1,099.79	2,067.35	1,949.65	117.70	17.565	
16,000.00	11,730.89	14,868.72	10,468.73	60.47	80.35	-52.39			4,175.35	-1,102.93	2,069.01	1,949.01	120.00	17.242	
16,100.00	11,730.02	14,957.73	10,468.14	61.79	81.64	-52.43			4,264.31	-1,106.00	2,070.93	1,948.73	122.20	16.947	
16,200.00	11,729.15	15,041.78	10,467.18	63.11	82.88	-52.47			4,348.28	-1,109.36	2,073.58	1,949.21	124.36	16.674	
16,300.00	11,728.27	15,131.92	10,464.60	64.43	84.20	-52.47			4,438.33	-1,112.55	2,076.90	1,950.35	126.55	16.412	
16,400.00	11,727.40	15,233.31	10,460.91	65.75	85.70	-52.45			4,539.60	-1,115.57	2,080.25	1,951.43	128.83	16.148	
16,500.00	11,726.53	15,321.91	10,457.34	67.08	87.02	-52.42			4,628.09	-1,118.36	2,083.98	1,953.00	130.98	15.911 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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee #112H - OH - OH

Survey Program: 119-3_MWD		Rule Assigned:										Offset Site Error:	0.00 usft
Reference		Offset Well Error:										0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.99	-0.01	0.00	0.00	-89.78	1.00	-265.00	265.00				
100.00	100.00	100.45	99.44	0.84	0.14	-89.83	0.80	-265.11	265.11	264.12	0.98	269.165	
200.00	200.00	201.08	200.08	1.48	0.46	-89.90	0.46	-265.24	265.24	263.30	1.94	136.846	
247.37	247.37	248.38	247.37	1.69	0.62	-89.91	0.42	-265.22	265.22	262.91	2.31	114.804	
300.00	300.00	300.76	299.76	1.92	0.80	-89.88	0.56	-265.25	265.25	262.52	2.72	97.455	
400.00	400.00	400.33	399.33	2.28	1.15	-89.72	1.30	-265.42	265.42	262.00	3.42	77.522	
500.00	500.00	500.26	499.26	2.59	1.49	-89.52	2.23	-265.68	265.69	261.61	4.08	65.102	
600.00	600.00	601.86	600.85	2.87	1.85	-89.34	3.05	-265.71	265.72	261.01	4.72	56.341	
700.00	700.00	703.67	702.65	3.12	2.21	-89.13	4.02	-265.02	265.06	259.73	5.33	49.717	
792.74	792.74	796.48	795.45	3.22	2.54	161.62	5.29	-264.05	264.65	258.89	5.76	45.957	
800.00	800.00	803.74	802.70	3.23	2.56	161.63	5.40	-263.97	264.35	258.56	5.79	45.641	CC, ES
900.00	899.96	903.43	902.38	3.51	2.92	162.13	6.91	-262.95	265.86	259.44	6.42	41.438	
1,000.00	999.82	1,002.14	1,001.08	3.77	3.27	162.71	8.14	-262.25	270.18	263.15	7.02	38.459	
1,100.00	1,099.51	1,101.40	1,100.33	4.02	3.62	163.37	9.15	-261.82	277.30	269.67	7.63	36.353	
1,200.00	1,198.96	1,199.88	1,198.81	4.27	3.97	164.10	10.03	-261.62	287.19	278.97	8.22	34.938	
1,300.00	1,298.11	1,301.43	1,300.36	4.43	4.32	164.77	10.09	-261.60	299.73	290.99	8.74	34.301	
1,400.00	1,397.13	1,408.79	1,407.68	4.62	4.69	165.21	8.37	-259.58	311.19	301.89	9.30	33.461	
1,500.00	1,496.16	1,520.03	1,518.73	4.82	5.08	165.37	4.83	-254.16	319.57	309.70	9.87	32.378	
1,600.00	1,595.19	1,629.28	1,627.49	5.01	5.47	165.32	-0.08	-245.16	324.45	314.02	10.43	31.098	
1,700.00	1,694.22	1,732.12	1,729.66	5.20	5.84	165.13	-5.71	-234.85	327.47	316.48	10.99	29.808	
1,800.00	1,793.24	1,831.32	1,828.17	5.40	6.20	164.92	-11.30	-224.61	330.19	318.65	11.54	28.620	
1,900.00	1,892.27	1,929.33	1,925.55	5.59	6.57	164.73	-16.74	-215.01	333.44	321.35	12.09	27.585	
2,000.00	1,991.30	2,029.98	2,025.58	5.79	6.94	164.59	-21.99	-205.18	336.76	324.11	12.65	26.631	
2,100.00	2,090.33	2,129.33	2,124.34	5.98	7.32	164.52	-26.81	-195.47	340.09	326.89	13.20	25.760	
2,200.00	2,189.35	2,229.31	2,223.75	6.17	7.69	164.51	-31.25	-185.86	343.61	329.85	13.76	24.971	
2,300.00	2,288.38	2,331.04	2,324.90	6.37	8.08	164.63	-35.07	-175.62	346.74	332.41	14.32	24.207	
2,400.00	2,387.41	2,431.94	2,425.18	6.56	8.47	164.81	-38.48	-165.07	349.50	334.62	14.89	23.479	
2,500.00	2,486.44	2,532.40	2,525.03	6.76	8.85	165.09	-41.29	-154.30	352.05	336.60	15.45	22.792	
2,600.00	2,585.46	2,635.28	2,627.25	6.95	9.25	165.41	-43.90	-142.96	354.33	338.32	16.01	22.129	
2,700.00	2,684.49	2,737.18	2,728.35	7.15	9.65	165.61	-47.32	-130.72	355.55	338.97	16.58	21.448	
2,800.00	2,783.52	2,838.95	2,829.23	7.35	10.06	165.49	-52.74	-118.46	356.56	339.42	17.15	20.797	
2,900.00	2,882.55	2,938.66	2,927.98	7.54	10.46	165.24	-58.87	-106.09	357.13	339.42	17.71	20.162	
3,000.00	2,981.57	3,038.52	3,026.88	7.74	10.86	164.89	-65.59	-93.98	357.94	339.66	18.28	19.579	
3,100.00	3,080.60	3,139.39	3,126.77	7.94	11.26	164.58	-72.17	-81.58	358.62	339.77	18.85	19.020	
3,200.00	3,179.63	3,236.58	3,223.03	8.14	11.66	164.31	-78.38	-69.79	359.47	340.05	19.42	18.509	
3,300.00	3,278.66	3,335.63	3,321.21	8.34	12.06	163.96	-85.08	-58.44	360.99	341.00	19.99	18.056	
3,400.00	3,377.68	3,437.37	3,422.05	8.54	12.47	163.68	-91.48	-46.62	362.38	341.81	20.57	17.618	
3,500.00	3,476.71	3,534.58	3,518.42	8.74	12.86	163.42	-97.59	-35.39	363.86	342.72	21.14	17.214	
3,600.00	3,575.74	3,634.80	3,617.78	8.94	13.27	163.08	-104.31	-24.22	365.73	344.02	21.71	16.843	
3,700.00	3,674.77	3,733.44	3,715.61	9.14	13.67	162.77	-110.84	-13.32	367.71	345.42	22.29	16.499	
3,800.00	3,773.79	3,826.83	3,808.35	9.34	14.04	162.52	-116.68	-4.02	370.81	347.97	22.84	16.234	
3,900.00	3,872.82	3,924.44	3,905.43	9.54	14.42	162.36	-122.11	4.54	375.14	351.73	23.41	16.028	
4,000.00	3,971.85	4,031.44	4,011.79	9.75	14.84	162.21	-127.97	14.58	378.86	354.86	24.00	15.785	
4,100.00	4,070.88	4,138.19	4,117.66	9.95	15.28	162.07	-133.86	26.93	380.36	355.76	24.59	15.467	
4,200.00	4,169.90	4,236.33	4,214.91	10.15	15.68	161.82	-140.05	38.51	381.63	356.46	25.17	15.164	
4,300.00	4,268.93	4,333.70	4,311.47	10.36	16.07	161.64	-145.73	49.78	383.15	357.41	25.74	14.887	
4,400.00	4,367.96	4,429.50	4,406.73	10.56	16.45	161.90	-148.43	59.45	386.22	359.93	26.29	14.692	
4,500.00	4,466.99	4,538.44	4,515.00	10.77	16.88	162.56	-148.98	71.44	388.48	361.62	26.86	14.462	
4,600.00	4,566.01	4,651.30	4,626.75	10.97	17.34	163.21	-149.84	87.23	387.76	360.33	27.43	14.137	
4,700.00	4,665.04	4,749.35	4,723.51	11.17	17.75	163.54	-152.32	102.79	385.09	357.10	27.99	13.756	
4,771.98	4,736.32	4,814.17	4,787.59	11.32	18.02	163.47	-155.86	111.92	384.36	355.96	28.40	13.533	
4,800.00	4,764.07	4,838.90	4,812.07	11.38	18.12	163.40	-157.46	115.04	384.48	355.92	28.56	13.463	

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

Total Directional Anticollision Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee #112H - OH - OH

Survey Program: 119-3_MWD										Rule Assigned:				Offset Site Error:
														Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,900.00	4,863.10	4,931.44	4,903.82	11.58	18.50	163.04	-164.09	125.14	386.53	357.41	29.12	13.274		
5,000.00	4,962.12	5,025.67	4,997.40	11.79	18.88	162.75	-170.30	134.16	390.00	360.32	29.68	13.141		
5,100.00	5,061.15	5,120.60	5,091.88	11.99	19.25	162.59	-175.64	141.84	394.99	364.76	30.23	13.067		
5,200.00	5,160.27	5,216.87	5,187.78	12.17	19.62	162.52	-180.30	148.72	400.33	369.57	30.75	13.018		
5,300.00	5,259.69	5,315.89	5,286.50	12.35	19.99	162.39	-184.78	155.11	403.96	372.64	31.32	12.897		
5,400.00	5,359.35	5,413.92	5,384.24	12.52	20.36	162.20	-188.82	161.31	405.25	373.37	31.87	12.714		
5,500.00	5,459.20	5,513.60	5,483.69	12.68	20.73	161.94	-192.48	167.19	404.49	372.07	32.42	12.476		
5,600.00	5,559.15	5,621.23	5,590.98	12.83	21.14	161.46	-196.82	174.39	400.48	367.48	33.00	12.135		
5,700.00	5,659.15	5,724.64	5,693.85	12.87	21.55	-89.82	-202.75	183.11	392.42	358.97	33.45	11.731		
5,800.00	5,759.15	5,825.72	5,794.32	12.92	21.95	-90.76	-209.09	192.25	383.40	349.50	33.90	11.309		
5,900.00	5,859.15	5,919.06	5,887.19	12.98	22.31	-91.55	-214.13	200.13	375.05	340.74	34.32	10.929		
6,000.00	5,959.15	6,016.41	5,984.20	13.03	22.68	-92.19	-218.05	207.18	367.95	333.21	34.74	10.592		
6,100.00	6,059.15	6,116.66	6,084.14	13.08	23.07	-92.82	-221.69	214.20	361.10	325.92	35.17	10.266		
6,200.00	6,159.15	6,216.12	6,183.29	13.14	23.44	-93.42	-225.10	221.23	354.23	318.62	35.61	9.949		
6,300.00	6,259.15	6,314.68	6,281.56	13.19	23.82	-94.04	-228.43	227.99	347.60	311.56	36.03	9.647		
6,400.00	6,359.15	6,413.86	6,380.49	13.25	24.19	-94.59	-231.29	234.48	341.28	304.82	36.46	9.360		
6,500.00	6,459.15	6,514.00	6,480.36	13.30	24.56	-95.15	-234.00	241.17	334.85	297.96	36.89	9.076		
6,600.00	6,559.15	6,608.50	6,574.68	13.36	24.91	-95.62	-236.20	246.62	329.32	292.03	37.29	8.831		
6,700.00	6,659.15	6,702.23	6,668.33	13.41	25.25	-95.86	-237.21	250.37	325.46	287.80	37.66	8.642		
6,784.11	6,743.26	6,777.44	6,743.53	13.46	25.49	-95.92	-237.44	251.49	324.24	286.33	37.91	8.552		
6,800.00	6,759.15	6,792.07	6,758.16	13.47	25.54	-95.92	-237.46	251.47	324.26	286.30	37.96	8.542		
6,900.00	6,859.15	6,887.64	6,853.72	13.52	25.83	-95.94	-237.66	250.48	325.31	287.02	38.29	8.496		
7,000.00	6,959.15	6,988.46	6,954.53	13.58	26.14	-96.04	-238.41	249.00	326.84	288.17	38.68	8.450		
7,100.00	7,059.15	7,088.89	7,054.95	13.64	26.45	-96.14	-239.11	247.71	328.20	289.14	39.07	8.401		
7,200.00	7,159.15	7,189.81	7,155.86	13.69	26.76	-96.27	-239.95	246.64	329.35	289.88	39.46	8.346		
7,300.00	7,259.15	7,289.83	7,255.88	13.75	27.08	-96.39	-240.73	245.83	330.24	290.39	39.85	8.287		
7,400.00	7,359.15	7,388.29	7,354.32	13.81	27.38	-96.52	-241.67	244.65	331.53	291.31	40.22	8.242		
7,500.00	7,459.15	7,487.91	7,453.93	13.87	27.70	-96.66	-242.64	243.27	333.02	292.41	40.61	8.201		
7,600.00	7,559.15	7,588.14	7,554.14	13.93	28.01	-96.75	-243.35	241.71	334.65	293.65	41.00	8.163		
7,700.00	7,659.15	7,689.26	7,655.25	13.98	28.33	-96.89	-244.32	240.53	335.92	294.52	41.40	8.114		
7,800.00	7,759.15	7,789.53	7,755.51	14.04	28.65	-96.99	-245.03	239.49	337.04	295.25	41.79	8.065		
7,900.00	7,859.15	7,889.70	7,855.68	14.10	28.97	-97.10	-245.81	238.52	338.09	295.90	42.19	8.014		
8,000.00	7,959.15	7,988.79	7,954.76	14.16	29.28	-97.23	-246.70	237.54	339.19	296.62	42.57	7.968		
8,100.00	8,059.15	8,089.01	8,054.97	14.22	29.60	-97.28	-247.13	236.22	340.55	297.58	42.96	7.927		
8,200.00	8,159.15	8,190.32	8,156.28	14.28	29.92	-97.28	-247.27	235.18	341.58	298.22	43.36	7.878		
8,300.00	8,259.15	8,288.89	8,254.83	14.34	30.23	-97.07	-246.17	234.09	342.54	298.81	43.73	7.834		
8,400.00	8,359.15	8,389.66	8,355.58	14.40	30.55	-96.80	-244.69	232.65	343.79	299.68	44.11	7.794		
8,500.00	8,459.15	8,492.07	8,457.97	14.46	30.88	-96.59	-243.52	231.78	344.50	299.98	44.52	7.739		
8,600.00	8,559.15	8,597.93	8,563.83	14.52	31.23	-96.65	-243.82	232.31	344.03	299.06	44.97	7.651		
8,700.00	8,659.15	8,698.11	8,664.00	14.58	31.58	-96.78	-244.47	233.80	342.63	297.25	45.38	7.550		
8,800.00	8,759.15	8,796.50	8,762.38	14.65	31.92	-96.94	-245.25	235.04	341.47	295.69	45.79	7.458		
8,900.00	8,859.15	8,896.34	8,862.21	14.71	32.27	-97.03	-245.67	236.04	340.53	294.33	46.20	7.371		
9,000.00	8,959.15	8,995.12	8,960.99	14.77	32.61	-97.04	-245.63	236.75	339.81	293.21	46.60	7.292		
9,100.00	9,059.15	9,093.87	9,059.74	14.83	32.94	-97.01	-245.44	237.08	339.46	292.47	46.99	7.224		
9,150.93	9,110.08	9,144.22	9,110.08	14.86	33.11	-97.02	-245.46	237.13	339.41	292.22	47.19	7.192		
9,200.00	9,159.15	9,193.32	9,159.19	14.89	33.28	-97.04	-245.59	237.12	339.43	292.04	47.39	7.162		
9,300.00	9,259.15	9,293.82	9,259.68	14.96	33.62	-97.07	-245.79	237.32	339.26	291.46	47.80	7.097		
9,335.61	9,294.76	9,328.89	9,294.76	14.98	33.74	-97.06	-245.69	237.34	339.23	291.29	47.94	7.076		
9,400.00	9,359.15	9,393.65	9,359.51	15.02	33.95	-96.98	-245.22	237.26	339.26	291.06	48.20	7.039		
9,500.00	9,459.15	9,495.10	9,460.95	15.08	34.28	-96.73	-243.73	237.49	338.85	290.25	48.60	6.972		
9,600.00	9,559.15	9,595.10	9,560.91	15.15	34.61	-96.28	-240.98	237.70	338.33	289.35	48.98	6.907		
9,700.00	9,659.15	9,696.13	9,661.89	15.21	34.94	-95.76	-237.89	237.98	337.73	288.36	49.38	6.840		

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee #112H - OH - OH

Survey Program: 119-3_MWD										Rule Assigned:		Offset Site Error:	
												Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,800.00	9,759.15	9,796.73	9,762.42	15.28	35.27	-95.12	-234.04	238.60	336.76	286.99	49.76	6.767	
9,900.00	9,859.15	9,895.73	9,861.29	15.34	35.60	-94.27	-228.99	239.01	335.92	285.79	50.13	6.701	
9,959.83	9,918.98	9,953.50	9,918.98	15.38	35.78	-93.74	-225.93	239.03	335.69	285.35	50.34	6.669	
10,000.00	9,959.15	9,991.71	9,957.13	15.40	35.91	-93.36	-223.66	238.77	335.81	285.34	50.47	6.653	
10,100.00	10,059.15	10,099.50	10,064.19	15.47	36.25	-91.39	-212.16	238.62	335.52	284.64	50.88	6.594	
10,149.45	10,108.61	10,145.25	10,108.61	15.50	36.38	-89.53	-201.25	238.92	335.09	284.09	51.00	6.571	SF
10,200.00	10,159.15	10,189.47	10,150.67	15.53	36.50	-87.21	-187.64	238.81	335.69	284.61	51.08	6.572	
10,300.00	10,259.15	10,270.52	10,224.97	15.60	36.70	-81.78	-155.41	237.53	341.68	290.56	51.12	6.684	
10,400.00	10,359.15	10,344.41	10,288.49	15.67	36.85	-75.73	-117.84	235.29	356.57	305.60	50.97	6.995	
10,500.00	10,459.15	10,411.00	10,341.45	15.73	36.97	-69.62	-77.56	233.57	381.75	331.10	50.65	7.537	
10,600.00	10,559.15	10,466.75	10,381.81	15.80	37.04	-64.21	-39.15	232.86	418.33	368.21	50.13	8.346	
10,700.00	10,659.15	10,506.00	10,407.56	15.86	37.10	-60.31	-9.54	232.93	466.30	416.94	49.36	9.446	
10,800.00	10,759.15	10,547.22	10,432.49	15.93	37.13	-56.34	23.27	232.75	524.23	475.46	48.76	10.751	
10,900.00	10,859.15	10,578.82	10,450.35	16.00	37.16	-53.48	49.33	231.93	590.17	542.00	48.18	12.250	
11,000.00	10,959.15	10,602.00	10,462.74	16.06	37.18	-51.50	68.90	230.96	662.25	614.60	47.65	13.899	
11,100.00	11,059.15	10,630.81	10,477.16	16.13	37.18	-49.16	93.79	229.48	738.98	691.60	47.38	15.598	
11,200.00	11,159.15	10,651.84	10,486.93	16.20	37.19	-47.54	112.37	228.31	819.44	772.30	47.14	17.384	
11,300.00	11,259.00	10,697.00	10,505.68	16.28	37.21	-37.97	153.35	225.56	902.08	854.82	47.26	19.088	
11,400.00	11,356.78	10,697.00	10,505.68	16.40	37.21	-31.34	153.35	225.56	978.03	931.19	46.84	20.881	
11,500.00	11,449.54	10,697.00	10,505.68	16.52	37.21	-26.52	153.35	225.56	1,048.59	1,002.13	46.46	22.571	
11,600.00	11,534.47	10,744.02	10,521.44	16.63	37.22	-22.50	197.56	222.88	1,109.76	1,063.27	46.50	23.868	
11,700.00	11,608.98	10,793.00	10,533.16	16.75	37.34	-19.81	245.04	220.84	1,163.27	1,116.74	46.52	25.004	
11,800.00	11,670.81	10,793.00	10,533.16	16.89	37.34	-18.28	245.04	220.84	1,205.65	1,159.37	46.28	26.053	
11,900.00	11,718.09	10,824.52	10,538.03	17.06	37.43	-17.09	276.17	219.94	1,238.37	1,192.09	46.28	26.757	
12,000.00	11,749.36	10,843.00	10,539.85	17.30	37.49	-16.38	294.55	219.56	1,260.59	1,214.26	46.33	27.208	
12,100.00	11,763.70	10,888.00	10,541.35	17.63	37.64	-15.99	339.51	219.35	1,271.46	1,224.94	46.51	27.335	
12,200.00	11,764.05	10,951.36	10,540.03	18.04	37.88	-15.90	402.85	219.96	1,273.10	1,226.41	46.70	27.264	
12,300.00	11,763.18	11,024.40	10,536.97	18.54	38.17	-15.80	475.82	220.89	1,275.71	1,228.80	46.92	27.192	
12,400.00	11,762.31	11,143.47	10,530.87	19.13	38.73	-15.57	594.67	223.74	1,278.98	1,231.80	47.17	27.114	
12,500.00	11,761.43	11,276.92	10,528.50	19.79	39.44	-15.37	728.05	227.05	1,278.65	1,231.14	47.51	26.914	
12,544.50	11,761.04	11,316.08	10,527.98	20.11	39.67	-15.32	767.20	227.68	1,278.56	1,230.90	47.66	26.825	
12,600.00	11,760.56	11,365.00	10,527.15	20.52	39.96	-15.28	816.11	228.23	1,278.71	1,230.85	47.86	26.720	
12,700.00	11,759.69	11,438.18	10,524.92	21.32	40.44	-15.19	889.25	229.08	1,280.27	1,232.04	48.23	26.546	
12,800.00	11,758.82	11,558.42	10,520.32	22.16	41.27	-15.03	1,009.38	230.77	1,282.62	1,233.94	48.68	26.347	
12,900.00	11,757.94	11,650.00	10,517.87	23.06	41.96	-14.94	1,100.93	231.61	1,283.91	1,234.77	49.15	26.124	
13,000.00	11,757.07	11,729.68	10,515.00	24.01	42.59	-14.88	1,180.56	231.75	1,286.30	1,236.67	49.63	25.917	
13,100.00	11,756.20	11,877.33	10,511.80	24.99	43.84	-14.84	1,328.15	230.96	1,287.34	1,237.07	50.28	25.605	
13,164.19	11,755.64	11,936.00	10,511.43	25.65	44.35	-14.84	1,386.82	230.46	1,287.19	1,236.55	50.64	25.416	
13,200.00	11,755.32	11,965.51	10,511.12	26.01	44.62	-14.84	1,416.32	230.12	1,287.28	1,236.43	50.85	25.315	
13,300.00	11,754.45	12,047.09	10,509.59	27.06	45.37	-14.87	1,497.87	228.66	1,288.49	1,237.04	51.44	25.047	
13,400.00	11,753.58	12,135.55	10,506.88	28.14	46.23	-14.92	1,586.26	226.17	1,291.08	1,238.99	52.09	24.787	
13,500.00	11,752.71	12,291.04	10,506.18	29.24	47.79	-15.02	1,741.69	222.66	1,290.63	1,237.69	52.94	24.378	
13,600.00	11,751.83	12,387.88	10,507.32	30.36	48.80	-15.12	1,838.49	219.90	1,289.17	1,235.48	53.69	24.013	
13,700.00	11,750.96	12,478.87	10,507.75	31.51	49.78	-15.20	1,929.45	217.70	1,288.28	1,233.84	54.44	23.665	
13,774.67	11,750.31	12,546.63	10,507.68	32.37	50.52	-15.26	1,997.18	215.90	1,288.08	1,233.06	55.02	23.413	
13,800.00	11,750.09	12,569.43	10,507.57	32.67	50.78	-15.28	2,019.98	215.28	1,288.10	1,232.89	55.21	23.329	
13,900.00	11,749.22	12,658.18	10,506.61	33.85	51.78	-15.33	2,108.70	213.19	1,288.70	1,232.69	56.01	23.010	
14,000.00	11,748.34	12,743.02	10,504.75	35.04	52.76	-15.37	2,193.50	211.31	1,290.33	1,233.52	56.81	22.715	
14,100.00	11,747.47	12,824.00	10,501.74	36.24	53.72	-15.37	2,274.40	209.88	1,293.31	1,235.71	57.60	22.452	
14,200.00	11,746.60	12,908.64	10,497.39	37.46	54.74	-15.35	2,358.92	208.53	1,297.62	1,239.19	58.43	22.209	
14,300.00	11,745.73	13,070.06	10,491.97	38.68	56.72	-15.30	2,520.22	207.20	1,299.92	1,240.41	59.51	21.843	
14,380.81	11,745.02	13,152.99	10,491.21	39.68	57.76	-15.27	2,603.15	207.33	1,299.73	1,239.48	60.25	21.571	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee #112H - OH - OH

Survey Program: 119-3_MWD										Rule Assigned:		Offset Site Error:	
												Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
14,400.00	11,744.85	13,169.49	10,490.98	39.92	57.97	-15.25	2,619.65	207.44	1,299.75	1,239.33	60.42	21.513	
14,500.00	11,743.98	13,297.41	10,489.69	41.16	59.60	-15.16	2,747.55	208.58	1,299.57	1,238.15	61.42	21.160	
14,600.00	11,743.11	13,397.00	10,490.39	42.41	60.88	-15.11	2,847.14	209.34	1,297.62	1,235.26	62.36	20.809	
14,700.00	11,742.23	13,486.39	10,490.45	43.67	62.05	-15.04	2,936.51	210.44	1,296.16	1,232.88	63.27	20.485	
14,786.84	11,741.48	13,559.11	10,489.83	44.77	63.01	-14.97	3,009.23	211.36	1,295.67	1,231.61	64.06	20.226	
14,800.00	11,741.36	13,570.07	10,489.67	44.93	63.16	-14.96	3,020.19	211.47	1,295.68	1,231.50	64.18	20.189	
14,900.00	11,740.49	13,703.64	10,489.30	46.21	64.94	-14.87	3,153.74	212.63	1,294.69	1,229.43	65.26	19.840	
15,000.00	11,739.62	13,798.08	10,490.24	47.48	66.22	-14.80	3,248.17	213.83	1,292.34	1,226.11	66.23	19.513	
15,100.00	11,738.74	13,878.60	10,490.06	48.76	67.32	-14.73	3,328.68	214.93	1,291.14	1,223.97	67.16	19.224	
15,200.00	11,737.87	13,980.42	10,489.16	50.05	68.72	-14.62	3,430.49	216.71	1,290.48	1,222.32	68.16	18.934	
15,242.05	11,737.50	14,014.47	10,488.72	50.59	69.19	-14.57	3,464.52	217.40	1,290.35	1,221.80	68.55	18.823	
15,300.00	11,737.00	14,066.00	10,487.64	51.34	69.91	-14.50	3,516.03	218.41	1,290.61	1,221.50	69.10	18.676	
15,400.00	11,736.13	14,191.44	10,486.81	52.64	71.66	-14.39	3,641.45	219.99	1,289.81	1,219.61	70.19	18.375	
15,500.00	11,735.25	14,278.93	10,486.54	53.93	72.89	-14.33	3,728.94	220.68	1,288.85	1,217.65	71.20	18.102	
15,564.33	11,734.69	14,336.83	10,485.90	54.77	73.71	-14.29	3,786.83	221.29	1,288.68	1,216.84	71.85	17.937	
15,600.00	11,734.38	14,368.16	10,485.41	55.24	74.16	-14.25	3,818.16	221.70	1,288.74	1,216.54	72.20	17.850	
15,700.00	11,733.51	14,454.17	10,483.29	56.54	75.39	-14.14	3,904.13	223.23	1,289.63	1,216.46	73.18	17.623	
15,800.00	11,732.64	14,546.12	10,480.15	57.85	76.71	-14.00	3,996.00	225.06	1,291.40	1,217.23	74.17	17.412	
15,900.00	11,731.76	14,663.87	10,477.04	59.16	78.41	-13.86	4,113.69	226.85	1,292.50	1,217.25	75.25	17.177	
16,000.00	11,730.89	14,754.19	10,474.95	60.47	79.72	-13.78	4,203.98	227.66	1,293.49	1,217.21	76.28	16.958	
16,100.00	11,730.02	14,837.08	10,472.01	61.79	80.93	-13.68	4,286.82	228.64	1,295.59	1,218.32	77.27	16.767	
16,200.00	11,729.15	14,926.00	10,467.81	63.11	82.24	-13.57	4,375.63	229.65	1,298.85	1,220.57	78.28	16.593	
16,300.00	11,728.27	15,010.47	10,462.92	64.43	83.48	-13.45	4,459.95	230.72	1,303.13	1,223.87	79.26	16.441	
16,400.00	11,727.40	15,158.87	10,457.35	65.75	85.68	-13.34	4,608.22	230.90	1,305.53	1,225.02	80.51	16.215	
16,500.00	11,726.53	15,249.45	10,455.59	67.08	87.03	-13.37	4,698.77	229.25	1,306.81	1,225.16	81.64	16.006	
16,600.00	11,725.65	15,331.53	10,453.13	68.40	88.25	-13.42	4,780.77	226.91	1,309.33	1,226.56	82.77	15.820	
16,700.00	11,724.78	15,417.45	10,449.46	69.73	89.54	-13.46	4,866.58	224.49	1,313.08	1,229.18	83.90	15.651	
16,800.00	11,723.91	15,509.37	10,444.69	71.06	90.93	-13.48	4,958.35	222.39	1,317.61	1,232.58	85.03	15.495	
16,900.00	11,723.04	15,594.00	10,439.69	72.39	92.20	-13.48	5,042.82	220.44	1,322.87	1,236.73	86.14	15.358	
17,000.00	11,722.16	15,690.00	10,433.11	73.72	93.66	-13.47	5,138.57	218.61	1,328.94	1,241.66	87.28	15.227	
17,100.00	11,721.29	15,832.59	10,425.92	75.06	95.83	-13.46	5,280.95	216.26	1,332.98	1,244.33	88.65	15.036	
17,200.00	11,720.42	15,954.49	10,422.24	76.39	97.68	-13.54	5,402.73	212.60	1,335.64	1,245.64	90.00	14.841	
17,300.00	11,719.55	16,046.31	10,420.40	77.73	99.08	-13.58	5,494.52	210.47	1,337.10	1,245.89	91.21	14.660	
17,400.00	11,718.67	16,138.88	10,417.53	79.07	100.50	-13.61	5,587.02	208.56	1,339.54	1,247.13	92.41	14.496	
17,500.00	11,717.80	16,232.15	10,414.26	80.40	101.93	-13.63	5,680.21	206.74	1,342.36	1,248.75	93.61	14.340	
17,600.00	11,716.93	16,353.75	10,410.05	81.74	103.80	-13.61	5,801.73	205.23	1,345.03	1,250.13	94.90	14.173	
17,700.00	11,716.06	16,481.50	10,408.76	83.08	105.77	-13.59	5,929.47	204.57	1,344.97	1,248.78	96.19	13.982	
17,746.87	11,715.65	16,520.75	10,408.49	83.71	106.38	-13.59	5,968.72	204.40	1,344.84	1,248.10	96.74	13.902	
17,800.00	11,715.18	16,566.19	10,407.89	84.43	107.08	-13.57	6,014.16	204.22	1,345.00	1,247.65	97.35	13.815	
17,900.00	11,714.31	16,655.84	10,406.13	85.77	108.46	-13.55	6,103.78	203.69	1,345.99	1,247.46	98.53	13.661	
18,000.00	11,713.44	16,740.00	10,404.34	87.11	109.77	-13.58	6,187.91	202.18	1,347.51	1,247.78	99.72	13.512	
18,100.00	11,712.56	16,835.00	10,401.43	88.46	111.24	-13.62	6,282.83	199.79	1,350.03	1,249.05	100.99	13.368	
18,200.00	11,711.69	16,947.28	10,397.96	89.80	112.99	-13.67	6,395.02	197.01	1,352.58	1,250.25	102.34	13.217	
18,300.00	11,710.82	17,035.85	10,395.53	91.15	114.38	-13.74	6,483.51	194.09	1,354.97	1,251.35	103.62	13.077	
18,400.00	11,709.95	17,124.71	10,392.24	92.49	115.77	-13.80	6,572.27	191.31	1,358.25	1,253.37	104.89	12.950	
18,500.00	11,709.07	17,250.84	10,389.40	93.84	117.74	-14.00	6,698.18	184.88	1,360.54	1,254.03	106.50	12.775	
18,600.00	11,708.20	17,344.09	10,388.16	95.19	119.20	-14.22	6,791.21	178.53	1,362.43	1,254.41	108.02	12.613	
18,700.00	11,707.33	17,432.12	10,386.26	96.54	120.59	-14.42	6,879.03	172.69	1,365.11	1,255.63	109.48	12.469	
18,800.00	11,706.46	17,519.83	10,383.72	97.89	121.97	-14.62	6,966.48	166.53	1,368.62	1,257.65	110.97	12.334	
18,900.00	11,705.58	17,604.96	10,380.12	99.24	123.31	-14.78	7,051.35	160.92	1,373.30	1,260.91	112.39	12.219	
19,000.00	11,704.71	17,735.93	10,376.07	100.59	125.38	-15.00	7,182.05	153.64	1,376.47	1,262.30	114.17	12.057	
19,100.00	11,703.84	17,815.90	10,373.48	101.94	126.65	-15.12	7,261.87	149.51	1,379.91	1,264.38	115.53	11.945	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee #112H - OH - OH													
Survey Program: 119-3_MWD												Offset Site Error:	0.00 usft
Rule Assigned:												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside		Between	Between	Minimum	Separation		
Depth	Depth	Depth	Depth			Toolface		Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S	(usft)	(usft)	(usft)			
							+E/-W						
							(usft)						
19,200.00	11,702.97	17,884.00	10,369.93	103.29	127.72	-15.20	7,329.78	145.95	1,385.27	1,268.53	116.75	11.866	
19,300.00	11,702.09	17,968.18	10,363.71	104.64	129.06	-15.30	7,413.61	141.42	1,392.70	1,274.63	118.07	11.796	
19,377.12	11,701.42	17,975.00	10,363.19	105.68	129.17	-15.30	7,420.40	141.05	1,400.41	1,282.00	118.41	11.827	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee #151H - OH - OH

Survey Program: 52-3_MWD		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	0.99	-0.01	0.00	0.00	-89.64	1.00	-160.00	160.00				
100.00	100.00	100.68	99.68	0.84	0.22	-89.65	0.98	-160.14	160.14	159.07	1.06	150.422	
200.00	200.00	200.99	199.99	1.48	0.57	-89.68	0.91	-160.29	160.29	158.24	2.05	78.057	
300.00	300.00	301.43	300.43	1.92	0.92	-89.76	0.68	-160.15	160.15	157.31	2.84	56.366	
400.00	400.00	401.71	400.71	2.28	1.27	-89.85	0.41	-159.78	159.79	156.24	3.55	45.010	
500.00	500.00	501.83	500.83	2.59	1.63	-89.92	0.21	-159.30	159.30	155.09	4.21	37.807	
600.00	600.00	602.03	601.02	2.87	1.98	-89.92	0.21	-158.72	158.72	153.87	4.85	32.754	
700.00	700.00	702.29	701.28	3.12	2.33	-89.78	0.61	-158.01	158.02	152.56	5.45	28.972	
800.00	800.00	802.97	801.96	3.23	2.68	-160.98	1.39	-156.97	157.29	151.38	5.91	26.597	
800.37	800.37	803.35	802.33	3.23	2.69	-160.99	1.40	-156.96	157.29	151.38	5.92	26.586	CC, ES
900.00	899.96	903.24	902.21	3.51	3.04	-161.67	2.43	-155.54	158.37	151.83	6.54	24.225	
1,000.00	999.82	1,003.14	1,002.10	3.77	3.39	-162.58	3.39	-154.17	162.01	154.86	7.15	22.662	
1,100.00	1,099.51	1,102.16	1,101.09	4.02	3.74	-163.72	4.41	-152.76	168.15	160.40	7.75	21.697	
1,200.00	1,198.96	1,199.29	1,198.22	4.27	4.08	-165.00	5.62	-152.40	177.94	169.61	8.33	21.351	
1,300.00	1,298.11	1,297.38	1,296.30	4.43	4.42	-166.23	6.59	-153.16	191.41	182.57	8.84	21.659	
1,400.00	1,397.13	1,397.04	1,395.96	4.62	4.76	-167.36	7.40	-153.87	205.76	196.38	9.38	21.942	
1,500.00	1,496.16	1,493.82	1,492.73	4.82	5.10	-168.25	7.91	-154.65	220.23	210.32	9.91	22.233	
1,600.00	1,595.19	1,588.62	1,587.50	5.01	5.42	-168.74	7.54	-156.99	236.22	225.81	10.42	22.672	
1,700.00	1,694.22	1,686.70	1,685.51	5.20	5.76	-169.03	6.68	-160.59	253.34	242.39	10.95	23.139	
1,800.00	1,793.24	1,785.77	1,784.52	5.40	6.10	-169.31	5.87	-164.06	270.31	258.82	11.49	23.535	
1,900.00	1,892.27	1,884.96	1,883.65	5.59	6.45	-169.57	5.07	-167.32	287.07	275.05	12.02	23.874	
2,000.00	1,991.30	1,990.23	1,988.87	5.79	6.82	-169.72	3.56	-169.69	302.74	290.14	12.59	24.040	
2,100.00	2,090.33	2,100.15	2,098.75	5.98	7.20	-169.71	0.65	-169.02	315.40	302.22	13.18	23.937	
2,200.00	2,189.35	2,205.08	2,203.57	6.17	7.56	-169.68	-2.72	-165.70	325.47	311.73	13.74	23.694	
2,300.00	2,288.38	2,306.88	2,305.23	6.37	7.92	-169.71	-5.83	-161.35	334.47	320.19	14.29	23.411	
2,400.00	2,387.41	2,405.38	2,403.58	6.56	8.26	-169.82	-8.43	-156.62	343.03	328.20	14.83	23.132	
2,500.00	2,486.44	2,498.86	2,496.98	6.76	8.59	-169.94	-10.52	-153.36	352.95	337.59	15.35	22.986	
2,600.00	2,585.46	2,592.22	2,590.28	6.95	8.92	-169.87	-13.56	-151.78	364.46	348.58	15.88	22.957	
2,700.00	2,684.49	2,682.91	2,680.87	7.15	9.24	-169.57	-17.74	-152.20	377.87	361.49	16.38	23.068	
2,800.00	2,783.52	2,770.67	2,768.45	7.35	9.55	-169.14	-22.43	-155.10	393.95	377.09	16.86	23.365	
2,900.00	2,882.55	2,859.22	2,856.75	7.54	9.86	-168.78	-26.54	-160.28	412.62	395.28	17.34	23.800	
3,000.00	2,981.57	2,949.21	2,946.44	7.74	10.17	-168.66	-28.89	-167.17	433.36	415.54	17.82	24.323	
3,100.00	3,080.60	3,039.55	3,036.37	7.94	10.49	-168.61	-30.57	-175.55	455.79	437.49	18.30	24.910	
3,200.00	3,179.63	3,132.97	3,129.22	8.14	10.82	-168.41	-33.30	-185.51	479.39	460.59	18.80	25.496	
3,300.00	3,278.66	3,232.36	3,227.96	8.34	11.18	-168.14	-36.87	-196.31	503.12	483.76	19.36	25.992	
3,400.00	3,377.68	3,323.59	3,318.54	8.54	11.51	-167.94	-39.85	-206.77	527.46	507.61	19.85	26.575	
3,500.00	3,476.71	3,426.23	3,420.46	8.74	11.88	-167.77	-42.93	-218.44	551.78	531.35	20.43	27.009	
3,600.00	3,575.74	3,516.26	3,509.84	8.94	12.21	-167.54	-46.45	-228.72	576.02	555.10	20.92	27.539	
3,700.00	3,674.77	3,610.94	3,603.63	9.14	12.57	-167.15	-51.79	-240.47	601.05	579.60	21.44	28.030	
3,800.00	3,773.79	3,708.55	3,700.25	9.34	12.94	-166.70	-58.18	-252.80	626.20	604.21	21.99	28.472	
3,900.00	3,872.82	3,809.79	3,800.50	9.54	13.32	-166.26	-64.90	-265.18	651.00	628.43	22.57	28.840	
4,000.00	3,971.85	3,917.91	3,907.73	9.75	13.73	-165.87	-71.68	-277.23	674.83	651.63	23.20	29.088	
4,100.00	4,070.88	4,029.90	4,019.06	9.95	14.16	-165.50	-78.90	-286.96	696.19	672.35	23.85	29.195	
4,200.00	4,169.90	4,127.34	4,115.88	10.15	14.53	-165.12	-86.30	-295.02	717.14	692.74	24.40	29.392	
4,300.00	4,268.93	4,220.67	4,208.59	10.36	14.88	-164.73	-93.91	-302.71	738.05	713.12	24.93	29.607	
4,400.00	4,367.96	4,303.79	4,291.06	10.56	15.20	-164.42	-100.37	-310.80	760.47	735.08	25.39	29.952	
4,500.00	4,466.99	4,387.25	4,373.76	10.77	15.53	-164.17	-105.99	-320.48	784.78	758.94	25.85	30.361	
4,600.00	4,566.01	4,480.45	4,466.12	10.97	15.89	-164.04	-110.48	-332.11	810.10	783.73	26.37	30.717	
4,700.00	4,665.04	4,574.76	4,559.65	11.17	16.25	-164.10	-112.52	-343.97	835.68	808.78	26.90	31.064	
4,800.00	4,764.07	4,659.60	4,643.72	11.38	16.58	-164.22	-113.16	-355.39	862.21	834.85	27.36	31.513	
4,900.00	4,863.10	4,807.10	4,790.33	11.58	17.14	-164.52	-113.14	-371.41	886.16	857.93	28.24	31.384	
5,000.00	4,962.12	4,918.83	4,901.70	11.79	17.56	-164.56	-116.12	-379.65	906.60	877.73	28.87	31.407	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee #151H - OH - OH

Survey Program: 52_3_MWD										Rule Assigned:				Offset Site Error:
														Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	5,061.15	5,004.59	4,987.05	11.99	17.88	164.39	-121.41	-386.10	927.00	897.64	29.35	31.580		
5,200.00	5,160.27	5,083.92	5,065.74	12.17	18.19	164.19	-128.01	-393.70	948.62	918.84	29.78	31.857		
5,300.00	5,259.69	5,173.25	5,154.07	12.35	18.55	163.87	-136.61	-403.91	969.60	939.31	30.29	32.009		
5,400.00	5,359.35	5,270.58	5,250.34	12.52	18.94	163.50	-145.86	-414.74	987.94	957.09	30.85	32.026		
5,500.00	5,459.20	5,363.71	5,342.33	12.68	19.32	163.09	-154.99	-426.01	1,004.79	973.42	31.36	32.036		
5,600.00	5,559.15	5,463.86	5,441.30	12.83	19.73	162.62	-164.71	-437.97	1,019.11	987.20	31.91	31.937		
5,700.00	5,659.15	5,555.65	5,532.00	12.87	20.10	-88.29	-173.47	-448.96	1,031.29	999.01	32.28	31.945		
5,800.00	5,759.15	5,636.25	5,611.53	12.92	20.44	-88.71	-180.75	-459.78	1,044.53	1,011.94	32.59	32.055		
5,900.00	5,859.15	5,717.80	5,691.83	12.98	20.78	-89.12	-187.90	-472.11	1,059.53	1,026.63	32.89	32.212		
6,000.00	5,959.15	5,814.10	5,786.50	13.03	21.19	-89.60	-196.59	-487.47	1,075.45	1,042.14	33.31	32.290		
6,100.00	6,059.15	5,904.00	5,874.82	13.08	21.57	-90.06	-205.06	-501.99	1,091.66	1,057.99	33.67	32.418		
6,200.00	6,159.15	6,000.00	5,969.08	13.14	21.99	-90.48	-213.12	-518.29	1,108.74	1,074.65	34.09	32.526		
6,300.00	6,259.15	6,116.01	6,083.19	13.19	22.48	-90.88	-221.06	-537.62	1,125.59	1,090.96	34.64	32.495		
6,400.00	6,359.15	6,241.12	6,206.81	13.25	23.00	-91.25	-228.67	-555.28	1,139.78	1,104.54	35.24	32.347		
6,500.00	6,459.15	6,349.30	6,313.91	13.30	23.45	-91.55	-234.96	-569.13	1,152.73	1,117.01	35.72	32.273		
6,600.00	6,559.15	6,451.76	6,415.41	13.36	23.87	-91.84	-241.11	-581.65	1,165.14	1,128.98	36.16	32.218		
6,700.00	6,659.15	6,552.00	6,514.73	13.41	24.28	-92.12	-247.25	-593.75	1,177.44	1,140.84	36.60	32.173		
6,800.00	6,759.15	6,648.26	6,610.09	13.47	24.67	-92.40	-253.35	-605.40	1,189.81	1,152.80	37.01	32.150		
6,900.00	6,859.15	6,750.03	6,710.93	13.52	25.09	-92.65	-259.08	-617.84	1,202.29	1,164.84	37.45	32.105		
7,000.00	6,959.15	6,905.18	6,865.16	13.58	25.69	-92.83	-263.66	-633.91	1,213.03	1,174.88	38.15	31.794		
7,100.00	7,059.15	7,054.48	7,014.24	13.64	26.24	-92.87	-264.94	-641.77	1,218.13	1,179.36	38.77	31.421		
7,200.00	7,159.15	7,153.77	7,113.46	13.69	26.59	-92.90	-265.68	-645.67	1,222.08	1,182.91	39.17	31.196		
7,300.00	7,259.15	7,289.15	7,248.79	13.75	27.05	-92.84	-264.60	-648.33	1,223.87	1,184.18	39.69	30.837		
7,400.00	7,359.15	7,392.28	7,351.89	13.81	27.38	-92.73	-262.33	-649.08	1,224.49	1,184.40	40.09	30.545		
7,500.00	7,459.15	7,491.64	7,451.23	13.87	27.70	-92.63	-260.31	-649.80	1,225.12	1,184.64	40.48	30.266		
7,600.00	7,559.15	7,591.38	7,550.95	13.93	28.03	-92.54	-258.28	-650.55	1,225.78	1,184.91	40.87	29.993		
7,700.00	7,659.15	7,709.28	7,668.82	13.98	28.41	-92.46	-256.67	-650.75	1,225.92	1,184.61	41.31	29.678		
7,800.00	7,759.15	7,812.80	7,772.34	14.04	28.74	-92.50	-257.35	-649.72	1,224.96	1,183.25	41.71	29.371		
7,900.00	7,859.15	7,915.30	7,874.82	14.10	29.07	-92.55	-258.44	-648.46	1,223.77	1,181.66	42.11	29.065		
8,000.00	7,959.15	8,015.54	7,975.05	14.16	29.39	-92.62	-259.80	-647.09	1,222.47	1,179.97	42.50	28.764		
8,100.00	8,059.15	8,114.16	8,073.65	14.22	29.71	-92.69	-261.30	-645.80	1,221.23	1,178.34	42.89	28.472		
8,200.00	8,159.15	8,215.12	8,174.60	14.28	30.03	-92.74	-262.25	-644.55	1,220.04	1,176.75	43.29	28.183		
8,300.00	8,259.15	8,318.59	8,278.06	14.34	30.36	-92.77	-262.87	-643.02	1,218.59	1,174.90	43.69	27.892		
8,400.00	8,359.15	8,416.97	8,376.42	14.40	30.68	-92.79	-263.26	-641.50	1,217.06	1,172.98	44.08	27.611		
8,500.00	8,459.15	8,513.03	8,472.48	14.46	30.98	-92.80	-263.43	-640.29	1,215.81	1,171.35	44.46	27.346		
8,600.00	8,559.15	8,610.40	8,569.84	14.52	31.29	-92.79	-263.12	-639.36	1,214.84	1,170.00	44.85	27.090		
8,700.00	8,659.15	8,710.62	8,670.05	14.58	31.62	-92.76	-262.39	-638.54	1,214.00	1,168.76	45.24	26.836		
8,800.00	8,759.15	8,811.21	8,770.64	14.65	31.94	-92.71	-261.30	-637.62	1,213.03	1,167.40	45.63	26.584		
8,900.00	8,859.15	8,911.25	8,870.66	14.71	32.26	-92.65	-259.95	-636.77	1,212.11	1,166.09	46.02	26.338		
8,982.99	8,942.14	8,982.75	8,942.14	14.76	32.50	-92.59	-258.81	-636.26	1,211.50	1,165.18	46.32	26.154		
9,000.00	8,959.15	8,994.83	8,954.23	14.77	32.54	-92.59	-258.67	-636.30	1,211.54	1,165.16	46.38	26.123		
9,100.00	9,059.15	9,071.90	9,031.29	14.83	32.80	-92.56	-258.26	-637.54	1,213.08	1,166.36	46.72	25.967		
9,200.00	9,159.15	9,168.32	9,127.68	14.89	33.13	-92.54	-257.82	-639.96	1,215.56	1,168.45	47.12	25.799		
9,300.00	9,259.15	9,266.64	9,225.95	14.96	33.48	-92.49	-256.97	-642.54	1,218.15	1,170.63	47.52	25.634		
9,400.00	9,359.15	9,378.99	9,338.25	15.02	33.87	-92.43	-255.85	-645.69	1,220.97	1,173.01	47.97	25.454		
9,500.00	9,459.15	9,497.99	9,457.25	15.08	34.27	-92.44	-256.07	-646.17	1,221.28	1,172.85	48.43	25.217		
9,600.00	9,559.15	9,594.45	9,553.72	15.15	34.60	-92.45	-256.29	-646.44	1,221.58	1,172.74	48.83	25.016		
9,700.00	9,659.15	9,693.95	9,653.21	15.21	34.94	-92.44	-256.03	-646.96	1,222.08	1,172.84	49.24	24.819		
9,800.00	9,759.15	9,791.22	9,750.47	15.28	35.27	-92.40	-255.14	-647.55	1,222.65	1,173.01	49.64	24.632		
9,900.00	9,859.15	9,906.52	9,865.77	15.34	35.66	-92.39	-254.92	-647.82	1,222.90	1,172.82	50.08	24.418		
10,000.00	9,959.15	10,003.00	9,962.23	15.40	35.99	-92.47	-256.73	-647.39	1,222.53	1,172.05	50.48	24.217		
10,023.66	9,982.81	10,023.59	9,982.81	15.42	36.06	-92.49	-257.21	-647.35	1,222.51	1,171.94	50.57	24.174		

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee #151H - OH - OH

Survey Program: 52-3_MWD		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,100.00	10,059.15	10,093.30	10,052.51	15.47	36.30	-92.57	-258.81	-647.47	1,222.72	1,171.85	50.87	24.037	
10,200.00	10,159.15	10,186.98	10,146.15	15.53	36.62	-92.68	-261.12	-648.13	1,223.53	1,172.26	51.27	23.866	
10,300.00	10,259.15	10,275.50	10,234.62	15.60	36.93	-92.80	-263.77	-649.34	1,225.04	1,173.39	51.65	23.717	
10,400.00	10,359.15	10,369.93	10,328.97	15.67	37.27	-92.95	-267.24	-651.31	1,227.31	1,175.26	52.06	23.576	
10,500.00	10,459.15	10,471.77	10,430.70	15.73	37.64	-93.14	-271.41	-653.56	1,229.74	1,177.26	52.48	23.431	
10,600.00	10,559.15	10,560.67	10,519.52	15.80	37.96	-93.29	-274.61	-655.79	1,232.45	1,179.58	52.87	23.310	
10,700.00	10,659.15	10,655.48	10,614.24	15.86	38.30	-93.40	-277.22	-658.94	1,235.93	1,182.65	53.28	23.198	
10,800.00	10,759.15	10,748.66	10,707.34	15.93	38.63	-93.43	-278.19	-662.51	1,239.82	1,186.14	53.68	23.098	
10,900.00	10,859.15	10,892.97	10,850.98	16.00	39.11	-92.92	-267.25	-666.32	1,241.96	1,187.76	54.20	22.916	
11,000.00	10,959.15	10,984.39	10,940.08	16.06	39.38	-91.99	-247.12	-668.36	1,243.26	1,188.70	54.56	22.787	
11,100.00	11,059.15	11,076.80	11,026.77	16.13	39.63	-90.52	-215.40	-670.30	1,244.77	1,189.85	54.92	22.666	
11,200.00	11,159.15	11,112.57	11,058.47	16.20	39.71	-89.77	-198.96	-672.13	1,250.20	1,195.08	55.13	22.679	
11,300.00	11,259.00	11,152.00	11,091.54	16.28	39.80	-87.59	-177.78	-675.52	1,260.85	1,205.57	55.28	22.808	
11,400.00	11,356.78	11,194.15	11,124.74	16.40	39.87	-85.28	-152.30	-680.40	1,275.77	1,220.38	55.38	23.035	
11,500.00	11,449.54	11,247.00	11,163.40	16.52	39.96	-82.70	-117.09	-687.90	1,293.66	1,238.19	55.48	23.319	
11,600.00	11,534.47	11,247.00	11,163.40	16.63	39.96	-80.58	-117.09	-687.90	1,314.65	1,259.25	55.40	23.729	
11,700.00	11,608.98	11,305.56	11,200.71	16.75	40.03	-77.98	-73.37	-698.78	1,336.09	1,280.60	55.49	24.076	
11,800.00	11,670.81	11,342.00	11,220.03	16.89	40.08	-75.58	-43.68	-707.24	1,359.67	1,304.11	55.56	24.474	
11,900.00	11,718.09	11,378.85	11,236.14	17.06	40.11	-73.32	-11.87	-716.46	1,383.36	1,327.70	55.67	24.851	
12,000.00	11,749.36	11,437.00	11,253.81	17.30	40.17	-71.34	41.50	-731.05	1,406.12	1,350.22	55.90	25.156	
12,100.00	11,763.70	11,734.51	11,274.98	17.63	40.71	-69.77	336.15	-756.35	1,412.86	1,355.97	56.90	24.831	
12,200.00	11,764.05	11,833.14	11,278.95	18.04	41.05	-69.91	434.69	-757.76	1,412.13	1,354.58	57.54	24.540	
12,300.00	11,763.18	11,941.80	11,279.07	18.54	41.48	-69.94	543.33	-757.68	1,410.91	1,352.53	58.37	24.170	
12,400.00	11,762.31	12,025.22	11,277.28	19.13	41.87	-69.88	626.73	-757.08	1,409.86	1,350.63	59.24	23.801	
12,450.40	11,761.87	12,069.54	11,276.39	19.46	42.09	-69.86	671.05	-757.20	1,409.77	1,350.04	59.73	23.601	
12,500.00	11,761.43	12,114.64	11,275.66	19.79	42.33	-69.84	716.14	-757.54	1,409.85	1,349.61	60.24	23.404	
12,600.00	11,760.56	12,212.38	11,274.22	20.52	42.88	-69.82	813.87	-758.65	1,410.31	1,348.91	61.40	22.969	
12,700.00	11,759.69	12,301.92	11,271.98	21.32	43.43	-69.77	903.37	-759.64	1,411.09	1,348.47	62.62	22.533	
12,800.00	11,758.82	12,431.37	11,269.65	22.16	44.30	-69.73	1,032.78	-761.01	1,411.68	1,347.49	64.19	21.992	
12,900.00	11,757.94	12,528.87	11,270.43	23.06	45.01	-69.79	1,130.27	-761.74	1,410.99	1,345.31	65.68	21.482	
13,000.00	11,757.07	12,625.19	11,271.90	24.01	45.75	-69.88	1,226.57	-762.96	1,410.53	1,343.28	67.25	20.973	
13,100.00	11,756.20	12,736.68	11,272.66	24.99	46.66	-69.94	1,338.05	-763.34	1,409.48	1,340.46	69.02	20.422	
13,200.00	11,755.32	12,827.11	11,272.41	26.01	47.44	-69.95	1,428.48	-763.42	1,408.55	1,337.85	70.69	19.925	
13,262.12	11,754.78	12,881.37	11,271.74	26.66	47.92	-69.94	1,482.74	-763.66	1,408.37	1,336.62	71.75	19.628	
13,300.00	11,754.45	12,918.44	11,271.08	27.06	48.26	-69.93	1,519.80	-763.90	1,408.41	1,335.97	72.44	19.443	
13,400.00	11,753.58	13,024.58	11,270.56	28.14	49.25	-69.94	1,625.94	-764.76	1,408.22	1,333.85	74.37	18.935	
13,500.00	11,752.71	13,123.71	11,272.79	29.24	50.22	-70.07	1,725.02	-766.28	1,407.78	1,331.44	76.34	18.442	
13,557.47	11,752.21	13,176.80	11,273.83	29.89	50.75	-70.13	1,778.10	-767.20	1,407.69	1,330.23	77.46	18.174	
13,600.00	11,751.83	13,213.18	11,274.20	30.36	51.12	-70.16	1,814.47	-767.84	1,407.78	1,329.51	78.27	17.987	
13,700.00	11,750.96	13,301.57	11,273.57	31.51	52.04	-70.18	1,902.84	-769.57	1,408.73	1,328.52	80.21	17.562	
13,800.00	11,750.09	13,413.00	11,272.29	32.67	53.23	-70.19	2,014.24	-771.74	1,409.86	1,327.44	82.42	17.106	
13,900.00	11,749.22	13,531.61	11,269.03	33.85	54.53	-70.08	2,132.80	-771.42	1,409.39	1,324.68	84.71	16.637	
14,000.00	11,748.34	13,629.38	11,264.67	35.04	55.63	-69.92	2,230.46	-770.08	1,408.52	1,321.68	86.83	16.221	
14,100.00	11,747.47	13,771.72	11,260.74	36.24	57.27	-69.76	2,372.71	-767.55	1,406.83	1,317.45	89.38	15.740	
14,200.00	11,746.60	13,849.00	11,260.10	37.46	58.17	-69.73	2,449.97	-765.99	1,404.07	1,312.65	91.42	15.358	
14,300.00	11,745.73	13,944.00	11,258.13	38.68	59.31	-69.66	2,544.93	-764.42	1,402.13	1,308.50	93.63	14.975	
14,400.00	11,744.85	14,029.96	11,255.80	39.92	60.35	-69.57	2,630.86	-763.61	1,401.04	1,305.26	95.78	14.628	
14,500.00	11,743.98	14,128.48	11,253.76	41.16	61.57	-69.51	2,729.36	-763.35	1,400.39	1,302.31	98.08	14.278	
14,600.00	11,743.11	14,240.27	11,251.70	42.41	62.98	-69.45	2,841.12	-762.61	1,399.30	1,298.77	100.53	13.919	
14,700.00	11,742.23	14,326.00	11,249.49	43.67	64.07	-69.37	2,926.82	-761.73	1,398.15	1,295.41	102.74	13.608	
14,800.00	11,741.36	14,421.00	11,246.82	44.93	65.29	-69.28	3,021.78	-761.62	1,397.91	1,292.85	105.06	13.306	
14,801.24	11,741.35	14,421.00	11,246.82	44.95	65.29	-69.28	3,021.78	-761.62	1,397.91	1,292.84	105.08	13.303	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee #151H - OH - OH

Survey Program: 52-3_MWD		Rule Assigned:										Offset Site Error: 0.00 usft	
Reference		Offset										Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,900.00	11,740.49	14,510.17	11,244.52	46.21	66.46	-69.22	3,110.92	-762.34	1,398.43	1,291.08	107.35	13.027	
15,000.00	11,739.62	14,612.00	11,243.32	47.48	67.81	-69.22	3,212.72	-763.68	1,398.95	1,289.14	109.81	12.740	
15,100.00	11,738.74	14,708.00	11,243.58	48.76	69.09	-69.28	3,308.70	-765.70	1,399.71	1,287.45	112.26	12.469	
15,200.00	11,737.87	14,800.07	11,245.51	50.05	70.34	-69.41	3,400.69	-768.81	1,400.99	1,286.27	114.72	12.212	
15,300.00	11,737.00	14,898.00	11,250.12	51.34	71.69	-69.68	3,498.41	-773.27	1,402.50	1,285.17	117.33	11.953	
15,400.00	11,736.13	14,995.00	11,253.20	52.64	73.03	-69.87	3,595.27	-777.32	1,404.20	1,284.28	119.92	11.709	
15,500.00	11,735.25	15,109.43	11,256.01	53.93	74.62	-70.06	3,709.58	-781.41	1,405.62	1,282.89	122.74	11.452	
15,600.00	11,734.38	15,227.18	11,258.43	55.24	76.27	-70.21	3,827.29	-783.41	1,405.34	1,279.77	125.58	11.191	
15,700.00	11,733.51	15,325.64	11,258.23	56.54	77.65	-70.23	3,925.75	-784.19	1,405.04	1,276.90	128.14	10.965	
15,800.00	11,732.64	15,428.05	11,257.28	57.85	79.10	-70.22	4,028.16	-784.49	1,404.51	1,273.77	130.74	10.742	
15,875.09	11,731.98	15,495.51	11,255.47	58.83	80.06	-70.16	4,095.58	-784.33	1,404.21	1,271.63	132.57	10.592	
15,900.00	11,731.76	15,514.98	11,254.80	59.16	80.33	-70.14	4,115.04	-784.36	1,404.26	1,271.11	133.14	10.547	
16,000.00	11,730.89	15,596.44	11,251.37	60.47	81.50	-70.04	4,196.43	-785.07	1,405.38	1,269.92	135.46	10.375	
16,100.00	11,730.02	15,701.31	11,245.05	61.79	83.02	-69.83	4,301.10	-786.21	1,407.37	1,269.36	138.02	10.197	
16,200.00	11,729.15	15,818.78	11,239.18	63.11	84.72	-69.63	4,418.43	-785.91	1,407.69	1,266.96	140.72	10.003	
16,300.00	11,728.27	15,905.74	11,234.39	64.43	85.99	-69.46	4,505.25	-785.58	1,408.16	1,265.08	143.08	9.842	
16,400.00	11,727.40	15,991.43	11,229.99	65.75	87.24	-69.32	4,590.82	-786.48	1,409.82	1,264.38	145.44	9.694	
16,500.00	11,726.53	16,096.48	11,225.45	67.08	88.79	-69.20	4,695.75	-788.49	1,412.03	1,263.97	148.06	9.537	
16,600.00	11,725.65	16,220.07	11,224.73	68.40	90.61	-69.23	4,819.31	-790.88	1,412.92	1,261.90	151.02	9.356	
16,700.00	11,724.78	16,311.33	11,225.88	69.73	91.97	-69.32	4,910.55	-792.66	1,413.19	1,259.55	153.63	9.198	
16,800.00	11,723.91	16,402.39	11,225.61	71.06	93.32	-69.36	5,001.58	-794.65	1,414.21	1,258.00	156.21	9.053	
16,900.00	11,723.04	16,533.48	11,223.70	72.39	95.28	-69.33	5,132.64	-796.12	1,414.73	1,255.50	159.23	8.885	
17,000.00	11,722.16	16,637.61	11,222.97	73.72	96.83	-69.33	5,236.77	-795.98	1,413.72	1,251.78	161.94	8.730	
17,100.00	11,721.29	16,730.56	11,223.26	75.06	98.22	-69.36	5,329.71	-796.21	1,412.73	1,248.17	164.57	8.585	
17,200.00	11,720.42	16,820.79	11,222.58	76.39	99.58	-69.36	5,419.94	-796.86	1,412.53	1,245.39	167.14	8.451	
17,229.11	11,720.16	16,853.33	11,222.43	76.78	100.07	-69.37	5,452.48	-797.16	1,412.50	1,244.54	167.97	8.409	
17,300.00	11,719.55	16,930.41	11,223.23	77.73	101.24	-69.43	5,529.55	-797.99	1,412.16	1,242.17	169.99	8.307	
17,400.00	11,718.67	17,030.91	11,225.33	79.07	102.76	-69.54	5,630.02	-799.14	1,411.39	1,238.59	172.79	8.168	
17,500.00	11,717.80	17,121.97	11,227.14	80.40	104.15	-69.65	5,721.05	-800.47	1,410.95	1,235.46	175.49	8.040	
17,506.06	11,717.75	17,127.21	11,227.17	80.49	104.23	-69.65	5,726.30	-800.54	1,410.94	1,235.30	175.64	8.033	
17,600.00	11,716.93	17,209.40	11,226.13	81.74	105.48	-69.64	5,808.46	-801.53	1,411.36	1,233.32	178.04	7.927	
17,700.00	11,716.06	17,305.63	11,222.42	83.08	106.95	-69.54	5,904.61	-802.48	1,412.51	1,231.89	180.61	7.821	
17,800.00	11,715.18	17,413.10	11,219.37	84.43	108.60	-69.46	6,012.04	-803.36	1,413.13	1,229.77	183.36	7.707	
17,900.00	11,714.31	17,552.91	11,214.94	85.77	110.74	-69.31	6,151.77	-803.17	1,413.28	1,226.90	186.39	7.582	
18,000.00	11,713.44	17,655.55	11,214.42	87.11	112.31	-69.29	6,254.39	-801.46	1,410.77	1,221.66	189.11	7.460	
18,100.00	11,712.56	17,761.21	11,215.23	88.46	113.92	-69.32	6,360.04	-800.04	1,408.12	1,216.21	191.91	7.337	
18,200.00	11,711.69	17,856.60	11,216.93	89.80	115.39	-69.39	6,455.41	-799.09	1,405.44	1,210.78	194.66	7.220	
18,300.00	11,710.82	17,949.97	11,218.69	91.15	116.83	-69.47	6,548.76	-798.66	1,403.22	1,205.80	197.41	7.108	
18,400.00	11,709.95	18,060.04	11,220.12	92.49	118.53	-69.54	6,658.82	-797.50	1,400.64	1,200.34	200.30	6.993	
18,500.00	11,709.07	18,148.64	11,218.46	93.84	119.89	-69.47	6,747.37	-795.72	1,398.29	1,195.43	202.86	6.893	
18,600.00	11,708.20	18,237.76	11,213.80	95.19	121.27	-69.27	6,836.35	-793.62	1,396.80	1,191.50	205.30	6.804	
18,700.00	11,707.33	18,346.03	11,209.70	96.54	122.95	-69.11	6,944.52	-791.60	1,395.28	1,187.32	207.96	6.709	
18,800.00	11,706.46	18,440.04	11,205.90	97.89	124.41	-68.96	7,038.42	-789.64	1,393.65	1,183.18	210.48	6.621	
18,900.00	11,705.58	18,522.81	11,202.67	99.24	125.70	-68.84	7,121.13	-788.79	1,392.98	1,180.08	212.90	6.543	
18,905.84	11,705.53	18,527.76	11,202.51	99.31	125.78	-68.83	7,126.07	-788.79	1,392.97	1,179.93	213.04	6.538	
19,000.00	11,704.71	18,611.00	11,200.89	100.59	127.08	-68.80	7,209.29	-789.65	1,393.47	1,178.01	215.45	6.468	
19,100.00	11,703.84	18,710.20	11,200.33	101.94	128.63	-68.83	7,308.47	-791.65	1,394.43	1,176.21	218.23	6.390	
19,200.00	11,702.97	18,815.67	11,199.64	103.29	130.29	-68.85	7,413.92	-793.39	1,395.08	1,174.00	221.08	6.310	
19,300.00	11,702.09	18,868.00	11,199.06	104.64	131.11	-68.85	7,466.24	-794.05	1,396.34	1,173.25	223.09	6.259	SF
19,377.12	11,701.42	18,868.00	11,199.06	105.68	131.11	-68.85	7,466.24	-794.05	1,401.44	1,177.92	223.52	6.270	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee 121H - OH - OH

Survey Program: 89-3_Gyro-NS_OWSG, 5329-3_MWD										Rule Assigned:		Offset Site Error:	0.00 usft
												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	0.00	0.00	0.00	-89.69	1.00	-185.00	185.00				
100.00	100.00	101.37	100.37	0.84	0.15	-89.70	0.97	-184.89	184.89	183.89	1.00	185.272	
200.00	200.00	201.17	200.17	1.48	0.50	-89.71	0.93	-184.71	184.72	182.74	1.98	93.197	
226.73	226.73	227.73	226.73	1.60	0.60	-89.71	0.93	-184.70	184.71	182.51	2.19	84.277	
300.00	300.00	300.89	299.89	1.92	0.85	-89.68	1.02	-184.76	184.76	182.00	2.77	66.760	
400.00	400.00	401.25	400.25	2.28	1.20	-89.53	1.52	-184.72	184.73	181.25	3.48	53.145	
500.00	500.00	501.62	500.62	2.59	1.55	-89.34	2.12	-184.48	184.49	180.36	4.14	44.581	
600.00	600.00	602.25	601.24	2.87	1.90	-89.14	2.76	-183.99	184.02	179.25	4.77	38.574	
700.00	700.00	702.55	701.54	3.12	2.26	-88.94	3.40	-183.17	183.21	177.83	5.38	34.062	
785.00	784.99	787.51	786.49	3.22	2.55	161.81	4.23	-182.44	182.95	177.18	5.77	31.723	
800.00	800.00	802.50	801.48	3.23	2.61	161.85	4.39	-182.32	182.69	176.85	5.84	31.305	CC, ES
900.00	899.96	902.13	901.10	3.51	2.96	162.48	5.61	-181.56	184.46	178.00	6.45	28.576	
1,000.00	999.82	1,001.45	1,000.41	3.77	3.30	163.30	6.82	-181.04	188.99	181.93	7.06	26.766	
1,100.00	1,099.51	1,100.54	1,099.49	4.02	3.65	164.27	7.98	-180.82	196.37	188.71	7.66	25.646	
1,200.00	1,198.96	1,198.46	1,197.40	4.27	3.99	165.45	9.61	-181.06	206.84	198.60	8.24	25.091	
1,300.00	1,298.11	1,295.83	1,294.73	4.43	4.34	166.84	11.98	-181.96	220.64	211.89	8.75	25.216	
1,400.00	1,397.13	1,394.30	1,393.16	4.62	4.68	168.18	14.46	-183.28	235.87	226.58	9.29	25.389	
1,500.00	1,496.16	1,493.80	1,492.63	4.82	5.03	169.24	16.40	-184.54	251.04	241.20	9.83	25.531	
1,600.00	1,595.19	1,593.15	1,591.96	5.01	5.38	170.16	18.24	-185.55	266.02	255.65	10.37	25.641	
1,700.00	1,694.22	1,692.34	1,691.14	5.20	5.73	171.01	20.18	-186.35	280.88	269.96	10.92	25.730	
1,800.00	1,793.24	1,791.33	1,790.10	5.40	6.07	171.78	22.12	-187.06	295.71	284.25	11.46	25.811	
1,900.00	1,892.27	1,890.46	1,889.21	5.59	6.42	172.50	24.16	-187.68	310.51	298.51	12.00	25.880	
2,000.00	1,991.30	1,990.19	1,988.91	5.79	6.77	173.18	26.33	-188.11	325.20	312.66	12.54	25.929	
2,100.00	2,090.33	2,086.99	2,085.69	5.98	7.11	173.79	28.43	-188.44	339.85	326.78	13.07	25.997	
2,200.00	2,189.35	2,184.07	2,182.74	6.17	7.45	174.30	30.43	-189.76	355.48	341.87	13.60	26.131	
2,300.00	2,288.38	2,284.26	2,282.89	6.37	7.80	174.83	32.81	-190.92	371.02	356.87	14.15	26.220	
2,400.00	2,387.41	2,383.83	2,382.42	6.56	8.15	175.38	35.46	-191.60	386.20	371.50	14.69	26.283	
2,500.00	2,486.44	2,481.42	2,479.98	6.76	8.49	175.85	37.86	-192.35	401.45	386.22	15.23	26.363	
2,600.00	2,585.46	2,581.25	2,579.78	6.95	8.84	176.25	40.11	-193.37	416.90	401.13	15.77	26.432	
2,700.00	2,684.49	2,676.72	2,675.23	7.15	9.18	176.58	42.05	-194.40	432.37	416.08	16.30	26.534	
2,800.00	2,783.52	2,770.29	2,768.76	7.35	9.50	176.68	42.79	-196.83	448.95	432.14	16.81	26.712	
2,900.00	2,882.55	2,866.07	2,864.46	7.54	9.84	176.55	41.99	-200.71	466.45	449.12	17.33	26.914	
3,000.00	2,981.57	2,959.94	2,958.17	7.74	10.17	176.20	39.58	-205.57	484.56	466.71	17.85	27.154	
3,100.00	3,080.60	3,048.76	3,046.72	7.94	10.49	175.74	36.33	-211.69	504.03	485.70	18.33	27.499	
3,200.00	3,179.63	3,135.98	3,133.53	8.14	10.81	175.28	33.29	-219.53	525.56	506.76	18.80	27.956	
3,300.00	3,278.66	3,222.00	3,218.98	8.34	11.13	174.83	30.51	-228.95	549.05	529.79	19.26	28.511	
3,400.00	3,377.68	3,310.77	3,306.99	8.54	11.47	174.42	28.17	-240.37	574.50	554.77	19.73	29.113	
3,500.00	3,476.71	3,402.90	3,398.12	8.74	11.83	173.84	24.08	-253.26	600.69	580.45	20.24	29.680	
3,600.00	3,575.74	3,492.75	3,486.76	8.94	12.19	173.21	19.17	-267.05	627.98	607.25	20.73	30.294	
3,700.00	3,674.77	3,588.00	3,580.64	9.14	12.58	172.56	13.70	-282.23	655.86	634.59	21.27	30.841	
3,800.00	3,773.79	3,686.94	3,678.19	9.34	12.98	171.94	8.00	-297.71	683.53	661.70	21.83	31.309	
3,900.00	3,872.82	3,787.88	3,777.84	9.54	13.39	171.41	2.67	-312.93	710.81	688.40	22.41	31.718	
4,000.00	3,971.85	3,888.40	3,877.23	9.75	13.79	170.96	-2.34	-327.10	737.25	714.26	22.98	32.077	
4,100.00	4,070.88	3,997.48	3,985.03	9.95	14.22	170.40	-9.24	-342.19	763.32	739.70	23.62	32.320	
4,200.00	4,169.90	4,104.39	4,090.95	10.15	14.63	169.86	-16.84	-354.61	787.08	762.85	24.23	32.482	
4,300.00	4,268.93	4,191.39	4,177.07	10.36	14.97	169.41	-23.50	-364.91	811.10	786.38	24.72	32.818	
4,400.00	4,367.96	4,275.89	4,260.62	10.56	15.30	169.04	-29.25	-376.19	836.70	811.51	25.18	33.228	
4,500.00	4,466.99	4,357.58	4,341.30	10.77	15.64	168.74	-33.92	-388.07	863.67	838.05	25.62	33.707	
4,600.00	4,566.01	4,436.70	4,419.22	10.97	15.97	168.48	-38.07	-401.19	892.65	866.60	26.04	34.275	
4,700.00	4,665.04	4,530.04	4,511.09	11.17	16.36	168.29	-41.21	-417.36	922.62	896.05	26.57	34.725	
4,800.00	4,764.07	4,641.72	4,621.26	11.38	16.82	168.24	-42.66	-435.59	951.94	924.72	27.22	34.968	
4,900.00	4,863.10	4,753.72	4,732.14	11.58	17.26	168.26	-43.22	-451.39	979.16	951.29	27.87	35.133	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee 121H - OH - OH

Survey Program: 89-3_Gyro-NS_OWSG, 5329-3_MWD										Rule Assigned:		Offset Site Error:	0.00 usft
												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,962.12	4,847.64	4,825.07	11.79	17.63	168.12	-46.52	-464.53	1,005.92	977.52	28.40	35.423	
5,100.00	5,061.15	4,946.53	4,922.72	11.99	18.03	167.84	-52.24	-479.02	1,033.05	1,004.08	28.96	35.668	
5,200.00	5,160.27	5,044.43	5,019.43	12.17	18.43	167.59	-58.73	-492.79	1,058.88	1,029.38	29.50	35.897	
5,300.00	5,259.69	5,142.10	5,115.82	12.35	18.83	167.31	-65.79	-506.89	1,082.65	1,052.59	30.06	36.015	
5,400.00	5,359.35	5,233.03	5,205.58	12.52	19.20	167.05	-72.30	-519.86	1,103.84	1,073.27	30.57	36.107	
5,500.00	5,459.20	5,330.11	5,301.25	12.68	19.49	166.71	-79.62	-534.66	1,123.47	1,092.47	31.01	36.231	
5,600.00	5,559.15	5,435.35	5,405.14	12.83	19.50	166.34	-86.97	-549.79	1,139.85	1,108.66	31.20	36.539	
5,700.00	5,659.15	5,523.00	5,491.66	12.87	19.51	166.12	-93.07	-562.38	1,154.00	1,122.78	31.22	36.966	
5,800.00	5,759.15	5,619.00	5,586.26	12.92	19.54	165.84	-100.09	-577.17	1,168.71	1,137.43	31.28	37.360	
5,900.00	5,859.15	5,686.22	5,652.34	12.98	19.56	165.10	-104.34	-588.68	1,185.13	1,153.87	31.26	37.914	
6,000.00	5,959.15	5,768.85	5,733.46	13.03	19.60	165.33	-107.75	-604.08	1,203.36	1,172.07	31.29	38.457	
6,100.00	6,059.15	5,881.36	5,843.83	13.08	19.67	165.63	-112.29	-625.41	1,222.03	1,190.59	31.44	38.865	
6,200.00	6,159.15	5,997.14	5,957.69	13.14	19.75	166.01	-118.85	-645.37	1,238.83	1,207.22	31.61	39.191	
6,300.00	6,259.15	6,125.46	6,084.29	13.19	19.85	166.38	-125.50	-665.13	1,253.87	1,222.05	31.82	39.404	
6,400.00	6,359.15	6,237.95	6,195.61	13.25	19.94	166.66	-130.80	-680.40	1,267.13	1,235.14	31.98	39.617	
6,500.00	6,459.15	6,338.19	6,294.87	13.30	20.04	166.92	-135.70	-693.52	1,279.94	1,247.82	32.12	39.849	
6,600.00	6,559.15	6,437.20	6,392.89	13.36	20.14	167.18	-140.89	-706.53	1,292.82	1,260.56	32.26	40.077	
6,700.00	6,659.15	6,534.66	6,489.34	13.41	20.25	167.45	-146.47	-719.34	1,305.71	1,273.31	32.40	40.299	
6,800.00	6,759.15	6,618.95	6,572.70	13.47	20.35	167.69	-151.33	-730.81	1,319.11	1,286.60	32.51	40.574	
6,900.00	6,859.15	6,698.81	6,651.55	13.52	20.45	167.88	-155.33	-742.88	1,334.03	1,301.42	32.61	40.906	
7,000.00	6,959.15	6,784.68	6,736.19	13.58	20.58	168.07	-159.12	-756.81	1,350.10	1,317.36	32.74	41.239	
7,100.00	7,059.15	6,882.91	6,832.90	13.64	20.72	168.29	-163.66	-773.45	1,366.90	1,333.99	32.91	41.531	
7,200.00	7,159.15	6,986.38	6,934.73	13.69	20.92	168.56	-169.57	-792.63	1,382.27	1,349.09	33.18	41.664	
7,300.00	7,259.15	7,103.11	7,050.25	13.75	21.08	168.78	-174.55	-806.98	1,397.00	1,363.64	33.36	41.878	
7,400.00	7,359.15	7,202.92	7,148.78	13.81	21.25	168.90	-179.61	-822.11	1,412.08	1,378.52	33.56	42.078	
7,500.00	7,459.15	7,303.91	7,248.51	13.87	21.43	169.23	-184.94	-837.07	1,426.83	1,393.06	33.77	42.254	
7,600.00	7,559.15	7,406.55	7,349.88	13.93	21.62	169.46	-190.58	-852.19	1,441.52	1,407.54	33.99	42.412	
7,700.00	7,659.15	7,513.06	7,455.13	13.98	21.83	169.70	-196.48	-867.41	1,455.80	1,421.57	34.23	42.533	
7,800.00	7,759.15	7,606.12	7,547.09	14.04	22.01	169.91	-201.79	-880.60	1,469.97	1,435.54	34.43	42.693	
7,900.00	7,859.15	7,705.06	7,644.82	14.10	22.22	170.14	-207.65	-894.89	1,484.44	1,449.79	34.66	42.830	
8,000.00	7,959.15	7,800.09	7,738.70	14.16	22.42	170.34	-212.90	-908.67	1,499.00	1,464.12	34.88	42.975	
8,100.00	8,059.15	7,946.35	7,883.51	14.22	22.73	170.62	-220.35	-927.80	1,512.13	1,476.87	35.26	42.891	
8,200.00	8,159.15	8,045.35	7,981.78	14.28	22.94	170.80	-225.11	-938.84	1,523.35	1,487.85	35.50	42.916	
8,300.00	8,259.15	8,130.55	8,066.25	14.34	23.13	170.93	-228.84	-949.26	1,535.63	1,499.92	35.70	43.010	
8,400.00	8,359.15	8,228.95	8,163.78	14.40	23.35	171.09	-233.26	-961.52	1,548.17	1,512.22	35.95	43.060	
8,500.00	8,459.15	8,332.90	8,266.81	14.46	23.60	171.25	-237.90	-974.55	1,560.82	1,524.60	36.22	43.088	
8,600.00	8,559.15	8,482.35	8,415.24	14.52	23.94	171.45	-243.64	-990.86	1,571.97	1,535.35	36.62	42.932	
8,700.00	8,659.15	8,577.19	8,509.61	14.58	24.15	171.57	-247.22	-999.67	1,581.35	1,544.48	36.87	42.894	
8,800.00	8,759.15	8,679.72	8,611.60	14.65	24.39	171.72	-251.51	-1,009.23	1,590.80	1,553.66	37.14	42.831	
8,900.00	8,859.15	8,795.69	8,727.07	14.71	24.66	171.88	-256.15	-1,018.91	1,599.23	1,561.78	37.45	42.700	
9,000.00	8,959.15	8,886.34	8,817.37	14.77	24.87	171.94	-258.10	-1,026.69	1,607.86	1,570.16	37.70	42.645	
9,100.00	9,059.15	8,997.25	8,927.86	14.83	25.13	171.97	-259.28	-1,036.22	1,616.51	1,578.50	38.01	42.533	
9,200.00	9,159.15	9,103.17	9,033.47	14.89	25.37	171.98	-260.09	-1,044.33	1,624.17	1,585.87	38.30	42.408	
9,300.00	9,259.15	9,201.70	9,131.68	14.96	25.61	172.02	-261.31	-1,052.05	1,632.05	1,593.47	38.58	42.305	
9,400.00	9,359.15	9,327.45	9,257.10	15.02	25.91	172.06	-262.89	-1,061.06	1,639.30	1,600.37	38.92	42.116	
9,500.00	9,459.15	9,448.00	9,377.45	15.08	26.19	172.12	-264.73	-1,067.69	1,644.84	1,605.58	39.26	41.899	
9,600.00	9,559.15	9,555.90	9,485.23	15.15	26.44	172.16	-266.00	-1,072.60	1,649.43	1,609.86	39.56	41.690	
9,700.00	9,659.15	9,687.76	9,616.99	15.21	26.74	172.17	-266.60	-1,077.31	1,653.03	1,613.11	39.92	41.408	
9,800.00	9,759.15	9,833.69	9,762.91	15.28	27.04	172.14	-265.79	-1,078.06	1,653.22	1,612.93	40.29	41.035	
9,866.73	9,825.88	9,896.67	9,825.88	15.32	27.16	172.12	-265.04	-1,078.01	1,653.14	1,612.68	40.46	40.855	
9,900.00	9,859.15	9,928.10	9,857.31	15.34	27.23	172.10	-264.63	-1,078.05	1,653.16	1,612.61	40.55	40.766	
10,000.00	9,959.15	10,022.00	9,951.20	15.40	27.42	172.06	-263.30	-1,078.36	1,653.44	1,612.62	40.82	40.503	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee 121H - OH - OH

Survey Program: 89-3_Gyro-NS_OWSG, 5329-3_MWD										Rule Assigned:		Offset Site Error:	
												Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,100.00	10,059.15	10,112.58	10,041.76	15.47	27.62	-92.01	-262.08	-1,079.08	1,654.19	1,613.10	41.09	40.255	
10,200.00	10,159.15	10,200.20	10,129.37	15.53	27.81	-91.97	-260.81	-1,080.41	1,655.65	1,614.29	41.36	40.028	
10,300.00	10,259.15	10,310.90	10,240.05	15.60	28.07	-91.95	-260.50	-1,081.97	1,657.04	1,615.35	41.69	39.749	
10,400.00	10,359.15	10,408.98	10,338.12	15.67	28.30	-91.97	-261.07	-1,083.14	1,658.26	1,616.27	41.99	39.490	
10,500.00	10,459.15	10,505.37	10,434.51	15.73	28.53	-91.99	-261.74	-1,084.38	1,659.57	1,617.28	42.30	39.238	
10,600.00	10,559.15	10,597.30	10,526.42	15.80	28.75	-92.02	-262.51	-1,086.04	1,661.39	1,618.80	42.59	39.007	
10,700.00	10,659.15	10,728.87	10,657.97	15.86	29.07	-92.07	-263.99	-1,087.80	1,662.88	1,619.91	42.97	38.697	
10,800.00	10,759.15	10,851.37	10,780.45	15.93	29.34	-92.12	-265.43	-1,086.62	1,661.90	1,618.58	43.32	38.364	
10,900.00	10,859.15	10,934.05	10,863.12	16.00	29.52	-92.17	-266.77	-1,085.87	1,661.06	1,617.47	43.59	38.108	
10,917.54	10,876.69	10,948.05	10,877.11	16.01	29.55	-92.17	-267.03	-1,085.84	1,661.03	1,617.40	43.64	38.066	
11,000.00	10,959.15	11,024.67	10,953.72	16.06	29.74	-92.23	-268.67	-1,085.93	1,661.20	1,617.32	43.88	37.856	
11,100.00	11,059.15	11,121.43	11,050.46	16.13	29.97	-92.29	-270.29	-1,086.29	1,661.64	1,617.45	44.19	37.600	
11,200.00	11,159.15	11,225.37	11,154.39	16.20	30.22	-92.28	-270.01	-1,086.78	1,662.10	1,617.58	44.52	37.333	
11,300.00	11,259.00	11,312.79	11,241.80	16.28	30.44	-91.88	-271.49	-1,087.08	1,662.67	1,617.89	44.77	37.134	
11,400.00	11,356.78	11,399.33	11,328.22	16.40	30.65	-92.20	-269.53	-1,088.70	1,665.16	1,620.18	44.98	37.020	
11,500.00	11,449.54	11,629.00	11,540.41	16.52	31.05	-92.36	-187.98	-1,086.27	1,662.84	1,617.43	45.41	36.617	
11,600.00	11,534.47	11,699.28	11,596.87	16.63	31.13	-92.44	-146.22	-1,084.12	1,659.25	1,613.75	45.49	36.471	
11,643.40	11,568.23	11,723.00	11,615.09	16.68	31.16	-92.46	-131.04	-1,084.11	1,658.94	1,613.42	45.52	36.442	
11,700.00	11,608.98	11,723.00	11,615.09	16.75	31.16	-92.36	-131.04	-1,084.11	1,660.03	1,614.54	45.49	36.493	
11,800.00	11,670.81	11,790.32	11,662.96	16.89	31.22	-92.12	-83.86	-1,086.57	1,664.12	1,618.50	45.62	36.476	
11,900.00	11,718.09	12,124.64	11,785.75	17.06	31.31	-90.89	220.31	-1,087.30	1,661.47	1,614.78	46.69	35.582	
12,000.00	11,749.36	12,199.89	11,791.42	17.30	31.37	-90.85	295.25	-1,083.99	1,655.68	1,608.53	47.15	35.112	
12,100.00	11,763.70	12,277.47	11,791.06	17.63	31.53	-90.85	372.79	-1,081.88	1,651.80	1,604.02	47.78	34.571	
12,200.00	11,764.05	12,361.38	11,791.93	18.04	31.85	-90.98	456.69	-1,080.42	1,649.21	1,600.63	48.58	33.948	
12,300.00	11,763.18	12,451.08	11,793.40	18.54	32.31	-91.06	546.37	-1,079.70	1,647.56	1,597.98	49.58	33.229	
12,400.00	11,762.31	12,548.10	11,793.82	19.13	32.90	-91.10	643.39	-1,079.07	1,646.07	1,595.29	50.78	32.415	
12,500.00	11,761.43	12,635.44	11,793.87	19.79	33.48	-91.13	730.72	-1,079.06	1,645.21	1,593.16	52.05	31.609	
12,579.90	11,760.74	12,707.00	11,794.17	20.37	34.00	-91.16	802.28	-1,079.47	1,644.99	1,591.82	53.16	30.942	
12,600.00	11,760.56	12,723.15	11,794.24	20.52	34.13	-91.17	818.43	-1,079.62	1,645.01	1,591.57	53.44	30.782	
12,700.00	11,759.69	12,803.00	11,793.72	21.32	34.76	-91.18	898.27	-1,081.05	1,645.92	1,591.05	54.87	29.996	
12,800.00	11,758.82	12,883.31	11,792.56	22.16	35.44	-91.16	978.53	-1,083.47	1,648.04	1,591.63	56.41	29.217	
12,900.00	11,757.94	12,975.78	11,791.66	23.06	36.26	-91.16	1,070.93	-1,087.00	1,650.98	1,592.83	58.15	28.393	
13,000.00	11,757.07	13,103.40	11,789.85	24.01	37.48	-91.13	1,198.47	-1,090.96	1,653.19	1,592.83	60.36	27.389	
13,100.00	11,756.20	13,183.00	11,788.22	24.99	38.27	-91.10	1,278.02	-1,093.13	1,655.07	1,592.93	62.14	26.634	
13,200.00	11,755.32	13,278.00	11,787.79	26.01	39.25	-91.11	1,372.95	-1,096.73	1,658.00	1,593.83	64.16	25.840	
13,300.00	11,754.45	13,440.52	11,785.27	27.06	41.02	-91.07	1,535.38	-1,100.44	1,659.59	1,592.52	67.06	24.747	
13,400.00	11,753.58	13,575.84	11,780.53	28.14	42.55	-90.95	1,670.60	-1,098.92	1,657.48	1,587.78	69.71	23.777	
13,500.00	11,752.71	13,687.64	11,778.27	29.24	43.85	-90.90	1,782.34	-1,096.24	1,654.20	1,582.06	72.14	22.930	
13,600.00	11,751.83	13,797.56	11,777.46	30.36	45.16	-90.91	1,892.20	-1,092.84	1,650.24	1,575.64	74.60	22.120	
13,700.00	11,750.96	13,895.50	11,778.41	31.51	46.35	-90.98	1,990.07	-1,089.42	1,645.91	1,568.94	76.97	21.384	
13,800.00	11,750.09	13,975.79	11,778.04	32.67	47.35	-90.99	2,070.33	-1,087.14	1,642.25	1,563.08	79.17	20.744	
13,900.00	11,749.22	14,040.00	11,778.15	33.85	48.15	-91.01	2,134.54	-1,086.34	1,640.24	1,559.06	81.18	20.206	
14,000.00	11,748.34	14,135.00	11,779.03	35.04	49.38	-91.07	2,229.53	-1,086.45	1,639.52	1,555.91	83.61	19.609	
14,100.00	11,747.47	14,231.13	11,779.66	36.24	50.63	-91.13	2,325.65	-1,087.07	1,639.32	1,553.23	86.09	19.041	
14,120.60	11,747.29	14,248.37	11,779.72	36.49	50.86	-91.13	2,342.90	-1,087.20	1,639.30	1,552.73	86.57	18.935	
14,200.00	11,746.60	14,314.93	11,780.47	37.46	51.75	-91.18	2,409.44	-1,088.01	1,639.61	1,551.18	88.43	18.541	
14,300.00	11,745.73	14,396.90	11,781.22	38.68	52.85	-91.23	2,491.39	-1,089.78	1,640.94	1,550.18	90.76	18.080	
14,400.00	11,744.85	14,478.82	11,780.52	39.92	53.97	-91.23	2,573.27	-1,092.49	1,643.38	1,550.28	93.10	17.652	
14,500.00	11,743.98	14,610.67	11,780.07	41.16	55.79	-91.25	2,705.03	-1,096.96	1,646.08	1,549.86	96.21	17.108	
14,600.00	11,743.11	14,702.05	11,778.87	42.41	57.06	-91.24	2,796.38	-1,098.94	1,647.37	1,548.62	98.75	16.683	
14,700.00	11,742.23	14,788.67	11,777.43	43.67	58.28	-91.21	2,882.96	-1,101.41	1,649.33	1,548.11	101.22	16.294	
14,800.00	11,741.36	14,873.37	11,775.86	44.93	59.49	-91.18	2,967.59	-1,104.57	1,652.17	1,548.48	103.68	15.935	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee 121H - OH - OH

Survey Program: 89-3_Gyro-NS_OWSG, 5329-3_MWD

Offset Site Error: 0.00 usft

Offset Well Error: 0.00 usft

Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,900.00	11,740.49	14,979.56	11,773.21	46.21	61.01	-91.12	3,073.65	-1,109.02	1,655.47	1,548.97	106.50	15.544	
15,000.00	11,739.62	15,126.21	11,769.37	47.48	63.13	-91.03	3,220.20	-1,112.16	1,656.57	1,546.62	109.95	15.066	
15,100.00	11,738.74	15,244.33	11,765.14	48.76	64.84	-90.92	3,338.25	-1,113.09	1,656.51	1,543.54	112.96	14.664	
15,200.00	11,737.87	15,366.57	11,761.18	50.05	66.62	-90.82	3,460.41	-1,112.00	1,654.68	1,538.65	116.03	14.261	
15,300.00	11,737.00	15,450.88	11,760.43	51.34	67.86	-90.82	3,544.71	-1,111.12	1,652.77	1,534.18	118.59	13.937	
15,400.00	11,736.13	15,546.90	11,759.96	52.64	69.27	-90.83	3,640.73	-1,110.84	1,651.62	1,530.30	121.31	13.615	
15,500.00	11,735.25	15,656.46	11,759.52	53.93	70.89	-90.85	3,750.28	-1,110.28	1,650.24	1,526.01	124.24	13.283	
15,600.00	11,734.38	15,763.97	11,759.98	55.24	72.49	-90.90	3,857.79	-1,109.07	1,648.27	1,521.13	127.14	12.964	
15,700.00	11,733.51	15,851.00	11,760.72	56.54	73.79	-90.95	3,944.81	-1,108.05	1,646.28	1,516.52	129.77	12.686	
15,800.00	11,732.64	15,946.00	11,762.40	57.85	75.21	-91.04	4,039.79	-1,107.58	1,644.96	1,512.45	132.51	12.414	
15,900.00	11,731.76	16,035.88	11,764.86	59.16	76.57	-91.16	4,129.64	-1,107.74	1,644.33	1,509.14	135.19	12.163	
15,938.23	11,731.43	16,066.63	11,765.79	59.66	77.03	-91.20	4,160.37	-1,107.90	1,644.24	1,508.07	136.16	12.076	
16,000.00	11,730.89	16,114.90	11,766.83	60.47	77.76	-91.25	4,208.63	-1,108.49	1,644.49	1,506.78	137.70	11.942	
16,100.00	11,730.02	16,209.57	11,767.11	61.79	79.21	-91.29	4,303.28	-1,110.36	1,645.62	1,505.15	140.47	11.715	
16,200.00	11,729.15	16,293.58	11,765.48	63.11	80.49	-91.25	4,387.24	-1,112.37	1,647.13	1,504.07	143.06	11.514	
16,300.00	11,728.27	16,377.94	11,763.45	64.43	81.79	-91.21	4,471.52	-1,115.38	1,649.79	1,504.14	145.65	11.327	
16,400.00	11,727.40	16,540.26	11,759.86	65.75	84.29	-91.13	4,633.73	-1,119.44	1,651.66	1,502.12	149.54	11.045	
16,500.00	11,726.53	16,637.59	11,757.19	67.08	85.79	-91.07	4,731.03	-1,119.64	1,650.96	1,498.59	152.37	10.835	
16,600.00	11,725.65	16,729.45	11,756.44	68.40	87.20	-91.07	4,822.88	-1,120.22	1,650.72	1,495.59	155.13	10.641	
16,700.00	11,724.78	16,828.99	11,755.92	69.73	88.74	-91.08	4,922.41	-1,121.03	1,650.66	1,492.66	158.00	10.447	
16,717.13	11,724.63	16,845.70	11,755.75	69.96	89.00	-91.08	4,939.12	-1,121.17	1,650.66	1,492.17	158.49	10.415	
16,800.00	11,723.91	16,927.31	11,754.63	71.06	90.27	-91.07	5,020.72	-1,121.93	1,650.70	1,489.84	160.86	10.262	
16,900.00	11,723.04	17,028.40	11,753.00	72.39	91.84	-91.04	5,121.79	-1,122.89	1,650.77	1,487.00	163.77	10.080	
16,973.66	11,722.39	17,102.24	11,751.39	73.37	92.99	-91.01	5,195.61	-1,123.52	1,650.74	1,484.83	165.91	9.950	
17,000.00	11,722.16	17,125.96	11,750.91	73.72	93.36	-91.00	5,219.33	-1,123.75	1,650.76	1,484.12	166.63	9.906	
17,100.00	11,721.29	17,211.39	11,749.76	75.06	94.69	-90.98	5,304.74	-1,124.92	1,651.27	1,481.97	169.30	9.753	
17,200.00	11,720.42	17,290.01	11,748.53	76.39	95.93	-90.96	5,383.32	-1,126.97	1,652.99	1,481.14	171.85	9.619	
17,300.00	11,719.55	17,381.75	11,746.83	77.73	97.37	-90.93	5,474.99	-1,130.32	1,655.73	1,481.12	174.61	9.482	
17,400.00	11,718.67	17,532.75	11,746.02	79.07	99.74	-90.95	5,625.96	-1,132.27	1,655.73	1,477.35	178.38	9.282	
17,500.00	11,717.80	17,654.05	11,745.92	80.40	101.64	-90.98	5,747.25	-1,132.56	1,655.16	1,473.56	181.60	9.114	
17,600.00	11,716.93	17,758.57	11,743.88	81.74	103.28	-90.94	5,851.75	-1,131.71	1,653.46	1,468.88	184.58	8.958	
17,700.00	11,716.06	17,861.82	11,740.80	83.08	104.91	-90.87	5,954.95	-1,130.53	1,651.42	1,463.87	187.55	8.805	
17,800.00	11,715.18	17,945.00	11,739.09	84.43	106.22	-90.83	6,038.11	-1,130.28	1,650.17	1,459.93	190.24	8.674	
17,900.00	11,714.31	18,051.17	11,736.48	85.77	107.89	-90.78	6,144.25	-1,130.26	1,649.28	1,456.02	193.26	8.534	
18,000.00	11,713.44	18,151.09	11,735.33	87.11	109.47	-90.77	6,244.14	-1,129.66	1,647.81	1,451.62	196.19	8.399	
18,100.00	11,712.56	18,230.00	11,735.78	88.46	110.72	-90.81	6,323.06	-1,129.72	1,647.04	1,448.24	198.80	8.285	
18,164.98	11,712.00	18,293.78	11,736.05	89.33	111.73	-90.84	6,386.83	-1,130.20	1,646.98	1,446.29	200.69	8.207	
18,200.00	11,711.69	18,325.00	11,736.04	89.80	112.23	-90.85	6,418.05	-1,130.48	1,647.00	1,445.34	201.66	8.167	
18,300.00	11,710.82	18,421.00	11,735.59	91.15	113.75	-90.86	6,514.04	-1,131.70	1,647.40	1,442.87	204.53	8.055	
18,400.00	11,709.95	18,495.16	11,735.49	92.49	114.93	-90.88	6,588.18	-1,133.35	1,648.74	1,441.71	207.03	7.964	
18,500.00	11,709.07	18,580.36	11,736.09	93.84	116.29	-90.92	6,673.33	-1,136.26	1,651.30	1,441.60	209.70	7.875	
18,600.00	11,708.20	18,748.65	11,736.29	95.19	118.98	-90.98	6,841.56	-1,139.87	1,652.88	1,439.09	213.78	7.732	
18,700.00	11,707.33	18,872.71	11,736.39	96.54	120.95	-91.02	6,965.61	-1,138.03	1,650.44	1,433.40	217.04	7.604	
18,800.00	11,706.46	18,967.04	11,736.52	97.89	122.44	-91.06	7,059.92	-1,136.45	1,647.92	1,428.00	219.91	7.494	
18,900.00	11,705.58	19,061.13	11,737.20	99.24	123.94	-91.11	7,154.00	-1,135.25	1,645.80	1,423.02	222.78	7.388	
19,000.00	11,704.71	19,152.68	11,738.33	100.59	125.40	-91.18	7,245.55	-1,134.42	1,644.08	1,418.47	225.61	7.287	
19,100.00	11,703.84	19,246.30	11,739.62	101.94	126.89	-91.25	7,339.16	-1,134.06	1,642.87	1,414.40	228.46	7.191	
19,200.00	11,702.97	19,347.17	11,740.48	103.29	128.51	-91.31	7,440.02	-1,133.87	1,641.84	1,410.42	231.42	7.095	
19,265.90	11,702.39	19,395.00	11,740.72	104.18	129.27	-91.34	7,487.85	-1,133.74	1,641.22	1,408.12	233.10	7.041	
19,300.00	11,702.09	19,395.00	11,740.72	104.64	129.27	-91.34	7,487.85	-1,133.74	1,641.57	1,408.05	233.52	7.030	
19,377.12	11,701.42	19,395.00	11,740.72	105.68	129.27	-91.34	7,487.85	-1,133.74	1,644.98	1,410.87	234.11	7.026	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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee 25H - OH - OH

Survey Program: 100-3_Gyro-NS_OWSG, 11718-3_MWD							Rule Assigned:				Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
17,200.00	11,720.42	11,784.02	11,760.11	76.39	40.38	99.36	7,455.75	855.06	2,046.90	1,985.24	61.65	33.200			
17,300.00	11,719.55	11,780.94	11,757.02	77.73	40.38	98.86	7,455.80	855.13	1,948.46	1,886.39	62.07	31.389			
17,400.00	11,718.67	11,777.94	11,754.03	79.07	40.38	98.38	7,455.85	855.20	1,850.19	1,787.63	62.56	29.575			
17,500.00	11,717.80	11,775.03	11,751.12	80.40	40.38	97.90	7,455.89	855.27	1,752.12	1,688.99	63.13	27.756			
17,600.00	11,716.93	11,772.20	11,748.29	81.74	40.38	97.45	7,455.93	855.33	1,654.27	1,590.48	63.79	25.933			
17,700.00	11,716.06	11,769.45	11,745.54	83.08	40.38	97.00	7,455.97	855.40	1,556.68	1,492.11	64.58	24.106			
17,800.00	11,715.18	11,766.77	11,742.86	84.43	40.38	96.56	7,456.01	855.46	1,459.43	1,393.91	65.51	22.277			
17,900.00	11,714.31	11,764.16	11,740.25	85.77	40.38	96.14	7,456.05	855.52	1,362.56	1,295.92	66.64	20.447			
18,000.00	11,713.44	11,761.61	11,737.71	87.11	40.38	95.72	7,456.08	855.58	1,266.18	1,198.18	68.00	18.620			
18,100.00	11,712.56	11,759.14	11,735.23	88.46	40.38	95.32	7,456.11	855.64	1,170.40	1,100.74	69.66	16.802			
18,200.00	11,711.69	11,756.73	11,732.82	89.80	40.38	94.92	7,456.14	855.70	1,075.38	1,003.68	71.70	14.999			
18,300.00	11,710.82	11,754.37	11,730.47	91.15	40.38	94.54	7,456.17	855.76	981.35	907.12	74.23	13.220			
18,400.00	11,709.95	11,752.08	11,728.18	92.49	40.38	94.16	7,456.20	855.81	888.61	811.22	77.40	11.482			
18,500.00	11,709.07	11,749.84	11,725.94	93.84	40.38	93.80	7,456.23	855.87	797.63	716.24	81.39	9.800			
18,600.00	11,708.20	11,747.66	11,723.76	95.19	40.38	93.44	7,456.25	855.92	709.08	622.61	86.47	8.200			
18,700.00	11,707.33	11,745.53	11,721.63	96.54	40.38	93.09	7,456.28	855.97	623.99	531.02	92.96	6.712			
18,800.00	11,706.46	11,743.45	11,719.55	97.89	40.38	92.75	7,456.30	856.02	543.98	442.75	101.23	5.374			
18,900.00	11,705.58	11,741.41	11,717.51	99.24	40.38	92.41	7,456.33	856.07	471.66	360.15	111.52	4.230			
19,000.00	11,704.71	11,739.43	11,715.53	100.59	40.38	92.09	7,456.35	856.12	411.11	287.62	123.49	3.329			
19,100.00	11,703.84	11,737.49	11,713.59	101.94	40.38	91.77	7,456.37	856.17	368.16	232.89	135.27	2.722			
19,200.00	11,702.97	11,735.59	11,711.69	103.29	40.38	91.46	7,456.39	856.21	349.38	206.37	143.01	2.443			
19,217.39	11,702.81	11,735.27	11,711.37	103.52	40.38	91.40	7,456.39	856.22	348.95	205.31	143.64	2.429	CC, ES, SF		
19,300.00	11,702.09	11,733.74	11,709.84	104.64	40.38	91.15	7,456.41	856.26	358.59	215.23	143.36	2.501			
19,377.12	11,701.42	11,732.33	11,708.44	105.68	40.38	90.92	7,456.42	856.29	383.76	244.75	139.01	2.761			

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee 28H - OH - OH

Survey Program: 100-3_Gyro-NS_OWSG, 11723-3_MWD+IFR1+MS							Rule Assigned:					Offset Site Error:	
Reference							Offset Well Error:					0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,400.00	11,356.78	19,901.00	12,576.22	16.40	71.43	-99.63	-118.60	-1,072.69	2,049.80	1,961.53	88.27	23.223	
11,500.00	11,449.54	19,901.00	12,576.22	16.52	71.43	-106.03	-118.60	-1,072.69	1,994.95	1,906.55	88.40	22.567	
11,600.00	11,534.47	19,885.49	12,576.17	16.63	71.33	-110.71	-103.09	-1,072.84	1,947.85	1,859.47	88.39	22.038	
11,700.00	11,608.98	19,811.94	12,575.97	16.75	70.87	-113.00	-29.55	-1,073.51	1,908.98	1,821.04	87.94	21.709	
11,800.00	11,670.81	19,732.83	12,576.38	16.89	70.37	-114.58	49.56	-1,073.31	1,877.84	1,790.35	87.49	21.464	
11,900.00	11,718.09	19,645.40	12,578.68	17.06	69.83	-115.60	136.96	-1,072.56	1,855.23	1,768.18	87.05	21.311	
12,000.00	11,749.36	19,552.67	12,579.15	17.30	69.26	-116.14	229.68	-1,072.46	1,840.33	1,753.66	86.67	21.234	
12,100.00	11,763.70	19,465.12	12,580.35	17.63	68.72	-116.41	317.22	-1,072.72	1,833.99	1,747.58	86.41	21.224	
12,174.55	11,766.11	19,379.32	12,581.70	17.93	68.19	-116.42	403.02	-1,072.93	1,833.04	1,746.90	86.15	21.278	
12,200.00	11,764.05	19,337.62	12,581.76	18.04	67.93	-116.49	444.71	-1,072.90	1,833.76	1,747.77	85.98	21.327	
12,300.00	11,763.18	19,222.62	12,578.89	18.54	67.23	-116.45	559.67	-1,072.97	1,832.28	1,746.57	85.71	21.377	
12,400.00	11,762.31	19,125.10	12,572.94	19.13	66.64	-116.30	656.99	-1,074.60	1,830.68	1,745.06	85.62	21.382	
12,500.00	11,761.43	19,037.05	12,567.01	19.79	66.10	-116.13	744.81	-1,076.73	1,829.48	1,743.84	85.64	21.362	
12,526.66	11,761.20	19,026.00	12,566.44	19.98	66.03	-116.12	755.84	-1,076.96	1,829.32	1,743.59	85.73	21.338	
12,600.00	11,760.56	18,984.69	12,564.51	20.52	65.78	-116.06	797.09	-1,078.31	1,829.81	1,743.91	85.90	21.301	
12,700.00	11,759.69	18,932.00	12,562.52	21.32	65.47	-115.98	849.64	-1,081.48	1,833.02	1,746.85	86.17	21.273	
12,800.00	11,758.82	18,844.93	12,560.52	22.16	64.94	-115.87	936.48	-1,087.57	1,837.87	1,751.55	86.32	21.291	
12,900.00	11,757.94	18,671.35	12,555.07	23.06	63.91	-115.68	1,109.78	-1,095.24	1,839.48	1,753.28	86.20	21.341	
13,000.00	11,757.07	18,547.59	12,550.57	24.01	63.18	-115.55	1,233.41	-1,098.53	1,839.91	1,753.60	86.31	21.317	
13,035.04	11,756.76	18,517.09	12,549.32	24.35	63.00	-115.52	1,263.87	-1,099.23	1,839.86	1,753.44	86.42	21.290	
13,100.00	11,756.20	18,460.00	12,547.37	24.99	62.66	-115.47	1,320.92	-1,100.56	1,840.01	1,753.39	86.62	21.242	
13,200.00	11,755.32	18,397.00	12,546.48	26.01	62.30	-115.44	1,383.88	-1,102.28	1,841.46	1,754.40	87.05	21.153	
13,300.00	11,754.45	18,253.42	12,547.66	27.06	61.47	-115.49	1,527.42	-1,105.22	1,843.48	1,756.26	87.21	21.138	
13,400.00	11,753.58	18,152.41	12,544.37	28.14	60.89	-115.40	1,628.35	-1,107.36	1,843.59	1,756.02	87.57	21.053	
13,500.00	11,752.71	17,999.09	12,540.33	29.24	60.02	-115.33	1,781.60	-1,108.35	1,842.87	1,755.13	87.74	21.003	
13,600.00	11,751.83	17,886.73	12,538.19	30.36	59.39	-115.35	1,893.90	-1,105.70	1,839.50	1,751.40	88.10	20.879	
13,700.00	11,750.96	17,785.54	12,535.94	31.51	58.83	-115.35	1,995.03	-1,103.16	1,835.87	1,747.33	88.54	20.736	
13,800.00	11,750.09	17,704.00	12,533.35	32.67	58.38	-115.33	2,076.52	-1,101.81	1,832.62	1,743.55	89.08	20.574	
13,900.00	11,749.22	17,609.00	12,529.98	33.85	57.86	-115.28	2,171.46	-1,101.17	1,830.09	1,740.51	89.58	20.429	
14,000.00	11,748.34	17,510.87	12,526.19	35.04	57.33	-115.21	2,269.51	-1,101.03	1,827.90	1,737.80	90.10	20.288	
14,100.00	11,747.47	17,411.80	12,522.74	36.24	56.79	-115.15	2,368.52	-1,100.69	1,825.69	1,735.06	90.63	20.145	
14,200.00	11,746.60	17,315.16	12,519.32	37.46	56.28	-115.09	2,465.11	-1,100.52	1,823.61	1,732.43	91.18	20.000	
14,300.00	11,745.73	17,217.27	12,517.35	38.68	55.76	-115.08	2,562.97	-1,099.69	1,821.57	1,729.83	91.74	19.856	
14,400.00	11,744.85	17,138.97	12,515.73	39.92	55.35	-115.06	2,641.25	-1,099.66	1,820.25	1,727.88	92.38	19.705	
14,500.00	11,743.98	16,993.93	12,511.56	41.16	54.61	-115.01	2,786.22	-1,098.43	1,817.63	1,724.81	92.82	19.582	
14,600.00	11,743.11	16,893.18	12,509.60	42.41	54.10	-115.02	2,886.92	-1,096.33	1,814.51	1,721.09	93.41	19.425	
14,700.00	11,742.23	16,806.78	12,506.39	43.67	53.66	-114.97	2,973.25	-1,095.30	1,811.47	1,717.39	94.08	19.255	
14,800.00	11,741.36	16,733.02	12,502.28	44.93	53.29	-114.87	3,046.89	-1,096.12	1,809.71	1,714.91	94.80	19.090	
14,863.29	11,740.81	16,688.02	12,500.71	45.74	53.07	-114.83	3,091.86	-1,096.81	1,809.39	1,714.14	95.26	18.995	
14,900.00	11,740.49	16,665.44	12,500.40	46.21	52.96	-114.83	3,114.43	-1,097.10	1,809.49	1,713.97	95.52	18.944	
15,000.00	11,739.62	16,547.18	12,499.72	47.48	52.38	-114.84	3,232.69	-1,098.22	1,809.66	1,713.54	96.12	18.827	
15,100.00	11,738.74	16,450.34	12,499.66	48.76	51.92	-114.87	3,329.52	-1,098.61	1,809.59	1,712.81	96.78	18.699	
15,200.00	11,737.87	16,349.92	12,498.92	50.05	51.44	-114.88	3,429.93	-1,099.12	1,809.31	1,711.87	97.44	18.568	
15,205.67	11,737.82	16,345.63	12,498.84	50.12	51.42	-114.87	3,434.22	-1,099.18	1,809.31	1,711.83	97.48	18.560	
15,300.00	11,737.00	16,271.21	12,496.82	51.34	51.07	-114.82	3,508.59	-1,100.99	1,809.90	1,711.73	98.18	18.435	
15,400.00	11,736.13	16,153.84	12,491.78	52.64	50.53	-114.67	3,625.80	-1,104.53	1,810.40	1,711.51	98.89	18.308	
15,500.00	11,735.25	16,055.99	12,485.77	53.93	50.08	-114.49	3,723.40	-1,107.88	1,810.54	1,710.88	99.66	18.168	
15,600.00	11,734.38	15,940.82	12,480.27	55.24	49.57	-114.33	3,838.39	-1,111.24	1,810.85	1,710.44	100.40	18.036	
15,700.00	11,733.51	15,820.39	12,478.27	56.54	49.05	-114.32	3,958.80	-1,110.91	1,809.43	1,708.33	101.10	17.897	
15,800.00	11,732.64	15,704.13	12,476.56	57.85	48.55	-114.33	4,075.04	-1,109.70	1,807.47	1,705.65	101.81	17.753	
15,900.00	11,731.76	15,542.80	12,476.51	59.16	47.89	-114.50	4,236.13	-1,101.35	1,801.77	1,699.42	102.34	17.605	
16,000.00	11,730.89	15,465.52	12,477.66	60.47	47.58	-114.62	4,313.24	-1,096.53	1,796.31	1,693.18	103.13	17.417	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee 28H - OH - OH

Survey Program: 100-3_Gyro-NS_OWSG, 11723-3_MWD+IFR1+MS										Rule Assigned:		Offset Site Error:	0.00 usft
Reference										Offset Well Error:		0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
16,100.00	11,730.02	15,402.34	12,477.98	61.79	47.33	-114.69	4,376.37	-1,093.97	1,792.48	1,688.51	103.97	17.240	
16,200.00	11,729.15	15,331.00	12,478.50	63.11	47.05	-114.74	4,447.71	-1,093.31	1,791.27	1,686.48	104.79	17.095	
16,219.19	11,728.98	15,331.00	12,478.50	63.36	47.05	-114.74	4,447.71	-1,093.31	1,791.16	1,686.20	104.96	17.065	
16,300.00	11,728.27	15,261.41	12,477.84	64.43	46.79	-114.73	4,517.28	-1,094.48	1,791.68	1,686.06	105.62	16.964	
16,400.00	11,727.40	15,171.82	12,475.82	65.75	46.45	-114.67	4,606.81	-1,096.62	1,792.51	1,686.05	106.45	16.839	
16,500.00	11,726.53	15,088.24	12,477.46	67.08	46.14	-114.74	4,690.36	-1,097.78	1,794.16	1,686.91	107.24	16.730	
16,600.00	11,725.85	15,001.76	12,477.33	68.40	45.83	-114.73	4,776.79	-1,100.68	1,796.71	1,688.64	108.07	16.625	
16,700.00	11,724.78	14,914.80	12,476.67	69.73	45.52	-114.69	4,863.66	-1,104.44	1,799.90	1,690.98	108.92	16.525	
16,800.00	11,723.91	14,834.13	12,475.88	71.06	45.24	-114.64	4,944.21	-1,108.79	1,803.98	1,694.21	109.77	16.434	
16,900.00	11,723.04	14,764.00	12,475.86	72.39	45.00	-114.61	5,014.20	-1,113.22	1,809.34	1,698.75	110.60	16.360	
17,000.00	11,722.16	14,688.19	12,475.31	73.72	44.75	-114.53	5,089.75	-1,119.49	1,816.18	1,704.73	111.44	16.297	
17,100.00	11,721.29	14,397.21	12,447.50	75.06	43.85	-113.58	5,378.42	-1,139.44	1,817.20	1,704.20	113.00	16.081	
17,200.00	11,720.42	14,270.95	12,433.96	76.39	43.49	-113.22	5,503.93	-1,140.67	1,813.29	1,699.20	114.09	15.894	
17,300.00	11,719.55	14,199.00	12,428.57	77.73	43.29	-113.09	5,575.68	-1,140.60	1,809.81	1,694.69	115.12	15.721	
17,400.00	11,718.67	14,115.96	12,424.24	79.07	43.07	-112.99	5,658.60	-1,140.82	1,807.56	1,691.43	116.13	15.565	
17,500.00	11,717.80	13,976.22	12,421.02	80.40	42.72	-112.97	5,798.27	-1,138.61	1,804.75	1,687.64	117.10	15.411	
17,600.00	11,716.93	13,856.18	12,417.96	81.74	42.44	-112.98	5,918.20	-1,134.74	1,800.34	1,682.26	118.08	15.247	
17,700.00	11,716.06	13,769.57	12,414.60	83.08	42.25	-112.94	6,004.69	-1,131.90	1,795.38	1,676.27	119.11	15.073	
17,800.00	11,715.18	13,692.98	12,417.34	84.43	42.09	-113.10	6,081.13	-1,128.19	1,791.83	1,671.79	120.05	14.926	
17,900.00	11,714.31	13,608.11	12,419.46	85.77	41.92	-113.23	6,165.92	-1,125.37	1,789.29	1,668.30	121.00	14.788	
18,000.00	11,713.44	13,514.81	12,420.05	87.11	41.74	-113.30	6,259.20	-1,123.76	1,787.50	1,665.51	121.99	14.653	
18,100.00	11,712.56	13,427.40	12,419.84	88.46	41.59	-113.34	6,346.60	-1,122.54	1,785.72	1,662.72	123.01	14.517	
18,143.32	11,712.19	13,402.86	12,419.38	89.04	41.55	-113.33	6,371.14	-1,122.72	1,785.50	1,662.06	123.44	14.464	
18,200.00	11,711.69	13,358.00	12,417.81	89.80	41.47	-113.29	6,415.95	-1,124.09	1,785.97	1,661.92	124.05	14.397	
18,300.00	11,710.82	13,251.48	12,413.31	91.15	41.30	-113.15	6,522.31	-1,127.75	1,787.04	1,661.81	125.23	14.270	
18,400.00	11,709.95	13,076.00	12,407.03	92.49	41.06	-113.02	6,697.60	-1,128.48	1,785.81	1,659.29	126.52	14.115	
18,500.00	11,709.07	12,981.00	12,408.01	93.84	40.95	-113.13	6,792.50	-1,124.53	1,781.93	1,654.36	127.57	13.969	
18,600.00	11,708.20	12,194.00	12,143.66	95.19	40.59	-105.66	7,449.64	-1,065.51	1,748.49	1,619.67	128.82	13.573	
18,700.00	11,707.33	12,175.04	12,127.18	96.54	40.58	-105.09	7,458.96	-1,066.64	1,715.11	1,583.74	131.37	13.056	
18,800.00	11,706.46	12,163.00	12,116.64	97.89	40.58	-104.73	7,464.68	-1,067.62	1,686.47	1,552.71	133.76	12.608	
18,900.00	11,705.58	12,132.00	12,089.19	99.24	40.57	-103.77	7,478.62	-1,071.21	1,662.92	1,526.78	136.14	12.215	
19,000.00	11,704.71	12,132.00	12,089.19	100.59	40.57	-103.77	7,478.62	-1,071.21	1,644.59	1,506.54	138.05	11.913	
19,100.00	11,703.84	12,115.84	12,074.78	101.94	40.57	-103.25	7,485.49	-1,073.72	1,631.91	1,492.05	139.86	11.669	
19,200.00	11,702.97	12,100.00	12,060.66	103.29	40.56	-102.75	7,492.06	-1,076.62	1,625.01	1,483.63	141.38	11.494	
19,266.82	11,702.38	12,100.00	12,060.66	104.19	40.56	-102.75	7,492.06	-1,076.62	1,623.64	1,481.55	142.08	11.427	CC, ES
19,300.00	11,702.09	12,100.00	12,060.66	104.64	40.56	-102.75	7,492.06	-1,076.62	1,623.98	1,481.60	142.37	11.407	
19,377.12	11,701.42	12,082.33	12,044.94	105.68	40.56	-102.18	7,499.23	-1,080.31	1,627.06	1,483.89	143.17	11.365	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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee 601H - OH - OH

Survey Program: 100-3_Gyro-NS_OWSG, 11491-3_MWD+IFR1+MS							Rule Assigned:					Offset Site Error:	
Reference							Offset Well Error:					0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,500.00	10,459.15	19,560.75	12,433.12	15.73	70.46	-63.58	-76.96	318.30	1,994.51	1,909.88	84.63	23.568	
10,600.00	10,559.15	19,566.79	12,433.49	15.80	70.50	-64.69	-82.98	318.12	1,895.59	1,810.59	85.00	22.302	
10,700.00	10,659.15	19,572.82	12,433.85	15.86	70.54	-65.82	-89.01	317.94	1,796.76	1,711.39	85.37	21.047	
10,800.00	10,759.15	19,578.86	12,434.21	15.93	70.57	-66.96	-95.03	317.76	1,698.05	1,612.30	85.74	19.804	
10,900.00	10,859.15	19,582.00	12,434.40	16.00	70.59	-67.56	-98.16	317.66	1,599.48	1,513.39	86.09	18.579	
11,000.00	10,959.15	19,582.00	12,434.40	16.06	70.59	-67.56	-98.16	317.66	1,501.09	1,414.69	86.40	17.374	
11,100.00	11,059.15	19,582.00	12,434.40	16.13	70.59	-67.56	-98.16	317.66	1,402.94	1,316.23	86.71	16.180	
11,200.00	11,159.15	19,582.00	12,434.40	16.20	70.59	-67.56	-98.16	317.66	1,305.06	1,218.05	87.01	14.999	
11,300.00	11,259.00	19,582.00	12,434.40	16.28	70.59	-97.75	-98.16	317.66	1,207.33	1,120.00	87.33	13.824	
11,400.00	11,356.78	19,582.00	12,434.40	16.40	70.59	-132.05	-98.16	317.66	1,110.64	1,022.89	87.76	12.656	
11,500.00	11,449.54	19,559.37	12,433.04	16.52	70.45	-146.24	-75.58	318.34	1,018.26	930.28	87.98	11.574	
11,600.00	11,534.47	19,512.07	12,430.18	16.63	70.16	-152.46	-28.39	319.75	932.88	844.92	87.96	10.606	
11,700.00	11,608.98	19,440.30	12,425.47	16.75	69.71	-155.46	43.20	321.90	856.67	769.00	87.68	9.771	
11,800.00	11,670.81	19,372.98	12,420.56	16.89	69.29	-157.44	110.30	323.96	791.58	704.05	87.53	9.043	
11,900.00	11,718.09	19,314.00	12,417.51	17.06	68.92	-158.79	169.17	325.79	741.62	654.07	87.55	8.471	
12,000.00	11,749.36	19,247.20	12,416.64	17.30	68.51	-159.54	235.93	327.88	709.90	622.46	87.44	8.119	
12,100.00	11,763.70	19,145.56	12,418.78	17.63	67.88	-159.92	337.51	330.32	697.32	610.38	86.93	8.021	
12,198.53	11,766.11	19,045.15	12,418.08	18.03	67.26	-159.93	437.91	330.19	694.14	607.78	86.37	8.037	
12,200.00	11,764.05	19,043.69	12,418.06	18.04	67.25	-159.99	439.37	330.17	696.07	609.71	86.36	8.060	
12,300.00	11,763.18	18,967.44	12,418.53	18.54	66.78	-159.99	515.61	329.20	697.66	611.66	86.01	8.112	
12,400.00	11,762.31	18,856.96	12,422.40	19.13	66.11	-160.20	626.02	329.12	701.62	616.23	85.39	8.216	
12,500.00	11,761.43	18,763.09	12,424.18	19.79	65.54	-160.40	719.87	329.97	703.66	618.75	84.91	8.287	
12,600.00	11,760.56	18,657.18	12,426.77	20.52	64.90	-160.61	825.74	330.65	706.29	621.93	84.36	8.372	
12,700.00	11,759.69	18,515.66	12,424.00	21.32	64.05	-160.63	967.20	330.12	704.98	621.44	83.54	8.439	
12,800.00	11,758.82	18,429.60	12,419.39	22.16	63.53	-160.52	1,053.13	329.38	700.94	617.72	83.22	8.423	
12,829.22	11,758.56	18,413.38	12,419.06	22.43	63.43	-160.51	1,069.35	329.17	700.67	617.49	83.18	8.423	
12,900.00	11,757.94	18,354.72	12,419.95	23.06	63.08	-160.50	1,127.97	327.95	702.33	619.38	82.94	8.468	
13,000.00	11,757.07	18,220.73	12,417.02	24.01	62.29	-160.02	1,261.66	321.24	702.77	620.45	82.32	8.537	
13,100.00	11,756.20	18,090.97	12,405.74	24.99	61.52	-159.01	1,390.50	310.79	698.02	616.26	81.77	8.537	
13,200.00	11,755.32	18,004.56	12,396.71	26.01	61.02	-158.34	1,476.19	304.51	691.44	609.84	81.60	8.474	
13,300.00	11,754.45	17,928.29	12,391.94	27.06	60.57	-158.00	1,552.23	301.15	687.79	606.34	81.45	8.444	
13,400.00	11,753.58	17,828.69	12,390.18	28.14	60.00	-157.98	1,651.80	300.32	686.95	605.83	81.12	8.468	
13,500.00	11,752.71	17,704.46	12,384.30	29.24	59.29	-157.83	1,775.88	299.26	683.35	602.67	80.68	8.469	
13,600.00	11,751.83	17,611.94	12,378.88	30.36	58.77	-157.74	1,868.24	299.19	678.44	598.00	80.45	8.433	
13,700.00	11,750.96	17,512.88	12,374.15	31.51	58.21	-157.72	1,967.19	299.61	674.34	594.16	80.18	8.411	
13,800.00	11,750.09	17,413.00	12,368.71	32.67	57.66	-157.67	2,066.92	300.03	669.62	589.70	79.92	8.379	
13,900.00	11,749.22	17,323.33	12,364.54	33.85	57.16	-157.68	2,156.49	300.71	665.59	585.88	79.71	8.350	
14,000.00	11,748.34	17,213.42	12,360.50	35.04	56.56	-157.77	2,266.31	302.19	662.14	582.74	79.41	8.339	
14,100.00	11,747.47	17,128.00	12,356.95	36.24	56.10	-157.76	2,351.65	302.51	658.70	579.47	79.23	8.314	
14,200.00	11,746.60	17,034.00	12,355.10	37.46	55.59	-157.74	2,445.62	301.80	657.63	578.60	79.04	8.321	
14,206.21	11,746.54	17,034.00	12,355.10	37.53	55.59	-157.74	2,445.62	301.80	657.60	578.57	79.03	8.321	
14,300.00	11,745.73	16,954.76	12,355.60	38.68	55.17	-157.75	2,524.85	300.79	658.99	580.14	78.85	8.358	
14,400.00	11,744.85	16,852.81	12,356.74	39.92	54.64	-157.74	2,626.78	298.89	661.21	582.55	78.66	8.406	
14,500.00	11,743.98	16,751.78	12,356.93	41.16	54.11	-157.61	2,727.77	296.02	662.94	584.42	78.52	8.443	
14,600.00	11,743.11	16,613.88	12,351.16	42.41	53.40	-157.17	2,865.43	291.15	660.55	582.06	78.48	8.416	
14,700.00	11,742.23	16,518.06	12,345.77	43.67	52.91	-156.87	2,961.06	288.60	656.87	578.41	78.46	8.372	
14,800.00	11,741.36	16,425.80	12,341.56	44.93	52.44	-156.65	3,053.21	286.52	654.03	575.61	78.43	8.339	
14,900.00	11,740.49	16,330.30	12,338.66	46.21	51.97	-156.48	3,148.64	284.41	652.57	574.17	78.40	8.324	
15,000.00	11,739.62	16,221.96	12,334.48	47.48	51.44	-156.22	3,256.86	281.63	650.51	572.08	78.42	8.295	
15,100.00	11,738.74	16,111.39	12,329.07	48.76	50.90	-156.02	3,367.28	280.21	647.01	568.57	78.44	8.249	
15,200.00	11,737.87	16,010.90	12,323.07	50.05	50.42	-155.82	3,467.59	279.21	642.40	563.92	78.48	8.186	
15,300.00	11,737.00	15,902.84	12,317.08	51.34	49.92	-155.78	3,575.48	279.98	637.51	559.04	78.46	8.125	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee 601H - OH - OH

Survey Program: 100-3_Gyro-NS_OWSG, 11491-3_MWD+IFR1+MS										Rule Assigned:		Offset Site Error:	0.00 usft
Reference										Distance		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	11,736.13	15,810.86	12,312.85	52.64	49.50	-155.99	3,667.28	283.27	632.29	553.95	78.34	8.071	
15,500.00	11,735.25	15,710.47	12,310.58	53.93	49.05	-156.58	3,767.40	290.17	627.89	549.88	78.02	8.048	
15,600.00	11,734.38	15,621.11	12,308.25	55.24	48.66	-156.93	3,856.64	294.21	624.17	546.37	77.80	8.022	
15,700.00	11,733.51	15,531.71	12,306.35	56.54	48.27	-157.05	3,946.00	295.27	622.21	544.50	77.71	8.007	
15,738.34	11,733.17	15,500.33	12,305.74	57.04	48.13	-157.02	3,977.38	294.77	621.96	544.25	77.71	8.004	
15,800.00	11,732.64	15,453.85	12,305.45	57.85	47.93	-156.92	4,023.82	293.19	622.71	545.01	77.70	8.014	
15,900.00	11,731.76	15,344.56	12,305.00	59.16	47.46	-156.46	4,132.90	286.56	625.27	547.24	78.03	8.013	
16,000.00	11,730.89	15,186.82	12,291.28	60.47	46.81	-155.40	4,289.73	278.15	618.93	540.05	78.88	7.847	
16,100.00	11,730.02	15,098.60	12,282.91	61.79	46.46	-155.02	4,377.53	276.37	611.58	532.39	79.19	7.723	
16,200.00	11,729.15	15,010.18	12,276.83	63.11	46.11	-154.78	4,465.73	275.33	606.26	526.85	79.42	7.634	
16,300.00	11,728.27	14,917.03	12,272.87	64.43	45.75	-154.80	4,558.79	276.17	602.45	522.95	79.50	7.578	
16,400.00	11,727.40	14,821.37	12,269.74	65.75	45.39	-154.87	4,654.39	277.29	599.40	519.84	79.56	7.534	
16,500.00	11,726.53	14,721.53	12,267.29	67.08	45.03	-154.98	4,754.19	278.42	597.13	517.51	79.62	7.499	
16,600.00	11,725.65	14,626.83	12,263.41	68.40	44.69	-154.87	4,848.81	277.75	594.19	514.35	79.83	7.443	
16,641.61	11,725.29	14,595.44	12,262.92	68.95	44.58	-154.88	4,880.20	277.65	593.83	513.99	79.83	7.438	
16,700.00	11,724.78	14,529.62	12,263.00	69.73	44.36	-154.97	4,946.01	277.87	594.13	514.22	79.91	7.435	
16,800.00	11,723.91	14,405.32	12,256.45	71.06	43.94	-154.86	5,070.13	278.01	589.46	509.13	80.33	7.338	
16,900.00	11,723.04	14,323.22	12,253.09	72.39	43.68	-154.99	5,152.12	280.05	585.21	504.89	80.33	7.285	
16,958.37	11,722.53	14,278.32	12,253.50	73.17	43.54	-155.28	5,196.94	282.54	584.57	504.45	80.11	7.297	
17,000.00	11,722.16	14,241.45	12,254.40	73.72	43.42	-155.53	5,233.75	284.50	584.74	504.78	79.96	7.313	
17,100.00	11,721.29	14,151.49	12,256.67	75.06	43.15	-155.91	5,323.65	286.63	586.50	506.73	79.77	7.352	
17,200.00	11,720.42	14,064.30	12,258.67	76.39	42.89	-155.94	5,410.79	284.88	589.90	510.04	79.86	7.387	
17,300.00	11,719.55	13,980.35	12,262.57	77.73	42.66	-155.86	5,494.57	281.26	596.28	516.29	79.98	7.455	
17,400.00	11,718.67	13,869.22	12,266.68	79.07	42.35	-155.45	5,605.33	273.28	603.08	522.34	80.75	7.469	
17,500.00	11,717.80	13,759.73	12,266.83	80.40	42.07	-154.78	5,714.42	264.01	607.15	525.39	81.76	7.426	
17,600.00	11,716.93	13,648.10	12,267.74	81.74	41.79	-154.38	5,825.84	257.41	610.92	528.32	82.59	7.397	
17,700.00	11,716.06	13,512.90	12,264.80	83.08	41.48	-154.22	5,960.97	255.21	610.05	526.61	83.44	7.311	
17,800.00	11,715.18	13,407.44	12,260.23	84.43	41.26	-154.29	6,066.31	256.93	605.85	522.06	83.79	7.230	
17,900.00	11,714.31	13,305.75	12,255.78	85.77	41.05	-154.46	6,167.87	259.74	601.11	517.08	84.04	7.153	
18,000.00	11,713.44	13,204.88	12,252.43	87.11	40.86	-154.93	6,268.52	265.46	596.10	512.12	83.98	7.098	
18,100.00	11,712.56	13,105.94	12,249.29	88.46	40.69	-155.43	6,367.23	271.34	591.14	507.26	83.88	7.047	
18,200.00	11,711.69	13,007.01	12,245.50	89.80	40.54	-155.75	6,466.00	275.43	586.38	502.41	83.97	6.983	
18,300.00	11,710.82	12,912.81	12,241.74	91.15	40.40	-155.96	6,560.09	278.26	581.96	497.82	84.14	6.917	
18,400.00	11,709.95	12,828.63	12,239.79	92.49	40.28	-156.16	6,644.21	280.21	579.39	495.20	84.19	6.882	
18,424.96	11,709.73	12,809.31	12,239.68	92.83	40.26	-156.19	6,663.53	280.40	579.27	495.07	84.20	6.880	
18,500.00	11,709.07	12,746.72	12,240.24	93.84	40.18	-156.26	6,726.12	280.16	580.30	496.00	84.30	6.884	
18,600.00	11,708.20	12,632.29	12,240.93	95.19	40.06	-156.29	6,840.53	278.71	581.90	496.92	84.98	6.847	
18,700.00	11,707.33	12,288.18	12,143.18	96.54	39.87	-150.65	7,166.42	263.65	552.01	459.59	92.42	5.973	
18,800.00	11,706.46	11,961.93	11,914.00	97.89	39.75	-130.17	7,393.74	258.32	484.73	384.62	100.11	4.842	
18,900.00	11,705.58	11,882.63	11,843.93	99.24	39.73	-119.50	7,430.81	258.48	411.63	303.62	108.01	3.811	
19,000.00	11,704.71	11,829.55	11,795.19	100.59	39.72	-110.34	7,451.83	258.17	343.32	224.39	118.93	2.887	
19,100.00	11,703.84	11,787.63	11,755.98	101.94	39.71	-102.04	7,466.62	257.37	287.80	155.80	132.00	2.180	
19,200.00	11,702.97	11,753.27	11,723.24	103.29	39.71	-94.70	7,476.95	256.31	255.37	113.14	142.23	1.796	Collision Risk Procedures Req.
19,246.75	11,702.56	11,739.80	11,710.25	103.92	39.70	-91.75	7,480.52	255.87	251.39	107.95	143.43	1.753	Collision Risk Procedures Req., CC, E
19,300.00	11,702.09	11,727.29	11,698.09	104.64	39.70	-88.99	7,483.42	255.49	256.63	115.58	141.05	1.819	Collision Risk Procedures Req.
19,377.12	11,701.42	11,713.00	11,684.08	105.68	39.70	-85.82	7,486.18	255.10	281.67	149.57	132.09	2.132	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee 602H - OH - OH

Survey Program: 100-3_Gyro-NS_OWSG, 11478-3_MWD+IFR1+MS							Rule Assigned:					Offset Site Error:	
Reference							Offset Well Error:					0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,500.00	10,459.15	19,497.00	12,315.83	15.73	70.79	-83.18	-106.15	-243.59	2,031.09	1,946.03	85.05	23.880	
10,600.00	10,559.15	19,497.00	12,315.83	15.80	70.79	-83.18	-106.15	-243.59	1,940.10	1,854.74	85.35	22.730	
10,700.00	10,659.15	19,497.00	12,315.83	15.86	70.79	-83.18	-106.15	-243.59	1,850.04	1,764.38	85.65	21.599	
10,800.00	10,759.15	19,497.00	12,315.83	15.93	70.79	-83.18	-106.15	-243.59	1,761.05	1,675.10	85.95	20.490	
10,900.00	10,859.15	19,497.00	12,315.83	16.00	70.79	-83.18	-106.15	-243.59	1,673.31	1,587.08	86.23	19.404	
11,000.00	10,959.15	19,497.00	12,315.83	16.06	70.79	-83.18	-106.15	-243.59	1,587.02	1,500.50	86.51	18.344	
11,100.00	11,059.15	19,497.00	12,315.83	16.13	70.79	-83.18	-106.15	-243.59	1,502.43	1,415.65	86.78	17.313	
11,200.00	11,159.15	19,497.00	12,315.83	16.20	70.79	-83.18	-106.15	-243.59	1,419.84	1,332.81	87.03	16.314	
11,300.00	11,259.00	19,497.00	12,315.83	16.28	70.79	-91.68	-106.15	-243.59	1,339.45	1,252.18	87.27	15.348	
11,400.00	11,356.78	19,497.00	12,315.83	16.40	70.79	-103.70	-106.15	-243.59	1,262.27	1,174.71	87.56	14.416	
11,500.00	11,449.54	19,497.00	12,315.83	16.52	70.79	-113.25	-106.15	-243.59	1,191.38	1,103.52	87.86	13.560	
11,600.00	11,534.47	19,480.59	12,316.02	16.63	70.69	-119.49	-89.74	-243.41	1,130.20	1,042.24	87.97	12.848	
11,700.00	11,608.98	19,415.21	12,316.75	16.75	70.28	-122.09	-24.36	-242.71	1,079.53	991.90	87.63	12.320	
11,800.00	11,670.81	19,338.77	12,317.22	16.89	69.80	-123.46	52.07	-242.50	1,039.64	952.42	87.21	11.920	
11,900.00	11,718.09	19,243.33	12,316.89	17.06	69.20	-123.84	147.51	-242.82	1,010.38	923.68	86.70	11.653	
12,000.00	11,749.36	19,110.33	12,315.45	17.30	68.38	-123.67	280.46	-240.19	989.42	903.45	85.96	11.510	
12,100.00	11,763.70	19,011.64	12,313.69	17.63	67.77	-124.16	379.05	-236.12	976.22	890.59	85.62	11.402	
12,200.00	11,764.05	18,928.00	12,311.64	18.04	67.25	-124.35	462.62	-233.51	971.42	885.96	85.45	11.368	
12,300.00	11,763.18	18,848.64	12,309.30	18.54	66.76	-124.30	541.95	-233.14	969.22	883.87	85.35	11.355	
12,333.16	11,762.89	18,823.20	12,308.47	18.73	66.61	-124.26	567.37	-233.66	969.10	883.77	85.33	11.357	
12,400.00	11,762.31	18,767.89	12,307.40	19.13	66.27	-124.21	622.65	-234.94	969.50	884.23	85.27	11.370	
12,500.00	11,761.43	18,660.16	12,307.19	19.79	65.61	-124.21	730.35	-236.98	970.76	885.67	85.09	11.408	
12,600.00	11,760.56	18,556.75	12,306.24	20.52	64.98	-124.20	833.76	-237.95	970.78	885.79	84.99	11.422	
12,700.00	11,759.69	18,440.73	12,303.00	21.32	64.28	-124.08	949.72	-239.23	969.88	884.99	84.89	11.425	
12,800.00	11,758.82	18,344.20	12,298.77	22.16	63.70	-123.90	1,046.15	-240.63	968.40	883.47	84.93	11.403	
12,900.00	11,757.94	18,253.16	12,293.92	23.06	63.16	-123.64	1,137.02	-243.35	967.68	882.65	85.04	11.380	
13,000.00	11,757.07	18,149.76	12,287.43	24.01	62.54	-123.26	1,240.14	-247.35	967.21	882.06	85.15	11.359	
13,100.00	11,756.20	18,044.40	12,281.08	24.99	61.92	-122.91	1,345.25	-250.76	966.38	881.08	85.30	11.329	
13,200.00	11,755.32	17,939.11	12,277.04	26.01	61.30	-122.75	1,450.45	-251.65	964.74	879.26	85.48	11.286	
13,300.00	11,754.45	17,839.17	12,272.59	27.06	60.72	-122.56	1,550.28	-252.92	963.15	877.43	85.72	11.236	
13,400.00	11,753.58	17,732.32	12,267.77	28.14	60.10	-122.37	1,657.02	-253.74	961.11	875.14	85.98	11.179	
13,500.00	11,752.71	17,638.72	12,263.76	29.24	59.57	-122.23	1,750.53	-253.93	958.74	872.45	86.30	11.110	
13,600.00	11,751.83	17,550.29	12,263.87	30.36	59.07	-122.33	1,838.95	-253.05	957.69	871.07	86.62	11.057	
13,653.49	11,751.37	17,502.00	12,264.03	30.98	58.80	-122.37	1,887.24	-252.92	957.52	870.72	86.79	11.032	
13,700.00	11,750.96	17,466.58	12,264.15	31.51	58.60	-122.40	1,922.66	-253.18	957.77	870.81	86.96	11.015	
13,800.00	11,750.09	17,385.77	12,264.93	32.67	58.14	-122.43	2,003.43	-255.31	960.19	872.89	87.30	10.999	
13,900.00	11,749.22	17,281.25	12,266.33	33.85	57.56	-122.47	2,107.90	-258.31	963.06	875.40	87.66	10.987	
14,000.00	11,748.34	17,172.58	12,265.87	35.04	56.96	-122.41	2,216.50	-262.10	965.53	877.47	88.05	10.965	
14,100.00	11,747.47	17,046.59	12,260.41	36.24	56.27	-122.08	2,342.29	-266.73	966.08	877.56	88.52	10.914	
14,200.00	11,746.60	16,941.58	12,254.78	37.46	55.70	-121.80	2,447.12	-268.95	964.75	875.74	89.01	10.839	
14,300.00	11,745.73	16,842.65	12,249.88	38.68	55.17	-121.57	2,545.91	-270.73	963.39	873.87	89.52	10.762	
14,400.00	11,744.85	16,750.41	12,245.94	39.92	54.69	-121.38	2,638.04	-272.48	962.50	872.45	90.04	10.689	
14,457.02	11,744.36	16,697.93	12,243.93	40.63	54.41	-121.27	2,690.47	-273.74	962.36	872.01	90.35	10.651	
14,500.00	11,743.98	16,658.37	12,242.31	41.16	54.20	-121.18	2,729.98	-274.93	962.44	871.85	90.59	10.624	
14,600.00	11,743.11	16,563.68	12,238.67	42.41	53.71	-120.97	2,824.55	-277.96	962.90	871.75	91.15	10.564	
14,700.00	11,742.23	16,420.06	12,236.33	43.67	52.98	-120.98	2,968.10	-277.09	961.12	869.47	91.64	10.488	
14,800.00	11,741.36	16,321.63	12,236.20	44.93	52.49	-121.17	3,066.45	-272.89	957.11	864.99	92.12	10.390	
14,900.00	11,740.49	16,226.90	12,234.85	46.21	52.02	-121.23	3,161.14	-271.11	954.44	861.79	92.65	10.301	
15,000.00	11,739.62	16,116.78	12,228.26	47.48	51.48	-120.98	3,271.06	-270.66	950.67	857.38	93.29	10.191	
15,100.00	11,738.74	16,022.78	12,222.01	48.76	51.02	-120.73	3,364.85	-270.62	946.93	852.96	93.96	10.077	
15,200.00	11,737.87	15,941.39	12,216.55	50.05	50.63	-120.47	3,446.05	-271.67	944.37	849.71	94.66	9.976	
15,249.13	11,737.44	15,904.99	12,214.94	50.68	50.46	-120.39	3,482.40	-272.46	944.04	849.05	94.98	9.939	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee 602H - OH - OH

Survey Program: 100-3_Gyro-NS_OWSG, 11478-3_MWD+IFR1+MS										Rule Assigned:		Offset Site Error:	
Reference										Distance		Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,300.00	11,737.00	15,856.12	12,213.43	51.34	50.23	-120.30	3,531.23	-273.73	944.22	848.90	95.32	9.905	
15,400.00	11,736.13	15,752.23	12,209.21	52.64	49.74	-120.08	3,635.01	-276.29	943.99	847.95	96.04	9.830	
15,427.73	11,735.88	15,726.28	12,207.99	53.00	49.62	-120.01	3,660.92	-277.06	943.96	847.72	96.24	9.809	
15,500.00	11,735.25	15,658.52	12,204.54	53.93	49.31	-119.80	3,728.54	-279.49	944.14	847.36	96.77	9.756	
15,600.00	11,734.38	15,563.14	12,199.18	55.24	48.88	-119.46	3,823.67	-283.76	944.93	847.37	97.56	9.686	
15,700.00	11,733.51	15,467.20	12,193.63	56.54	48.45	-119.10	3,919.34	-288.52	946.10	847.73	98.37	9.618	
15,800.00	11,732.64	15,359.21	12,187.02	57.85	47.98	-118.65	4,026.97	-294.32	947.54	848.28	99.26	9.546	
15,900.00	11,731.76	15,224.57	12,179.87	59.16	47.41	-118.29	4,161.38	-297.07	946.49	846.33	100.16	9.450	
16,000.00	11,730.89	15,102.70	12,173.73	60.47	46.91	-118.12	4,283.06	-294.65	941.94	840.99	100.95	9.331	
16,100.00	11,730.02	14,992.70	12,175.04	61.79	46.47	-118.47	4,392.80	-287.60	936.54	835.04	101.50	9.227	
16,200.00	11,729.15	14,878.17	12,173.88	63.11	46.03	-118.75	4,506.97	-278.76	928.87	826.80	102.07	9.100	
16,300.00	11,728.27	14,809.38	12,175.86	64.43	45.76	-119.10	4,575.43	-272.40	922.05	819.35	102.70	8.978	
16,400.00	11,727.40	14,751.00	12,176.31	65.75	45.54	-119.21	4,633.78	-271.07	919.93	816.58	103.36	8.901	
16,400.74	11,727.39	14,751.00	12,176.31	65.76	45.54	-119.21	4,633.78	-271.07	919.93	816.57	103.36	8.900	
16,500.00	11,726.53	14,657.47	12,175.09	67.08	45.20	-119.16	4,727.28	-272.80	920.56	816.43	104.13	8.841	
16,600.00	11,725.65	14,580.61	12,175.93	68.40	44.92	-119.22	4,804.12	-274.27	922.43	817.65	104.78	8.803	
16,700.00	11,724.78	14,461.66	12,175.89	69.73	44.50	-119.18	4,922.87	-278.24	925.07	819.40	105.67	8.754	
16,800.00	11,723.91	14,354.35	12,167.91	71.06	44.13	-118.66	5,029.74	-283.93	925.79	818.99	106.80	8.669	
16,900.00	11,723.04	14,251.46	12,159.36	72.39	43.79	-118.12	5,132.15	-289.02	925.84	817.90	107.94	8.577	
17,000.00	11,722.16	14,158.99	12,152.04	73.72	43.49	-117.65	5,224.20	-293.77	926.32	817.29	109.02	8.496	
17,100.00	11,721.29	14,062.17	12,149.34	75.06	43.19	-117.48	5,320.91	-296.99	927.61	817.64	109.97	8.435	
17,200.00	11,720.42	13,945.04	12,148.02	76.39	42.85	-117.44	5,438.02	-298.76	928.08	817.14	110.94	8.366	
17,300.00	11,719.55	13,809.90	12,143.62	77.73	42.47	-117.31	5,573.08	-298.12	925.85	813.86	111.99	8.268	
17,400.00	11,718.67	13,707.74	12,140.02	79.07	42.19	-117.28	5,675.12	-295.10	921.24	808.31	112.92	8.158	
17,500.00	11,717.80	13,607.64	12,138.92	80.40	41.94	-117.41	5,775.13	-290.88	916.61	802.84	113.77	8.057	
17,600.00	11,716.93	13,506.12	12,138.16	81.74	41.70	-117.57	5,876.55	-286.39	911.98	797.37	114.61	7.957	
17,700.00	11,716.06	13,393.31	12,136.10	83.08	41.44	-117.71	5,989.17	-280.49	906.08	790.60	115.48	7.846	
17,800.00	11,715.18	13,303.20	12,133.17	84.43	41.25	-117.73	6,079.15	-276.58	900.37	783.94	116.43	7.733	
17,900.00	11,714.31	13,216.09	12,130.15	85.77	41.07	-117.70	6,166.18	-274.06	895.85	778.44	117.41	7.630	
18,000.00	11,713.44	13,136.00	12,128.35	87.11	40.91	-117.69	6,246.23	-272.94	893.21	774.87	118.34	7.548	
18,039.14	11,713.10	13,110.36	12,128.31	87.64	40.87	-117.71	6,271.87	-272.85	892.90	774.25	118.65	7.525	
18,100.00	11,712.56	13,071.01	12,129.48	88.46	40.80	-117.81	6,311.20	-272.92	893.64	774.58	119.06	7.506	
18,200.00	11,711.69	12,989.06	12,134.12	89.80	40.65	-118.08	6,392.99	-274.48	897.51	777.79	119.72	7.497	
18,300.00	11,710.82	12,902.99	12,134.48	91.15	40.51	-118.02	6,478.92	-279.40	902.44	781.78	120.66	7.479	
18,400.00	11,709.95	12,817.29	12,138.89	92.49	40.38	-118.19	6,564.36	-284.29	909.50	788.09	121.41	7.491	
18,500.00	11,709.07	12,701.67	12,145.25	93.84	40.23	-118.44	6,679.63	-290.51	916.55	794.09	122.46	7.485	
18,600.00	11,708.20	12,548.65	12,143.89	95.19	40.05	-118.28	6,832.44	-297.05	919.58	795.46	124.12	7.409	
18,700.00	11,707.33	12,280.27	12,080.44	96.54	39.85	-114.66	7,091.42	-305.37	911.76	784.04	127.72	7.139	
18,800.00	11,706.46	12,117.00	11,995.11	97.89	39.79	-109.60	7,230.24	-306.40	888.40	756.99	131.41	6.761	
18,900.00	11,705.58	11,948.75	11,881.30	99.24	39.72	-102.28	7,353.65	-308.29	864.94	729.71	135.23	6.396	
19,000.00	11,704.71	11,858.35	11,807.94	100.59	39.70	-97.33	7,406.31	-307.24	840.47	701.92	138.56	6.066	
19,100.00	11,703.84	11,818.85	11,773.85	101.94	39.69	-94.97	7,426.27	-307.69	824.07	682.91	141.16	5.838	
19,200.00	11,702.97	11,775.45	11,735.69	103.29	39.68	-92.31	7,446.89	-308.80	817.07	674.25	142.82	5.721	
19,222.71	11,702.77	11,764.79	11,726.19	103.59	39.68	-91.64	7,451.71	-309.12	816.83	673.78	143.05	5.710	CC, ES, SF
19,300.00	11,702.09	11,720.58	11,685.89	104.64	39.67	-88.83	7,469.86	-310.16	819.66	676.28	143.38	5.717	
19,377.12	11,701.42	11,673.70	11,642.17	105.68	39.66	-85.78	7,486.78	-310.08	827.91	684.99	142.92	5.793	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee 603H - OH - OH

Survey Program: 100-3_Gyro-NS_OWSG, 11565-3_MWD+IFR1+MS										Rule Assigned:		Offset Site Error:	
Reference										Offset Well Error:		0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,000.00	10,959.15	19,681.00	12,456.78	16.06	71.17	-86.38	-115.43	-827.61	2,053.11	1,965.65	87.46	23.475	
11,100.00	11,059.15	19,681.00	12,456.78	16.13	71.17	-86.38	-115.43	-827.61	1,981.34	1,893.68	87.67	22.601	
11,200.00	11,159.15	19,681.00	12,456.78	16.20	71.17	-86.38	-115.43	-827.61	1,912.12	1,824.26	87.85	21.765	
11,300.00	11,259.00	19,681.00	12,456.78	16.28	71.17	-91.83	-115.43	-827.61	1,845.60	1,757.60	88.01	20.971	
11,400.00	11,356.78	19,663.92	12,457.04	16.40	71.07	-99.24	-98.39	-826.41	1,782.63	1,694.62	88.01	20.255	
11,500.00	11,449.54	19,622.48	12,457.68	16.52	70.81	-104.71	-57.06	-823.50	1,724.88	1,637.08	87.80	19.646	
11,600.00	11,534.47	19,553.95	12,458.05	16.63	70.38	-108.36	11.29	-818.62	1,673.29	1,585.93	87.36	19.154	
11,700.00	11,608.98	19,485.58	12,456.32	16.75	69.96	-111.22	79.51	-814.52	1,628.57	1,541.62	86.95	18.729	
11,800.00	11,670.81	19,428.41	12,454.96	16.89	69.60	-113.61	136.59	-811.52	1,592.17	1,505.46	86.71	18.362	
11,900.00	11,718.09	19,360.26	12,453.86	17.06	69.18	-115.13	204.66	-808.60	1,564.75	1,478.32	86.44	18.103	
12,000.00	11,749.36	19,267.36	12,450.52	17.30	68.61	-115.82	297.49	-806.65	1,546.23	1,460.17	86.06	17.968	
12,100.00	11,763.70	19,165.57	12,448.06	17.63	67.98	-116.34	399.17	-802.93	1,534.70	1,448.98	85.72	17.904	
12,200.00	11,764.05	19,088.27	12,448.03	18.04	67.50	-116.58	476.41	-799.93	1,530.30	1,444.67	85.64	17.869	
12,300.00	11,763.18	19,028.00	12,447.43	18.54	67.13	-116.60	536.67	-799.02	1,528.31	1,442.60	85.71	17.831	
12,400.00	11,762.31	18,934.00	12,445.50	19.13	66.56	-116.56	630.64	-800.02	1,527.97	1,442.34	85.63	17.844	
12,400.16	11,762.30	18,934.00	12,445.50	19.13	66.56	-116.56	630.64	-800.02	1,527.97	1,442.34	85.63	17.844	
12,500.00	11,761.43	18,854.25	12,442.25	19.79	66.07	-116.44	710.27	-802.88	1,528.90	1,443.22	85.68	17.845	
12,600.00	11,760.56	18,703.21	12,427.95	20.52	65.15	-115.91	860.45	-809.64	1,528.23	1,442.81	85.42	17.890	
12,700.00	11,759.69	18,599.14	12,416.00	21.32	64.52	-115.49	963.76	-813.47	1,526.15	1,440.67	85.48	17.854	
12,800.00	11,758.82	18,510.27	12,406.57	22.16	63.99	-115.16	1,052.08	-816.32	1,524.11	1,438.44	85.67	17.790	
12,900.00	11,757.94	18,418.24	12,398.38	23.06	63.44	-114.87	1,143.68	-819.70	1,523.23	1,437.34	85.89	17.734	
13,000.00	11,757.07	18,316.13	12,389.64	24.01	62.83	-114.56	1,245.36	-822.89	1,522.06	1,435.95	86.12	17.674	
13,100.00	11,756.20	18,220.03	12,385.43	24.99	62.26	-114.44	1,341.34	-824.42	1,521.26	1,434.86	86.41	17.606	
13,200.00	11,755.32	18,113.42	12,384.27	26.01	61.64	-114.45	1,447.95	-824.39	1,520.36	1,433.67	86.69	17.538	
13,300.00	11,754.45	18,022.61	12,381.37	27.06	61.11	-114.38	1,538.71	-825.04	1,519.29	1,432.22	87.07	17.450	
13,344.54	11,754.06	17,987.00	12,380.39	27.54	60.91	-114.35	1,574.30	-825.52	1,519.13	1,431.87	87.26	17.409	
13,400.00	11,753.58	17,944.81	12,378.93	28.14	60.66	-114.30	1,616.45	-826.56	1,519.35	1,431.84	87.51	17.362	
13,500.00	11,752.71	17,867.61	12,374.79	29.24	60.22	-114.14	1,693.45	-830.25	1,521.06	1,433.09	87.98	17.290	
13,600.00	11,751.83	17,773.52	12,375.83	30.36	59.68	-114.17	1,787.46	-833.13	1,523.86	1,435.46	88.40	17.238	
13,700.00	11,750.96	17,661.52	12,376.18	31.51	59.05	-114.18	1,899.41	-836.09	1,525.92	1,437.11	88.82	17.181	
13,800.00	11,750.09	17,569.50	12,374.81	32.67	58.53	-114.13	1,991.35	-839.41	1,528.18	1,438.88	89.30	17.113	
13,900.00	11,749.22	17,467.60	12,374.95	33.85	57.96	-114.12	2,093.20	-842.75	1,530.79	1,441.01	89.78	17.050	
14,000.00	11,748.34	17,340.28	12,376.17	35.04	57.26	-114.18	2,220.49	-845.08	1,532.45	1,442.23	90.22	16.986	
14,100.00	11,747.47	17,208.12	12,374.86	36.24	56.54	-114.18	2,352.63	-845.88	1,532.22	1,441.56	90.66	16.901	
14,200.00	11,746.60	17,058.18	12,372.29	37.46	55.74	-114.22	2,502.49	-841.98	1,528.51	1,437.48	91.03	16.791	
14,300.00	11,745.73	16,951.47	12,367.55	38.68	55.17	-114.15	2,609.03	-838.71	1,523.46	1,431.88	91.58	16.636	
14,400.00	11,744.85	16,851.08	12,360.35	39.92	54.65	-113.98	2,709.14	-836.70	1,518.27	1,426.08	92.19	16.469	
14,500.00	11,743.98	16,678.08	12,350.97	41.16	53.76	-113.90	2,881.48	-825.66	1,509.19	1,416.72	92.46	16.322	
14,600.00	11,743.11	16,596.57	12,349.62	42.41	53.35	-114.01	2,962.62	-818.08	1,499.59	1,406.45	93.15	16.099	
14,700.00	11,742.23	16,517.84	12,348.28	43.67	52.96	-114.09	3,041.11	-812.03	1,491.44	1,397.59	93.85	15.892	
14,800.00	11,741.36	16,475.00	12,346.79	44.93	52.75	-114.09	3,083.85	-809.57	1,485.22	1,390.52	94.70	15.684	
14,900.00	11,740.49	16,414.84	12,344.70	46.21	52.45	-114.07	3,143.95	-808.25	1,481.98	1,386.54	95.44	15.527	
14,910.88	11,740.39	16,410.36	12,344.57	46.34	52.43	-114.07	3,148.43	-808.29	1,481.90	1,386.37	95.53	15.513	
15,000.00	11,739.62	16,381.00	12,343.90	47.48	52.28	-114.04	3,177.77	-809.02	1,483.05	1,386.88	96.17	15.421	
15,100.00	11,738.74	16,302.98	12,342.95	48.76	51.90	-113.98	3,255.68	-812.92	1,486.82	1,389.98	96.84	15.353	
15,200.00	11,737.87	16,235.47	12,342.69	50.05	51.57	-113.93	3,323.01	-817.85	1,492.89	1,395.40	97.50	15.312	
15,300.00	11,737.00	16,148.22	12,341.60	51.34	51.15	-113.79	3,409.83	-826.42	1,500.88	1,402.68	98.19	15.285	
15,400.00	11,736.13	15,862.12	12,330.30	52.64	49.80	-113.36	3,695.21	-837.00	1,501.43	1,402.50	98.93	15.176	
15,500.00	11,735.25	15,785.41	12,328.99	53.93	49.46	-113.39	3,771.86	-834.57	1,497.49	1,397.79	99.70	15.019	
15,600.00	11,734.38	15,709.64	12,327.43	55.24	49.12	-113.36	3,847.60	-834.68	1,496.14	1,395.65	100.48	14.889	
15,700.00	11,733.51	15,579.40	12,318.76	56.54	48.54	-113.09	3,977.51	-836.40	1,494.38	1,393.11	101.27	14.757	
15,800.00	11,732.64	15,461.82	12,312.20	57.85	48.04	-112.93	4,094.85	-835.06	1,490.71	1,388.66	102.04	14.608	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee 603H - OH - OH

Survey Program: 100-3_Gyro-NS_OWSG, 11565-3_MWD+IFR1+MS							Rule Assigned:				Offset Well Error: 0.00 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)												
15,900.00	11,731.76	15,364.26	12,312.30	59.16	47.63	-113.04	4,192.31	-830.73	1,486.20	1,383.42	102.78	14.460													
16,000.00	11,730.89	15,271.77	12,310.39	60.47	47.25	-113.05	4,284.74	-828.01	1,482.23	1,378.65	103.58	14.310													
16,100.00	11,730.02	15,204.54	12,309.77	61.79	46.98	-113.08	4,351.95	-826.44	1,479.36	1,374.96	104.40	14.170													
16,149.29	11,729.59	15,176.00	12,309.43	62.44	46.86	-113.08	4,380.48	-826.47	1,478.96	1,374.15	104.81	14.111													
16,200.00	11,729.15	15,153.00	12,309.10	63.11	46.77	-113.08	4,403.48	-826.83	1,479.28	1,374.07	105.22	14.059													
16,300.00	11,728.27	15,079.90	12,308.34	64.43	46.48	-113.04	4,476.52	-829.33	1,481.67	1,375.66	106.01	13.976													
													16,400.00	11,727.40	14,936.12	12,307.86	65.75	45.93	-113.02	4,620.22	-834.08	1,484.28	1,377.40	106.88	13.887
													16,500.00	11,726.53	14,826.82	12,306.50	67.08	45.52	-113.00	4,729.49	-835.43	1,484.46	1,376.73	107.73	13.780
													16,600.00	11,725.65	14,701.22	12,302.61	68.40	45.06	-112.89	4,855.02	-836.98	1,484.01	1,375.40	108.62	13.663
													16,694.51	11,724.83	14,632.49	12,300.63	69.66	44.82	-112.85	4,923.72	-837.13	1,482.84	1,373.39	109.45	13.548
													16,700.00	11,724.78	14,629.25	12,300.60	69.73	44.81	-112.85	4,926.97	-837.16	1,482.84	1,373.34	109.50	13.542
16,800.00	11,723.91	14,529.83	12,301.50	71.06	44.47	-112.90	5,026.36	-838.55	1,484.02	1,373.67	110.35	13.448													
16,900.00	11,723.04	14,397.00	12,299.57	72.39	44.03	-112.90	5,159.17	-837.95	1,482.40	1,371.16	111.24	13.326													
17,000.00	11,722.16	14,324.00	12,298.65	73.72	43.80	-112.91	5,232.16	-837.63	1,481.11	1,368.98	112.14	13.208													
17,100.00	11,721.29	14,213.77	12,297.45	75.06	43.46	-112.90	5,342.37	-838.52	1,481.01	1,367.95	113.06	13.100													
17,200.00	11,720.42	14,117.51	12,292.75	76.39	43.17	-112.75	5,438.50	-840.15	1,480.21	1,366.16	114.05	12.978													
													17,300.00	11,719.55	14,020.00	12,289.27	77.73	42.89	-112.65	5,535.93	-841.27	1,479.43	1,364.39	115.04	12.860
													17,327.41	11,719.31	13,999.39	12,288.94	78.09	42.83	-112.65	5,556.54	-841.40	1,479.32	1,364.02	115.30	12.831
													17,400.00	11,718.67	13,956.09	12,288.10	79.07	42.72	-112.62	5,599.82	-842.44	1,480.04	1,364.09	115.95	12.764
													17,500.00	11,717.80	13,808.35	12,283.33	80.40	42.32	-112.46	5,747.41	-846.22	1,480.84	1,363.76	117.08	12.648
													17,545.62	11,717.40	13,781.07	12,282.08	81.02	42.26	-112.42	5,774.66	-846.69	1,480.55	1,363.03	117.52	12.598
17,600.00	11,716.93	13,737.00	12,279.84	81.74	42.14	-112.34	5,818.64	-848.32	1,481.03	1,362.95	118.08	12.542													
17,700.00	11,716.06	13,660.51	12,275.14	83.08	41.96	-112.14	5,894.87	-852.40	1,483.03	1,363.90	119.12	12.450													
17,800.00	11,715.18	13,567.92	12,268.67	84.43	41.74	-111.87	5,987.06	-858.02	1,485.57	1,365.32	120.25	12.354													
17,900.00	11,714.31	13,463.78	12,262.91	85.77	41.51	-111.62	6,090.87	-863.96	1,488.34	1,366.91	121.42	12.258													
18,000.00	11,713.44	13,347.38	12,260.57	87.11	41.28	-111.53	6,207.17	-868.03	1,490.37	1,367.80	122.57	12.159													
													18,100.00	11,712.56	13,229.52	12,259.40	88.46	41.06	-111.51	6,325.00	-870.12	1,491.16	1,367.47	123.69	12.055
													18,200.00	11,711.69	13,133.06	12,258.60	89.80	40.89	-111.51	6,421.46	-871.02	1,491.24	1,366.48	124.76	11.953
													18,300.00	11,710.82	12,969.12	12,255.36	91.15	40.63	-111.45	6,585.32	-872.31	1,491.51	1,365.50	126.02	11.836
													18,400.00	11,709.95	12,840.67	12,256.01	92.49	40.46	-111.63	6,713.55	-865.00	1,485.68	1,358.63	127.05	11.694
													18,500.00	11,709.07	12,751.55	12,254.40	93.84	40.35	-111.67	6,802.57	-861.28	1,480.61	1,352.45	128.16	11.553
18,600.00	11,708.20	12,643.93	12,251.24	95.19	40.24	-111.66	6,910.06	-856.96	1,475.30	1,345.99	129.31	11.409													
18,700.00	11,707.33	12,430.82	12,218.12	96.54	40.06	-110.66	7,119.43	-848.83	1,464.97	1,334.09	130.88	11.193													
18,800.00	11,706.46	12,211.95	12,119.59	97.89	39.96	-106.98	7,313.74	-852.78	1,451.84	1,318.44	133.39	10.884													
18,900.00	11,705.58	11,942.00	11,912.88	99.24	39.88	-98.76	7,485.21	-857.99	1,427.16	1,290.59	136.57	10.450													
19,000.00	11,704.71	11,854.67	11,833.75	100.59	39.86	-95.50	7,521.95	-859.93	1,404.71	1,265.63	139.08	10.100													
													19,100.00	11,703.84	11,782.54	11,765.72	101.94	39.85	-92.67	7,545.79	-860.24	1,386.03	1,244.77	141.26	9.812
													19,200.00	11,702.97	11,755.50	11,739.45	103.29	39.85	-91.58	7,552.19	-860.39	1,373.35	1,230.27	143.08	9.599
													19,300.00	11,702.09	11,741.17	11,725.37	104.64	39.84	-90.99	7,554.85	-860.56	1,367.56	1,223.12	144.43	9.468
													19,331.26	11,701.82	11,737.67	11,721.92	105.06	39.84	-90.84	7,555.42	-860.61	1,367.21	1,222.45	144.76	9.445
													19,377.12	11,701.42	11,733.11	11,717.42	105.68	39.84	-90.65	7,556.12	-860.68	1,367.96	1,222.83	145.13	9.426
																									CC, 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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee 701H - OH - OH

Survey Program: 100-3_Gyro-NS_OWSG, 11630-3_MWD+IFR1+MS										Rule Assigned:				Offset Site Error:
Reference										Offset Well Error:				0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,700.00	10,659.15	19,738.81	12,594.98	15.86	70.91	-73.91	-46.35	27.45	2,017.67	1,932.02	85.65	23.557		
10,800.00	10,759.15	19,747.75	12,595.78	15.93	70.96	-74.77	-55.26	27.72	1,921.91	1,835.87	86.04	22.337		
10,900.00	10,859.15	19,756.69	12,596.58	16.00	71.02	-75.63	-64.16	27.98	1,826.57	1,740.13	86.44	21.132		
11,000.00	10,959.15	19,765.63	12,597.38	16.06	71.07	-76.51	-73.06	28.24	1,731.70	1,644.87	86.83	19.943		
11,100.00	11,059.15	19,774.58	12,598.18	16.13	71.13	-77.39	-81.96	28.51	1,637.39	1,550.17	87.23	18.772		
11,200.00	11,159.15	19,783.52	12,598.98	16.20	71.19	-78.28	-90.86	28.77	1,543.75	1,456.13	87.62	17.618		
11,300.00	11,259.00	19,788.49	12,599.42	16.28	71.22	-95.18	-95.82	28.92	1,450.75	1,362.77	87.98	16.489		
11,400.00	11,356.78	19,776.98	12,598.39	16.40	71.15	-115.70	-84.36	28.58	1,359.39	1,271.17	88.22	15.408		
11,500.00	11,449.54	19,748.43	12,595.84	16.52	70.97	-128.55	-55.93	27.74	1,272.54	1,184.21	88.33	14.407		
11,600.00	11,534.47	19,704.43	12,591.93	16.63	70.69	-136.06	-12.13	26.46	1,192.91	1,104.59	88.31	13.508		
11,700.00	11,608.98	19,671.00	12,589.05	16.75	70.48	-141.21	21.17	25.53	1,123.23	1,034.76	88.47	12.696		
11,800.00	11,670.81	19,611.23	12,585.21	16.89	70.10	-143.78	80.78	23.69	1,066.38	978.03	88.35	12.069		
11,900.00	11,718.09	19,526.12	12,581.77	17.06	69.57	-144.91	165.78	21.01	1,024.18	936.19	88.00	11.639		
12,000.00	11,749.36	19,449.53	12,579.02	17.30	69.09	-145.65	242.30	19.56	995.75	908.00	87.75	11.347		
12,100.00	11,763.70	19,373.50	12,579.81	17.63	68.62	-145.99	318.32	19.12	984.41	896.90	87.51	11.249		
12,167.86	11,766.04	19,298.25	12,581.16	17.90	68.16	-146.01	393.56	19.08	983.17	896.04	87.13	11.284		
12,200.00	11,764.05	19,254.82	12,581.13	18.04	67.89	-146.07	436.99	18.64	984.83	897.94	86.89	11.334		
12,300.00	11,763.18	19,141.88	12,577.14	18.54	67.19	-145.83	549.79	14.84	983.98	897.63	86.35	11.396		
12,400.00	11,762.31	19,014.32	12,571.26	19.13	66.41	-145.58	677.16	11.84	981.80	896.09	85.71	11.455		
12,500.00	11,761.43	18,894.68	12,565.07	19.79	65.69	-145.59	796.61	14.50	976.42	891.26	85.16	11.465		
12,600.00	11,760.56	18,803.81	12,560.12	20.52	65.14	-145.59	887.31	16.60	970.86	885.95	84.92	11.433		
12,700.00	11,759.69	18,709.32	12,558.66	21.32	64.58	-145.89	981.62	22.15	966.49	881.84	84.65	11.418		
12,800.00	11,758.82	18,596.70	12,556.04	22.16	63.92	-146.25	1,093.95	29.66	961.02	876.78	84.24	11.408		
12,900.00	11,757.94	18,510.83	12,553.22	23.06	63.41	-146.44	1,179.65	34.11	955.70	871.62	84.08	11.366		
13,000.00	11,757.07	18,434.87	12,552.04	24.01	62.97	-146.59	1,255.56	36.72	952.74	868.74	83.99	11.343		
13,100.00	11,756.20	18,350.60	12,552.51	24.99	62.48	-146.78	1,339.80	39.01	951.94	868.10	83.84	11.355		
13,200.00	11,755.32	18,234.11	12,550.78	26.01	61.80	-146.89	1,456.25	40.62	950.06	866.54	83.53	11.374		
13,281.22	11,754.62	18,186.13	12,550.31	26.86	61.52	-146.93	1,504.23	41.15	949.47	865.94	83.53	11.367		
13,300.00	11,754.45	18,155.71	12,550.95	27.06	61.35	-147.00	1,534.64	41.70	949.67	866.23	83.43	11.382		
13,400.00	11,753.58	18,034.74	12,548.24	28.14	60.65	-147.00	1,655.56	41.64	947.88	864.71	83.17	11.397		
13,500.00	11,752.71	17,950.84	12,546.27	29.24	60.17	-146.91	1,739.41	39.91	947.24	864.13	83.11	11.397		
13,600.00	11,751.83	17,848.26	12,542.67	30.36	59.59	-146.64	1,841.83	35.47	946.92	863.90	83.02	11.405		
13,682.78	11,751.11	17,768.56	12,540.09	31.31	59.14	-146.44	1,921.42	32.17	946.78	863.79	82.99	11.409		
13,700.00	11,750.96	17,751.97	12,539.66	31.51	59.04	-146.41	1,938.00	31.58	946.79	863.81	82.98	11.410		
13,800.00	11,750.09	17,648.48	12,538.02	32.67	58.47	-146.33	2,041.44	29.47	946.85	863.94	82.91	11.420		
13,900.00	11,749.22	17,537.92	12,537.05	33.85	57.86	-146.42	2,151.99	30.25	945.97	863.18	82.79	11.426		
14,000.00	11,748.34	17,411.45	12,534.52	35.04	57.17	-146.56	2,278.41	32.89	943.47	860.86	82.61	11.421		
14,100.00	11,747.47	17,321.26	12,531.98	36.24	56.68	-146.68	2,368.51	35.71	939.65	857.06	82.59	11.377		
14,200.00	11,746.60	17,226.73	12,530.75	37.46	56.18	-146.89	2,462.97	39.16	936.81	854.28	82.54	11.350		
14,300.00	11,745.73	17,129.56	12,527.68	38.68	55.66	-146.86	2,560.07	39.24	934.38	851.83	82.55	11.319		
14,400.00	11,744.85	17,037.97	12,522.72	39.92	55.18	-146.55	2,651.43	35.22	932.51	849.82	82.69	11.277		
14,500.00	11,743.98	16,937.24	12,516.74	41.16	54.65	-146.11	2,751.80	29.12	931.17	848.29	82.88	11.235		
14,600.00	11,743.11	16,837.00	12,511.71	42.41	54.13	-145.79	2,851.82	24.86	929.63	846.57	83.05	11.193		
14,676.60	11,742.44	16,773.78	12,509.56	43.37	53.80	-145.67	2,914.97	22.89	929.01	845.82	83.18	11.168		
14,700.00	11,742.23	16,754.95	12,509.20	43.67	53.71	-145.64	2,933.79	22.35	929.06	845.85	83.22	11.164		
14,800.00	11,741.36	16,660.69	12,508.88	44.93	53.23	-145.62	3,028.03	20.71	930.00	846.67	83.33	11.161		
14,900.00	11,740.49	16,581.75	12,510.37	46.21	52.84	-145.71	3,106.95	20.33	932.09	848.70	83.39	11.178		
15,000.00	11,739.62	16,476.69	12,513.97	47.48	52.32	-145.85	3,211.94	19.13	935.83	852.38	83.45	11.215		
15,100.00	11,738.74	16,378.79	12,515.72	48.76	51.85	-145.90	3,309.81	17.43	938.52	854.97	83.55	11.233		
15,200.00	11,737.87	16,251.25	12,515.56	50.05	51.23	-145.76	3,437.27	12.98	940.75	856.98	83.77	11.230		
15,300.00	11,737.00	16,098.71	12,504.93	51.34	50.52	-145.26	3,589.33	8.18	936.45	852.31	84.13	11.131		
15,400.00	11,736.13	16,010.69	12,498.04	52.64	50.11	-145.00	3,677.06	6.38	931.43	846.95	84.49	11.025		

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee 701H - OH - OH

Survey Program: 100-3_Gyro-NS_OWSG, 11630-3_MWD+IFR1+MS										Rule Assigned:		Offset Site Error:	0.00 usft		
Reference										Offset Well Error:		0.00 usft			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,500.00	11,735.25	15,928.57	12,494.13	53.93	49.74	-144.89			3,759.08	5.75	928.19	843.43	84.77	10.950	
15,600.00	11,734.38	15,831.87	12,492.29	55.24	49.31	-144.92			3,855.76	6.28	926.52	841.56	84.96	10.905	
15,700.00	11,733.51	15,735.66	12,490.52	56.54	48.88	-144.99			3,951.94	7.49	924.53	839.38	85.15	10.858	
15,800.00	11,732.64	15,640.85	12,489.08	57.85	48.48	-145.01			4,046.74	7.49	923.48	838.11	85.38	10.817	
15,900.00	11,731.76	15,539.54	12,486.44	59.16	48.05	-144.91			4,147.99	5.83	922.50	836.81	85.70	10.765	
16,000.00	11,730.89	15,435.72	12,482.06	60.47	47.61	-144.65			4,251.66	2.25	921.26	835.12	86.14	10.695	
16,100.00	11,730.02	15,340.81	12,477.17	61.79	47.23	-144.32			4,346.34	-2.15	919.96	833.32	86.65	10.617	
16,200.00	11,729.15	15,241.56	12,471.58	63.11	46.83	-143.89			4,445.25	-8.22	919.19	831.93	87.26	10.534	
16,300.00	11,728.27	15,139.15	12,466.00	64.43	46.43	-143.47			4,547.34	-13.93	918.28	830.40	87.89	10.448	
16,400.00	11,727.40	15,038.74	12,461.39	65.75	46.05	-143.17			4,647.56	-17.97	917.18	828.72	88.46	10.368	
16,500.00	11,726.53	14,913.92	12,453.97	67.08	45.59	-142.78			4,772.09	-22.08	914.55	825.38	89.17	10.257	
16,600.00	11,725.65	14,809.39	12,453.50	68.40	45.22	-143.19			4,876.32	-15.23	910.40	821.15	89.25	10.201	
16,700.00	11,724.78	14,687.10	12,451.23	69.73	44.80	-143.56			4,998.35	-8.03	905.71	816.34	89.37	10.134	
16,800.00	11,723.91	14,606.58	12,446.06	71.06	44.53	-143.54			5,078.67	-5.82	899.29	809.50	89.78	10.016	
16,900.00	11,723.04	14,540.94	12,444.18	72.39	44.32	-143.54			5,144.27	-5.44	896.76	806.64	90.13	9.950	
16,924.31	11,722.82	14,523.18	12,443.98	72.71	44.26	-143.54			5,162.04	-5.54	896.67	806.47	90.21	9.940	
17,000.00	11,722.16	14,468.88	12,444.01	73.72	44.09	-143.54			5,216.33	-6.35	897.53	807.09	90.44	9.924	
17,100.00	11,721.29	14,329.01	12,441.82	75.06	43.66	-143.47			5,356.15	-8.37	897.17	806.04	91.12	9.846	
17,200.00	11,720.42	14,215.86	12,437.69	76.39	43.33	-143.40			5,469.23	-8.21	894.33	802.64	91.69	9.754	
17,300.00	11,719.55	14,118.00	12,433.51	77.73	43.05	-143.35			5,566.99	-7.56	890.69	798.47	92.22	9.659	
17,400.00	11,718.67	14,023.15	12,428.71	79.07	42.80	-143.17			5,661.71	-9.02	887.74	794.86	92.88	9.558	
17,500.00	11,717.80	13,938.36	12,426.03	80.40	42.58	-143.11			5,746.44	-9.46	885.72	792.32	93.40	9.483	
17,544.22	11,717.41	13,903.00	12,426.09	81.00	42.49	-143.16			5,781.80	-8.95	885.48	791.95	93.54	9.467	
17,600.00	11,716.93	13,855.12	12,426.92	81.74	42.37	-143.28			5,829.66	-8.05	885.72	792.04	93.68	9.454	
17,700.00	11,716.06	13,749.32	12,428.79	83.08	42.12	-143.47			5,935.43	-7.31	886.94	792.87	94.08	9.428	
17,734.39	11,715.76	13,713.00	12,427.90	83.55	42.04	-143.42			5,971.73	-8.25	886.85	792.52	94.34	9.401	
17,800.00	11,715.18	13,669.27	12,427.13	84.43	41.94	-143.35			6,015.41	-9.80	887.52	792.87	94.65	9.377	
17,900.00	11,714.31	13,599.15	12,429.34	85.77	41.79	-143.36			6,085.45	-12.32	892.17	797.18	94.98	9.393	
18,000.00	11,713.44	13,474.75	12,430.67	87.11	41.54	-143.16			6,209.65	-18.95	896.33	800.34	95.99	9.338	
18,100.00	11,712.56	13,351.12	12,430.58	88.46	41.31	-143.05			6,333.21	-22.90	898.43	801.52	96.91	9.271	
18,200.00	11,711.69	13,234.89	12,429.81	89.80	41.11	-143.13			6,449.43	-22.55	897.86	800.29	97.57	9.202	
18,300.00	11,710.82	13,131.25	12,428.55	91.15	40.95	-143.24			6,553.06	-21.13	896.25	798.10	98.15	9.131	
18,400.00	11,709.95	13,040.26	12,428.50	92.49	40.82	-143.41			6,644.02	-19.14	895.07	796.49	98.58	9.080	
18,500.00	11,709.07	12,931.55	12,427.93	93.84	40.68	-143.54			6,752.71	-17.75	894.09	794.90	99.19	9.014	
18,600.00	11,708.20	12,821.22	12,286.95	95.19	40.25	-137.75			7,231.28	-19.59	880.14	776.12	104.02	8.461	
18,700.00	11,707.33	11,695.17	11,677.12	96.54	40.07	-87.36			7,556.11	-30.15	824.22	715.41	108.82	7.574	
18,800.00	11,706.46	11,698.52	11,680.47	97.89	40.07	-87.72			7,556.22	-30.21	751.21	636.05	115.16	6.523	
18,900.00	11,705.58	11,701.42	11,683.36	99.24	40.07	-88.02			7,556.30	-30.27	685.03	562.90	122.13	5.609	
19,000.00	11,704.71	11,703.95	11,685.89	100.59	40.07	-88.29			7,556.37	-30.32	627.87	498.45	129.42	4.851	
19,100.00	11,703.84	11,706.17	11,688.11	101.94	40.07	-88.53			7,556.43	-30.36	582.37	446.04	136.33	4.272	
19,200.00	11,702.97	11,708.15	11,690.09	103.29	40.07	-88.74			7,556.48	-30.40	551.44	409.64	141.79	3.889	
19,300.00	11,702.09	11,709.92	11,691.85	104.64	40.07	-88.93			7,556.52	-30.43	537.59	392.95	144.64	3.717	
19,325.40	11,701.87	11,710.33	11,692.27	104.98	40.07	-88.98			7,556.53	-30.44	536.99	392.15	144.84	3.707	CC, ES, SF
19,377.12	11,701.42	11,711.15	11,693.09	105.68	40.08	-89.06			7,556.55	-30.45	539.48	394.91	144.56	3.732	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee 702H - OH - OH

Survey Program: 100-3_Gyro-NS_OWSG, 11763-3_MWD+IFR1+MS										Rule Assigned:		Offset Site Error:	
Reference										Distance		Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,000.00	10,959.15	19,882.00	12,633.57	16.06	71.63	-84.67	-101.40	-524.74	2,005.35	1,917.53	87.83	22.833	
11,100.00	11,059.15	19,882.00	12,633.57	16.13	71.63	-84.67	-101.40	-524.74	1,922.64	1,834.55	88.10	21.824	
11,200.00	11,159.15	19,882.00	12,633.57	16.20	71.63	-84.67	-101.40	-524.74	1,841.65	1,753.30	88.35	20.844	
11,300.00	11,259.00	19,882.00	12,633.57	16.28	71.63	-92.82	-101.40	-524.74	1,762.48	1,673.89	88.60	19.893	
11,400.00	11,356.78	19,882.00	12,633.57	16.40	71.63	-104.50	-101.40	-524.74	1,686.15	1,597.28	88.87	18.973	
11,500.00	11,449.54	19,882.00	12,633.57	16.52	71.63	-113.95	-101.40	-524.74	1,615.46	1,526.30	89.15	18.120	
11,600.00	11,534.47	19,881.06	12,633.58	16.63	71.62	-120.95	-100.46	-524.75	1,553.45	1,464.05	89.40	17.377	
11,700.00	11,608.98	19,812.37	12,633.70	16.75	71.19	-124.18	-31.77	-525.26	1,501.68	1,412.62	89.06	16.861	
11,800.00	11,670.81	19,682.12	12,629.68	16.89	70.37	-125.14	98.39	-526.57	1,458.65	1,370.41	88.23	16.532	
11,900.00	11,718.09	19,599.56	12,624.90	17.06	69.86	-126.56	180.81	-527.58	1,424.99	1,337.12	87.86	16.218	
12,000.00	11,749.36	19,539.66	12,622.98	17.30	69.49	-127.66	240.67	-527.93	1,403.21	1,315.47	87.74	15.993	
12,100.00	11,763.70	19,464.46	12,625.15	17.63	69.02	-128.12	315.82	-527.27	1,394.63	1,307.08	87.55	15.930	
12,170.45	11,766.07	19,380.53	12,626.36	17.91	68.51	-128.12	399.74	-527.57	1,393.53	1,306.31	87.22	15.978	
12,200.00	11,764.05	19,332.55	12,625.88	18.04	68.21	-128.18	447.72	-527.85	1,394.53	1,307.53	87.00	16.030	
12,300.00	11,763.18	19,213.22	12,621.83	18.54	67.48	-128.09	566.97	-528.46	1,392.65	1,306.06	86.59	16.084	
12,400.00	11,762.31	19,095.36	12,615.38	19.13	66.76	-127.94	684.65	-528.69	1,389.22	1,302.97	86.25	16.108	
12,500.00	11,761.43	19,024.00	12,612.83	19.79	66.33	-127.90	755.96	-528.27	1,386.46	1,300.19	86.28	16.070	
12,600.00	11,760.56	18,914.58	12,612.64	20.52	65.67	-127.98	865.36	-526.99	1,385.35	1,299.25	86.10	16.089	
12,700.00	11,759.69	18,797.57	12,608.84	21.32	64.98	-127.94	982.26	-526.02	1,382.57	1,296.63	85.93	16.089	
12,800.00	11,758.82	18,741.00	12,606.94	22.16	64.64	-127.92	1,038.79	-525.68	1,380.22	1,294.07	86.15	16.020	
12,851.74	11,758.36	18,693.74	12,606.79	22.63	64.36	-127.95	1,086.05	-525.31	1,379.76	1,293.58	86.18	16.011	
12,900.00	11,757.94	18,647.00	12,608.22	23.06	64.08	-128.03	1,132.76	-524.85	1,380.20	1,294.02	86.19	16.014	
13,000.00	11,757.07	18,566.67	12,612.06	24.01	63.61	-128.22	1,212.99	-523.74	1,381.76	1,295.45	86.30	16.011	
13,100.00	11,756.20	18,346.41	12,606.31	24.99	62.33	-128.31	1,432.92	-517.35	1,376.22	1,290.49	85.74	16.052	
13,200.00	11,755.32	18,235.68	12,599.29	26.01	61.70	-128.27	1,543.31	-512.23	1,368.51	1,282.72	85.79	15.952	
13,300.00	11,754.45	18,137.23	12,592.24	27.06	61.14	-128.20	1,641.42	-508.08	1,360.62	1,274.66	85.96	15.828	
13,400.00	11,753.58	18,015.50	12,583.26	28.14	60.45	-128.11	1,762.69	-502.54	1,352.42	1,266.41	86.01	15.724	
13,500.00	11,752.71	17,931.92	12,575.22	29.24	59.98	-127.98	1,845.80	-498.85	1,342.98	1,256.63	86.35	15.553	
13,600.00	11,751.83	17,863.52	12,570.80	30.36	59.60	-127.93	1,914.00	-496.35	1,335.93	1,249.16	86.77	15.395	
13,700.00	11,750.96	17,782.36	12,569.18	31.51	59.15	-128.01	1,995.05	-492.59	1,330.86	1,243.75	87.11	15.278	
13,800.00	11,750.09	17,699.00	12,564.65	32.67	58.69	-127.96	2,078.23	-490.44	1,325.59	1,238.13	87.46	15.156	
13,900.00	11,749.22	17,632.98	12,559.98	33.85	58.33	-127.82	2,144.07	-491.18	1,322.52	1,234.60	87.91	15.044	
13,905.38	11,749.17	17,630.48	12,559.87	33.91	58.32	-127.81	2,146.57	-491.25	1,322.48	1,234.54	87.94	15.039	
14,000.00	11,748.34	17,605.00	12,559.04	35.04	58.17	-127.78	2,172.02	-492.13	1,324.08	1,235.69	88.38	14.981	
14,100.00	11,747.47	17,555.05	12,558.33	36.24	57.90	-127.68	2,221.80	-495.98	1,329.91	1,241.16	88.75	14.985	
14,200.00	11,746.60	17,510.00	12,558.39	37.46	57.66	-127.53	2,266.36	-502.54	1,340.86	1,251.80	89.05	15.057	
14,300.00	11,745.73	17,416.14	12,558.98	38.68	57.15	-127.18	2,358.87	-518.46	1,354.54	1,265.07	89.48	15.139	
14,400.00	11,744.85	17,298.20	12,559.02	39.92	56.51	-126.77	2,475.35	-536.90	1,366.96	1,276.96	90.00	15.189	
14,500.00	11,743.98	16,989.86	12,550.87	41.16	54.89	-126.23	2,782.54	-553.94	1,366.90	1,276.48	90.42	15.117	
14,600.00	11,743.11	16,878.86	12,545.99	42.41	54.33	-126.16	2,893.43	-552.51	1,363.10	1,272.26	90.84	15.005	
14,700.00	11,742.23	16,767.00	12,541.31	43.67	53.77	-126.14	3,005.14	-549.19	1,358.01	1,266.75	91.26	14.880	
14,800.00	11,741.36	16,683.94	12,537.64	44.93	53.35	-126.11	3,088.09	-547.05	1,353.18	1,261.38	91.80	14.741	
14,900.00	11,740.49	16,610.28	12,534.58	46.21	52.99	-126.05	3,161.68	-546.64	1,350.10	1,257.73	92.37	14.616	
15,000.00	11,739.62	16,522.41	12,531.80	47.48	52.56	-125.98	3,249.51	-547.40	1,348.72	1,255.81	92.92	14.516	
15,100.00	11,738.74	16,428.13	12,529.55	48.76	52.11	-125.94	3,343.75	-548.04	1,347.68	1,254.23	93.45	14.421	
15,200.00	11,737.87	16,325.61	12,529.60	50.05	51.62	-126.01	3,446.27	-547.41	1,347.02	1,253.08	93.93	14.340	
15,300.00	11,737.00	16,221.48	12,529.72	51.34	51.13	-126.10	3,550.39	-546.06	1,345.85	1,251.43	94.42	14.254	
15,400.00	11,736.13	16,099.52	12,528.29	52.64	50.57	-126.15	3,672.32	-544.40	1,343.89	1,248.99	94.90	14.161	
15,500.00	11,735.25	16,003.22	12,526.38	53.93	50.14	-126.18	3,768.59	-542.78	1,341.17	1,245.73	95.45	14.051	
15,600.00	11,734.38	15,901.61	12,524.64	55.24	49.69	-126.22	3,870.17	-540.82	1,338.41	1,242.42	95.99	13.943	
15,700.00	11,733.51	15,824.00	12,522.39	56.54	49.35	-126.20	3,947.74	-540.42	1,336.20	1,239.59	96.61	13.831	
15,756.14	11,733.02	15,781.93	12,521.24	57.28	49.17	-126.17	3,989.79	-540.86	1,335.72	1,238.76	96.97	13.775	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Coonskin Fee 702H - OH - OH

Survey Program: 100-3_Gyro-NS_OWSG, 11763-3_MWD+IFR1+MS										Rule Assigned:		Offset Site Error:	0.00 usft
Reference										Offset Well Error:		0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,800.00	11,732.64	15,754.54	12,521.02	57.85	49.05	-126.16	4,017.18	-541.30	1,336.00	1,238.76	97.23	13.740	
15,900.00	11,731.76	15,679.20	12,521.49	59.16	48.73	-126.16	4,092.49	-543.38	1,338.34	1,240.52	97.82	13.682	
16,000.00	11,730.89	15,585.61	12,520.97	60.47	48.34	-126.08	4,185.95	-548.05	1,341.85	1,243.38	98.47	13.628	
16,100.00	11,730.02	15,447.00	12,519.36	61.79	47.77	-125.96	4,324.43	-553.50	1,344.23	1,245.05	99.18	13.553	
16,200.00	11,729.15	15,352.00	12,516.14	63.11	47.39	-125.80	4,419.29	-557.24	1,345.23	1,245.32	99.91	13.465	
16,300.00	11,728.27	15,278.13	12,515.64	64.43	47.10	-125.75	4,493.11	-560.01	1,347.57	1,247.01	100.57	13.400	
16,400.00	11,727.40	15,072.37	12,508.38	65.75	46.32	-125.55	4,698.63	-562.31	1,345.78	1,244.43	101.35	13.279	
16,500.00	11,726.53	14,974.00	12,502.12	67.08	45.96	-125.42	4,796.80	-560.99	1,340.80	1,238.67	102.12	13.129	
16,600.00	11,725.65	14,901.15	12,499.06	68.40	45.70	-125.38	4,869.57	-559.87	1,336.95	1,234.07	102.88	12.995	
16,700.00	11,724.78	14,789.30	12,496.39	69.73	45.32	-125.38	4,981.37	-558.31	1,334.28	1,230.69	103.59	12.881	
16,800.00	11,723.91	14,697.94	12,493.21	71.06	45.01	-125.35	5,072.67	-557.06	1,330.95	1,226.61	104.34	12.756	
16,900.00	11,723.04	14,610.74	12,491.74	72.39	44.73	-125.38	5,159.84	-555.67	1,328.47	1,223.41	105.06	12.645	
16,999.98	11,722.16	14,537.22	12,492.17	73.72	44.50	-125.46	5,233.35	-554.55	1,327.39	1,221.65	105.74	12.554	
17,000.00	11,722.16	14,537.20	12,492.17	73.72	44.50	-125.46	5,233.37	-554.55	1,327.39	1,221.65	105.74	12.553	
17,100.00	11,721.29	14,451.90	12,493.84	75.06	44.24	-125.56	5,318.66	-554.48	1,328.21	1,221.81	106.40	12.483	
17,200.00	11,720.42	14,347.47	12,494.21	76.39	43.93	-125.60	5,423.07	-555.78	1,329.24	1,222.08	107.16	12.404	
17,300.00	11,719.55	14,241.33	12,492.68	77.73	43.62	-125.55	5,529.18	-557.82	1,329.76	1,221.76	108.00	12.313	
17,400.00	11,718.67	14,144.71	12,490.89	79.07	43.36	-125.49	5,625.76	-559.78	1,330.14	1,221.29	108.84	12.221	
17,500.00	11,717.80	14,056.36	12,489.92	80.40	43.12	-125.45	5,714.09	-561.73	1,331.10	1,221.44	109.66	12.138	
17,600.00	11,716.93	13,974.51	12,489.79	81.74	42.92	-125.43	5,795.90	-564.09	1,333.17	1,222.72	110.45	12.070	
17,700.00	11,716.06	13,842.00	12,487.81	83.08	42.60	-125.30	5,928.28	-569.26	1,335.45	1,223.95	111.50	11.977	
17,800.00	11,715.18	13,766.33	12,484.14	84.43	42.42	-125.14	6,003.79	-572.28	1,335.96	1,223.54	112.42	11.884	
17,900.00	11,714.31	13,609.30	12,474.81	85.77	42.09	-124.77	6,160.45	-577.23	1,334.29	1,220.53	113.76	11.729	
18,000.00	11,713.44	13,525.45	12,470.41	87.11	41.93	-124.61	6,244.16	-579.29	1,333.07	1,218.31	114.76	11.616	
18,100.00	11,712.56	13,420.20	12,464.33	88.46	41.73	-124.37	6,349.18	-582.53	1,332.12	1,216.22	115.90	11.494	
18,200.00	11,711.69	13,311.04	12,459.16	89.80	41.54	-124.20	6,458.20	-584.28	1,330.54	1,213.53	117.01	11.371	
18,299.76	11,710.82	13,236.51	12,455.89	91.14	41.43	-124.09	6,532.65	-585.36	1,329.19	1,211.21	117.98	11.267	
18,300.00	11,710.82	13,236.37	12,455.89	91.15	41.43	-124.09	6,532.79	-585.36	1,329.19	1,211.21	117.98	11.266	
18,400.00	11,709.95	13,173.52	12,457.72	92.49	41.33	-124.19	6,595.60	-585.54	1,330.74	1,212.04	118.70	11.211	
18,500.00	11,709.07	13,042.19	12,460.67	93.84	41.16	-124.33	6,726.87	-586.89	1,332.71	1,212.99	119.72	11.132	
18,600.00	11,708.20	11,722.81	11,696.83	95.19	40.56	-89.75	7,573.05	-593.60	1,329.47	1,206.38	123.08	10.801	
18,700.00	11,707.33	11,721.43	11,695.45	96.54	40.56	-89.68	7,573.06	-593.58	1,275.98	1,148.95	127.03	10.045	
18,800.00	11,706.46	11,720.06	11,694.09	97.89	40.56	-89.60	7,573.06	-593.56	1,228.32	1,097.39	130.93	9.382	
18,900.00	11,705.58	11,718.70	11,692.73	99.24	40.56	-89.53	7,573.07	-593.54	1,187.18	1,052.53	134.66	8.816	
19,000.00	11,704.71	11,717.36	11,691.38	100.59	40.55	-89.46	7,573.07	-593.52	1,153.27	1,015.20	138.07	8.353	
19,100.00	11,703.84	11,716.02	11,690.05	101.94	40.55	-89.39	7,573.08	-593.51	1,127.24	986.21	141.03	7.993	
19,200.00	11,702.97	11,714.70	11,688.73	103.29	40.55	-89.32	7,573.08	-593.49	1,109.63	966.25	143.38	7.739	
19,300.00	11,702.09	11,713.39	11,687.41	104.64	40.55	-89.26	7,573.09	-593.47	1,100.87	955.86	145.00	7.592	
19,346.91	11,701.68	11,712.78	11,686.80	105.27	40.55	-89.22	7,573.09	-593.46	1,099.87	954.38	145.49	7.560	CC, ES
19,377.12	11,701.42	11,712.39	11,686.41	105.68	40.55	-89.20	7,573.09	-593.46	1,100.28	954.57	145.71	7.551	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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Cosmo K 24S35E3328 #113H - OH - OH

Survey Program: 151-3_MWD+HRGM		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)	Reference (usft)	Offset (usft)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	0.00	10.50	0.00	0.00	88.74	88.74	44.00	1,993.00	1,993.51	1,993.51				
100.00	100.00	80.51	91.01	0.84	0.12	88.74	88.74	43.96	1,993.18	1,993.69	1,992.72	0.96	2,069.640		
200.00	200.00	175.04	185.53	1.48	0.31	88.74	88.74	43.83	1,993.83	1,994.37	1,992.58	1.79	1,115.752		
300.00	300.00	279.06	289.55	1.92	0.68	88.73	88.73	44.20	1,994.37	1,994.88	1,992.29	2.59	768.913		
400.00	400.00	372.05	382.54	2.28	1.01	88.73	88.73	44.35	1,995.00	1,995.57	1,992.29	3.28	607.638		
500.00	500.00	464.16	474.65	2.59	1.34	88.71	88.71	44.86	1,995.98	1,996.65	1,992.72	3.93	508.675		
600.00	600.00	568.97	579.45	2.87	1.71	88.69	88.69	45.79	1,997.32	1,997.95	1,993.37	4.58	436.216		
700.00	700.00	655.84	666.30	3.12	2.03	88.67	88.67	46.24	1,998.29	1,999.11	1,993.96	5.15	388.365		
800.00	800.00	741.80	752.24	3.23	2.33	-20.89	-20.89	46.23	2,000.16	2,000.96	1,995.40	5.56	359.816		
900.00	899.96	841.76	852.17	3.51	2.69	-20.94	-20.94	47.05	2,002.58	2,000.95	1,994.77	6.19	323.431		
1,000.00	999.82	952.19	962.58	3.77	3.09	-21.03	-21.03	47.76	2,004.96	1,998.24	1,991.41	6.84	292.287		
1,100.00	1,099.51	1,047.00	1,057.37	4.02	3.42	-21.12	-21.12	47.10	2,006.83	1,992.86	1,985.45	7.42	268.598		
1,200.00	1,198.96	1,150.59	1,160.92	4.27	3.79	-21.23	-21.23	45.61	2,009.06	1,985.22	1,977.20	8.03	247.376		
1,300.00	1,298.11	1,249.44	1,259.67	4.43	4.14	-21.30	-21.30	41.96	2,011.00	1,974.94	1,966.40	8.53	231.471		
1,400.00	1,397.13	1,366.01	1,376.03	4.62	4.55	-21.27	-21.27	35.14	2,013.07	1,963.58	1,954.44	9.13	214.955		
1,500.00	1,496.16	1,473.96	1,483.73	4.82	4.92	-21.22	-21.22	27.89	2,014.19	1,951.45	1,941.74	9.71	201.000		
1,600.00	1,595.19	1,581.31	1,590.85	5.01	5.30	-21.17	-21.17	21.03	2,014.80	1,938.87	1,928.58	10.28	188.565		
1,700.00	1,694.22	1,697.65	1,707.00	5.20	5.71	-21.15	-21.15	14.35	2,014.91	1,925.86	1,914.97	10.89	176.906		
1,800.00	1,793.24	1,812.57	1,821.78	5.40	6.11	-21.15	-21.15	8.77	2,013.62	1,911.61	1,900.12	11.48	166.469		
1,900.00	1,892.27	1,916.58	1,925.65	5.59	6.48	-21.16	-21.16	3.70	2,012.05	1,897.00	1,884.96	12.04	157.517		
2,000.00	1,991.30	2,004.64	2,013.60	5.79	6.79	-21.16	-21.16	-0.62	2,010.80	1,882.49	1,869.94	12.55	149.967		
2,100.00	2,090.33	2,112.62	2,121.44	5.98	7.17	-21.16	-21.16	-6.11	2,009.53	1,868.23	1,855.10	13.13	142.284		
2,200.00	2,189.35	2,236.35	2,244.89	6.17	7.61	-21.12	-21.12	-13.69	2,006.71	1,852.82	1,839.06	13.76	134.655		
2,300.00	2,288.38	2,350.99	2,359.21	6.37	8.02	-21.05	-21.05	-21.66	2,003.23	1,836.68	1,822.32	14.36	127.906		
2,400.00	2,387.41	2,474.88	2,482.67	6.56	8.47	-20.98	-20.98	-30.18	1,997.55	1,818.96	1,803.97	14.99	121.380		
2,500.00	2,486.44	2,572.67	2,580.12	6.76	8.81	-20.94	-20.94	-36.56	1,992.51	1,800.72	1,785.18	15.53	115.944		
2,600.00	2,585.46	2,665.00	2,672.15	6.95	9.15	-20.90	-20.90	-42.36	1,987.96	1,782.71	1,766.65	16.06	110.999		
2,700.00	2,684.49	2,755.39	2,762.30	7.15	9.47	-20.88	-20.88	-47.61	1,983.86	1,765.10	1,748.52	16.59	106.427		
2,800.00	2,783.52	2,851.68	2,858.35	7.35	9.82	-20.86	-20.86	-52.94	1,979.82	1,747.83	1,730.71	17.13	102.047		
2,900.00	2,882.55	2,952.58	2,959.02	7.54	10.18	-20.85	-20.85	-58.31	1,975.54	1,730.52	1,712.84	17.68	97.854		
3,000.00	2,981.57	3,055.59	3,061.80	7.74	10.55	-20.86	-20.86	-63.41	1,970.95	1,713.01	1,694.76	18.25	93.879		
3,100.00	3,080.60	3,138.57	3,144.63	7.94	10.85	-20.87	-20.87	-67.18	1,967.46	1,695.76	1,677.01	18.75	90.438		
3,200.00	3,179.63	3,229.09	3,234.99	8.14	11.17	-20.88	-20.88	-71.41	1,964.41	1,679.30	1,660.03	19.28	87.111		
3,300.00	3,278.66	3,333.92	3,339.64	8.34	11.55	-20.89	-20.89	-76.49	1,960.94	1,662.93	1,643.08	19.85	83.780		
3,400.00	3,377.68	3,425.39	3,430.95	8.54	11.88	-20.89	-20.89	-80.96	1,957.80	1,646.43	1,626.05	20.38	80.784		
3,500.00	3,476.71	3,527.29	3,532.68	8.74	12.25	-20.90	-20.90	-85.86	1,954.56	1,630.18	1,609.24	20.94	77.836		
3,600.00	3,575.74	3,627.18	3,632.41	8.94	12.62	-20.92	-20.92	-90.40	1,951.17	1,613.72	1,592.22	21.50	75.055		
3,700.00	3,674.77	3,699.03	3,704.16	9.14	12.88	-20.93	-20.93	-93.75	1,949.29	1,598.03	1,576.06	21.97	72.722		
3,800.00	3,773.79	3,774.94	3,779.96	9.34	13.15	-20.92	-20.92	-97.73	1,948.58	1,583.97	1,561.51	22.46	70.525		
3,900.00	3,872.82	3,870.17	3,875.01	9.54	13.50	-20.88	-20.88	-103.62	1,948.73	1,570.98	1,547.97	23.01	68.279		
4,000.00	3,971.85	3,973.24	3,977.79	9.75	13.88	-20.78	-20.78	-111.24	1,948.45	1,557.55	1,533.97	23.59	66.040		
4,100.00	4,070.88	4,093.19	4,097.43	9.95	14.33	-20.68	-20.68	-119.79	1,947.63	1,543.77	1,519.55	24.21	63.752		
4,200.00	4,169.90	4,213.40	4,217.39	10.15	14.77	-20.64	-20.64	-126.93	1,944.65	1,528.15	1,503.31	24.84	61.524		
4,300.00	4,268.93	4,313.69	4,317.47	10.36	15.13	-20.61	-20.61	-132.69	1,941.80	1,512.23	1,486.83	25.40	59.534		
4,400.00	4,367.96	4,471.43	4,474.79	10.56	15.71	-20.59	-20.59	-140.93	1,933.95	1,494.27	1,468.17	26.11	57.241		
4,500.00	4,466.99	4,569.99	4,573.04	10.77	16.06	-20.65	-20.65	-144.34	1,926.82	1,474.04	1,447.39	26.65	55.309		
4,600.00	4,566.01	4,632.43	4,635.35	10.97	16.28	-20.73	-20.73	-145.55	1,923.06	1,455.05	1,427.94	27.11	53.668		
4,700.00	4,665.04	4,694.05	4,696.92	11.17	16.50	-20.82	-20.82	-146.40	1,920.92	1,438.57	1,411.01	27.56	52.196		
4,800.00	4,764.07	4,762.00	4,764.86	11.38	16.74	-20.91	-20.91	-147.56	1,920.39	1,424.64	1,396.63	28.02	50.849		
4,900.00	4,863.10	4,829.72	4,832.55	11.58	16.98	-20.98	-20.98	-149.23	1,921.36	1,412.90	1,384.43	28.47	49.636		
5,000.00	4,962.12	4,917.70	4,920.44	11.79	17.29	-21.04	-21.04	-152.06	1,923.85	1,402.61	1,373.64	28.98	48.404		
5,100.00	5,061.15	5,020.38	5,023.03	11.99	17.65	-21.11	-21.11	-155.38	1,926.95	1,392.54	1,363.00	29.54	47.141		

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Cosmo K 24S35E3328 #113H - OH - OH

Survey Program: 151-3_MWD+HRGM		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)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,200.00	5,160.27	5,135.04	5,137.60	12.17	18.06	-21.15	-158.92	1,929.75	1,382.56	1,352.44	30.12	45.904			
5,300.00	5,259.69	5,267.97	5,270.43	12.35	18.53	-21.10	-163.99	1,930.46	1,372.98	1,342.20	30.78	44.599			
5,400.00	5,359.35	5,388.58	5,390.93	12.52	18.97	-21.01	-168.49	1,928.59	1,363.74	1,332.34	31.39	43.438			
5,500.00	5,459.20	5,492.52	5,494.79	12.68	19.35	-20.91	-171.98	1,926.15	1,356.16	1,324.22	31.94	42.455			
5,600.00	5,559.15	5,599.70	5,601.84	12.83	19.73	-20.76	-176.10	1,923.08	1,350.49	1,318.01	32.48	41.574			
5,700.00	5,659.15	5,701.41	5,703.42	12.87	20.10	88.99	-180.31	1,919.87	1,346.81	1,313.91	32.90	40.942			
5,800.00	5,759.15	5,801.15	5,803.02	12.92	20.46	89.17	-184.53	1,916.64	1,343.50	1,310.19	33.31	40.333			
5,900.00	5,859.15	5,899.14	5,900.83	12.98	20.82	89.38	-189.52	1,913.59	1,340.32	1,306.59	33.72	39.746			
6,000.00	5,959.15	5,997.01	5,998.52	13.03	21.18	89.60	-194.56	1,910.67	1,337.29	1,303.15	34.13	39.177			
6,100.00	6,059.15	6,093.46	6,094.81	13.08	21.53	89.81	-199.57	1,907.97	1,334.46	1,299.91	34.54	38.631			
6,200.00	6,159.15	6,190.78	6,191.97	13.14	21.89	90.02	-204.49	1,905.51	1,331.92	1,296.96	34.96	38.104			
6,300.00	6,259.15	6,289.31	6,290.38	13.19	22.25	90.21	-208.87	1,903.14	1,329.51	1,294.14	35.37	37.590			
6,400.00	6,359.15	6,389.84	6,390.80	13.25	22.61	90.38	-212.80	1,900.76	1,327.17	1,291.38	35.79	37.085			
6,500.00	6,459.15	6,488.11	6,488.98	13.30	22.97	90.54	-216.54	1,898.43	1,324.82	1,288.62	36.20	36.598			
6,600.00	6,559.15	6,584.97	6,585.74	13.36	23.32	90.70	-220.14	1,896.32	1,322.69	1,286.08	36.61	36.131			
6,700.00	6,659.15	6,687.00	6,687.68	13.41	23.69	90.86	-223.92	1,894.18	1,320.64	1,283.61	37.03	35.663			
6,800.00	6,759.15	6,785.85	6,786.44	13.47	24.05	91.02	-227.48	1,892.02	1,318.51	1,281.06	37.44	35.212			
6,900.00	6,859.15	6,881.56	6,882.07	13.52	24.40	91.17	-230.98	1,890.12	1,316.60	1,278.74	37.85	34.784			
7,000.00	6,959.15	6,967.95	6,968.40	13.58	24.71	91.31	-233.98	1,888.98	1,315.35	1,277.13	38.23	34.410			
7,100.00	7,059.15	7,064.76	7,065.17	13.64	25.06	91.42	-236.58	1,888.42	1,314.84	1,276.21	38.63	34.035			
7,200.00	7,159.15	7,166.62	7,167.00	13.69	25.42	91.54	-239.26	1,887.83	1,314.33	1,275.27	39.05	33.654			
7,300.00	7,259.15	7,264.00	7,264.34	13.75	25.78	91.65	-241.91	1,887.26	1,313.81	1,274.35	39.46	33.292			
7,341.32	7,300.47	7,300.14	7,300.47	13.78	25.90	91.69	-242.81	1,887.15	1,313.73	1,274.11	39.62	33.161	CC		
7,400.00	7,359.15	7,351.08	7,351.40	13.81	26.09	91.73	-243.78	1,887.28	1,313.90	1,274.07	39.83	32.984	ES		
7,500.00	7,459.15	7,446.05	7,446.35	13.87	26.42	91.80	-245.24	1,888.00	1,314.71	1,274.48	40.23	32.682			
7,600.00	7,559.15	7,546.15	7,546.43	13.93	26.77	91.87	-247.01	1,888.92	1,315.69	1,275.05	40.64	32.375			
7,700.00	7,659.15	7,641.18	7,641.44	13.98	27.11	91.95	-248.80	1,889.96	1,316.84	1,275.81	41.03	32.092			
7,800.00	7,759.15	7,742.97	7,743.20	14.04	27.47	92.03	-250.76	1,891.18	1,318.10	1,276.65	41.45	31.799			
7,900.00	7,859.15	7,839.00	7,839.21	14.10	27.81	92.11	-252.54	1,892.43	1,319.47	1,277.63	41.85	31.530			
8,000.00	7,959.15	7,937.99	7,938.18	14.16	28.15	92.18	-254.22	1,893.91	1,321.04	1,278.78	42.25	31.264			
8,100.00	8,059.15	8,039.33	8,039.49	14.22	28.51	92.24	-255.79	1,895.41	1,322.57	1,279.90	42.67	30.997			
8,200.00	8,159.15	8,138.90	8,139.05	14.28	28.85	92.29	-256.94	1,896.82	1,324.03	1,280.96	43.07	30.739			
8,300.00	8,259.15	8,235.54	8,235.67	14.34	29.18	92.31	-257.32	1,898.42	1,325.70	1,282.24	43.46	30.503			
8,400.00	8,359.15	8,333.47	8,333.58	14.40	29.51	92.29	-257.02	1,900.23	1,327.53	1,283.68	43.85	30.275			
8,500.00	8,459.15	8,430.62	8,430.71	14.46	29.83	92.25	-256.25	1,902.24	1,329.58	1,285.34	44.23	30.060			
8,600.00	8,559.15	8,531.24	8,531.29	14.52	30.16	92.18	-254.75	1,904.50	1,331.75	1,287.13	44.62	29.845			
8,700.00	8,659.15	8,633.78	8,633.79	14.58	30.50	92.09	-252.71	1,906.57	1,333.70	1,288.68	45.02	29.625			
8,800.00	8,759.15	8,732.70	8,732.69	14.65	30.83	92.04	-251.48	1,908.52	1,335.63	1,290.22	45.41	29.414			
8,900.00	8,859.15	8,828.15	8,828.11	14.71	31.15	92.00	-250.64	1,910.56	1,337.74	1,291.95	45.79	29.217			
9,000.00	8,959.15	8,924.86	8,924.78	14.77	31.47	91.97	-250.10	1,913.00	1,340.23	1,294.06	46.17	29.027			
9,100.00	9,059.15	9,024.27	9,024.16	14.83	31.81	91.96	-249.85	1,915.58	1,342.82	1,296.25	46.57	28.835			
9,200.00	9,159.15	9,125.83	9,125.68	14.89	32.16	91.96	-250.00	1,918.19	1,345.39	1,298.42	46.98	28.639			
9,300.00	9,259.15	9,228.30	9,228.13	14.96	32.51	91.97	-250.25	1,920.64	1,347.79	1,300.40	47.39	28.440			
9,400.00	9,359.15	9,342.27	9,342.08	15.02	32.89	91.96	-250.10	1,922.76	1,349.65	1,301.81	47.84	28.210			
9,500.00	9,459.15	9,444.50	9,444.30	15.08	33.24	91.91	-249.13	1,924.00	1,350.83	1,302.58	48.25	27.998			
9,600.00	9,559.15	9,545.46	9,545.24	15.15	33.57	91.86	-247.92	1,925.12	1,351.91	1,303.26	48.65	27.791			
9,700.00	9,659.15	9,648.56	9,648.33	15.21	33.92	91.82	-246.94	1,926.09	1,352.81	1,303.76	49.05	27.579			
9,800.00	9,759.15	9,751.24	9,751.00	15.28	34.26	91.78	-246.13	1,926.85	1,353.53	1,304.07	49.46	27.368			
9,900.00	9,859.15	9,858.51	9,858.27	15.34	34.62	91.75	-245.24	1,927.30	1,353.93	1,304.06	49.88	27.145			
10,000.00	9,959.15	10,011.30	10,010.42	15.40	35.12	91.31	-235.01	1,925.03	1,352.36	1,301.93	50.43	26.819			
10,100.00	10,059.15	10,136.63	10,128.63	15.47	35.48	89.60	-194.70	1,918.95	1,346.78	1,295.93	50.85	26.487			
10,200.00	10,159.15	10,201.00	10,186.61	15.53	35.66	88.42	-166.86	1,916.47	1,343.26	1,292.15	51.11	26.282			

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Cosmo K 24S35E3328 #113H - OH - OH

Survey Program:		151-3_MWD+HRGM		Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:		0.00 usft	
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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning							
10,276.90	10,236.05	10,257.34	10,236.05	15.58	35.81	87.26	-139.90	1,914.97	1,342.50	1,291.18	51.32	26.162								
10,300.00	10,259.15	10,271.18	10,247.83	15.60	35.85	86.95	-132.66	1,914.65	1,342.59	1,291.23	51.37	26.138								
10,400.00	10,359.15	10,327.14	10,293.00	15.67	36.00	85.55	-99.70	1,913.74	1,345.42	1,293.87	51.55	26.097								
10,500.00	10,459.15	10,404.53	10,348.72	15.73	36.19	83.27	-46.07	1,912.36	1,352.16	1,300.39	51.78	26.115								
10,600.00	10,559.15	10,468.06	10,390.86	15.80	36.35	81.26	1.40	1,910.02	1,362.16	1,310.22	51.93	26.228								
10,700.00	10,659.15	10,506.09	10,414.64	15.86	36.44	80.01	31.05	1,908.73	1,377.15	1,325.17	51.98	26.493								
10,800.00	10,759.15	10,530.00	10,428.69	15.93	36.50	79.20	50.38	1,908.08	1,397.75	1,345.80	51.95	26.907								
10,900.00	10,859.15	10,558.19	10,444.11	16.00	36.58	78.23	73.96	1,907.52	1,424.01	1,372.10	51.91	27.435								
11,000.00	10,959.15	10,578.00	10,454.08	16.06	36.63	77.52	91.08	1,907.28	1,455.95	1,404.14	51.82	28.099								
11,100.00	11,059.15	10,594.92	10,462.03	16.13	36.67	76.91	106.01	1,907.17	1,493.32	1,441.62	51.71	28.881								
11,200.00	11,159.15	10,625.00	10,474.93	16.20	36.74	75.81	133.18	1,907.25	1,536.03	1,484.39	51.64	29.743								
11,300.00	11,259.00	10,625.00	10,474.93	16.28	36.74	72.88	133.18	1,907.25	1,582.22	1,530.77	51.45	30.750								
11,400.00	11,356.78	10,643.75	10,482.17	16.40	36.79	67.37	150.47	1,907.44	1,628.67	1,577.34	51.33	31.729								
11,500.00	11,449.54	10,673.00	10,492.25	16.52	36.86	62.14	177.93	1,907.91	1,673.31	1,622.06	51.25	32.650								
11,600.00	11,534.47	10,673.00	10,492.25	16.63	36.86	58.20	177.93	1,907.91	1,714.66	1,663.55	51.10	33.552								
11,700.00	11,608.98	10,719.00	10,504.11	16.75	36.97	54.20	222.33	1,908.88	1,751.38	1,700.23	51.15	34.240								
11,800.00	11,670.81	10,719.00	10,504.11	16.89	36.97	51.59	222.33	1,908.88	1,782.47	1,731.32	51.15	34.847								
11,900.00	11,718.09	10,765.00	10,510.74	17.06	37.08	49.26	267.82	1,909.67	1,807.04	1,755.70	51.34	35.196								
12,000.00	11,749.36	10,810.46	10,514.45	17.30	37.19	47.77	313.12	1,910.14	1,823.81	1,772.18	51.63	35.327								
12,100.00	11,763.70	10,884.58	10,518.48	17.63	37.39	47.13	387.13	1,910.60	1,830.91	1,778.86	52.05	35.174								
12,200.00	11,764.05	10,984.53	10,522.68	18.04	37.69	47.26	487.00	1,910.83	1,829.10	1,776.52	52.58	34.784								
12,300.00	11,763.18	11,085.43	10,526.80	18.54	38.05	47.39	587.81	1,910.60	1,826.21	1,773.00	53.21	34.320								
12,400.00	11,762.31	11,170.20	10,529.73	19.13	38.39	47.48	672.53	1,910.46	1,823.81	1,769.91	53.89	33.840								
12,500.00	11,761.43	11,250.89	10,531.90	19.79	38.75	47.57	753.19	1,910.91	1,822.45	1,767.80	54.65	33.348								
12,600.00	11,760.56	11,345.34	10,533.80	20.52	39.20	47.67	847.62	1,911.82	1,821.85	1,766.34	55.51	32.822								
12,700.00	11,759.69	11,481.75	10,537.05	21.32	39.93	47.80	983.99	1,911.72	1,820.23	1,763.70	56.53	32.197								
12,800.00	11,758.82	11,587.53	10,540.25	22.16	40.55	47.89	1,089.70	1,910.38	1,817.31	1,759.73	57.58	31.564								
12,900.00	11,757.94	11,662.25	10,541.23	23.06	41.02	47.91	1,164.40	1,908.79	1,814.97	1,756.36	58.60	30.970								
13,000.00	11,757.07	11,737.06	10,540.39	24.01	41.51	47.89	1,239.19	1,907.39	1,814.34	1,754.66	59.68	30.401								
13,031.76	11,756.79	11,767.08	10,539.75	24.32	41.71	47.87	1,269.20	1,906.77	1,814.32	1,754.27	60.05	30.214								
13,100.00	11,756.20	11,832.53	10,538.00	24.99	42.17	47.82	1,334.60	1,905.22	1,814.39	1,753.53	60.85	29.817								
13,200.00	11,755.32	11,929.24	10,535.10	26.01	42.87	47.74	1,431.24	1,902.80	1,814.61	1,752.54	62.08	29.232								
13,300.00	11,754.45	12,024.26	10,531.21	27.06	43.60	47.62	1,526.14	1,899.82	1,815.10	1,751.76	63.34	28.658								
13,400.00	11,753.58	12,119.86	10,526.41	28.14	44.37	47.47	1,621.54	1,896.30	1,815.83	1,751.20	64.64	28.093								
13,500.00	11,752.71	12,292.01	10,516.58	29.24	45.83	47.10	1,793.11	1,886.43	1,816.12	1,749.98	66.14	27.458								
13,600.00	11,751.83	12,398.70	10,513.85	30.36	46.78	46.92	1,899.52	1,879.13	1,812.90	1,745.35	67.55	26.837								
13,700.00	11,750.96	12,487.70	10,511.10	31.51	47.59	46.75	1,988.24	1,872.65	1,809.74	1,740.80	68.94	26.251								
13,800.00	11,750.09	12,575.25	10,507.21	32.67	48.41	46.55	2,075.45	1,865.99	1,807.28	1,736.95	70.34	25.694								
13,900.00	11,749.22	12,671.40	10,502.94	33.85	49.34	46.34	2,171.27	1,859.27	1,805.30	1,733.51	71.79	25.147								
14,000.00	11,748.34	12,781.19	10,497.69	35.04	50.43	46.09	2,280.63	1,851.11	1,803.27	1,729.98	73.29	24.604								
14,100.00	11,747.47	12,884.43	10,492.91	36.24	51.47	45.82	2,383.39	1,842.35	1,800.39	1,725.61	74.79	24.073								
14,200.00	11,746.60	12,964.29	10,488.34	37.46	52.30	45.60	2,462.83	1,835.64	1,798.37	1,722.14	76.23	23.590								
14,300.00	11,745.73	13,055.04	10,482.01	38.68	53.26	45.33	2,553.05	1,828.21	1,797.40	1,719.70	77.70	23.131								
14,400.00	11,744.85	13,173.27	10,476.51	39.92	54.52	45.06	2,670.86	1,819.89	1,795.63	1,716.33	79.30	22.643								
14,500.00	11,743.98	13,253.93	10,473.59	41.16	55.39	44.92	2,751.32	1,815.13	1,794.06	1,713.23	80.83	22.195								
14,545.55	11,743.58	13,284.38	10,472.34	41.73	55.73	44.87	2,781.72	1,813.70	1,793.87	1,712.36	81.51	22.007								
14,600.00	11,743.11	13,316.00	10,470.92	42.41	56.07	44.82	2,813.28	1,812.46	1,794.16	1,711.85	82.31	21.798								
14,700.00	11,742.23	13,384.71	10,467.38	43.67	56.83	44.73	2,881.88	1,810.80	1,796.17	1,712.35	83.82	21.430								
14,800.00	11,741.36	13,478.01	10,462.34	44.93	57.86	44.65	2,975.04	1,810.45	1,799.70	1,714.24	85.46	21.059								
14,900.00	11,740.49	13,681.84	10,462.49	46.21	60.14	44.74	3,178.79	1,810.63	1,799.18	1,711.42	87.76	20.500								
15,000.00	11,739.62	13,769.69	10,465.23	47.48	61.14	44.84	3,266.59	1,810.73	1,797.06	1,707.49	89.57	20.064								
15,100.00	11,738.74	13,860.95	10,467.48	48.76	62.19	44.93	3,357.83	1,811.18	1,795.65	1,704.25	91.40	19.646								

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Cosmo K 24S35E3328 #113H - OH - OH

Survey Program: 151-3_MWD+HRGM		Offset Design: Coonskin Fee Pad - (O) Cosmo K 24S35E3328 #113H - OH - OH		Offset Site Error: 0.00 usft									
Reference		Offset		Offset Well Error: 0.00 usft									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)								
				Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)								
					+E/-W (usft)								
					Distance Between Centres (usft)								
					Between Ellipses (usft)								
					Minimum Separation (usft)								
					Separation Factor								
					Warning								
15,200.00	11,737.87	13,940.55	10,469.12	50.05	63.11	45.02	3,437.40	1,811.98	1,794.92	1,701.73	93.19	19.261	
15,205.03	11,737.83	13,944.33	10,469.17	50.11	63.15	45.02	3,441.19	1,812.03	1,794.92	1,701.64	93.28	19.242	
15,300.00	11,737.00	14,022.12	10,469.71	51.34	64.05	45.09	3,518.96	1,813.20	1,795.45	1,700.46	94.99	18.902	
15,400.00	11,736.13	14,114.98	10,469.53	52.64	65.14	45.16	3,611.81	1,814.66	1,796.69	1,699.85	96.85	18.552	
15,500.00	11,735.25	14,225.89	10,469.43	53.93	66.45	45.24	3,722.71	1,816.43	1,797.91	1,699.08	98.83	18.192	
15,600.00	11,734.38	14,327.96	10,470.32	55.24	67.66	45.33	3,824.76	1,818.07	1,798.43	1,697.63	100.80	17.841	
15,700.00	11,733.51	14,417.31	10,470.38	56.54	68.73	45.40	3,914.11	1,819.25	1,799.34	1,696.65	102.69	17.522	
15,800.00	11,732.64	14,506.13	10,469.84	57.85	69.81	45.45	4,002.91	1,820.65	1,800.89	1,696.31	104.58	17.221	
15,900.00	11,731.76	14,591.75	10,468.73	59.16	70.85	45.49	4,088.50	1,822.18	1,803.10	1,696.65	106.44	16.940	
16,000.00	11,730.89	14,674.27	10,466.91	60.47	71.85	45.53	4,170.99	1,824.01	1,806.23	1,697.95	108.28	16.681	
16,100.00	11,730.02	14,755.88	10,464.25	61.79	72.86	45.54	4,252.53	1,826.08	1,810.34	1,700.23	110.11	16.442	
16,200.00	11,729.15	14,836.95	10,460.59	63.11	73.86	45.54	4,333.48	1,828.38	1,815.52	1,703.62	111.91	16.224	
16,300.00	11,728.27	14,938.76	10,455.12	64.43	75.13	45.52	4,435.11	1,831.06	1,821.18	1,707.33	113.84	15.997	
16,400.00	11,727.40	15,052.08	10,449.19	65.75	76.55	45.48	4,548.25	1,833.46	1,826.36	1,710.50	115.86	15.763	
16,500.00	11,726.53	15,171.81	10,443.24	67.08	78.06	45.43	4,667.82	1,834.90	1,830.73	1,712.82	117.91	15.526	
16,600.00	11,725.65	15,315.33	10,440.45	68.40	79.87	45.48	4,811.28	1,837.55	1,833.48	1,713.26	120.23	15.250	
16,700.00	11,724.78	15,453.20	10,444.29	69.73	81.62	45.69	4,949.04	1,840.88	1,833.06	1,710.40	122.66	14.944	
16,800.00	11,723.91	15,547.30	10,448.70	71.06	82.82	45.90	5,042.97	1,844.48	1,832.55	1,707.66	124.88	14.674	
16,900.00	11,723.04	15,672.63	10,455.02	72.39	84.42	46.20	5,168.05	1,849.20	1,831.84	1,704.48	127.37	14.383	
17,000.00	11,722.16	15,799.01	10,461.60	73.72	86.05	46.43	5,294.25	1,850.78	1,829.12	1,699.33	129.79	14.093	
17,100.00	11,721.29	15,884.26	10,464.94	75.06	87.16	46.53	5,379.43	1,850.60	1,826.31	1,694.41	131.90	13.846	
17,200.00	11,720.42	15,964.00	10,466.45	76.39	88.19	46.59	5,459.15	1,850.26	1,824.68	1,690.75	133.93	13.624	
17,300.00	11,719.55	16,070.38	10,467.80	77.73	89.58	46.65	5,565.52	1,849.68	1,823.46	1,687.37	136.09	13.399	
17,400.00	11,718.67	16,171.77	10,469.83	79.07	90.91	46.73	5,666.89	1,849.20	1,821.77	1,683.52	138.25	13.177	
17,500.00	11,717.80	16,247.00	10,471.14	80.40	91.90	46.78	5,742.11	1,848.93	1,820.46	1,680.19	140.27	12.978	
17,600.00	11,716.93	16,342.00	10,470.97	81.74	93.15	46.80	5,837.10	1,848.51	1,820.29	1,677.95	142.35	12.788	
17,600.37	11,716.92	16,342.00	10,470.97	81.75	93.15	46.80	5,837.10	1,848.51	1,820.29	1,677.94	142.35	12.787	
17,700.00	11,716.06	16,412.97	10,469.46	83.08	94.08	46.79	5,908.05	1,848.23	1,821.38	1,677.15	144.23	12.629	
17,800.00	11,715.18	16,500.88	10,466.92	84.43	95.25	46.76	5,995.92	1,848.14	1,823.31	1,677.12	146.18	12.473	
17,900.00	11,714.31	16,586.97	10,463.83	85.77	96.39	46.73	6,081.97	1,848.24	1,825.89	1,677.78	148.11	12.328	
18,000.00	11,713.44	16,672.18	10,459.68	87.11	97.52	46.67	6,167.07	1,848.27	1,829.30	1,679.31	149.99	12.196	
18,100.00	11,712.56	16,761.91	10,454.48	88.46	98.72	46.59	6,256.65	1,848.45	1,833.45	1,681.58	151.87	12.072	
18,200.00	11,711.69	16,802.00	10,452.11	89.80	99.25	46.55	6,296.67	1,848.59	1,838.78	1,685.47	153.31	11.994	SF
18,300.00	11,710.82	16,802.00	10,452.11	91.15	99.25	46.55	6,296.67	1,848.59	1,849.08	1,694.97	154.11	11.999	
18,400.00	11,709.95	16,802.00	10,452.11	92.49	99.25	46.55	6,296.67	1,848.59	1,864.69	1,710.17	154.52	12.068	
18,500.00	11,709.07	16,802.00	10,452.11	93.84	99.25	46.55	6,296.67	1,848.59	1,885.49	1,730.92	154.57	12.198	
18,600.00	11,708.20	16,802.00	10,452.11	95.19	99.25	46.55	6,296.67	1,848.59	1,911.29	1,757.01	154.28	12.389	
18,700.00	11,707.33	16,802.00	10,452.11	96.54	99.25	46.55	6,296.67	1,848.59	1,941.91	1,788.23	153.68	12.636	
18,800.00	11,706.46	16,802.00	10,452.11	97.89	99.25	46.55	6,296.67	1,848.59	1,977.12	1,824.31	152.81	12.939	
18,900.00	11,705.58	16,802.00	10,452.11	99.24	99.25	46.55	6,296.67	1,848.59	2,016.67	1,864.98	151.70	13.294	
19,000.00	11,704.71	16,802.00	10,452.11	100.59	99.25	46.55	6,296.67	1,848.59	2,060.33	1,909.94	150.39	13.700	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Cosmo K 24S35E3328 Fee 133H - OH - OH

Survey Program: 34-3_Gyro-NS_OWSG, 11460-3_MWD+HRGM										Rule Assigned:		Offset Site Error:	
Reference										Offset Well Error:		0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	10.50	0.00	0.00	88.72	44.00	1,968.00	1,968.52				
100.00	100.00	82.62	93.12	0.84	0.18	88.72	44.00	1,968.09	1,968.60	1,967.57	1.03	1,915.161	
200.00	200.00	171.70	182.20	1.48	0.50	88.72	44.01	1,968.66	1,969.24	1,967.26	1.98	996.988	
300.00	300.00	268.28	278.77	1.92	0.83	88.71	44.24	1,969.71	1,970.32	1,967.57	2.75	715.972	
400.00	400.00	374.65	385.13	2.28	1.21	88.70	44.86	1,970.68	1,971.25	1,967.77	3.48	565.970	
500.00	500.00	474.04	484.52	2.59	1.56	88.68	45.54	1,971.36	1,971.95	1,967.81	4.14	476.009	
600.00	600.00	577.41	587.88	2.87	1.92	88.65	46.34	1,972.14	1,972.72	1,967.93	4.78	412.288	
700.00	700.00	679.18	689.65	3.12	2.27	88.63	47.13	1,972.67	1,973.26	1,967.86	5.40	365.548	
800.00	800.00	759.80	770.26	3.23	2.56	-20.96	48.16	1,973.38	1,973.89	1,968.10	5.79	341.051	
900.00	899.96	841.06	851.48	3.51	2.84	-21.04	49.98	1,974.99	1,973.47	1,967.13	6.34	311.211	
1,000.00	999.82	929.11	939.47	3.77	3.16	-21.16	52.26	1,977.41	1,971.40	1,964.49	6.91	285.425	
1,100.00	1,099.51	1,025.30	1,035.58	4.02	3.50	-21.35	55.03	1,980.42	1,967.29	1,959.79	7.49	262.546	
1,200.00	1,198.96	1,133.56	1,143.73	4.27	3.89	-21.60	58.62	1,983.68	1,960.67	1,952.55	8.12	241.569	
1,300.00	1,298.11	1,259.70	1,269.78	4.43	4.33	-21.93	62.30	1,986.32	1,950.78	1,942.06	8.72	223.630	
1,400.00	1,397.13	1,380.96	1,391.01	4.62	4.75	-22.20	64.97	1,987.05	1,938.51	1,929.17	9.34	207.512	
1,500.00	1,496.16	1,471.18	1,481.19	4.82	5.07	-22.42	67.59	1,987.47	1,926.20	1,916.35	9.85	195.498	
1,600.00	1,595.19	1,566.05	1,576.01	5.01	5.40	-22.66	70.62	1,988.11	1,914.17	1,903.79	10.38	184.380	
1,700.00	1,694.22	1,653.98	1,663.89	5.20	5.71	-22.89	73.48	1,989.12	1,902.63	1,891.75	10.89	174.764	
1,800.00	1,793.24	1,746.38	1,756.23	5.40	6.03	-23.12	76.27	1,990.58	1,891.55	1,880.15	11.41	165.813	
1,900.00	1,892.27	1,834.04	1,843.85	5.59	6.34	-23.33	78.43	1,992.45	1,881.01	1,869.10	11.91	157.909	
2,000.00	1,991.30	1,927.75	1,937.51	5.79	6.67	-23.55	80.48	1,994.87	1,870.93	1,858.50	12.44	150.428	
2,100.00	2,090.33	2,017.00	2,026.69	5.98	6.98	-23.76	82.47	1,997.56	1,861.32	1,848.37	12.95	143.756	
2,200.00	2,189.35	2,120.34	2,129.96	6.17	7.34	-24.00	84.53	2,000.84	1,851.87	1,838.37	13.51	137.102	
2,300.00	2,288.38	2,222.73	2,232.28	6.37	7.70	-24.22	86.05	2,004.03	1,842.37	1,828.31	14.06	131.006	
2,400.00	2,387.41	2,343.49	2,353.01	6.56	8.12	-24.45	86.66	2,006.78	1,831.94	1,817.26	14.68	124.782	
2,500.00	2,486.44	2,445.62	2,455.13	6.76	8.48	-24.63	86.77	2,008.59	1,821.02	1,805.79	15.24	119.524	
2,600.00	2,585.46	2,542.92	2,552.41	6.95	8.82	-24.80	86.68	2,010.29	1,810.09	1,794.32	15.77	114.750	
2,700.00	2,684.49	2,651.61	2,661.08	7.15	9.20	-24.98	85.88	2,012.23	1,799.16	1,782.81	16.35	110.039	
2,800.00	2,783.52	2,758.86	2,768.29	7.35	9.57	-25.11	83.70	2,013.52	1,787.54	1,770.62	16.92	105.640	
2,900.00	2,882.55	2,859.18	2,868.58	7.54	9.92	-25.22	81.29	2,014.56	1,775.72	1,758.26	17.47	101.648	
3,000.00	2,981.57	2,955.64	2,965.01	7.74	10.26	-25.32	78.91	2,015.62	1,763.97	1,745.97	18.01	97.969	
3,100.00	3,080.60	3,091.90	3,101.22	7.94	10.74	-25.47	75.35	2,016.17	1,751.63	1,732.96	18.66	93.849	
3,200.00	3,179.63	3,259.65	3,268.75	8.14	11.32	-25.61	68.85	2,011.25	1,735.66	1,716.26	19.40	89.475	
3,300.00	3,278.66	3,382.22	3,391.02	8.34	11.75	-25.68	63.02	2,004.84	1,717.51	1,697.52	20.00	85.882	
3,400.00	3,377.68	3,496.53	3,504.90	8.54	12.16	-25.73	56.77	1,997.17	1,697.78	1,677.20	20.58	82.514	
3,500.00	3,476.71	3,595.37	3,603.36	8.74	12.52	-25.79	51.59	1,990.21	1,677.77	1,656.65	21.12	79.458	
3,600.00	3,575.74	3,681.16	3,688.84	8.94	12.83	-25.84	47.36	1,984.35	1,658.01	1,636.39	21.62	76.672	
3,700.00	3,674.77	3,765.05	3,772.48	9.14	13.12	-25.89	43.07	1,979.43	1,639.17	1,617.04	22.13	74.070	
3,800.00	3,773.79	3,846.84	3,854.07	9.34	13.41	-25.94	39.04	1,975.30	1,621.16	1,598.53	22.63	71.637	
3,900.00	3,872.82	3,928.56	3,935.60	9.54	13.70	-25.97	34.44	1,972.25	1,604.34	1,581.21	23.13	69.360	
4,000.00	3,971.85	4,030.01	4,036.68	9.75	14.06	-25.91	26.45	1,969.16	1,587.97	1,564.28	23.69	67.041	
4,100.00	4,070.88	4,206.12	4,211.71	9.95	14.70	-25.71	9.22	1,960.43	1,569.98	1,545.56	24.42	64.287	
4,200.00	4,169.90	4,318.61	4,323.25	10.15	15.12	-25.56	-2.29	1,951.52	1,548.69	1,523.69	25.00	61.951	
4,300.00	4,268.93	4,490.03	4,492.90	10.36	15.77	-25.48	-16.81	1,931.88	1,524.09	1,498.44	25.65	59.409	
4,400.00	4,367.96	4,595.68	4,597.22	10.56	16.17	-25.54	-22.99	1,916.40	1,496.61	1,470.41	26.20	57.132	
4,500.00	4,466.99	4,679.11	4,679.71	10.77	16.49	-25.69	-25.59	1,904.17	1,469.38	1,442.67	26.71	55.007	
4,600.00	4,566.01	4,755.50	4,755.33	10.97	16.77	-25.86	-27.06	1,893.48	1,442.99	1,415.77	27.22	53.010	
4,700.00	4,665.04	4,808.84	4,808.29	11.17	16.96	-25.98	-28.08	1,887.18	1,418.82	1,391.13	27.70	51.229	
4,800.00	4,764.07	4,864.74	4,863.99	11.38	17.16	-26.08	-29.42	1,882.66	1,397.96	1,369.80	28.16	49.645	
4,900.00	4,863.10	4,959.13	4,958.12	11.58	17.50	-26.23	-32.44	1,876.54	1,378.71	1,350.02	28.69	48.051	
5,000.00	4,962.12	5,088.79	5,087.20	11.79	17.96	-26.34	-39.05	1,866.26	1,357.75	1,328.45	29.29	46.351	
5,100.00	5,061.15	5,188.76	5,186.61	11.99	18.32	-26.39	-45.13	1,857.57	1,336.05	1,306.21	29.84	44.774	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Cosmo K 24S35E3328 Fee 133H - OH - OH

Survey Program: 34-3_Gyro-NS_OWSG, 11460-3_MWD+HRGM										Rule Assigned:		Offset Site Error:	0.00 usft
Reference										Offset Well Error:		0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,160.27	5,286.54	5,283.73	12.17	18.68	-26.24	-52.74	1,849.17	1,314.86	1,284.50	30.36	43.309	
5,300.00	5,259.69	5,383.51	5,379.93	12.35	19.04	-25.96	-61.79	1,841.07	1,295.95	1,265.04	30.91	41.927	
5,400.00	5,359.35	5,484.55	5,480.16	12.52	19.41	-25.62	-71.47	1,832.65	1,279.36	1,247.91	31.46	40.670	
5,500.00	5,459.20	5,585.01	5,579.77	12.68	19.78	-25.23	-81.20	1,824.05	1,264.90	1,232.90	31.99	39.536	
5,600.00	5,559.15	5,684.41	5,678.32	12.83	20.15	-24.79	-91.05	1,815.51	1,252.76	1,220.24	32.51	38.531	
5,700.00	5,659.15	5,781.21	5,774.27	12.87	20.51	85.22	-100.86	1,807.27	1,242.91	1,209.99	32.92	37.757	
5,800.00	5,759.15	5,878.52	5,870.71	12.92	20.87	85.66	-110.95	1,799.18	1,233.77	1,200.43	33.33	37.012	
5,900.00	5,859.15	5,977.64	5,968.94	12.98	21.24	86.12	-121.42	1,791.04	1,224.77	1,191.02	33.75	36.286	
6,000.00	5,959.15	6,073.51	6,063.94	13.03	21.59	86.58	-131.68	1,783.29	1,215.97	1,181.80	34.17	35.588	
6,100.00	6,059.15	6,163.81	6,153.49	13.08	21.92	87.00	-141.07	1,776.41	1,207.75	1,173.18	34.57	34.934	
6,200.00	6,159.15	6,261.64	6,250.64	13.14	22.28	87.42	-150.14	1,769.36	1,200.06	1,165.08	34.99	34.301	
6,300.00	6,259.15	6,357.27	6,345.69	13.19	22.62	87.79	-158.20	1,762.59	1,192.61	1,157.22	35.39	33.696	
6,400.00	6,359.15	6,455.20	6,443.03	13.25	22.97	88.19	-166.55	1,755.93	1,185.49	1,149.68	35.81	33.108	
6,500.00	6,459.15	6,552.92	6,540.16	13.30	23.33	88.59	-175.04	1,749.41	1,178.55	1,142.33	36.22	32.539	
6,600.00	6,559.15	6,649.31	6,635.98	13.36	23.67	88.99	-183.48	1,743.14	1,171.84	1,135.21	36.63	31.992	
6,700.00	6,659.15	6,747.83	6,733.91	13.41	24.03	89.42	-192.31	1,736.87	1,165.33	1,128.29	37.04	31.458	
6,800.00	6,759.15	6,841.72	6,827.23	13.47	24.36	89.85	-200.94	1,731.22	1,159.22	1,121.77	37.45	30.954	
6,900.00	6,859.15	6,943.47	6,928.40	13.52	24.73	90.29	-209.90	1,725.14	1,153.24	1,115.37	37.87	30.451	
7,000.00	6,959.15	7,039.06	7,023.47	13.58	25.07	90.71	-218.11	1,719.55	1,147.44	1,109.16	38.28	29.976	
7,100.00	7,059.15	7,134.96	7,118.88	13.64	25.41	91.12	-226.26	1,714.21	1,141.99	1,103.30	38.69	29.519	
7,200.00	7,159.15	7,224.99	7,208.46	13.69	25.73	91.51	-233.90	1,709.67	1,137.13	1,098.05	39.08	29.099	
7,300.00	7,259.15	7,306.10	7,289.29	13.75	26.01	91.82	-239.92	1,706.68	1,133.65	1,094.21	39.44	28.745	
7,400.00	7,359.15	7,411.35	7,394.31	13.81	26.38	92.13	-246.05	1,703.39	1,130.72	1,090.85	39.86	28.366	
7,500.00	7,459.15	7,508.86	7,491.69	13.87	26.71	92.34	-250.09	1,700.35	1,127.76	1,087.50	40.26	28.011	
7,600.00	7,559.15	7,610.80	7,593.56	13.93	27.06	92.45	-252.06	1,697.17	1,124.72	1,084.05	40.67	27.653	
7,700.00	7,659.15	7,703.90	7,686.62	13.98	27.38	92.48	-252.51	1,694.50	1,121.89	1,080.83	41.06	27.326	
7,800.00	7,759.15	7,791.25	7,773.95	14.04	27.68	92.48	-252.41	1,692.91	1,120.06	1,078.64	41.42	27.043	
7,900.00	7,859.15	7,886.13	7,868.83	14.10	28.00	92.47	-252.12	1,691.86	1,118.94	1,077.14	41.80	26.767	
8,000.00	7,959.15	7,977.59	7,960.28	14.16	28.31	92.48	-252.31	1,691.43	1,118.47	1,076.29	42.18	26.519	
8,019.06	7,978.21	7,995.52	7,978.22	14.17	28.37	92.48	-252.38	1,691.41	1,118.46	1,076.21	42.25	26.473	
8,100.00	8,059.15	8,071.73	8,054.43	14.22	28.63	92.49	-252.57	1,691.57	1,118.63	1,076.08	42.56	26.286	
8,200.00	8,159.15	8,166.72	8,149.41	14.28	28.96	92.49	-252.55	1,692.20	1,119.29	1,076.35	42.94	26.067	
8,300.00	8,259.15	8,264.48	8,247.17	14.34	29.29	92.47	-252.32	1,693.17	1,120.27	1,076.94	43.33	25.853	
8,400.00	8,359.15	8,363.70	8,346.38	14.40	29.63	92.45	-251.89	1,694.28	1,121.37	1,077.64	43.73	25.642	
8,500.00	8,459.15	8,462.86	8,445.53	14.46	29.97	92.41	-251.21	1,695.49	1,122.56	1,078.43	44.13	25.438	
8,600.00	8,559.15	8,562.16	8,544.82	14.52	30.31	92.36	-250.25	1,696.73	1,123.78	1,079.25	44.53	25.237	
8,700.00	8,659.15	8,660.75	8,643.39	14.58	30.64	92.29	-249.02	1,698.15	1,125.16	1,080.23	44.93	25.044	
8,800.00	8,759.15	8,762.32	8,744.94	14.65	30.99	92.23	-247.83	1,699.55	1,126.49	1,081.16	45.34	24.848	
8,900.00	8,859.15	8,862.07	8,844.68	14.71	31.33	92.18	-246.87	1,700.81	1,127.72	1,081.98	45.74	24.656	
9,000.00	8,959.15	8,958.93	8,941.53	14.77	31.67	92.14	-246.23	1,702.20	1,129.12	1,082.99	46.13	24.477	
9,100.00	9,059.15	9,058.81	9,041.39	14.83	32.01	92.11	-245.71	1,703.86	1,130.77	1,084.24	46.53	24.301	
9,200.00	9,159.15	9,163.19	9,145.76	14.89	32.37	92.11	-245.63	1,705.32	1,132.16	1,085.21	46.95	24.112	
9,300.00	9,259.15	9,264.29	9,246.86	14.96	32.71	92.13	-246.02	1,706.40	1,133.25	1,085.88	47.36	23.926	
9,400.00	9,359.15	9,375.58	9,358.14	15.02	33.09	92.18	-247.10	1,707.14	1,133.96	1,086.15	47.81	23.716	
9,500.00	9,459.15	9,499.08	9,481.62	15.08	33.52	92.27	-248.90	1,705.81	1,132.92	1,084.61	48.31	23.453	
9,600.00	9,559.15	9,608.09	9,590.58	15.15	33.90	92.36	-250.55	1,703.11	1,130.51	1,081.76	48.75	23.192	
9,700.00	9,659.15	9,715.13	9,697.55	15.21	34.26	92.46	-252.35	1,699.72	1,127.42	1,078.24	49.18	22.924	
9,800.00	9,759.15	9,824.07	9,806.38	15.28	34.64	92.59	-254.82	1,695.50	1,123.65	1,074.03	49.62	22.645	
9,900.00	9,859.15	9,936.33	9,918.44	15.34	35.03	92.79	-258.38	1,690.02	1,118.92	1,068.85	50.07	22.346	
10,000.00	9,959.15	10,038.91	10,020.81	15.40	35.39	92.97	-261.56	1,684.25	1,113.45	1,062.95	50.50	22.051	
10,100.00	10,059.15	10,128.53	10,110.28	15.47	35.70	93.10	-263.83	1,679.55	1,108.35	1,057.47	50.88	21.785	
10,200.00	10,159.15	10,211.37	10,193.04	15.53	35.99	93.20	-265.59	1,676.24	1,104.48	1,053.25	51.23	21.559	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Cosmo K 24S35E3328 Fee 133H - OH - OH

Survey Program: 34-3_Gyro-NS_OWSG, 11460-3_MWD+HRGM										Rule Assigned:		Offset Site Error:	
												Offset Well Error:	
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
10,300.00	10,259.15	10,297.25	10,278.88	15.60	36.29	93.25	-266.48	1,674.14	1,102.09	1,050.50	51.59	21.362	
10,400.00	10,359.15	10,389.79	10,371.41	15.67	36.60	93.23	-266.06	1,672.90	1,100.72	1,048.75	51.97	21.179	
10,500.00	10,459.15	10,488.72	10,470.33	15.73	36.94	93.19	-265.26	1,671.95	1,099.71	1,047.33	52.38	20.995	
10,600.00	10,559.15	10,589.43	10,571.04	15.80	37.29	93.17	-264.73	1,670.92	1,098.66	1,045.87	52.79	20.811	
10,700.00	10,659.15	10,692.62	10,674.22	15.86	37.65	93.17	-264.60	1,669.68	1,097.46	1,044.25	53.21	20.624	
10,800.00	10,759.15	10,796.28	10,777.87	15.93	38.00	93.16	-264.44	1,668.09	1,095.92	1,042.28	53.64	20.432	
10,900.00	10,859.15	10,901.03	10,882.60	16.00	38.36	93.15	-264.05	1,666.09	1,093.99	1,039.92	54.07	20.234	
11,000.00	10,959.15	11,003.71	10,985.25	16.06	38.72	93.12	-263.31	1,663.77	1,091.69	1,037.20	54.49	20.035	
11,100.00	11,059.15	11,101.22	11,082.73	16.13	39.05	93.06	-262.21	1,661.57	1,089.38	1,034.49	54.89	19.846	
11,200.00	11,159.15	11,195.66	11,177.14	16.20	39.38	93.01	-261.16	1,659.82	1,087.47	1,032.19	55.28	19.672	
11,300.00	11,259.00	11,290.95	11,272.43	16.28	39.71	93.73	-260.12	1,658.54	1,086.32	1,030.68	55.63	19.526	
11,334.77	11,293.38	11,325.32	11,306.79	16.32	39.82	93.99	-259.80	1,658.13	1,086.23	1,030.48	55.75	19.483	CC, ES
11,400.00	11,356.78	11,389.37	11,370.83	16.40	40.00	94.72	-259.35	1,657.36	1,086.59	1,030.65	55.93	19.427	
11,500.00	11,449.54	11,483.98	11,465.44	16.52	40.13	96.30	-258.96	1,656.06	1,088.94	1,032.89	56.04	19.430	
11,600.00	11,534.47	11,574.52	11,555.96	16.63	40.13	98.21	-259.05	1,654.55	1,094.86	1,038.80	56.06	19.531	
11,700.00	11,608.98	11,655.29	11,636.71	16.75	40.14	99.91	-259.62	1,652.60	1,105.99	1,049.86	56.13	19.704	
11,800.00	11,670.81	11,806.86	11,786.23	16.89	40.16	103.79	-240.17	1,647.53	1,121.44	1,065.16	56.28	19.926	
11,900.00	11,718.09	11,860.00	11,836.97	17.06	40.16	103.52	-224.46	1,646.96	1,143.11	1,086.58	56.54	20.219	
12,000.00	11,749.36	12,252.31	12,139.36	17.30	40.35	111.98	13.74	1,645.37	1,165.46	1,108.83	56.63	20.581	
12,100.00	11,763.70	12,496.95	12,239.55	17.63	40.70	114.20	235.33	1,641.27	1,177.19	1,120.09	57.10	20.617	
12,200.00	11,764.05	12,629.09	12,264.89	18.04	41.04	115.05	364.84	1,639.35	1,184.41	1,126.75	57.67	20.539	
12,300.00	11,763.18	12,819.22	12,267.27	18.54	41.68	115.13	554.77	1,642.24	1,187.17	1,128.60	58.57	20.270	
12,400.00	11,762.31	12,995.81	12,258.06	19.13	42.45	114.84	731.04	1,638.58	1,184.77	1,125.13	59.64	19.865	
12,500.00	11,761.43	13,088.00	12,250.90	19.79	42.91	114.63	822.85	1,634.25	1,178.39	1,117.81	60.58	19.452	
12,600.00	11,760.56	13,164.73	12,245.56	20.52	43.32	114.46	899.34	1,631.42	1,173.26	1,111.69	61.57	19.055	
12,700.00	11,759.69	13,243.66	12,241.72	21.32	43.77	114.35	978.14	1,629.30	1,169.95	1,107.29	62.66	18.672	
12,800.00	11,758.82	13,334.51	12,238.70	22.16	44.31	114.27	1,068.93	1,627.73	1,168.14	1,104.26	63.87	18.288	
12,900.00	11,757.94	13,420.87	12,235.95	23.06	44.86	114.19	1,155.24	1,626.65	1,166.88	1,101.73	65.15	17.910	
12,925.71	11,757.72	13,441.15	12,235.77	23.31	44.99	114.19	1,175.51	1,626.43	1,166.82	1,101.34	65.48	17.818	
13,000.00	11,757.07	13,504.23	12,236.25	24.01	45.41	114.23	1,238.59	1,625.82	1,167.24	1,100.77	66.47	17.560	
13,100.00	11,756.20	13,584.87	12,237.55	24.99	45.97	114.32	1,319.22	1,625.54	1,168.80	1,100.97	67.83	17.232	
13,200.00	11,755.32	13,653.00	12,239.27	26.01	46.45	114.38	1,387.31	1,626.96	1,172.85	1,103.69	69.16	16.958	
13,300.00	11,754.45	13,719.93	12,241.25	27.06	46.94	114.41	1,454.13	1,630.23	1,179.65	1,109.12	70.53	16.726	
13,400.00	11,753.58	13,784.95	12,243.52	28.14	47.43	114.43	1,518.92	1,635.16	1,189.16	1,117.27	71.90	16.540	
13,500.00	11,752.71	13,854.46	12,247.96	29.24	47.96	114.50	1,587.95	1,641.91	1,201.69	1,128.39	73.30	16.395	
13,600.00	11,751.83	13,966.79	12,254.73	30.36	48.84	114.60	1,699.53	1,653.02	1,214.29	1,139.22	75.08	16.174	
13,700.00	11,750.96	14,053.60	12,258.95	31.51	49.55	114.62	1,785.74	1,662.28	1,227.17	1,150.47	76.70	15.999	
13,800.00	11,750.09	14,145.72	12,262.81	32.67	50.32	114.58	1,877.08	1,673.56	1,241.17	1,162.74	78.43	15.825	
13,900.00	11,749.22	14,281.39	12,266.65	33.85	51.50	114.48	2,011.86	1,688.51	1,253.46	1,172.82	80.63	15.545	
14,000.00	11,748.34	14,417.73	12,268.00	35.04	52.73	114.33	2,147.64	1,700.72	1,263.21	1,180.31	82.90	15.238	
14,100.00	11,747.47	14,532.69	12,272.40	36.24	53.81	114.42	2,262.32	1,707.19	1,271.11	1,186.17	84.94	14.965	
14,200.00	11,746.60	14,646.19	12,270.35	37.46	54.90	114.23	2,375.56	1,714.18	1,277.07	1,189.98	87.09	14.663	
14,300.00	11,745.73	14,739.48	12,268.96	38.68	55.82	114.09	2,468.68	1,719.62	1,282.96	1,193.86	89.09	14.400	
14,400.00	11,744.85	14,814.26	12,273.51	39.92	56.56	114.23	2,543.23	1,722.72	1,290.37	1,199.55	90.83	14.207	
14,500.00	11,743.98	14,901.00	12,284.74	41.16	57.44	114.66	2,629.20	1,724.99	1,299.31	1,206.75	92.55	14.039	
14,600.00	11,743.11	15,171.34	12,323.51	42.41	60.24	116.49	2,896.27	1,712.67	1,303.06	1,207.85	95.21	13.686	
14,700.00	11,742.23	15,443.32	12,332.32	43.67	63.21	117.76	3,163.79	1,669.18	1,288.40	1,191.16	97.23	13.250	
14,800.00	11,741.36	15,499.27	12,328.15	44.93	63.84	117.78	3,218.96	1,660.87	1,273.21	1,173.94	99.27	12.825	
14,900.00	11,740.49	15,561.00	12,324.46	46.21	64.53	117.77	3,280.28	1,654.89	1,262.44	1,161.13	101.31	12.461	
15,000.00	11,739.62	15,614.25	12,321.03	47.48	65.14	117.71	3,333.33	1,651.84	1,254.84	1,151.54	103.30	12.148	
15,100.00	11,738.74	15,682.30	12,314.83	48.76	65.91	117.51	3,401.06	1,649.74	1,249.20	1,143.81	105.39	11.853	
15,200.00	11,737.87	15,750.00	12,309.54	50.05	66.68	117.29	3,468.54	1,650.46	1,247.32	1,139.86	107.46	11.607	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Cosmo K 24S35E3328 Fee 133H - OH - OH

Survey Program: 34-3_Gyro-NS_OWSG, 11460-3_MWD+HRGM										Rule Assigned:		Offset Site Error:	0.00 usft
												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,217.67	11,737.72	15,750.00	12,309.54	50.28	66.68	117.29	3,468.54	1,650.46	1,247.19	1,139.49	107.71	11.580	
15,300.00	11,737.00	15,812.86	12,305.56	51.34	67.40	117.09	3,531.24	1,652.61	1,248.17	1,138.72	109.45	11.404	
15,400.00	11,736.13	15,937.48	12,299.39	52.64	68.84	116.80	3,655.65	1,655.45	1,249.22	1,137.17	112.05	11.149	
15,500.00	11,735.25	16,092.44	12,294.63	53.93	70.67	116.72	3,810.48	1,651.62	1,246.89	1,132.17	114.72	10.869	
15,600.00	11,734.38	16,205.25	12,290.89	55.24	72.02	116.72	3,922.97	1,644.80	1,241.11	1,124.08	117.03	10.605	
15,700.00	11,733.51	16,285.44	12,285.04	56.54	72.98	116.55	4,002.88	1,642.06	1,235.97	1,116.68	119.29	10.361	
15,800.00	11,732.64	16,412.37	12,279.99	57.85	74.52	116.49	4,129.52	1,636.24	1,231.42	1,109.67	121.75	10.114	
15,900.00	11,731.76	16,503.00	12,270.80	59.16	75.62	116.18	4,219.64	1,633.34	1,225.22	1,101.01	124.20	9.864	
16,000.00	11,730.89	16,555.56	12,266.63	60.47	76.26	116.03	4,272.02	1,632.40	1,221.38	1,095.07	126.31	9.670	
16,029.96	11,730.63	16,570.52	12,266.06	60.87	76.45	116.01	4,286.96	1,632.30	1,221.04	1,094.14	126.89	9.622	
16,100.00	11,730.02	16,597.00	12,265.72	61.79	76.77	116.00	4,313.44	1,632.28	1,221.72	1,093.64	128.08	9.539	
16,200.00	11,729.15	16,657.64	12,267.36	63.11	77.51	116.06	4,374.04	1,633.34	1,225.92	1,096.08	129.84	9.442	
16,300.00	11,728.27	16,729.64	12,272.77	64.43	78.39	116.24	4,445.77	1,636.24	1,233.81	1,102.23	131.58	9.377	
16,400.00	11,727.40	17,099.30	12,273.81	65.75	83.00	116.90	4,812.68	1,610.47	1,221.91	1,086.55	135.36	9.027	
16,500.00	11,726.53	17,170.00	12,265.41	67.08	83.90	116.67	4,882.65	1,605.00	1,210.49	1,072.59	137.90	8.778	
16,600.00	11,725.65	17,227.01	12,259.86	68.40	84.62	116.51	4,939.30	1,601.82	1,201.87	1,061.54	140.32	8.565	
16,700.00	11,724.78	17,294.83	12,254.01	69.73	85.49	116.33	5,006.81	1,599.06	1,195.62	1,052.92	142.70	8.379	
16,800.00	11,723.91	17,359.00	12,250.81	71.06	86.30	116.24	5,070.88	1,597.67	1,192.53	1,047.62	144.91	8.229	
16,900.00	11,723.04	17,453.00	12,248.27	72.39	87.51	116.17	5,164.84	1,596.27	1,191.16	1,043.87	147.29	8.087	
17,000.00	11,722.16	17,539.95	12,248.16	73.72	88.62	116.23	5,251.76	1,594.40	1,190.36	1,040.85	149.51	7.962	
17,016.40	11,722.02	17,554.54	12,248.52	73.94	88.81	116.25	5,266.34	1,594.02	1,190.35	1,040.49	149.85	7.943	
17,100.00	11,721.29	17,634.04	12,249.57	75.06	89.83	116.34	5,345.82	1,592.62	1,190.49	1,038.77	151.73	7.846	
17,200.00	11,720.42	17,708.62	12,250.08	76.39	90.79	116.38	5,420.39	1,592.50	1,191.83	1,038.05	153.78	7.750	
17,300.00	11,719.55	17,811.63	12,253.20	77.73	92.12	116.53	5,523.34	1,592.84	1,194.67	1,038.59	156.07	7.654	
17,400.00	11,718.67	17,915.15	12,255.63	79.07	93.45	116.66	5,626.80	1,592.56	1,196.64	1,038.25	158.38	7.555	
17,500.00	11,717.80	17,993.34	12,253.91	80.40	94.46	116.55	5,704.93	1,594.79	1,199.40	1,038.80	160.60	7.468	
17,600.00	11,716.93	18,078.59	12,254.13	81.74	95.57	116.51	5,790.13	1,597.88	1,203.90	1,041.09	162.81	7.394	
17,700.00	11,716.06	18,182.90	12,256.66	83.08	96.92	116.57	5,894.36	1,601.10	1,208.93	1,043.70	165.22	7.317	
17,800.00	11,715.18	18,320.07	12,258.41	84.43	98.71	116.62	6,031.49	1,603.28	1,212.11	1,044.03	168.08	7.211	
17,900.00	11,714.31	18,435.09	12,265.70	85.77	100.22	117.04	6,146.17	1,599.11	1,212.89	1,042.66	170.23	7.125	
18,000.00	11,713.44	18,537.05	12,275.56	87.11	101.57	117.60	6,247.45	1,592.94	1,213.12	1,041.08	172.04	7.051	
18,100.00	11,712.56	18,582.00	12,280.03	88.46	102.16	117.86	6,292.09	1,590.13	1,214.62	1,041.20	173.42	7.004	SF
18,200.00	11,711.69	18,582.00	12,280.03	89.80	102.16	117.86	6,292.09	1,590.13	1,223.49	1,049.79	173.71	7.043	
18,300.00	11,710.82	18,582.00	12,280.03	91.15	102.16	117.86	6,292.09	1,590.13	1,240.39	1,067.36	173.03	7.169	
18,400.00	11,709.95	18,582.00	12,280.03	92.49	102.16	117.86	6,292.09	1,590.13	1,264.99	1,093.51	171.48	7.377	
18,500.00	11,709.07	18,582.00	12,280.03	93.84	102.16	117.86	6,292.09	1,590.13	1,296.86	1,127.66	169.20	7.665	
18,600.00	11,708.20	18,582.00	12,280.03	95.19	102.16	117.86	6,292.09	1,590.13	1,335.47	1,169.13	166.33	8.029	
18,700.00	11,707.33	18,582.00	12,280.03	96.54	102.16	117.86	6,292.09	1,590.13	1,380.25	1,217.22	163.03	8.466	
18,800.00	11,706.46	18,582.00	12,280.03	97.89	102.16	117.86	6,292.09	1,590.13	1,430.64	1,271.19	159.45	8.972	
18,900.00	11,705.58	18,582.00	12,280.03	99.24	102.16	117.86	6,292.09	1,590.13	1,486.06	1,330.35	155.71	9.544	
19,000.00	11,704.71	18,582.00	12,280.03	100.59	102.16	117.86	6,292.09	1,590.13	1,545.96	1,394.04	151.92	10.176	
19,100.00	11,703.84	18,582.00	12,280.03	101.94	102.16	117.86	6,292.09	1,590.13	1,609.85	1,461.71	148.15	10.866	
19,200.00	11,702.97	18,582.00	12,280.03	103.29	102.16	117.86	6,292.09	1,590.13	1,677.28	1,532.81	144.47	11.610	
19,300.00	11,702.09	18,582.00	12,280.03	104.64	102.16	117.86	6,292.09	1,590.13	1,747.83	1,606.91	140.91	12.403	
19,377.12	11,701.42	18,582.00	12,280.03	105.68	102.16	117.86	6,292.09	1,590.13	1,804.14	1,665.86	138.28	13.047	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Cosmo K 24S35E3328 Fee 213H - OH - OH

Survey Program: 102-3_Gyro-NS_OWSG, 11744-3_MWD+HRGM										Rule Assigned:				Offset Site Error:
Reference										Offset Well Error:				0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	0.00	11.50	0.00	0.00	88.72	43.00	1,918.00	1,918.52					
100.00	100.00	97.94	109.44	0.84	0.14	88.69	43.90	1,917.74	1,918.26	1,917.28	0.98	1,955.756		
200.00	200.00	203.01	214.49	1.48	0.50	88.64	45.64	1,917.05	1,917.64	1,915.66	1.98	968.345		
300.00	300.00	311.48	322.93	1.92	0.88	88.58	47.43	1,915.90	1,916.63	1,913.83	2.80	684.875		
400.00	400.00	408.45	419.89	2.28	1.23	88.53	49.20	1,914.70	1,915.44	1,911.94	3.50	547.724		
500.00	500.00	497.58	508.99	2.59	1.54	88.48	50.87	1,914.04	1,914.74	1,910.62	4.12	464.635		
600.00	600.00	596.90	608.29	2.87	1.88	88.42	52.94	1,913.49	1,914.24	1,909.49	4.75	403.037		
700.00	700.00	689.88	701.24	3.12	2.21	88.34	55.36	1,913.20	1,914.01	1,908.67	5.33	358.805		
800.00	800.00	783.93	795.24	3.23	2.54	-21.32	58.32	1,913.19	1,913.78	1,908.00	5.77	331.459		
900.00	899.96	874.30	885.56	3.51	2.86	-21.44	61.20	1,913.53	1,911.82	1,905.46	6.36	300.585		
1,000.00	999.82	962.09	973.30	3.77	3.17	-21.60	64.30	1,914.39	1,908.05	1,901.13	6.92	275.545		
1,100.00	1,099.51	1,066.29	1,077.41	4.02	3.54	-21.84	68.20	1,915.71	1,902.16	1,894.62	7.54	252.347		
1,200.00	1,198.96	1,211.31	1,222.41	4.27	4.04	-22.13	70.28	1,915.69	1,892.54	1,884.26	8.28	228.545		
1,300.00	1,298.11	1,336.18	1,347.24	4.43	4.48	-22.33	68.27	1,913.25	1,878.45	1,869.57	8.88	211.626		
1,400.00	1,397.13	1,447.27	1,458.23	4.62	4.88	-22.41	64.94	1,910.02	1,862.54	1,853.09	9.46	196.942		
1,500.00	1,496.16	1,542.47	1,553.32	4.82	5.21	-22.47	61.46	1,907.05	1,846.42	1,836.43	9.99	184.902		
1,600.00	1,595.19	1,634.20	1,644.96	5.01	5.54	-22.52	58.17	1,904.55	1,830.68	1,820.18	10.50	174.293		
1,700.00	1,694.22	1,728.58	1,739.26	5.20	5.87	-22.58	55.01	1,902.27	1,815.26	1,804.23	11.03	164.578		
1,800.00	1,793.24	1,822.47	1,833.08	5.40	6.20	-22.66	52.26	1,900.17	1,800.05	1,788.49	11.55	155.793		
1,900.00	1,892.27	1,921.17	1,931.72	5.59	6.54	-22.75	49.55	1,898.20	1,785.08	1,772.98	12.09	147.594		
2,000.00	1,991.30	2,052.07	2,062.48	5.79	7.00	-22.83	44.75	1,894.64	1,769.42	1,756.68	12.74	138.875		
2,100.00	2,090.33	2,180.18	2,190.21	5.98	7.47	-22.80	36.87	1,888.68	1,751.62	1,738.24	13.38	130.881		
2,200.00	2,189.35	2,282.47	2,292.05	6.17	7.85	-22.75	29.30	1,882.97	1,732.89	1,718.94	13.95	124.261		
2,300.00	2,288.38	2,374.76	2,384.01	6.37	8.18	-22.71	23.16	1,877.98	1,714.36	1,699.88	14.47	118.438		
2,400.00	2,387.41	2,465.46	2,474.42	6.56	8.51	-22.70	17.57	1,873.35	1,696.15	1,681.16	15.00	113.098		
2,500.00	2,486.44	2,554.54	2,563.26	6.76	8.83	-22.69	12.45	1,869.33	1,678.55	1,663.04	15.51	108.198		
2,600.00	2,585.46	2,648.35	2,656.87	6.95	9.16	-22.71	7.71	1,865.37	1,661.27	1,645.23	16.04	103.550		
2,700.00	2,684.49	2,747.38	2,755.72	7.15	9.51	-22.75	3.32	1,861.50	1,644.33	1,627.75	16.59	99.129		
2,800.00	2,783.52	2,867.33	2,875.32	7.35	9.94	-22.74	-3.81	1,855.85	1,626.52	1,609.33	17.20	94.580		
2,900.00	2,882.55	2,968.13	2,975.76	7.54	10.30	-22.71	-10.31	1,850.24	1,607.85	1,590.10	17.75	90.580		
3,000.00	2,981.57	3,062.41	3,069.75	7.74	10.64	-22.71	-15.60	1,845.16	1,589.40	1,571.11	18.28	86.930		
3,100.00	3,080.60	3,173.21	3,180.21	7.94	11.03	-22.72	-21.52	1,839.02	1,570.82	1,551.96	18.86	83.276		
3,200.00	3,179.63	3,290.29	3,296.84	8.14	11.45	-22.72	-28.33	1,831.13	1,551.02	1,531.56	19.46	79.710		
3,300.00	3,278.66	3,381.82	3,387.98	8.34	11.78	-22.72	-33.59	1,824.66	1,530.91	1,510.92	19.99	76.601		
3,400.00	3,377.68	3,474.44	3,480.26	8.54	12.12	-22.73	-38.59	1,818.46	1,511.18	1,490.66	20.51	73.662		
3,500.00	3,476.71	3,563.80	3,569.31	8.74	12.43	-22.75	-43.17	1,812.63	1,491.66	1,470.62	21.04	70.912		
3,600.00	3,575.74	3,658.20	3,663.41	8.94	12.77	-22.76	-48.20	1,807.08	1,472.74	1,451.17	21.57	68.278		
3,700.00	3,674.77	3,735.04	3,740.03	9.14	13.04	-22.75	-52.77	1,803.45	1,454.88	1,432.83	22.06	65.961		
3,800.00	3,773.79	3,822.64	3,827.36	9.34	13.35	-22.71	-58.71	1,800.20	1,438.00	1,415.43	22.57	63.704		
3,900.00	3,872.82	3,918.52	3,922.92	9.54	13.69	-22.63	-66.05	1,797.15	1,421.62	1,398.50	23.11	61.503		
4,000.00	3,971.85	4,002.71	4,006.84	9.75	13.99	-22.56	-72.30	1,794.80	1,405.66	1,382.04	23.62	59.510		
4,100.00	4,070.88	4,106.35	4,110.26	9.95	14.35	-22.53	-78.78	1,792.70	1,390.50	1,366.32	24.18	57.504		
4,200.00	4,169.90	4,227.52	4,231.23	10.15	14.77	-22.57	-84.31	1,788.56	1,374.04	1,349.25	24.79	55.434		
4,300.00	4,268.93	4,361.59	4,364.98	10.36	15.24	-22.68	-89.35	1,780.89	1,355.31	1,329.89	25.42	53.323		
4,400.00	4,367.96	4,481.48	4,484.45	10.56	15.67	-22.84	-92.73	1,771.55	1,334.63	1,308.63	26.00	51.325		
4,500.00	4,466.99	4,579.17	4,581.75	10.77	16.01	-23.06	-93.44	1,762.87	1,313.00	1,286.46	26.54	49.467		
4,600.00	4,566.01	4,666.65	4,668.93	10.97	16.32	-23.28	-93.64	1,755.52	1,291.90	1,264.84	27.06	47.737		
4,700.00	4,665.04	4,746.73	4,748.78	11.17	16.60	-23.43	-95.20	1,749.69	1,271.83	1,244.26	27.57	46.137		
4,800.00	4,764.07	4,824.80	4,826.67	11.38	16.87	-23.51	-98.15	1,745.37	1,253.34	1,225.28	28.06	44.661		
4,900.00	4,863.10	4,912.34	4,914.03	11.58	17.18	-23.54	-102.52	1,741.89	1,236.29	1,207.71	28.58	43.255		
5,000.00	4,962.12	5,017.89	5,019.38	11.79	17.55	-23.61	-107.16	1,737.36	1,218.97	1,189.83	29.14	41.827		
5,100.00	5,061.15	5,113.19	5,114.52	11.99	17.88	-23.71	-110.79	1,733.25	1,201.70	1,172.02	29.68	40.489		

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Cosmo K 24S35E3328 Fee 213H - OH - OH

Survey Program: 102-3_Gyro-NS_OWSG, 11744-3_MWD+HRGM										Rule Assigned:		Offset Site Error:	
												Offset Well Error:	
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
5,200.00	5,160.27	5,214.72	5,215.88	12.17	18.24	-23.73	-114.67	1,728.99	1,185.17	1,154.96	30.21	39.237	
5,300.00	5,259.69	5,316.78	5,317.72	12.35	18.60	-23.63	-119.56	1,724.26	1,170.40	1,139.64	30.76	38.048	
5,400.00	5,359.35	5,419.44	5,420.12	12.52	18.96	-23.46	-125.14	1,719.49	1,157.97	1,126.66	31.31	36.986	
5,500.00	5,459.20	5,522.32	5,522.71	12.68	19.32	-23.25	-130.74	1,714.25	1,147.47	1,115.62	31.84	36.033	
5,600.00	5,559.15	5,624.64	5,624.71	12.83	19.68	-22.97	-136.66	1,708.84	1,139.17	1,106.81	32.36	35.199	
5,700.00	5,659.15	5,717.50	5,717.27	12.87	20.01	86.87	-142.30	1,704.04	1,133.22	1,100.47	32.75	34.604	
5,800.00	5,759.15	5,813.54	5,813.01	12.92	20.35	87.18	-148.64	1,699.66	1,128.31	1,095.16	33.15	34.039	
5,900.00	5,859.15	5,923.38	5,922.48	12.98	20.74	87.54	-155.81	1,694.37	1,123.20	1,089.62	33.58	33.451	
6,000.00	5,959.15	6,031.17	6,029.88	13.03	21.12	87.87	-162.60	1,688.14	1,117.15	1,083.15	34.00	32.855	
6,100.00	6,059.15	6,130.19	6,128.55	13.08	21.47	88.16	-168.37	1,682.17	1,110.91	1,076.50	34.41	32.285	
6,200.00	6,159.15	6,233.54	6,231.54	13.14	21.84	88.44	-174.06	1,675.67	1,104.45	1,069.63	34.83	31.714	
6,300.00	6,259.15	6,332.96	6,330.61	13.19	22.19	88.71	-179.43	1,669.34	1,097.94	1,062.71	35.23	31.162	
6,400.00	6,359.15	6,435.71	6,433.03	13.25	22.56	88.97	-184.35	1,662.68	1,091.36	1,055.71	35.65	30.615	
6,500.00	6,459.15	6,540.61	6,537.60	13.30	22.93	89.17	-188.32	1,655.38	1,084.33	1,048.27	36.07	30.065	
6,600.00	6,559.15	6,642.73	6,639.38	13.36	23.29	89.35	-191.84	1,647.90	1,076.96	1,040.48	36.48	29.523	
6,700.00	6,659.15	6,741.70	6,738.02	13.41	23.64	89.54	-195.37	1,640.57	1,069.51	1,032.63	36.89	28.995	
6,800.00	6,759.15	6,839.94	6,835.92	13.47	23.98	89.74	-199.13	1,633.43	1,062.22	1,024.93	37.29	28.483	
6,900.00	6,859.15	6,937.90	6,933.56	13.52	24.33	89.93	-202.75	1,626.44	1,055.07	1,017.37	37.70	27.987	
7,000.00	6,959.15	7,032.94	7,028.31	13.58	24.67	90.13	-206.45	1,619.93	1,048.21	1,010.11	38.10	27.513	
7,100.00	7,059.15	7,125.44	7,120.57	13.64	24.99	90.33	-210.00	1,614.12	1,041.95	1,003.45	38.49	27.069	
7,200.00	7,159.15	7,218.32	7,213.23	13.69	25.32	90.54	-213.73	1,608.95	1,036.40	997.52	38.89	26.653	
7,300.00	7,259.15	7,312.17	7,306.88	13.75	25.65	90.75	-217.42	1,604.30	1,031.49	992.21	39.28	26.261	
7,400.00	7,359.15	7,408.82	7,403.37	13.81	25.98	90.94	-220.88	1,599.97	1,027.06	987.38	39.68	25.885	
7,500.00	7,459.15	7,507.64	7,502.04	13.87	26.33	91.14	-224.35	1,595.72	1,022.82	982.74	40.08	25.517	
7,600.00	7,559.15	7,601.82	7,596.08	13.93	26.66	91.34	-227.86	1,591.91	1,018.86	978.38	40.48	25.172	
7,700.00	7,659.15	7,696.94	7,691.08	13.98	26.99	91.55	-231.45	1,588.63	1,015.50	974.63	40.87	24.847	
7,800.00	7,759.15	7,787.31	7,781.34	14.04	27.30	91.76	-235.05	1,586.06	1,012.78	971.53	41.25	24.554	
7,900.00	7,859.15	7,880.09	7,874.03	14.10	27.62	91.97	-238.82	1,584.29	1,011.00	969.37	41.63	24.286	
8,000.00	7,959.15	7,973.26	7,967.11	14.16	27.95	92.20	-242.68	1,583.08	1,009.85	967.84	42.01	24.038	
8,094.54	8,053.69	8,059.91	8,053.69	14.22	28.24	92.38	-245.91	1,582.60	1,009.47	967.10	42.36	23.828	
8,100.00	8,059.15	8,064.89	8,058.67	14.22	28.26	92.39	-246.08	1,582.59	1,009.47	967.08	42.38	23.817	
8,200.00	8,159.15	8,160.44	8,154.18	14.28	28.59	92.56	-249.02	1,582.80	1,009.81	967.04	42.77	23.609	
8,300.00	8,259.15	8,258.96	8,252.67	14.34	28.93	92.68	-251.20	1,583.27	1,010.39	967.22	43.17	23.406	
8,400.00	8,359.15	8,358.49	8,352.19	14.40	29.27	92.76	-252.66	1,583.87	1,011.06	967.49	43.57	23.206	
8,500.00	8,459.15	8,456.73	8,450.42	14.46	29.61	92.79	-253.25	1,584.59	1,011.82	967.86	43.96	23.014	
8,600.00	8,559.15	8,557.33	8,551.01	14.52	29.96	92.79	-253.25	1,585.45	1,012.68	968.31	44.37	22.824	
8,700.00	8,659.15	8,657.08	8,650.76	14.58	30.30	92.77	-253.00	1,586.27	1,013.49	968.72	44.77	22.637	
8,800.00	8,759.15	8,755.11	8,748.78	14.65	30.64	92.76	-252.86	1,587.18	1,014.41	969.24	45.17	22.459	
8,900.00	8,859.15	8,855.40	8,849.08	14.71	30.98	92.76	-252.86	1,588.19	1,015.42	969.85	45.57	22.282	
9,000.00	8,959.15	8,955.82	8,949.49	14.77	31.33	92.76	-252.98	1,589.15	1,016.38	970.40	45.98	22.107	
9,100.00	9,059.15	9,054.14	9,047.81	14.83	31.67	92.78	-253.38	1,590.15	1,017.41	971.04	46.37	21.940	
9,200.00	9,159.15	9,152.13	9,145.79	14.89	32.01	92.81	-253.87	1,591.31	1,018.62	971.85	46.77	21.780	
9,300.00	9,259.15	9,251.16	9,244.81	14.96	32.35	92.83	-254.43	1,592.69	1,020.04	972.87	47.17	21.625	
9,400.00	9,359.15	9,353.84	9,347.47	15.02	32.70	92.86	-255.03	1,593.90	1,021.24	973.65	47.59	21.461	
9,500.00	9,459.15	9,451.81	9,445.43	15.08	33.04	92.90	-255.73	1,595.09	1,022.49	974.51	47.98	21.310	
9,600.00	9,559.15	9,550.41	9,544.02	15.15	33.38	92.97	-256.97	1,596.42	1,023.90	975.52	48.38	21.163	
9,700.00	9,659.15	9,651.22	9,644.80	15.21	33.73	93.07	-258.88	1,597.83	1,025.41	976.61	48.79	21.016	
9,800.00	9,759.15	9,756.93	9,750.47	15.28	34.10	93.22	-261.68	1,598.91	1,026.57	977.35	49.22	20.855	
9,900.00	9,859.15	9,869.71	9,863.18	15.34	34.49	93.43	-265.50	1,599.04	1,026.89	977.21	49.68	20.668	
10,000.00	9,959.15	9,966.21	9,959.60	15.40	34.82	93.65	-269.30	1,598.43	1,026.51	976.43	50.08	20.497	
10,005.88	9,965.04	9,971.65	9,965.04	15.41	34.84	93.66	-269.52	1,598.41	1,026.51	976.40	50.10	20.488	
10,100.00	10,059.15	10,055.28	10,048.60	15.47	35.13	93.85	-272.97	1,598.59	1,026.97	976.52	50.44	20.358	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Cosmo K 24S35E3328 Fee 213H - OH - OH

Survey Program: 102-3_Gyro-NS_OWSG, 11744-3_MWD+HRGM										Rule Assigned:		Offset Site Error:	
												Offset Well Error:	
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
10,200.00	10,159.15	10,148.91	10,142.13	15.53	35.46	94.07	-276.96	1,599.65	1,028.38	977.55	50.83	20.233	
10,300.00	10,259.15	10,267.90	10,261.04	15.60	35.87	94.30	-281.10	1,600.51	1,029.40	978.09	51.31	20.061	
10,400.00	10,359.15	10,380.65	10,373.78	15.67	36.26	94.37	-282.33	1,599.51	1,028.60	976.82	51.78	19.866	
10,500.00	10,459.15	10,489.09	10,482.19	15.73	36.64	94.27	-280.37	1,597.55	1,026.65	974.43	52.22	19.660	
10,600.00	10,559.15	10,587.27	10,580.32	15.80	36.97	94.15	-278.14	1,595.50	1,024.41	971.78	52.63	19.466	
10,700.00	10,659.15	10,685.51	10,678.53	15.86	37.31	94.09	-276.89	1,593.78	1,022.57	969.54	53.03	19.282	
10,800.00	10,759.15	10,785.81	10,778.79	15.93	37.66	93.98	-274.84	1,591.87	1,020.52	967.07	53.44	19.095	
10,900.00	10,859.15	10,891.60	10,884.54	16.00	38.02	93.86	-272.50	1,589.97	1,018.59	964.71	53.88	18.905	
11,000.00	10,959.15	11,004.70	10,997.56	16.06	38.42	93.76	-270.50	1,586.48	1,015.39	961.04	54.34	18.684	
11,100.00	11,059.15	11,106.42	11,099.21	16.13	38.77	93.69	-269.13	1,582.54	1,011.44	956.67	54.77	18.468	
11,200.00	11,159.15	11,193.81	11,186.54	16.20	39.07	93.64	-267.89	1,579.63	1,008.03	952.90	55.13	18.285	
11,300.00	11,259.00	11,288.12	11,280.81	16.28	39.40	94.49	-268.06	1,577.40	1,005.98	950.50	55.48	18.132	
11,377.57	11,335.18	11,366.31	11,358.98	16.38	39.67	95.42	-269.00	1,575.60	1,005.49	949.74	55.75	18.036	CC
11,400.00	11,356.78	11,388.86	11,381.52	16.40	39.75	95.78	-269.33	1,575.02	1,005.54	949.71	55.83	18.012	ES
11,500.00	11,449.54	11,476.52	11,469.13	16.52	40.05	97.48	-270.94	1,572.85	1,007.77	951.66	56.11	17.961	
11,600.00	11,534.47	11,556.79	11,549.37	16.63	40.33	99.23	-272.52	1,571.24	1,014.87	958.48	56.38	17.999	
11,700.00	11,608.98	11,626.09	11,618.67	16.75	40.57	100.47	-273.17	1,570.22	1,028.56	971.88	56.69	18.145	
11,800.00	11,670.81	11,683.90	11,676.47	16.89	40.77	100.78	-273.44	1,569.75	1,050.60	993.55	57.05	18.415	
11,900.00	11,718.09	11,727.92	11,720.49	17.06	40.85	99.70	-273.63	1,569.53	1,081.89	1,024.47	57.42	18.841	
12,000.00	11,749.36	11,757.61	11,750.18	17.30	40.88	96.88	-273.83	1,569.39	1,122.52	1,064.66	57.86	19.401	
12,100.00	11,763.70	11,770.82	11,763.39	17.63	40.88	92.00	-273.93	1,569.33	1,171.59	1,113.24	58.35	20.078	
12,200.00	11,764.05	11,770.48	11,763.05	18.04	40.88	89.58	-273.93	1,569.34	1,227.36	1,168.48	58.88	20.844	
12,300.00	11,763.18	11,768.94	11,761.51	18.54	40.88	89.49	-273.91	1,569.34	1,288.49	1,229.07	59.42	21.684	
12,400.00	11,762.31	13,206.32	12,540.49	19.13	43.21	127.25	701.08	1,590.19	1,287.37	1,227.76	59.61	21.597	
12,500.00	11,761.43	13,347.05	12,538.24	19.79	43.90	127.50	841.29	1,578.50	1,280.61	1,220.11	60.50	21.168	
12,600.00	11,760.56	13,422.36	12,534.56	20.52	44.31	127.48	916.38	1,574.35	1,274.51	1,213.28	61.23	20.816	
12,700.00	11,759.69	13,490.00	12,530.90	21.32	44.68	127.40	983.91	1,572.78	1,270.64	1,208.63	62.00	20.493	
12,773.46	11,759.05	13,531.47	12,529.02	21.94	44.93	127.33	1,025.34	1,572.86	1,269.66	1,207.07	62.59	20.286	
12,800.00	11,758.82	13,545.85	12,528.54	22.16	45.02	127.31	1,039.71	1,573.10	1,269.79	1,206.99	62.80	20.221	
12,900.00	11,757.94	13,628.04	12,527.05	23.06	45.52	127.19	1,121.83	1,575.68	1,272.25	1,208.46	63.78	19.947	
13,000.00	11,757.07	13,752.59	12,526.14	24.01	46.32	127.16	1,246.37	1,576.16	1,273.25	1,208.21	65.05	19.574	
13,100.00	11,756.20	13,916.34	12,525.53	24.99	47.48	127.31	1,409.98	1,570.14	1,271.40	1,204.83	66.57	19.100	
13,200.00	11,755.32	14,071.97	12,523.07	26.01	48.66	127.62	1,564.91	1,556.24	1,264.51	1,196.45	68.06	18.579	
13,300.00	11,754.45	14,175.99	12,513.94	27.06	49.49	127.49	1,668.28	1,549.08	1,254.90	1,185.45	69.45	18.069	
13,400.00	11,753.58	14,245.00	12,506.39	28.14	50.05	127.29	1,736.83	1,546.77	1,246.80	1,176.07	70.73	17.628	
13,500.00	11,752.71	14,289.79	12,501.39	29.24	50.42	127.09	1,781.33	1,547.28	1,242.16	1,170.26	71.90	17.277	
13,551.89	11,752.25	14,312.78	12,498.88	29.82	50.61	126.97	1,804.15	1,548.47	1,241.51	1,169.00	72.51	17.121	
13,600.00	11,751.83	14,339.00	12,496.06	30.36	50.83	126.81	1,830.13	1,550.60	1,242.03	1,168.90	73.13	16.984	
13,700.00	11,750.96	14,371.00	12,493.18	31.51	51.09	126.61	1,861.80	1,554.21	1,246.63	1,172.44	74.19	16.802	
13,800.00	11,750.09	14,433.00	12,490.57	32.67	51.61	126.25	1,922.93	1,564.06	1,257.12	1,181.57	75.55	16.640	
13,900.00	11,749.22	14,454.76	12,490.39	33.85	51.79	126.13	1,944.30	1,568.19	1,271.02	1,194.62	76.40	16.636	
14,000.00	11,748.34	14,528.00	12,490.48	35.04	52.41	125.76	2,016.17	1,582.26	1,288.05	1,210.18	77.87	16.541	
14,100.00	11,747.47	14,600.08	12,493.72	36.24	53.03	125.54	2,086.90	1,595.63	1,307.07	1,227.79	79.28	16.486	
14,200.00	11,746.60	15,068.04	12,535.67	37.46	57.48	127.35	2,550.01	1,585.34	1,305.90	1,222.44	83.46	15.647	
14,300.00	11,745.73	15,168.42	12,532.40	38.68	58.51	127.50	2,649.81	1,575.45	1,297.29	1,212.16	85.13	15.238	
14,400.00	11,744.85	15,258.09	12,527.43	39.92	59.44	127.48	2,739.18	1,570.16	1,290.43	1,203.57	86.86	14.856	
14,500.00	11,743.98	15,337.77	12,522.65	41.16	60.28	127.41	2,818.63	1,566.46	1,284.34	1,195.77	88.57	14.501	
14,600.00	11,743.11	15,428.60	12,519.37	42.41	61.25	127.42	2,909.30	1,562.40	1,279.78	1,189.45	90.33	14.167	
14,700.00	11,742.23	15,512.55	12,516.56	43.67	62.16	127.42	2,993.13	1,558.75	1,275.57	1,183.51	92.07	13.855	
14,800.00	11,741.36	15,565.00	12,514.69	44.93	62.73	127.38	3,045.54	1,557.83	1,273.69	1,180.13	93.57	13.612	
14,828.13	11,741.12	15,599.38	12,513.47	45.29	63.10	127.34	3,079.90	1,557.92	1,273.43	1,179.25	94.18	13.521	
14,900.00	11,740.49	15,659.00	12,511.57	46.21	63.75	127.24	3,139.47	1,559.39	1,274.23	1,178.74	95.50	13.343	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Cosmo K 24S35E3328 Fee 213H - OH - OH

Survey Program: 102-3_Gyro-NS_OWSG, 11744-3_MWD+HRGM							Rule Assigned:					Offset Site Error:	
Reference							Offset Well Error:					0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,000.00	11,739.62	15,720.93	12,510.44	47.48	64.43	127.13	3,201.34	1,561.79	1,277.16	1,180.07	97.09	13.154	
15,100.00	11,738.74	15,803.11	12,510.73	48.76	65.34	127.06	3,283.44	1,565.21	1,281.89	1,183.02	98.87	12.966	
15,200.00	11,737.87	15,889.05	12,511.43	50.05	66.29	126.97	3,369.26	1,569.69	1,287.76	1,187.06	100.71	12.787	
15,300.00	11,737.00	15,984.59	12,511.07	51.34	67.36	126.78	3,464.55	1,576.64	1,294.56	1,191.82	102.75	12.599	
15,400.00	11,736.13	16,092.51	12,509.96	52.64	68.58	126.54	3,572.18	1,584.47	1,301.00	1,195.99	105.00	12.390	
15,500.00	11,735.25	16,184.35	12,509.24	53.93	69.63	126.36	3,663.80	1,590.74	1,307.26	1,200.22	107.04	12.213	
15,600.00	11,734.38	16,307.78	12,510.19	55.24	71.05	126.22	3,787.01	1,597.89	1,313.71	1,204.25	109.46	12.002	
15,700.00	11,733.51	16,454.46	12,510.99	56.54	72.78	126.19	3,933.66	1,600.38	1,316.50	1,204.47	112.03	11.751	
15,800.00	11,732.64	16,585.81	12,509.19	57.85	74.34	126.14	4,064.97	1,600.29	1,316.90	1,202.47	114.42	11.509	
15,900.00	11,731.76	16,686.41	12,504.11	59.16	75.55	125.95	4,165.43	1,601.34	1,315.98	1,199.30	116.68	11.279	
16,000.00	11,730.89	16,787.46	12,499.27	60.47	76.77	125.77	4,266.37	1,602.03	1,314.94	1,196.01	118.93	11.056	
16,100.00	11,730.02	16,895.50	12,496.24	61.79	78.09	125.71	4,374.35	1,600.62	1,313.45	1,192.29	121.17	10.840	
16,200.00	11,729.15	16,989.27	12,495.04	63.11	79.25	125.73	4,468.08	1,598.43	1,312.02	1,188.81	123.21	10.649	
16,300.00	11,728.27	17,088.00	12,494.41	64.43	80.47	125.78	4,566.78	1,596.00	1,310.86	1,185.59	125.28	10.464	
16,400.00	11,727.40	17,186.03	12,492.14	65.75	81.68	125.73	4,664.77	1,594.81	1,309.75	1,182.31	127.44	10.278	
16,500.00	11,726.53	17,284.91	12,491.19	67.08	82.92	125.75	4,763.64	1,593.17	1,309.06	1,179.50	129.55	10.104	
16,600.00	11,725.65	17,393.83	12,485.43	68.40	84.28	125.54	4,872.38	1,593.58	1,307.46	1,175.47	131.99	9.905	
16,700.00	11,724.78	17,480.86	12,481.60	69.73	85.37	125.41	4,959.32	1,593.83	1,306.35	1,172.17	134.18	9.736	
16,746.97	11,724.37	17,520.46	12,480.71	70.35	85.87	125.38	4,998.91	1,593.73	1,306.22	1,171.06	135.16	9.664	
16,800.00	11,723.91	17,561.88	12,480.29	71.06	86.40	125.38	5,040.33	1,593.60	1,306.43	1,170.22	136.21	9.592	
16,900.00	11,723.04	17,636.46	12,479.80	72.39	87.34	125.34	5,114.91	1,594.60	1,308.34	1,170.20	138.14	9.471	
17,000.00	11,722.16	17,799.45	12,476.00	73.72	89.41	125.19	5,277.82	1,595.87	1,308.89	1,167.75	141.14	9.274	
17,100.00	11,721.29	17,947.50	12,471.81	75.06	91.31	125.21	5,425.68	1,589.58	1,304.96	1,161.33	143.64	9.085	
17,200.00	11,720.42	18,069.54	12,468.16	76.39	92.90	125.33	5,547.29	1,580.14	1,298.05	1,152.25	145.80	8.903	
17,300.00	11,719.55	18,201.75	12,466.45	77.73	94.62	125.65	5,678.71	1,565.93	1,289.84	1,142.12	147.73	8.731	
17,400.00	11,718.67	18,301.42	12,467.23	79.07	95.93	126.05	5,777.37	1,551.93	1,280.08	1,130.62	149.46	8.565	
17,500.00	11,717.80	18,427.15	12,469.03	80.40	97.58	126.68	5,901.38	1,531.28	1,268.73	1,117.82	150.91	8.407	
17,600.00	11,716.93	18,523.74	12,471.64	81.74	98.86	127.26	5,996.37	1,514.00	1,257.16	1,104.77	152.39	8.250	
17,700.00	11,716.06	18,629.83	12,475.09	83.08	100.26	127.95	6,100.54	1,494.19	1,245.43	1,091.75	153.68	8.104	
17,800.00	11,715.18	18,738.19	12,475.24	84.43	101.71	128.50	6,207.27	1,475.48	1,233.09	1,077.97	155.12	7.949	
17,900.00	11,714.31	18,823.00	12,474.61	85.77	102.84	128.91	6,290.81	1,460.88	1,220.42	1,063.67	156.75	7.786	
18,000.00	11,713.44	18,823.00	12,474.61	87.11	102.84	128.91	6,290.81	1,460.88	1,213.03	1,054.48	158.55	7.651	
18,039.97	11,713.09	18,823.00	12,474.61	87.65	102.84	128.91	6,290.81	1,460.88	1,212.37	1,053.35	159.02	7.624	
18,100.00	11,712.56	18,823.00	12,474.61	88.46	102.84	128.91	6,290.81	1,460.88	1,213.86	1,054.39	159.47	7.612	SF
18,200.00	11,711.69	18,823.00	12,474.61	89.80	102.84	128.91	6,290.81	1,460.88	1,222.89	1,063.38	159.51	7.667	
18,300.00	11,710.82	18,823.00	12,474.61	91.15	102.84	128.91	6,290.81	1,460.88	1,239.94	1,081.25	158.69	7.813	
18,400.00	11,709.95	18,823.00	12,474.61	92.49	102.84	128.91	6,290.81	1,460.88	1,264.70	1,107.57	157.13	8.049	
18,500.00	11,709.07	18,823.00	12,474.61	93.84	102.84	128.91	6,290.81	1,460.88	1,296.71	1,141.79	154.92	8.370	
18,600.00	11,708.20	18,823.00	12,474.61	95.19	102.84	128.91	6,290.81	1,460.88	1,335.47	1,183.24	152.23	8.773	
18,700.00	11,707.33	18,823.00	12,474.61	96.54	102.84	128.91	6,290.81	1,460.88	1,380.39	1,231.22	149.17	9.254	
18,800.00	11,706.46	18,823.00	12,474.61	97.89	102.84	128.91	6,290.81	1,460.88	1,430.90	1,285.02	145.89	9.808	
18,900.00	11,705.58	18,823.00	12,474.61	99.24	102.84	128.91	6,290.81	1,460.88	1,486.43	1,343.95	142.49	10.432	
19,000.00	11,704.71	18,823.00	12,474.61	100.59	102.84	128.91	6,290.81	1,460.88	1,546.45	1,407.38	139.06	11.120	
19,100.00	11,703.84	18,823.00	12,474.61	101.94	102.84	128.91	6,290.81	1,460.88	1,610.43	1,474.75	135.68	11.869	
19,200.00	11,702.97	18,823.00	12,474.61	103.29	102.84	128.91	6,290.81	1,460.88	1,677.95	1,545.55	132.40	12.673	
19,300.00	11,702.09	18,823.00	12,474.61	104.64	102.84	128.91	6,290.81	1,460.88	1,748.57	1,619.33	129.25	13.529	
19,377.12	11,701.42	18,823.00	12,474.61	105.68	102.84	128.91	6,290.81	1,460.88	1,804.94	1,678.02	126.92	14.221	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Cosmo K Fee #223H - OH - OH

Survey Program: 146-3_MWD		Offset Design: Coonskin Fee Pad - (O) Cosmo K Fee #223H - OH - OH		Offset Site Error: 0.00 usft		Offset Well Error: 0.00 usft		Rule Assigned:		Warning			
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
0.00	0.00	0.00	12.00	0.00	0.00	91.11	-35.00	1,799.00	1,799.38				
100.00	100.00	91.63	103.63	0.84	0.14	91.12	-35.06	1,798.91	1,799.25	1,798.27	0.98	1,835.430	
200.00	200.00	192.47	204.47	1.48	0.38	91.13	-35.38	1,798.63	1,798.98	1,797.12	1.86	966.387	
300.00	300.00	293.48	305.47	1.92	0.74	91.17	-36.70	1,798.37	1,798.75	1,796.09	2.66	676.077	
400.00	400.00	416.16	428.12	2.28	1.18	91.23	-38.63	1,797.36	1,798.00	1,794.54	3.46	519.871	
500.00	500.00	514.21	526.15	2.59	1.54	91.29	-40.29	1,795.82	1,796.46	1,792.34	4.12	435.780	
600.00	600.00	618.08	630.00	2.87	1.91	91.33	-41.69	1,794.13	1,794.86	1,790.09	4.77	375.894	
700.00	700.00	714.29	726.19	3.12	2.26	91.37	-42.82	1,792.58	1,793.28	1,787.90	5.38	333.511	
800.00	800.00	810.41	822.30	3.23	2.60	-18.18	-43.67	1,791.31	1,791.67	1,785.84	5.83	307.378	
900.00	899.96	910.75	922.62	3.51	2.96	-18.18	-44.95	1,789.95	1,787.86	1,781.40	6.46	276.798	
1,000.00	999.82	996.56	1,008.41	3.77	3.27	-18.21	-46.06	1,789.10	1,781.94	1,774.92	7.02	253.727	
1,100.00	1,099.51	1,085.00	1,096.85	4.02	3.58	-18.28	-47.38	1,789.04	1,774.44	1,766.85	7.59	233.936	
1,200.00	1,198.96	1,181.72	1,193.55	4.27	3.93	-18.38	-48.86	1,789.19	1,764.71	1,756.54	8.17	216.034	
1,300.00	1,298.11	1,276.77	1,288.59	4.43	4.26	-18.51	-50.32	1,789.58	1,752.79	1,744.12	8.67	202.241	
1,400.00	1,397.13	1,375.18	1,386.99	4.62	4.61	-18.60	-51.80	1,790.14	1,740.18	1,730.97	9.21	188.963	
1,500.00	1,496.16	1,476.17	1,487.97	4.82	4.97	-18.70	-53.25	1,790.65	1,727.51	1,717.75	9.76	176.973	
1,600.00	1,595.19	1,571.39	1,583.18	5.01	5.30	-18.80	-54.69	1,791.11	1,714.84	1,704.54	10.30	166.568	
1,700.00	1,694.22	1,664.23	1,675.95	5.20	5.64	-18.83	-58.10	1,791.90	1,702.55	1,691.73	10.82	157.298	
1,800.00	1,793.24	1,758.92	1,770.53	5.40	5.98	-18.82	-62.46	1,792.98	1,690.58	1,679.22	11.36	148.802	
1,900.00	1,892.27	1,854.60	1,866.10	5.59	6.32	-18.82	-66.95	1,794.31	1,678.84	1,666.94	11.90	141.042	
2,000.00	1,991.30	1,974.73	1,986.07	5.79	6.76	-18.80	-72.91	1,795.62	1,666.87	1,654.33	12.53	132.992	
2,100.00	2,090.33	2,090.60	2,101.71	5.98	7.18	-18.73	-80.11	1,795.18	1,653.39	1,640.24	13.15	125.712	
2,200.00	2,189.35	2,186.59	2,197.49	6.17	7.54	-18.65	-86.52	1,794.48	1,639.61	1,625.91	13.70	119.653	
2,300.00	2,288.38	2,281.30	2,291.99	6.37	7.89	-18.58	-92.72	1,794.02	1,626.05	1,611.80	14.25	114.111	
2,400.00	2,387.41	2,374.53	2,385.05	6.56	8.23	-18.52	-98.44	1,793.83	1,612.78	1,597.99	14.79	109.035	
2,500.00	2,486.44	2,457.00	2,467.35	6.76	8.54	-18.46	-103.71	1,794.19	1,600.15	1,584.85	15.30	104.615	
2,600.00	2,585.46	2,552.00	2,562.08	6.95	8.89	-18.36	-110.69	1,795.42	1,588.39	1,572.54	15.85	100.241	
2,700.00	2,684.49	2,635.28	2,645.09	7.15	9.20	-18.26	-117.15	1,797.11	1,577.34	1,560.98	16.35	96.447	
2,800.00	2,783.52	2,723.77	2,733.30	7.35	9.53	-18.16	-123.78	1,799.45	1,566.94	1,550.06	16.88	92.823	
2,900.00	2,882.55	2,867.85	2,876.92	7.54	10.06	-17.98	-135.00	1,801.68	1,555.45	1,537.84	17.61	88.332	
3,000.00	2,981.57	2,971.40	2,980.12	7.74	10.45	-17.83	-143.55	1,801.50	1,542.28	1,524.08	18.19	84.767	
3,100.00	3,080.60	3,067.26	3,075.66	7.94	10.81	-17.69	-151.30	1,801.47	1,529.26	1,510.50	18.75	81.545	
3,200.00	3,179.63	3,169.21	3,177.30	8.14	11.20	-17.54	-159.36	1,801.48	1,516.28	1,496.95	19.33	78.428	
3,300.00	3,278.66	3,265.88	3,293.63	8.34	11.64	-17.39	-168.13	1,800.78	1,502.73	1,482.77	19.96	75.283	
3,400.00	3,377.68	3,389.57	3,396.99	8.54	12.03	-17.25	-176.18	1,799.15	1,488.20	1,467.65	20.55	72.433	
3,500.00	3,476.71	3,495.42	3,502.50	8.74	12.43	-17.09	-184.47	1,797.19	1,473.40	1,452.26	21.14	69.705	
3,600.00	3,575.74	3,587.00	3,593.81	8.94	12.77	-16.96	-191.37	1,795.60	1,458.72	1,437.03	21.68	67.272	
3,700.00	3,674.77	3,670.93	3,677.52	9.14	13.09	-16.85	-197.38	1,794.80	1,444.78	1,422.57	22.20	65.067	
3,800.00	3,773.79	3,743.88	3,750.29	9.34	13.36	-16.77	-202.54	1,795.01	1,432.11	1,409.43	22.69	63.128	
3,900.00	3,872.82	3,820.73	3,826.89	9.54	13.65	-16.66	-208.41	1,796.66	1,421.28	1,398.11	23.18	61.324	
4,000.00	3,971.85	3,899.02	3,904.85	9.75	13.94	-16.52	-215.08	1,799.36	1,411.84	1,388.17	23.67	59.649	
4,100.00	4,070.88	3,965.00	3,970.50	9.95	14.19	-16.40	-220.73	1,802.72	1,404.16	1,380.06	24.11	58.247	
4,200.00	4,169.90	4,044.92	4,049.95	10.15	14.49	-16.27	-227.28	1,808.34	1,398.35	1,373.76	24.59	56.863	
4,300.00	4,268.93	4,138.89	4,143.30	10.36	14.84	-16.15	-234.42	1,816.33	1,393.90	1,368.77	25.13	55.466	
4,400.00	4,367.96	4,334.27	4,337.98	10.56	15.56	-15.98	-246.66	1,826.81	1,386.39	1,360.33	26.06	53.201	
4,500.00	4,466.99	4,550.22	4,553.62	10.77	16.30	-16.13	-251.15	1,820.06	1,368.99	1,342.10	26.89	50.906	
4,600.00	4,566.01	4,625.00	4,628.24	10.97	16.54	-16.36	-248.26	1,816.06	1,350.13	1,322.77	27.36	49.344	
4,700.00	4,665.04	4,690.03	4,693.17	11.17	16.74	-16.60	-245.37	1,813.97	1,333.38	1,305.58	27.80	47.958	
4,800.00	4,764.07	4,751.77	4,754.87	11.38	16.93	-16.79	-243.24	1,813.62	1,319.31	1,291.08	28.23	46.738	
4,900.00	4,863.10	4,815.00	4,818.07	11.58	17.14	-16.95	-242.26	1,815.08	1,308.15	1,279.51	28.64	45.671	
5,000.00	4,962.12	4,907.54	4,910.53	11.79	17.45	-17.09	-243.06	1,818.64	1,298.68	1,269.52	29.16	44.539	
5,100.00	5,061.15	5,020.38	5,023.28	11.99	17.85	-17.21	-245.29	1,822.64	1,289.00	1,259.25	29.75	43.329	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Cosmo K Fee #223H - OH - OH

Survey Program: 146-3_MWD		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)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,200.00	5,160.27	5,196.23	5,199.07	12.17	18.47	-17.31	-17.31	-249.00	1,822.70	1,276.61	1,246.13	30.48	41.879		
5,300.00	5,259.69	5,298.68	5,301.45	12.35	18.83	-17.32	-17.32	-250.62	1,819.39	1,263.21	1,232.18	31.04	40.700		
5,400.00	5,359.35	5,394.23	5,396.94	12.52	19.16	-17.31	-17.31	-251.93	1,816.36	1,252.35	1,220.78	31.57	39.673		
5,500.00	5,459.20	5,496.75	5,499.40	12.68	19.51	-17.27	-17.27	-253.39	1,813.10	1,243.96	1,211.86	32.10	38.754		
5,600.00	5,559.15	5,596.26	5,598.84	12.83	19.85	-17.22	-17.22	-254.61	1,809.77	1,237.90	1,205.29	32.61	37.963		
5,700.00	5,659.15	5,690.01	5,692.55	12.87	20.17	92.36	92.36	-254.79	1,806.99	1,234.49	1,201.51	32.98	37.428		
5,800.00	5,759.15	5,786.58	5,789.09	12.92	20.50	92.36	92.36	-254.62	1,804.59	1,231.99	1,198.62	33.37	36.923		
5,900.00	5,859.15	5,891.63	5,894.11	12.98	20.85	92.34	92.34	-254.13	1,801.90	1,229.42	1,195.65	33.77	36.409		
6,000.00	5,959.15	5,991.50	5,993.93	13.03	21.19	92.33	92.33	-253.84	1,798.88	1,226.39	1,192.23	34.16	35.903		
6,100.00	6,059.15	6,077.89	6,080.29	13.08	21.48	92.30	92.30	-253.15	1,796.85	1,224.02	1,189.50	34.52	35.461		
6,200.00	6,159.15	6,166.03	6,168.42	13.14	21.77	92.25	92.25	-251.99	1,795.98	1,222.96	1,188.08	34.87	35.070		
6,300.00	6,259.15	6,270.31	6,272.68	13.19	22.11	92.17	92.17	-250.28	1,795.11	1,222.06	1,186.80	35.26	34.654		
6,400.00	6,359.15	6,371.58	6,373.93	13.25	22.45	92.12	92.12	-249.22	1,793.86	1,220.79	1,185.13	35.65	34.240		
6,500.00	6,459.15	6,475.19	6,477.54	13.30	22.79	92.07	92.07	-248.13	1,792.65	1,219.59	1,183.54	36.05	33.829		
6,600.00	6,559.15	6,575.58	6,577.91	13.36	23.13	92.05	92.05	-247.46	1,790.99	1,217.91	1,181.46	36.44	33.418		
6,700.00	6,659.15	6,672.39	6,674.71	13.41	23.46	92.01	92.01	-246.68	1,789.69	1,216.53	1,179.70	36.83	33.032		
6,800.00	6,759.15	6,773.00	6,775.30	13.47	23.79	91.96	91.96	-245.57	1,788.44	1,215.26	1,178.04	37.22	32.649		
6,900.00	6,859.15	6,878.99	6,881.27	13.52	24.15	91.91	91.91	-244.45	1,786.85	1,213.73	1,176.10	37.63	32.255		
7,000.00	6,959.15	6,979.53	6,981.80	13.58	24.50	91.89	91.89	-243.86	1,784.98	1,211.85	1,173.82	38.03	31.867		
7,100.00	7,059.15	7,071.78	7,074.03	13.64	24.81	91.87	91.87	-243.57	1,783.53	1,210.27	1,171.86	38.41	31.510		
7,200.00	7,159.15	7,167.62	7,169.87	13.69	25.14	91.86	91.86	-243.22	1,782.55	1,209.23	1,170.43	38.80	31.168		
7,300.00	7,259.15	7,267.50	7,269.74	13.75	25.48	91.84	91.84	-242.84	1,781.69	1,208.36	1,169.17	39.20	30.828		
7,400.00	7,359.15	7,357.69	7,359.93	13.81	25.80	91.85	91.85	-243.06	1,781.25	1,207.88	1,168.30	39.58	30.520		
7,500.00	7,459.15	7,462.29	7,464.53	13.87	26.17	91.87	91.87	-243.44	1,781.03	1,207.69	1,167.69	40.00	30.192		
7,590.75	7,549.90	7,547.66	7,549.90	13.92	26.46	91.88	91.88	-243.66	1,780.83	1,207.49	1,167.14	40.35	29.926	CC	
7,600.00	7,559.15	7,556.00	7,558.24	13.93	26.49	91.88	91.88	-243.66	1,780.84	1,207.49	1,167.11	40.38	29.901		
7,700.00	7,659.15	7,652.23	7,654.47	13.98	26.82	91.90	91.90	-244.05	1,781.03	1,207.71	1,166.94	40.77	29.621		
7,800.00	7,759.15	7,752.21	7,754.44	14.04	27.17	91.93	91.93	-244.71	1,781.40	1,208.09	1,166.91	41.18	29.337	ES	
7,900.00	7,859.15	7,849.57	7,851.80	14.10	27.51	91.97	91.97	-245.60	1,781.82	1,208.56	1,166.98	41.58	29.065		
8,000.00	7,959.15	7,941.59	7,943.81	14.16	27.84	92.01	92.01	-246.33	1,782.70	1,209.54	1,167.58	41.96	28.825		
8,100.00	8,059.15	8,045.02	8,047.23	14.22	28.19	92.04	92.04	-247.17	1,783.76	1,210.59	1,168.21	42.38	28.567		
8,200.00	8,159.15	8,140.02	8,142.22	14.28	28.52	92.05	92.05	-247.27	1,784.94	1,211.83	1,169.07	42.76	28.338		
8,300.00	8,259.15	8,240.10	8,242.29	14.34	28.86	92.05	92.05	-247.38	1,786.28	1,213.17	1,170.01	43.16	28.107		
8,400.00	8,359.15	8,334.64	8,336.82	14.40	29.18	92.05	92.05	-247.48	1,787.79	1,214.77	1,171.23	43.55	27.897		
8,500.00	8,459.15	8,429.70	8,431.86	14.46	29.51	92.02	92.02	-246.85	1,789.81	1,216.87	1,172.94	43.93	27.703		
8,600.00	8,559.15	8,531.20	8,533.32	14.52	29.85	91.96	91.96	-245.60	1,792.10	1,219.08	1,174.76	44.33	27.503		
8,700.00	8,659.15	8,632.93	8,635.02	14.58	30.19	91.87	91.87	-243.80	1,794.18	1,221.07	1,176.34	44.73	27.301		
8,800.00	8,759.15	8,730.81	8,732.87	14.65	30.52	91.82	91.82	-242.87	1,796.23	1,223.13	1,178.01	45.12	27.111		
8,900.00	8,859.15	8,830.63	8,832.66	14.71	30.86	91.78	91.78	-242.10	1,798.45	1,225.33	1,179.81	45.51	26.922		
9,000.00	8,959.15	8,929.67	8,931.67	14.77	31.19	91.73	91.73	-241.07	1,800.61	1,227.48	1,181.57	45.91	26.736		
9,100.00	9,059.15	9,029.62	9,031.60	14.83	31.53	91.71	91.71	-240.73	1,802.90	1,229.75	1,183.44	46.31	26.554		
9,200.00	9,159.15	9,125.16	9,127.12	14.89	31.86	91.72	91.72	-240.93	1,805.15	1,232.12	1,185.42	46.70	26.383		
9,300.00	9,259.15	9,219.86	9,221.77	14.96	32.19	91.75	91.75	-241.62	1,807.80	1,234.94	1,187.85	47.09	26.225		
9,400.00	9,359.15	9,313.83	9,315.68	15.02	32.52	91.79	91.79	-242.75	1,810.83	1,238.20	1,190.73	47.48	26.080		
9,500.00	9,459.15	9,444.59	9,446.39	15.08	32.98	91.86	91.86	-244.17	1,814.13	1,240.84	1,192.84	48.00	25.852		
9,600.00	9,559.15	9,547.73	9,549.53	15.15	33.33	91.86	91.86	-244.35	1,815.07	1,241.77	1,193.35	48.42	25.648		
9,700.00	9,659.15	9,641.94	9,643.73	15.21	33.66	91.86	91.86	-244.35	1,816.00	1,242.75	1,193.95	48.80	25.465		
9,800.00	9,759.15	9,734.75	9,736.53	15.28	33.98	91.86	91.86	-244.41	1,817.45	1,244.31	1,195.13	49.19	25.298		
9,900.00	9,859.15	9,832.59	9,834.35	15.34	34.32	91.88	91.88	-244.86	1,819.33	1,246.25	1,196.66	49.59	25.132		
10,000.00	9,959.15	9,932.80	9,934.53	15.40	34.68	91.95	91.95	-246.55	1,821.23	1,248.20	1,198.20	50.00	24.962		
10,100.00	10,059.15	10,036.86	10,038.54	15.47	35.05	92.07	92.07	-249.17	1,823.20	1,250.18	1,199.74	50.44	24.787		
10,200.00	10,159.15	10,155.31	10,156.93	15.53	35.47	92.23	92.23	-252.69	1,824.18	1,251.13	1,200.21	50.92	24.569		

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Cosmo K Fee #223H - OH - OH

Survey Program: 146-3_MWD		Offset Design: Coonskin Fee Pad - (O) Cosmo K Fee #223H - OH - OH		Offset Site Error: 0.00 usft		Offset Well Error: 0.00 usft		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,259.15	10,296.68	10,298.19	15.60	35.98	92.46	-257.55	1,821.95	1,249.71	1,198.23	51.48	24.277	
10,400.00	10,359.15	10,404.31	10,405.70	15.67	36.36	92.60	-260.48	1,818.03	1,246.18	1,194.26	51.92	24.003	
10,500.00	10,459.15	10,498.65	10,499.94	15.73	36.69	92.74	-263.26	1,814.46	1,242.55	1,190.23	52.32	23.750	
10,600.00	10,559.15	10,585.06	10,586.26	15.80	37.00	92.88	-266.20	1,811.99	1,239.85	1,187.15	52.70	23.528	
10,700.00	10,659.15	10,674.82	10,675.96	15.86	37.32	93.01	-268.96	1,810.25	1,238.07	1,184.99	53.08	23.323	
10,800.00	10,759.15	10,765.42	10,766.52	15.93	37.64	93.13	-271.51	1,809.28	1,237.15	1,183.67	53.47	23.136	
10,900.00	10,859.15	10,865.69	10,866.76	16.00	38.00	93.24	-273.89	1,808.52	1,236.52	1,182.63	53.90	22.943	
11,000.00	10,959.15	10,964.09	10,965.15	16.06	38.35	93.29	-274.98	1,807.95	1,236.00	1,181.69	54.31	22.759	
11,100.00	11,059.15	11,065.41	11,066.46	16.13	38.71	93.34	-276.04	1,807.32	1,235.45	1,180.71	54.73	22.572	
11,195.30	11,154.45	11,153.40	11,154.45	16.19	39.02	93.40	-277.33	1,806.80	1,234.98	1,179.87	55.11	22.411	
11,200.00	11,159.15	11,157.01	11,158.05	16.20	39.04	93.41	-277.38	1,806.80	1,234.98	1,179.86	55.12	22.404	
11,300.00	11,259.00	11,235.90	11,236.93	16.28	39.32	93.99	-278.44	1,807.56	1,236.28	1,180.86	55.42	22.306	
11,400.00	11,356.78	11,329.82	11,330.82	16.40	39.65	94.59	-280.38	1,809.26	1,239.84	1,184.09	55.75	22.240	
11,500.00	11,449.54	11,427.68	11,428.64	16.52	39.99	95.74	-281.66	1,811.12	1,245.60	1,189.54	56.07	22.217	
11,600.00	11,534.47	11,543.40	11,544.35	16.63	40.38	97.67	-279.94	1,811.79	1,253.27	1,196.83	56.44	22.205	
11,700.00	11,608.98	11,627.62	11,628.56	16.75	40.67	99.04	-279.03	1,810.76	1,264.55	1,207.79	56.76	22.279	
11,800.00	11,670.81	11,685.41	11,686.33	16.89	40.86	99.26	-277.97	1,810.21	1,282.48	1,225.39	57.09	22.466	
11,900.00	11,718.09	11,732.27	11,733.17	17.06	41.02	98.46	-276.56	1,810.07	1,308.20	1,250.71	57.49	22.755	
12,000.00	11,749.36	11,765.48	11,766.36	17.30	41.13	96.31	-275.35	1,810.10	1,341.96	1,283.99	57.97	23.148	
12,100.00	11,763.70	11,783.28	11,784.14	17.63	41.19	92.58	-274.63	1,810.16	1,383.31	1,324.81	58.50	23.645	
12,200.00	11,764.05	11,787.81	11,788.66	18.04	41.21	90.85	-274.44	1,810.18	1,431.04	1,371.98	59.05	24.233	
12,300.00	11,763.18	11,791.24	11,792.10	18.54	41.22	91.01	-274.29	1,810.19	1,483.99	1,424.35	59.63	24.885	
12,400.00	11,762.31	11,792.00	11,792.86	19.13	41.22	91.04	-274.25	1,810.20	1,541.61	1,481.40	60.21	25.605	
12,500.00	11,761.43	11,797.48	11,798.33	19.79	41.24	91.30	-274.02	1,810.23	1,603.39	1,542.61	60.77	26.383	
12,600.00	11,760.56	11,800.46	11,801.31	20.52	41.25	91.44	-273.89	1,810.24	1,668.87	1,607.56	61.31	27.220	
12,700.00	11,759.69	11,803.39	11,804.23	21.32	41.26	91.57	-273.77	1,810.26	1,737.64	1,675.83	61.82	28.110	
12,800.00	11,758.82	14,055.29	12,947.15	22.16	49.84	132.41	1,141.55	1,864.07	1,765.06	1,700.07	64.99	27.160	
12,900.00	11,757.94	14,116.00	12,940.72	23.06	50.27	132.23	1,201.91	1,865.31	1,760.96	1,695.11	65.85	26.743	
13,000.00	11,757.07	14,176.86	12,934.76	24.01	50.74	132.03	1,262.42	1,867.91	1,759.10	1,692.32	66.78	26.342	
13,008.37	11,757.00	14,180.84	12,934.44	24.09	50.77	132.02	1,266.38	1,868.14	1,759.09	1,692.24	66.85	26.313	
13,100.00	11,756.20	14,210.00	12,932.29	24.99	50.99	131.93	1,295.41	1,869.94	1,760.47	1,692.90	67.57	26.054	
13,200.00	11,755.32	14,266.43	12,930.08	26.01	51.43	131.79	1,351.64	1,873.97	1,764.78	1,696.24	68.55	25.745	
13,300.00	11,754.45	14,320.27	12,930.70	27.06	51.85	131.71	1,405.30	1,878.17	1,772.37	1,702.85	69.52	25.494	
13,400.00	11,753.58	14,441.32	12,932.77	28.14	52.85	131.58	1,526.02	1,886.95	1,780.11	1,709.11	71.00	25.071	
13,500.00	11,752.71	14,569.57	12,935.67	29.24	53.96	131.49	1,654.02	1,894.25	1,787.20	1,714.61	72.59	24.620	
13,600.00	11,751.83	14,719.44	12,936.80	30.36	55.34	131.43	1,803.82	1,898.97	1,791.12	1,716.72	74.40	24.074	
13,700.00	11,750.96	14,814.07	12,938.42	31.51	56.25	131.45	1,898.42	1,899.93	1,794.24	1,718.41	75.83	23.660	
13,800.00	11,750.09	14,922.56	12,942.05	32.67	57.33	131.54	2,006.85	1,899.87	1,797.67	1,720.28	77.39	23.229	
13,900.00	11,749.22	15,052.87	12,944.21	33.85	58.67	131.62	2,137.13	1,898.61	1,799.15	1,720.00	79.16	22.729	
14,000.00	11,748.34	15,115.17	12,945.85	35.04	59.33	131.68	2,199.40	1,897.52	1,801.03	1,720.60	80.43	22.391	
14,100.00	11,747.47	15,297.69	12,952.03	36.24	61.32	131.94	2,381.67	1,892.68	1,802.97	1,720.34	82.62	21.822	
14,200.00	11,746.60	15,405.31	12,952.32	37.46	62.53	132.03	2,489.21	1,888.61	1,801.58	1,717.27	84.31	21.367	
14,300.00	11,745.73	15,490.55	12,952.83	38.68	63.50	132.12	2,574.37	1,884.97	1,800.07	1,714.21	85.86	20.966	
14,400.00	11,744.85	15,587.36	12,954.63	39.92	64.63	132.25	2,671.08	1,881.11	1,799.59	1,712.09	87.50	20.568	
14,500.00	11,743.98	15,683.78	12,955.95	41.16	65.78	132.36	2,767.42	1,877.25	1,798.78	1,709.62	89.16	20.175	
14,600.00	11,743.11	15,787.12	12,958.36	42.41	67.03	132.52	2,870.63	1,872.76	1,798.39	1,707.51	90.88	19.789	
14,700.00	11,742.23	15,898.56	12,960.16	43.67	68.39	132.67	2,981.94	1,867.70	1,797.37	1,704.68	92.69	19.391	
14,800.00	11,741.36	16,012.36	12,960.63	44.93	69.81	132.79	3,095.63	1,862.77	1,795.69	1,701.13	94.56	18.989	
14,900.00	11,740.49	16,122.89	12,959.73	46.21	71.21	132.88	3,206.05	1,857.96	1,793.16	1,696.71	96.45	18.591	
15,000.00	11,739.62	16,191.00	12,958.38	47.48	72.08	132.90	3,274.11	1,855.76	1,790.91	1,692.88	98.03	18.270	
15,100.00	11,738.74	16,320.05	12,957.47	48.76	73.76	132.95	3,403.06	1,852.46	1,789.94	1,689.79	100.16	17.871	
15,200.00	11,737.87	16,454.08	12,949.07	50.05	75.53	132.79	3,536.73	1,850.70	1,785.76	1,683.23	102.53	17.418	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - (O) Cosmo K Fee #223H - OH - OH

Offset Site Error: 0.00 usft

Survey Program: 146-3_MWD

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,300.00	11,737.00	16,557.32	12,942.14	51.34	76.91	132.66	3,639.73	1,849.43	1,781.53	1,676.91	104.63	17.028	
15,400.00	11,736.13	16,628.49	12,937.90	52.64	77.87	132.58	3,710.76	1,848.29	1,777.61	1,671.20	106.41	16.706	
15,500.00	11,735.25	16,708.91	12,935.23	53.93	78.95	132.55	3,791.13	1,847.09	1,775.43	1,667.19	108.24	16.403	
15,600.00	11,734.38	16,791.44	12,932.81	55.24	80.07	132.51	3,873.61	1,846.05	1,773.81	1,663.71	110.10	16.111	
15,642.97	11,734.01	16,818.79	12,932.25	55.80	80.45	132.50	3,900.96	1,845.94	1,773.62	1,662.81	110.81	16.006	
15,700.00	11,733.51	16,855.00	12,931.80	56.54	80.94	132.49	3,937.16	1,846.04	1,773.95	1,662.20	111.75	15.875	
15,800.00	11,732.64	16,936.31	12,931.84	57.85	82.05	132.48	4,018.47	1,846.51	1,775.65	1,662.08	113.57	15.635	
15,900.00	11,731.76	17,044.71	12,931.15	59.16	83.54	132.43	4,126.84	1,848.43	1,777.77	1,662.01	115.76	15.358	
16,000.00	11,730.89	17,169.40	12,926.06	60.47	85.28	132.22	4,251.35	1,852.54	1,778.65	1,660.33	118.32	15.033	
16,100.00	11,730.02	17,275.28	12,921.23	61.79	86.76	132.04	4,357.08	1,855.54	1,778.92	1,658.27	120.65	14.744	
16,200.00	11,729.15	17,399.65	12,915.83	63.11	88.51	131.87	4,481.31	1,857.51	1,778.46	1,655.27	123.19	14.436	
16,300.00	11,728.27	17,515.86	12,911.28	64.43	90.17	131.78	4,597.43	1,856.78	1,776.60	1,651.03	125.57	14.148	
16,400.00	11,727.40	17,602.52	12,907.96	65.75	91.41	131.71	4,684.02	1,856.18	1,774.75	1,647.12	127.63	13.905	
16,500.00	11,726.53	17,688.99	12,906.28	67.08	92.65	131.70	4,770.46	1,854.99	1,773.66	1,644.02	129.64	13.682	
16,600.00	11,725.65	17,818.48	12,904.39	68.40	94.52	131.72	4,899.91	1,852.17	1,772.35	1,640.29	132.06	13.421	
16,700.00	11,724.78	17,918.78	12,902.03	69.73	95.98	131.73	5,000.14	1,849.24	1,769.83	1,635.63	134.20	13.188	
16,800.00	11,723.91	17,996.76	12,900.70	71.06	97.12	131.74	5,078.08	1,847.32	1,768.08	1,631.96	136.12	12.990	
16,900.00	11,723.04	18,082.00	12,901.30	72.39	98.37	131.81	5,163.27	1,844.59	1,767.39	1,629.37	138.02	12.806	
17,000.00	11,722.16	18,198.98	12,902.94	73.72	100.09	131.95	5,280.17	1,840.45	1,766.96	1,626.77	140.19	12.604	
17,100.00	11,721.29	18,315.36	12,900.22	75.06	101.81	131.96	5,396.45	1,836.84	1,764.18	1,621.67	142.51	12.379	
17,200.00	11,720.42	18,394.56	12,901.07	76.39	102.98	132.06	5,475.57	1,833.53	1,762.93	1,618.59	144.34	12.214	
17,300.00	11,719.55	18,500.28	12,900.02	77.73	104.55	132.10	5,581.24	1,830.47	1,761.32	1,614.80	146.52	12.021	
17,400.00	11,718.67	18,577.54	12,899.17	79.07	105.70	132.11	5,658.48	1,829.26	1,760.64	1,612.20	148.44	11.861	
17,403.69	11,718.64	18,580.44	12,899.16	79.12	105.75	132.11	5,661.38	1,829.22	1,760.64	1,612.13	148.51	11.855	
17,500.00	11,717.80	18,750.56	12,899.50	80.40	108.29	132.22	5,831.40	1,824.44	1,760.97	1,609.76	151.21	11.646	
17,600.00	11,716.93	18,839.00	12,900.27	81.74	109.62	132.39	5,919.58	1,817.77	1,757.19	1,604.14	153.04	11.482	
17,700.00	11,716.06	18,896.43	12,902.95	83.08	110.49	132.57	5,976.70	1,812.47	1,754.80	1,600.29	154.52	11.357	
17,728.20	11,715.81	18,911.86	12,904.20	83.46	110.72	132.64	5,992.00	1,810.91	1,754.60	1,599.71	154.89	11.328	
17,800.00	11,715.18	18,980.72	12,911.29	84.43	111.77	132.98	6,060.08	1,803.42	1,754.75	1,598.87	155.88	11.257	
17,900.00	11,714.31	19,083.82	12,921.67	85.77	113.33	133.50	6,161.92	1,791.14	1,754.17	1,596.93	157.24	11.156	
17,923.21	11,714.11	19,102.99	12,923.85	86.08	113.63	133.60	6,180.81	1,788.71	1,754.14	1,596.62	157.52	11.136	
18,000.00	11,713.44	19,175.05	12,932.60	87.11	114.72	134.02	6,251.72	1,779.35	1,754.32	1,595.90	158.42	11.074	
18,100.00	11,712.56	19,191.00	12,934.55	88.46	114.97	134.12	6,267.41	1,777.27	1,756.68	1,597.45	159.24	11.032	SF
18,200.00	11,711.69	19,191.00	12,934.55	89.80	114.97	134.12	6,267.41	1,777.27	1,764.65	1,605.05	159.60	11.057	
18,300.00	11,710.82	19,191.00	12,934.55	91.15	114.97	134.12	6,267.41	1,777.27	1,778.20	1,618.65	159.56	11.145	
18,400.00	11,709.95	19,191.00	12,934.55	92.49	114.97	134.12	6,267.41	1,777.27	1,797.23	1,638.10	159.13	11.294	
18,500.00	11,709.07	19,191.00	12,934.55	93.84	114.97	134.12	6,267.41	1,777.27	1,821.56	1,663.21	158.35	11.504	
18,600.00	11,708.20	19,191.00	12,934.55	95.19	114.97	134.12	6,267.41	1,777.27	1,850.98	1,693.73	157.24	11.771	
18,700.00	11,707.33	19,191.00	12,934.55	96.54	114.97	134.12	6,267.41	1,777.27	1,885.25	1,729.38	155.87	12.095	
18,800.00	11,706.46	19,191.00	12,934.55	97.89	114.97	134.12	6,267.41	1,777.27	1,924.11	1,769.85	154.26	12.473	
18,900.00	11,705.58	19,191.00	12,934.55	99.24	114.97	134.12	6,267.41	1,777.27	1,967.29	1,814.83	152.47	12.903	
19,000.00	11,704.71	19,191.00	12,934.55	100.59	114.97	134.12	6,267.41	1,777.27	2,014.51	1,863.99	150.53	13.383	
19,100.00	11,703.84	19,191.00	12,934.55	101.94	114.97	134.12	6,267.41	1,777.27	2,065.50	1,917.01	148.49	13.910	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - Coonskin Fee 122H - OH - Plan #1

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:				Offset Site Error:
Reference										Offset Well Error:				0.00 usft
Measured	Vertical	Measured	Vertical	Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)			
0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00	0.00	25.00					
100.00	100.00	100.00	100.00	0.84	0.84	0.00	25.00	0.00	25.00	23.31	1.69	14.808		
200.00	200.00	200.00	200.00	1.48	1.48	0.00	25.00	0.00	25.00	22.04	2.96	8.452		
300.00	300.00	300.00	300.00	1.92	1.92	0.00	25.00	0.00	25.00	21.17	3.83	6.521		
400.00	400.00	400.00	400.00	2.28	2.28	0.00	25.00	0.00	25.00	20.45	4.55	5.494		
500.00	500.00	500.00	500.00	2.59	2.59	0.00	25.00	0.00	25.00	19.83	5.17	4.833		
600.00	600.00	600.00	600.00	2.87	2.87	0.00	25.00	0.00	25.00	19.27	5.73	4.360		
700.00	700.00	700.00	700.00	3.12	3.12	0.00	25.00	0.00	25.00	18.75	6.25	4.001	CC	
700.01	700.01	700.01	700.01	3.12	3.12	0.00	25.00	0.00	25.00	18.75	6.25	4.001		
800.00	800.00	800.08	800.08	3.23	3.23	-109.54	24.92	0.32	25.03	18.57	6.46	3.877		
900.00	899.96	900.24	900.20	3.51	3.51	-109.36	24.28	2.87	25.27	18.37	6.90	3.663	ES	
1,000.00	999.82	1,000.39	1,000.22	3.77	3.77	-109.02	23.01	7.96	25.75	18.43	7.32	3.517		
1,100.00	1,099.51	1,100.55	1,100.06	4.02	4.03	-108.52	21.10	15.59	26.48	18.75	7.73	3.425		
1,200.00	1,198.96	1,200.70	1,199.65	4.27	4.27	-107.90	18.56	25.77	27.45	19.31	8.13	3.375		
1,300.00	1,298.11	1,300.82	1,298.92	4.43	4.44	-107.20	15.39	38.42	28.66	20.24	8.41	3.406		
1,400.00	1,397.13	1,400.81	1,397.93	4.62	4.63	-106.55	12.02	51.92	29.96	21.14	8.82	3.398		
1,500.00	1,496.16	1,500.80	1,496.95	4.82	4.83	-105.96	8.64	65.42	31.26	22.04	9.22	3.391		
1,600.00	1,595.19	1,600.79	1,595.97	5.01	5.02	-105.41	5.27	78.92	32.57	22.95	9.62	3.385		
1,700.00	1,694.22	1,700.78	1,694.99	5.20	5.21	-104.91	1.89	92.42	33.88	23.85	10.02	3.380		
1,800.00	1,793.24	1,800.77	1,794.01	5.40	5.41	-104.44	-1.48	105.92	35.19	24.76	10.43	3.375		
1,900.00	1,892.27	1,900.76	1,893.03	5.59	5.60	-104.01	-4.86	119.42	36.51	25.67	10.83	3.370		
2,000.00	1,991.30	2,000.76	1,992.04	5.79	5.80	-103.61	-8.23	132.92	37.82	26.59	11.24	3.366		
2,100.00	2,090.33	2,100.75	2,091.06	5.98	5.99	-103.23	-11.60	146.42	39.14	27.50	11.64	3.363		
2,200.00	2,189.35	2,200.74	2,190.08	6.17	6.19	-102.88	-14.98	159.92	40.46	28.42	12.04	3.359		
2,300.00	2,288.38	2,300.73	2,289.10	6.37	6.38	-102.55	-18.35	173.42	41.78	29.33	12.45	3.356		
2,400.00	2,387.41	2,400.72	2,388.12	6.56	6.58	-102.24	-21.73	186.92	43.10	30.25	12.85	3.353		
2,500.00	2,486.44	2,500.71	2,487.13	6.76	6.77	-101.95	-25.10	200.42	44.43	31.17	13.26	3.351		
2,600.00	2,585.46	2,600.70	2,586.15	6.95	6.97	-101.68	-28.48	213.92	45.75	32.09	13.66	3.348		
2,700.00	2,684.49	2,700.69	2,685.17	7.15	7.17	-101.42	-31.85	227.42	47.08	33.01	14.07	3.346		
2,800.00	2,783.52	2,800.68	2,784.19	7.35	7.36	-101.18	-35.23	240.91	48.41	33.93	14.47	3.344		
2,900.00	2,882.55	2,900.67	2,883.21	7.54	7.56	-100.95	-38.60	254.41	49.73	34.85	14.88	3.342		
3,000.00	2,981.57	3,000.67	2,982.22	7.74	7.76	-100.73	-41.98	267.91	51.06	35.78	15.28	3.341		
3,100.00	3,080.60	3,100.66	3,081.24	7.94	7.96	-100.52	-45.35	281.41	52.39	36.70	15.69	3.339		
3,200.00	3,179.63	3,200.65	3,180.26	8.14	8.15	-100.32	-48.73	294.91	53.72	37.62	16.10	3.337		
3,300.00	3,278.66	3,300.64	3,279.28	8.34	8.35	-100.13	-52.10	308.41	55.05	38.55	16.50	3.336		
3,400.00	3,377.68	3,400.63	3,378.30	8.54	8.55	-99.95	-55.48	321.91	56.38	39.47	16.91	3.335		
3,500.00	3,476.71	3,500.62	3,477.31	8.74	8.75	-99.78	-58.85	335.41	57.71	40.40	17.31	3.333		
3,600.00	3,575.74	3,600.61	3,576.33	8.94	8.95	-99.62	-62.23	348.91	59.04	41.32	17.72	3.332		
3,700.00	3,674.77	3,700.60	3,675.35	9.14	9.16	-99.46	-65.60	362.41	60.38	42.25	18.13	3.331		
3,800.00	3,773.79	3,800.59	3,774.37	9.34	9.36	-99.32	-68.98	375.91	61.71	43.18	18.53	3.330		
3,900.00	3,872.82	3,900.58	3,873.39	9.54	9.56	-99.17	-72.35	389.41	63.04	44.10	18.94	3.329		
4,000.00	3,971.85	4,000.58	3,972.40	9.75	9.76	-99.04	-75.73	402.91	64.38	45.03	19.34	3.328		
4,100.00	4,070.88	4,100.57	4,071.42	9.95	9.96	-98.90	-79.10	416.41	65.71	45.96	19.75	3.327		
4,200.00	4,169.90	4,200.56	4,170.44	10.15	10.17	-98.78	-82.48	429.91	67.04	46.89	20.16	3.326		
4,300.00	4,268.93	4,300.55	4,269.46	10.36	10.37	-98.66	-85.85	443.41	68.38	47.82	20.56	3.325		
4,400.00	4,367.96	4,400.54	4,368.48	10.56	10.57	-98.54	-89.23	456.90	69.71	48.74	20.97	3.324		
4,500.00	4,466.99	4,500.53	4,467.49	10.77	10.78	-98.43	-92.60	470.40	71.05	49.67	21.38	3.324		
4,600.00	4,566.01	4,600.52	4,566.51	10.97	10.98	-98.32	-95.98	483.90	72.38	50.60	21.78	3.323		
4,700.00	4,665.04	4,700.51	4,665.53	11.17	11.19	-98.22	-99.35	497.40	73.72	51.53	22.19	3.322		
4,800.00	4,764.07	4,800.50	4,764.55	11.38	11.39	-98.11	-102.73	510.90	75.05	52.46	22.60	3.322		
4,900.00	4,863.10	4,900.49	4,863.57	11.58	11.59	-98.02	-106.10	524.40	76.39	53.39	23.00	3.321		
5,000.00	4,962.12	5,000.49	4,962.59	11.79	11.80	-97.92	-109.48	537.90	77.73	54.32	23.41	3.320		

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - Coonskin Fee 122H - OH - Plan #1

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	
												Offset Well Error:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,061.15	5,100.48	5,061.60	11.99	12.00	-97.83	-112.85	551.40	79.06	55.25	23.82	3.320	
5,200.00	5,160.27	5,200.46	5,160.62	12.17	12.21	-97.28	-116.22	564.90	80.31	56.12	24.19	3.320	
5,300.00	5,259.69	5,300.40	5,259.58	12.35	12.41	-94.98	-119.60	578.39	81.31	56.72	24.59	3.307	
5,400.00	5,359.35	5,400.22	5,358.43	12.52	12.61	-90.93	-122.97	591.87	82.35	57.37	24.98	3.297	SF
5,500.00	5,459.20	5,499.86	5,457.10	12.68	12.82	-85.24	-126.33	605.32	83.98	58.62	25.36	3.311	
5,600.00	5,559.15	5,599.25	5,555.52	12.83	13.02	-78.17	-129.68	618.74	86.92	61.18	25.73	3.378	
5,700.00	5,659.15	5,698.34	5,653.65	12.87	13.22	39.31	-133.03	632.12	91.89	65.86	26.03	3.530	
5,800.00	5,759.15	5,797.36	5,751.71	12.92	13.43	46.59	-136.37	645.48	98.69	72.35	26.34	3.747	
5,900.00	5,859.15	5,896.39	5,849.77	12.98	13.63	52.85	-139.71	658.85	106.87	80.25	26.62	4.015	
6,000.00	5,959.15	5,995.42	5,947.84	13.03	13.83	58.18	-143.06	672.22	116.15	89.26	26.89	4.320	
6,100.00	6,059.15	6,094.45	6,045.90	13.08	14.03	62.70	-146.40	685.59	126.28	99.13	27.15	4.652	
6,200.00	6,159.15	6,193.47	6,143.96	13.14	14.24	66.53	-149.74	698.96	137.08	109.68	27.40	5.003	
6,300.00	6,259.15	6,292.50	6,242.03	13.19	14.44	69.79	-153.08	712.33	148.40	120.75	27.65	5.368	
6,400.00	6,359.15	6,391.53	6,340.09	13.25	14.64	72.59	-156.43	725.70	160.12	132.23	27.89	5.741	
6,500.00	6,459.15	6,490.55	6,438.15	13.30	14.85	75.00	-159.77	739.07	172.18	144.04	28.14	6.120	
6,600.00	6,559.15	6,589.58	6,536.22	13.36	15.05	77.09	-163.11	752.44	184.49	156.12	28.38	6.501	
6,700.00	6,659.15	6,688.61	6,634.28	13.41	15.25	78.92	-166.45	765.81	197.02	168.40	28.62	6.884	
6,800.00	6,759.15	6,787.63	6,732.35	13.47	15.45	80.54	-169.79	779.18	209.73	180.86	28.87	7.266	
6,900.00	6,859.15	6,886.66	6,830.41	13.52	15.66	81.96	-173.14	792.55	222.58	193.47	29.11	7.646	
7,000.00	6,959.15	6,985.69	6,928.47	13.58	15.86	83.23	-176.48	805.92	235.55	206.20	29.35	8.025	
7,100.00	7,059.15	7,084.72	7,026.54	13.64	16.06	84.37	-179.82	819.28	248.62	219.02	29.60	8.400	
7,200.00	7,159.15	7,183.74	7,124.60	13.69	16.27	85.39	-183.16	832.65	261.78	231.94	29.84	8.772	
7,300.00	7,259.15	7,282.77	7,222.66	13.75	16.47	86.32	-186.51	846.02	275.02	244.93	30.09	9.140	
7,400.00	7,359.15	7,381.80	7,320.73	13.81	16.67	87.16	-189.85	859.39	288.32	257.98	30.34	9.504	
7,500.00	7,459.15	7,483.75	7,421.72	13.87	16.86	87.94	-193.24	872.97	301.50	270.93	30.57	9.864	
7,600.00	7,559.15	7,591.43	7,528.67	13.93	17.06	88.57	-196.25	885.00	312.58	281.77	30.82	10.143	
7,700.00	7,659.15	7,699.72	7,636.55	13.98	17.24	89.02	-198.54	894.14	320.98	289.93	31.06	10.335	
7,800.00	7,759.15	7,808.46	7,745.10	14.04	17.39	89.31	-200.08	900.33	326.66	295.38	31.28	10.444	
7,900.00	7,859.15	7,917.48	7,854.06	14.10	17.52	89.46	-200.88	903.53	329.58	298.12	31.46	10.476	
8,000.00	7,959.15	8,022.57	7,959.15	14.16	17.57	89.48	-201.00	904.00	330.01	298.46	31.55	10.459	
8,100.00	8,059.15	8,122.57	8,059.15	14.22	17.61	89.48	-201.00	904.00	330.01	298.37	31.65	10.427	
8,200.00	8,159.15	8,222.57	8,159.15	14.28	17.65	89.48	-201.00	904.00	330.01	298.27	31.75	10.396	
8,300.00	8,259.15	8,322.57	8,259.15	14.34	17.69	89.48	-201.00	904.00	330.01	298.17	31.84	10.364	
8,400.00	8,359.15	8,422.57	8,359.15	14.40	17.73	89.48	-201.00	904.00	330.01	298.07	31.94	10.332	
8,500.00	8,459.15	8,522.57	8,459.15	14.46	17.77	89.48	-201.00	904.00	330.01	297.97	32.04	10.300	
8,600.00	8,559.15	8,622.57	8,559.15	14.52	17.82	89.48	-201.00	904.00	330.01	297.87	32.14	10.268	
8,700.00	8,659.15	8,722.57	8,659.15	14.58	17.86	89.48	-201.00	904.00	330.01	297.77	32.24	10.236	
8,800.00	8,759.15	8,822.57	8,759.15	14.65	17.90	89.48	-201.00	904.00	330.01	297.67	32.34	10.204	
8,900.00	8,859.15	8,922.57	8,859.15	14.71	17.94	89.48	-201.00	904.00	330.01	297.57	32.44	10.173	
9,000.00	8,959.15	9,022.57	8,959.15	14.77	17.99	89.48	-201.00	904.00	330.01	297.47	32.54	10.141	
9,100.00	9,059.15	9,122.57	9,059.15	14.83	18.03	89.48	-201.00	904.00	330.01	297.37	32.64	10.109	
9,200.00	9,159.15	9,222.57	9,159.15	14.89	18.07	89.48	-201.00	904.00	330.01	297.27	32.75	10.078	
9,300.00	9,259.15	9,322.57	9,259.15	14.96	18.12	89.48	-201.00	904.00	330.01	297.16	32.85	10.046	
9,400.00	9,359.15	9,422.57	9,359.15	15.02	18.16	89.48	-201.00	904.00	330.01	297.06	32.95	10.015	
9,500.00	9,459.15	9,522.57	9,459.15	15.08	18.21	89.48	-201.00	904.00	330.01	296.96	33.06	9.983	
9,600.00	9,559.15	9,622.57	9,559.15	15.15	18.25	89.48	-201.00	904.00	330.01	296.85	33.16	9.952	
9,700.00	9,659.15	9,722.57	9,659.15	15.21	18.30	89.48	-201.00	904.00	330.01	296.75	33.27	9.921	
9,800.00	9,759.15	9,822.57	9,759.15	15.28	18.34	89.48	-201.00	904.00	330.01	296.64	33.37	9.889	
9,900.00	9,859.15	9,922.57	9,859.15	15.34	18.39	89.48	-201.00	904.00	330.01	296.54	33.48	9.858	
10,000.00	9,959.15	10,022.57	9,959.15	15.40	18.44	89.48	-201.00	904.00	330.01	296.43	33.58	9.827	
10,100.00	10,059.15	10,122.57	10,059.15	15.47	18.48	89.48	-201.00	904.00	330.01	296.33	33.69	9.796	
10,200.00	10,159.15	10,222.57	10,159.15	15.53	18.53	89.48	-201.00	904.00	330.01	296.22	33.80	9.765	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - Coonskin Fee 122H - OH - Plan #1

Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)										Rule Assigned:		Offset Site Error:	0.00 usft
Reference										Offset Well Error:		0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	10,259.15	10,322.57	10,259.15	15.60	18.58	89.48	-201.00	904.00	330.01	296.11	33.90	9.734	
10,400.00	10,359.15	10,422.57	10,359.15	15.67	18.62	89.48	-201.00	904.00	330.01	296.00	34.01	9.703	
10,500.00	10,459.15	10,522.57	10,459.15	15.73	18.67	89.48	-201.00	904.00	330.01	295.90	34.12	9.673	
10,600.00	10,559.15	10,622.57	10,559.15	15.80	18.72	89.48	-201.00	904.00	330.01	295.79	34.23	9.642	
10,612.19	10,571.35	10,634.76	10,571.35	15.81	18.73	89.48	-201.00	904.00	330.01	295.77	34.24	9.638	
10,700.00	10,659.15	10,722.56	10,659.14	15.86	18.77	89.43	-200.72	904.00	330.01	295.68	34.33	9.612	
10,700.28	10,659.43	10,722.84	10,659.41	15.86	18.77	89.43	-200.71	904.00	330.01	295.68	34.33	9.612	
10,800.00	10,759.15	10,820.92	10,756.70	15.93	18.84	87.44	-189.23	903.90	330.24	295.82	34.42	9.595	
10,900.00	10,859.15	10,912.84	10,844.86	16.00	18.89	83.01	-163.56	903.67	332.45	297.93	34.52	9.630	
11,000.00	10,959.15	10,994.82	10,919.15	16.06	18.91	77.18	-129.04	903.37	340.16	305.40	34.75	9.788	
11,100.00	11,059.15	11,065.63	10,978.79	16.13	18.94	71.04	-90.95	903.04	357.08	321.80	35.29	10.120	
11,200.00	11,159.15	11,125.67	11,025.35	16.20	18.98	65.34	-53.10	902.71	385.65	349.37	36.28	10.631	
11,300.00	11,259.00	11,178.08	11,062.57	16.28	19.04	58.43	-16.23	902.39	424.53	386.98	37.55	11.305	
11,400.00	11,356.78	11,229.74	11,095.81	16.40	19.11	51.04	23.29	902.05	465.90	426.97	38.93	11.969	
11,500.00	11,449.54	11,281.20	11,125.25	16.52	19.21	45.06	65.47	901.68	506.18	465.90	40.28	12.567	
11,600.00	11,534.47	11,332.51	11,150.72	16.63	19.32	40.41	110.00	901.29	543.22	501.65	41.57	13.068	
11,700.00	11,608.98	11,383.71	11,172.07	16.75	19.46	36.89	156.51	900.89	575.53	532.76	42.77	13.456	
11,800.00	11,670.81	11,434.83	11,189.15	16.89	19.61	34.32	204.68	900.47	602.10	558.23	43.87	13.726	
11,900.00	11,718.09	11,485.89	11,201.86	17.06	19.79	32.54	254.11	900.04	622.23	577.38	44.84	13.875	
12,000.00	11,749.36	11,536.92	11,210.12	17.30	19.99	31.45	304.45	899.60	635.44	589.74	45.70	13.904	
12,100.00	11,763.70	11,600.00	11,214.09	17.63	20.26	30.95	367.37	899.06	641.69	595.30	46.39	13.832	
12,200.00	11,764.05	11,667.16	11,213.59	18.04	20.59	30.94	434.52	898.47	641.83	594.91	46.92	13.680	
12,300.00	11,763.18	11,767.16	11,212.72	18.54	21.13	30.94	534.52	897.60	641.82	594.44	47.38	13.547	
12,400.00	11,762.31	11,867.16	11,211.85	19.13	21.72	30.94	634.51	896.73	641.82	593.93	47.89	13.403	
12,500.00	11,761.43	11,967.16	11,210.99	19.79	22.37	30.94	734.50	895.86	641.81	593.37	48.45	13.248	
12,600.00	11,760.56	12,067.16	11,210.12	20.52	23.07	30.94	834.49	894.99	641.81	592.76	49.05	13.084	
12,700.00	11,759.69	12,167.16	11,209.25	21.32	23.82	30.94	934.49	894.12	641.80	592.10	49.70	12.913	
12,800.00	11,758.82	12,267.16	11,208.39	22.16	24.61	30.94	1,034.48	893.25	641.80	591.40	50.39	12.736	
12,900.00	11,757.94	12,367.16	11,207.52	23.06	25.45	30.94	1,134.47	892.38	641.79	590.66	51.13	12.553	
13,000.00	11,757.07	12,467.16	11,206.65	24.01	26.33	30.94	1,234.46	891.51	641.79	589.88	51.90	12.365	
13,100.00	11,756.20	12,567.16	11,205.79	24.99	27.25	30.95	1,334.46	890.64	641.78	589.07	52.71	12.175	
13,200.00	11,755.32	12,667.16	11,204.92	26.01	28.20	30.95	1,434.45	889.77	641.78	588.21	53.56	11.982	
13,300.00	11,754.45	12,767.16	11,204.05	27.06	29.18	30.95	1,534.44	888.90	641.77	587.33	54.44	11.788	
13,400.00	11,753.58	12,867.16	11,203.19	28.14	30.19	30.95	1,634.43	888.03	641.76	586.40	55.36	11.593	
13,500.00	11,752.71	12,967.16	11,202.32	29.24	31.22	30.95	1,734.43	887.16	641.76	585.45	56.31	11.398	
13,600.00	11,751.83	13,067.16	11,201.46	30.36	32.28	30.95	1,834.42	886.29	641.75	584.47	57.28	11.203	
13,700.00	11,750.96	13,167.16	11,200.59	31.51	33.37	30.95	1,934.41	885.42	641.75	583.46	58.29	11.010	
13,800.00	11,750.09	13,267.16	11,199.72	32.67	34.47	30.95	2,034.40	884.55	641.74	582.43	59.32	10.819	
13,900.00	11,749.22	13,367.16	11,198.86	33.85	35.58	30.95	2,134.40	883.68	641.74	581.36	60.38	10.629	
14,000.00	11,748.34	13,467.16	11,197.99	35.04	36.72	30.95	2,234.39	882.81	641.73	580.28	61.46	10.442	
14,100.00	11,747.47	13,567.16	11,197.12	36.24	37.87	30.95	2,334.38	881.94	641.73	579.17	62.56	10.258	
14,200.00	11,746.60	13,667.16	11,196.26	37.46	39.03	30.95	2,434.37	881.07	641.72	578.04	63.69	10.076	
14,300.00	11,745.73	13,767.16	11,195.39	38.68	40.21	30.95	2,534.36	880.21	641.72	576.89	64.83	9.898	
14,400.00	11,744.85	13,867.16	11,194.52	39.92	41.40	30.95	2,634.36	879.34	641.71	575.72	66.00	9.723	
14,500.00	11,743.98	13,967.16	11,193.66	41.16	42.60	30.95	2,734.35	878.47	641.71	574.53	67.18	9.552	
14,600.00	11,743.11	14,067.16	11,192.79	42.41	43.81	30.95	2,834.34	877.60	641.70	573.32	68.38	9.384	
14,700.00	11,742.23	14,167.16	11,191.92	43.67	45.03	30.95	2,934.33	876.73	641.70	572.10	69.60	9.220	
14,800.00	11,741.36	14,267.16	11,191.06	44.93	46.25	30.95	3,034.33	875.86	641.69	570.86	70.83	9.059	
14,900.00	11,740.49	14,367.16	11,190.19	46.21	47.49	30.95	3,134.32	874.99	641.69	569.60	72.08	8.902	
15,000.00	11,739.62	14,467.16	11,189.32	47.48	48.73	30.95	3,234.31	874.12	641.68	568.34	73.35	8.749	
15,100.00	11,738.74	14,567.16	11,188.46	48.76	49.98	30.95	3,334.30	873.25	641.68	567.05	74.62	8.599	
15,200.00	11,737.87	14,667.16	11,187.59	50.05	51.23	30.95	3,434.30	872.38	641.67	565.76	75.91	8.453	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Coonskin Fee Pad - Coonskin Fee 122H - OH - Plan #1

Survey Program:		0-MWD+HRGM+SAG+FDIR (rev.5)								Rule Assigned:		Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
15,300.00	11,737.00	14,767.16	11,186.72	51.34	52.49	30.95	3,534.29	871.51	641.67	564.45	77.21	8.310		
15,400.00	11,736.13	14,867.16	11,185.86	52.64	53.76	30.95	3,634.28	870.64	641.66	563.14	78.52	8.171		
15,500.00	11,735.25	14,967.16	11,184.99	53.93	55.03	30.95	3,734.27	869.77	641.66	561.81	79.85	8.036		
15,600.00	11,734.38	15,067.16	11,184.12	55.24	56.30	30.95	3,834.27	868.90	641.65	560.47	81.18	7.904		
15,700.00	11,733.51	15,167.16	11,183.26	56.54	57.58	30.95	3,934.26	868.03	641.64	559.12	82.53	7.775		
15,800.00	11,732.64	15,267.16	11,182.39	57.85	58.86	30.95	4,034.25	867.16	641.64	557.76	83.88	7.649		
15,900.00	11,731.76	15,367.16	11,181.52	59.16	60.15	30.95	4,134.24	866.29	641.63	556.39	85.24	7.527		
16,000.00	11,730.89	15,467.16	11,180.66	60.47	61.44	30.95	4,234.24	865.42	641.63	555.01	86.61	7.408		
16,100.00	11,730.02	15,567.16	11,179.79	61.79	62.73	30.95	4,334.23	864.55	641.62	553.63	87.99	7.292		
16,200.00	11,729.15	15,667.16	11,178.92	63.11	64.03	30.95	4,434.22	863.68	641.62	552.24	89.38	7.178		
16,300.00	11,728.27	15,767.16	11,178.06	64.43	65.33	30.95	4,534.21	862.81	641.61	550.84	90.78	7.068		
16,400.00	11,727.40	15,867.16	11,177.19	65.75	66.63	30.95	4,634.21	861.94	641.61	549.43	92.18	6.961		
16,500.00	11,726.53	15,967.16	11,176.32	67.08	67.94	30.95	4,734.20	861.07	641.60	548.02	93.59	6.856		
16,600.00	11,725.65	16,067.16	11,175.46	68.40	69.25	30.95	4,834.19	860.20	641.60	546.60	95.00	6.754		
16,700.00	11,724.78	16,167.16	11,174.59	69.73	70.56	30.96	4,934.18	859.33	641.59	545.17	96.42	6.654		
16,800.00	11,723.91	16,267.16	11,173.73	71.06	71.87	30.96	5,034.18	858.46	641.59	543.74	97.85	6.557		
16,900.00	11,723.04	16,367.16	11,172.86	72.39	73.19	30.96	5,134.17	857.59	641.58	542.30	99.28	6.462		
17,000.00	11,722.16	16,467.16	11,171.99	73.72	74.50	30.96	5,234.16	856.72	641.58	540.86	100.72	6.370		
17,100.00	11,721.29	16,567.16	11,171.13	75.06	75.82	30.96	5,334.15	855.85	641.57	539.41	102.16	6.280		
17,200.00	11,720.42	16,667.16	11,170.26	76.39	77.14	30.96	5,434.15	854.98	641.57	537.95	103.61	6.192		
17,300.00	11,719.55	16,767.16	11,169.39	77.73	78.46	30.96	5,534.14	854.11	641.56	536.50	105.07	6.106		
17,400.00	11,718.67	16,867.16	11,168.53	79.07	79.79	30.96	5,634.13	853.24	641.56	535.03	106.52	6.023		
17,500.00	11,717.80	16,967.16	11,167.66	80.40	81.11	30.96	5,734.12	852.37	641.55	533.56	107.99	5.941		
17,600.00	11,716.93	17,067.16	11,166.79	81.74	82.44	30.96	5,834.12	851.50	641.55	532.09	109.45	5.861		
17,700.00	11,716.06	17,167.16	11,165.93	83.08	83.77	30.96	5,934.11	850.63	641.54	530.62	110.92	5.784		
17,800.00	11,715.18	17,267.16	11,165.06	84.43	85.10	30.96	6,034.10	849.76	641.54	529.14	112.40	5.708		
17,900.00	11,714.31	17,367.16	11,164.19	85.77	86.43	30.96	6,134.09	848.89	641.53	527.65	113.88	5.634		
18,000.00	11,713.44	17,467.16	11,163.33	87.11	87.76	30.96	6,234.09	848.02	641.52	526.17	115.36	5.561		
18,100.00	11,712.56	17,567.16	11,162.46	88.46	89.09	30.96	6,334.08	847.15	641.52	524.68	116.84	5.490		
18,200.00	11,711.69	17,667.16	11,161.59	89.80	90.42	30.96	6,434.07	846.28	641.51	523.18	118.33	5.421		
18,300.00	11,710.82	17,767.16	11,160.73	91.15	91.76	30.96	6,534.06	845.41	641.51	521.68	119.82	5.354		
18,400.00	11,709.95	17,867.16	11,159.86	92.49	93.10	30.96	6,634.06	844.54	641.50	520.18	121.32	5.288		
18,500.00	11,709.07	17,967.16	11,158.99	93.84	94.43	30.96	6,734.05	843.67	641.50	518.68	122.82	5.223		
18,600.00	11,708.20	18,067.16	11,158.13	95.19	95.77	30.96	6,834.04	842.80	641.49	517.18	124.32	5.160		
18,700.00	11,707.33	18,167.16	11,157.26	96.54	97.11	30.96	6,934.03	841.93	641.49	515.67	125.82	5.098		
18,800.00	11,706.46	18,267.16	11,156.39	97.89	98.45	30.96	7,034.03	841.06	641.48	514.15	127.33	5.038		
18,900.00	11,705.58	18,367.16	11,155.53	99.24	99.79	30.96	7,134.02	840.19	641.48	512.64	128.84	4.979		
19,000.00	11,704.71	18,467.16	11,154.66	100.59	101.13	30.96	7,234.01	839.32	641.47	511.12	130.35	4.921		
19,100.00	11,703.84	18,567.16	11,153.79	101.94	102.47	30.96	7,334.00	838.45	641.47	509.60	131.86	4.865		
19,200.00	11,702.97	18,667.16	11,152.93	103.29	103.82	30.96	7,434.00	837.58	641.46	508.08	133.38	4.809		
19,300.00	11,702.09	18,767.16	11,152.06	104.64	105.16	30.96	7,533.99	836.71	641.46	506.56	134.90	4.755		
19,377.12	11,701.42	18,844.28	11,151.39	105.68	106.20	30.96	7,611.10	836.04	641.45	505.39	136.07	4.714		

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: John Callahan Offsets Pad 2 - John Callahan Fed Com 112H - OH - Design #1

Survey Program: 0-													Offset Site Error:	0.00 usft
Reference				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	0.00 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	
18,300.00	11,710.82	10,250.00	10,137.84	91.15	35.88	2.28	7,880.68	565.86	2,070.04	2,015.09	54.96	37.667		
18,400.00	11,709.95	10,250.00	10,137.84	92.49	35.88	2.28	7,880.68	565.86	2,005.86	1,950.40	55.46	36.168		
18,500.00	11,709.07	10,274.19	10,152.61	93.84	35.93	2.22	7,899.68	563.45	1,944.06	1,888.11	55.95	34.747		
18,600.00	11,708.20	10,300.00	10,167.46	95.19	35.97	2.15	7,920.62	560.80	1,884.87	1,828.41	56.46	33.385		
18,700.00	11,707.33	10,300.00	10,167.46	96.54	35.97	2.15	7,920.62	560.80	1,828.45	1,771.39	57.06	32.045		
18,800.00	11,706.46	10,350.00	10,193.45	97.89	36.06	2.00	7,962.98	555.42	1,774.99	1,717.44	57.55	30.842		
18,900.00	11,705.58	10,350.00	10,193.45	99.24	36.06	2.00	7,962.98	555.42	1,724.13	1,665.92	58.21	29.617		
19,000.00	11,704.71	10,376.07	10,205.50	100.59	36.10	1.91	7,985.91	552.51	1,676.90	1,618.08	58.82	28.507		
19,100.00	11,703.84	10,400.00	10,215.63	101.94	36.15	1.82	8,007.42	549.79	1,633.23	1,573.76	59.47	27.464		
19,200.00	11,702.97	10,423.13	10,224.54	103.29	36.19	1.74	8,028.59	547.10	1,593.29	1,533.15	60.14	26.493		
19,300.00	11,702.09	10,450.00	10,233.81	104.64	36.24	1.63	8,053.61	543.93	1,557.33	1,496.50	60.83	25.601		
19,377.12	11,701.42	10,450.00	10,233.81	105.68	36.24	1.63	8,053.61	543.93	1,532.79	1,471.31	61.48	24.933	CC, 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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: John Callahan Offsets Pad 2 - John Callahan Fed Com 132H - OH - Design #1

Survey Program: 0-		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)			
17,400.00	11,718.67	11,700.00	11,649.77	79.07	41.29	-20.88	7,668.67	486.00	2,034.15	1,972.47	61.68	32.981	
17,500.00	11,717.80	11,700.00	11,649.77	80.40	41.29	-20.88	7,668.67	486.00	1,934.19	1,872.40	61.79	31.303	
17,600.00	11,716.93	11,700.00	11,649.77	81.74	41.29	-20.88	7,668.67	486.00	1,834.23	1,772.33	61.90	29.631	
17,700.00	11,716.06	11,700.00	11,649.77	83.08	41.29	-20.88	7,668.67	486.00	1,734.28	1,672.26	62.02	27.965	
17,800.00	11,715.18	11,700.00	11,649.77	84.43	41.29	-20.88	7,668.67	486.00	1,634.33	1,572.20	62.13	26.305	
17,900.00	11,714.31	11,700.00	11,649.77	85.77	41.29	-20.88	7,668.67	486.00	1,534.39	1,472.14	62.24	24.651	
18,000.00	11,713.44	11,700.00	11,649.77	87.11	41.29	-20.88	7,668.67	486.00	1,434.46	1,372.10	62.36	23.004	
18,100.00	11,712.56	11,700.00	11,649.77	88.46	41.29	-20.88	7,668.67	486.00	1,334.53	1,272.07	62.47	21.363	
18,200.00	11,711.69	11,700.00	11,649.77	89.80	41.29	-20.88	7,668.67	486.00	1,234.63	1,172.04	62.58	19.728	
18,300.00	11,710.82	11,700.00	11,649.77	91.15	41.29	-20.88	7,668.67	486.00	1,134.73	1,072.04	62.69	18.100	
18,400.00	11,709.95	11,700.00	11,649.77	92.49	41.29	-20.88	7,668.67	486.00	1,034.86	972.06	62.80	16.478	
18,500.00	11,709.07	11,700.00	11,649.77	93.84	41.29	-20.88	7,668.67	486.00	935.02	872.10	62.91	14.862	
18,600.00	11,708.20	11,700.00	11,649.77	95.19	41.29	-20.88	7,668.67	486.00	835.21	772.19	63.02	13.253	
18,700.00	11,707.33	11,700.00	11,649.77	96.54	41.29	-20.88	7,668.67	486.00	735.45	672.33	63.12	11.651	
18,800.00	11,706.46	11,700.00	11,649.77	97.89	41.29	-20.88	7,668.67	486.00	635.77	572.54	63.23	10.055	
18,900.00	11,705.58	11,700.00	11,649.77	99.24	41.29	-20.88	7,668.67	486.00	536.21	472.87	63.35	8.465	
19,000.00	11,704.71	11,715.64	11,665.36	100.59	41.34	-28.71	7,669.87	486.02	436.36	372.27	64.09	6.809	
19,100.00	11,703.84	11,720.79	11,670.49	101.94	41.36	-32.61	7,670.36	486.04	336.86	272.17	64.70	5.207	
19,200.00	11,702.97	11,727.21	11,676.87	103.29	41.38	-38.97	7,671.03	486.05	237.56	171.63	65.93	3.603	
19,300.00	11,702.09	11,735.43	11,685.04	104.64	41.41	-50.74	7,672.00	486.07	138.72	69.15	69.57	1.994	Collision Risk Procedures Req.
19,377.12	11,701.42	11,743.53	11,693.07	105.68	41.43	-68.01	7,673.07	486.10	63.83	-18.99	82.82	0.771	No-Go Zone - Stop Drilling, CC, ES, S

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: John Callahan Offsets Pad 2 - John Callahan Fed Com 202H - OH - Design #1

Survey Program: 0-		Rule Assigned:										Offset Site Error:	0.00 usft
Reference		Offset Well Error:										Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,400.00	11,718.67	11,764.49	11,718.67	79.07	41.36	-93.08	7,665.44	175.72	2,058.94	1,990.92	68.02	30.270	
17,500.00	11,717.80	11,763.62	11,717.80	80.40	41.35	-92.93	7,665.44	175.72	1,960.30	1,891.63	68.67	28.546	
17,600.00	11,716.93	11,762.75	11,716.93	81.74	41.35	-92.78	7,665.44	175.72	1,861.81	1,792.41	69.40	26.829	
17,700.00	11,716.06	11,761.88	11,716.06	83.08	41.35	-92.62	7,665.44	175.72	1,763.48	1,693.28	70.20	25.120	
17,800.00	11,715.18	11,761.00	11,715.18	84.43	41.34	-92.47	7,665.44	175.72	1,665.36	1,594.24	71.11	23.419	
17,900.00	11,714.31	11,760.13	11,714.31	85.77	41.34	-92.32	7,665.44	175.72	1,567.47	1,495.33	72.14	21.728	
18,000.00	11,713.44	11,759.26	11,713.44	87.11	41.34	-92.17	7,665.44	175.72	1,469.86	1,396.54	73.31	20.049	
18,100.00	11,712.56	11,758.39	11,712.56	88.46	41.33	-92.02	7,665.44	175.72	1,372.60	1,297.93	74.66	18.383	
18,200.00	11,711.69	11,757.51	11,711.69	89.80	41.33	-91.87	7,665.44	175.72	1,275.76	1,199.52	76.24	16.734	
18,300.00	11,710.82	11,756.64	11,710.82	91.15	41.33	-91.72	7,665.44	175.72	1,179.44	1,101.36	78.08	15.106	
18,400.00	11,709.95	11,755.77	11,709.95	92.49	41.33	-91.56	7,665.44	175.72	1,083.80	1,003.53	80.27	13.502	
18,500.00	11,709.07	11,754.89	11,709.07	93.84	41.32	-91.41	7,665.44	175.72	989.01	906.12	82.89	11.931	
18,600.00	11,708.20	11,754.02	11,708.20	95.19	41.32	-91.26	7,665.44	175.72	895.36	809.27	86.09	10.401	
18,700.00	11,707.33	11,753.15	11,707.33	96.54	41.32	-91.11	7,665.44	175.72	803.24	713.22	90.02	8.923	
18,800.00	11,706.46	11,752.28	11,706.46	97.89	41.31	-90.96	7,665.44	175.72	713.24	618.33	94.91	7.515	
18,900.00	11,705.58	11,751.40	11,705.58	99.24	41.31	-90.81	7,665.44	175.72	626.29	525.21	101.08	6.196	
19,000.00	11,704.71	11,750.53	11,704.71	100.59	41.31	-90.66	7,665.44	175.72	543.84	434.99	108.84	4.996	
19,100.00	11,703.84	11,749.66	11,703.84	101.94	41.30	-90.50	7,665.44	175.72	468.27	349.80	118.47	3.953	
19,200.00	11,702.97	11,748.79	11,702.97	103.29	41.30	-90.35	7,665.44	175.72	403.48	273.80	129.68	3.111	
19,300.00	11,702.09	11,747.91	11,702.09	104.64	41.30	-90.20	7,665.44	175.72	355.41	214.75	140.65	2.527	
19,377.12	11,701.42	11,747.24	11,701.42	105.68	41.30	-90.08	7,665.44	175.72	334.42	188.07	146.35	2.285	CC, 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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: John Callahan Offsets Pad 2 - John Callahan Fed Com 209H - OH - OH

Survey Program: 29- 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)			
16,500.00	11,726.53	24,328.00	12,313.56	67.08	77.31	118.90	6,417.73	1,606.07	2,080.43	1,987.77	92.67	22.451	
16,600.00	11,725.65	24,328.00	12,313.56	68.40	77.31	118.90	6,417.73	1,606.07	2,001.20	1,905.78	95.42	20.973	
16,700.00	11,724.78	24,328.00	12,313.56	69.73	77.31	118.90	6,417.73	1,606.07	1,923.90	1,825.51	98.39	19.553	
16,800.00	11,723.91	24,328.00	12,313.56	71.06	77.31	118.90	6,417.73	1,606.07	1,848.78	1,747.18	101.60	18.196	
16,900.00	11,723.04	24,328.00	12,313.56	72.39	77.31	118.90	6,417.73	1,606.07	1,776.12	1,671.07	105.05	16.907	
17,000.00	11,722.16	24,328.00	12,313.56	73.72	77.31	118.90	6,417.73	1,606.07	1,706.22	1,597.49	108.73	15.692	
17,100.00	11,721.29	24,328.00	12,313.56	75.06	77.31	118.90	6,417.73	1,606.07	1,639.44	1,526.80	112.65	14.554	
17,200.00	11,720.42	24,328.00	12,313.56	76.39	77.31	118.90	6,417.73	1,606.07	1,576.19	1,459.42	116.77	13.498	
17,300.00	11,719.55	24,328.00	12,313.56	77.73	77.31	118.90	6,417.73	1,606.07	1,516.89	1,395.82	121.08	12.528	
17,400.00	11,718.67	24,328.00	12,313.56	79.07	77.31	118.90	6,417.73	1,606.07	1,462.04	1,336.53	125.51	11.649	
17,500.00	11,717.80	24,328.00	12,313.56	80.40	77.31	118.90	6,417.73	1,606.07	1,412.14	1,282.14	130.00	10.862	
17,600.00	11,716.93	24,328.00	12,313.56	81.74	77.31	118.90	6,417.73	1,606.07	1,367.75	1,233.28	134.47	10.171	
17,700.00	11,716.06	24,328.00	12,313.56	83.08	77.31	118.90	6,417.73	1,606.07	1,329.41	1,190.62	138.79	9.578	
17,800.00	11,715.18	24,328.00	12,313.56	84.43	77.31	118.90	6,417.73	1,606.07	1,297.66	1,154.82	142.85	9.084	
17,900.00	11,714.31	24,328.00	12,313.56	85.77	77.31	118.90	6,417.73	1,606.07	1,273.00	1,126.51	146.49	8.690	
18,000.00	11,713.44	24,328.00	12,313.56	87.11	77.31	118.90	6,417.73	1,606.07	1,255.84	1,106.23	149.60	8.395	
18,100.00	11,712.56	24,281.62	12,309.47	88.46	77.06	118.82	6,463.82	1,602.89	1,245.62	1,094.24	151.38	8.229	
18,200.00	11,711.69	24,201.54	12,303.20	89.80	76.62	118.69	6,543.47	1,597.51	1,237.17	1,084.69	152.48	8.114	
18,300.00	11,710.82	24,120.49	12,298.35	91.15	76.18	118.61	6,624.24	1,592.93	1,230.50	1,076.98	153.52	8.015	
18,400.00	11,709.95	24,026.01	12,293.98	92.49	75.68	118.56	6,718.48	1,587.82	1,224.72	1,070.39	154.33	7.936	
18,500.00	11,709.07	23,933.65	12,290.90	93.84	75.20	118.57	6,810.65	1,582.70	1,219.43	1,064.30	155.12	7.861	
18,600.00	11,708.20	23,848.50	12,288.71	95.19	74.76	118.58	6,895.67	1,578.54	1,215.09	1,059.09	156.01	7.789	
18,700.00	11,707.33	23,737.28	12,283.88	96.54	74.19	118.50	7,006.69	1,574.20	1,210.75	1,054.11	156.64	7.729	
18,800.00	11,706.46	23,637.80	12,278.65	97.89	73.69	118.38	7,105.97	1,570.72	1,206.34	1,048.88	157.46	7.661	
18,900.00	11,705.58	23,529.06	12,271.71	99.24	73.14	118.21	7,214.39	1,566.13	1,200.73	1,042.53	158.21	7.590	
19,000.00	11,704.71	23,450.48	12,267.22	100.59	72.75	118.09	7,292.80	1,563.59	1,196.34	1,037.02	159.32	7.509	
19,100.00	11,703.84	23,362.11	12,262.52	101.94	72.32	117.94	7,381.02	1,561.87	1,193.29	1,032.97	160.32	7.443	
19,200.00	11,702.97	23,267.31	12,257.51	103.29	71.86	117.77	7,475.69	1,560.62	1,190.83	1,029.57	161.26	7.384	
19,300.00	11,702.09	23,183.00	12,253.75	104.64	71.46	117.64	7,559.91	1,560.19	1,189.46	1,027.17	162.29	7.329	
19,377.12	11,701.42	23,110.26	12,250.62	105.68	71.12	117.51	7,632.58	1,560.45	1,189.06	1,026.04	163.03	7.294	CC, 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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: John Callahan Offsets Pad 2 - John Callahan Fed Com 212H - OH - Design #1

Survey Program: 0-										Rule Assigned:		Offset Site Error:	0.00 usft
Reference										Distance		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,400.00	11,718.67	11,781.09	11,718.67	79.07	42.07	94.84	7,669.78	714.99	2,042.78	1,980.63	62.14	32.872	
17,500.00	11,717.80	11,780.21	11,717.80	80.40	42.07	94.60	7,669.78	714.99	1,943.34	1,881.00	62.34	31.174	
17,600.00	11,716.93	11,779.34	11,716.93	81.74	42.06	94.36	7,669.78	714.99	1,843.95	1,781.40	62.56	29.476	
17,700.00	11,716.06	11,778.47	11,716.06	83.08	42.06	94.13	7,669.78	714.99	1,744.64	1,681.84	62.81	27.778	
17,800.00	11,715.18	11,777.60	11,715.18	84.43	42.06	93.89	7,669.78	714.99	1,645.41	1,582.32	63.10	26.078	
17,900.00	11,714.31	11,776.72	11,714.31	85.77	42.05	93.65	7,669.78	714.99	1,546.28	1,482.85	63.44	24.375	
18,000.00	11,713.44	11,775.85	11,713.44	87.11	42.05	93.41	7,669.78	714.99	1,447.27	1,383.43	63.84	22.669	
18,100.00	11,712.56	11,774.98	11,712.56	88.46	42.05	93.18	7,669.78	714.99	1,348.41	1,284.07	64.34	20.959	
18,200.00	11,711.69	11,774.11	11,711.69	89.80	42.05	92.94	7,669.78	714.99	1,249.72	1,184.78	64.94	19.244	
18,300.00	11,710.82	11,773.23	11,710.82	91.15	42.04	92.70	7,669.78	714.99	1,151.26	1,085.56	65.70	17.522	
18,400.00	11,709.95	11,772.36	11,709.95	92.49	42.04	92.46	7,669.78	714.99	1,053.09	986.42	66.67	15.795	
18,500.00	11,709.07	11,771.49	11,709.07	93.84	42.04	92.22	7,669.78	714.99	955.30	887.37	67.93	14.062	
18,600.00	11,708.20	11,770.62	11,708.20	95.19	42.03	91.99	7,669.78	714.99	858.02	788.42	69.60	12.327	
18,700.00	11,707.33	11,769.74	11,707.33	96.54	42.03	91.75	7,669.78	714.99	761.44	689.58	71.86	10.596	
18,800.00	11,706.46	11,768.87	11,706.46	97.89	42.03	91.51	7,669.78	714.99	665.87	590.90	74.97	8.881	
18,900.00	11,705.58	11,768.00	11,705.58	99.24	42.02	91.27	7,669.78	714.99	571.82	492.44	79.37	7.204	
19,000.00	11,704.71	11,767.12	11,704.71	100.59	42.02	91.03	7,669.78	714.99	480.17	394.43	85.74	5.600	
19,100.00	11,703.84	11,766.25	11,703.84	101.94	42.02	90.79	7,669.78	714.99	392.62	297.46	95.16	4.126	
19,200.00	11,702.97	11,765.38	11,702.97	103.29	42.01	90.55	7,669.78	714.99	312.63	203.51	109.12	2.865	
19,300.00	11,702.09	11,764.51	11,702.09	104.64	42.01	90.32	7,669.78	714.99	247.64	119.48	128.16	1.932	Collision Risk Procedures Req.
19,377.12	11,701.42	11,763.83	11,701.42	105.68	42.01	90.13	7,669.78	714.99	216.57	74.09	142.48	1.520	Collision Risk Procedures Req., CC, E

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: John Callahan Offsets Pad 2 - John Callahan Fed Com 222H - OH - Design #1

Survey Program: 0-		Rule Assigned:										Offset Site Error:	0.00 usft
Reference		Offset Well Error:										Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,400.00	11,718.67	11,768.62	11,718.67	79.07	41.46	-96.93	7,666.87	359.68	2,037.41	1,973.24	64.17	31.749	
17,500.00	11,717.80	11,767.75	11,717.80	80.40	41.46	-96.59	7,666.87	359.68	1,937.69	1,873.22	64.47	30.057	
17,600.00	11,716.93	11,766.87	11,716.93	81.74	41.46	-96.26	7,666.87	359.68	1,837.99	1,773.20	64.79	28.370	
17,700.00	11,716.06	11,766.00	11,716.06	83.08	41.45	-95.92	7,666.87	359.68	1,738.33	1,673.19	65.14	26.687	
17,800.00	11,715.18	11,765.13	11,715.18	84.43	41.45	-95.58	7,666.87	359.68	1,638.70	1,573.18	65.52	25.010	
17,900.00	11,714.31	11,764.26	11,714.31	85.77	41.45	-95.24	7,666.87	359.68	1,539.13	1,473.18	65.95	23.337	
18,000.00	11,713.44	11,763.38	11,713.44	87.11	41.44	-94.90	7,666.87	359.68	1,439.61	1,373.18	66.43	21.670	
18,100.00	11,712.56	11,762.51	11,712.56	88.46	41.44	-94.56	7,666.87	359.68	1,340.17	1,273.19	66.99	20.007	
18,200.00	11,711.69	11,761.64	11,711.69	89.80	41.44	-94.22	7,666.87	359.68	1,240.82	1,173.19	67.62	18.349	
18,300.00	11,710.82	11,760.77	11,710.82	91.15	41.44	-93.88	7,666.87	359.68	1,141.57	1,073.20	68.37	16.696	
18,400.00	11,709.95	11,759.89	11,709.95	92.49	41.43	-93.53	7,666.87	359.68	1,042.48	973.20	69.27	15.049	
18,500.00	11,709.07	11,759.02	11,709.07	93.84	41.43	-93.19	7,666.87	359.68	943.57	873.20	70.37	13.409	
18,600.00	11,708.20	11,758.15	11,708.20	95.19	41.43	-92.85	7,666.87	359.68	844.91	773.16	71.75	11.776	
18,700.00	11,707.33	11,757.27	11,707.33	96.54	41.42	-92.51	7,666.87	359.68	746.62	673.09	73.53	10.154	
18,800.00	11,706.46	11,756.40	11,706.46	97.89	41.42	-92.17	7,666.87	359.68	648.84	572.93	75.91	8.547	
18,900.00	11,705.58	11,755.53	11,705.58	99.24	41.42	-91.82	7,666.87	359.68	551.86	472.64	79.22	6.966	
19,000.00	11,704.71	11,754.66	11,704.71	100.59	41.41	-91.48	7,666.87	359.68	456.19	372.15	84.04	5.428	
19,100.00	11,703.84	11,753.78	11,703.84	101.94	41.41	-91.14	7,666.87	359.68	362.85	271.37	91.48	3.967	
19,200.00	11,702.97	11,752.91	11,702.97	103.29	41.41	-90.80	7,666.87	359.68	274.25	170.61	103.65	2.646	
19,300.00	11,702.09	11,752.04	11,702.09	104.64	41.40	-90.45	7,666.87	359.68	196.89	73.19	123.69	1.592	Collision Risk Procedures Req.
19,377.12	11,701.42	11,751.37	11,701.42	105.68	41.40	-90.19	7,666.87	359.68	155.93	13.68	142.24	1.096	Collision Avoidance Req., CC, 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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: John Callahan Pad - John Callahan Fed Com 113H - OH - OH

Survey Program: 29-, 946-		Rule Assigned:										Offset Site Error:	0.00 usft
Reference		Offset Well Error:										Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,000.00	11,713.44	10,466.00	10,215.81	87.11	33.21	40.76	6,840.55	1,799.03	2,061.43	1,974.28	87.15	23.654	
18,100.00	11,712.56	10,466.00	10,215.81	88.46	33.21	40.76	6,840.55	1,799.03	2,034.25	1,945.20	89.05	22.843	
18,200.00	11,711.69	10,466.00	10,215.81	89.80	33.21	40.76	6,840.55	1,799.03	2,011.69	1,920.79	90.91	22.129	
18,300.00	11,710.82	10,514.22	10,230.63	91.15	33.29	41.09	6,886.40	1,800.39	1,991.24	1,898.55	92.69	21.483	
18,400.00	11,709.95	10,561.00	10,240.22	92.49	33.36	41.32	6,932.13	1,801.98	1,976.22	1,881.84	94.38	20.939	
18,500.00	11,709.07	10,561.00	10,240.22	93.84	33.36	41.32	6,932.13	1,801.98	1,963.64	1,867.53	96.10	20.433	
18,600.00	11,708.20	10,598.21	10,245.50	95.19	33.41	41.47	6,968.93	1,803.51	1,955.31	1,857.62	97.68	20.017	
18,700.00	11,707.33	10,656.00	10,251.95	96.54	33.49	41.68	7,026.28	1,806.50	1,949.95	1,850.76	99.19	19.659	
18,800.00	11,706.46	10,699.23	10,255.23	97.89	33.55	41.81	7,069.33	1,808.62	1,947.04	1,846.38	100.65	19.344	
18,887.45	11,705.69	10,752.00	10,257.23	99.07	33.63	41.90	7,122.04	1,810.16	1,946.22	1,844.40	101.82	19.114	CC
18,900.00	11,705.58	10,752.00	10,257.23	99.24	33.63	41.90	7,122.04	1,810.16	1,946.26	1,844.26	102.00	19.081	ES
19,000.00	11,704.71	10,811.46	10,256.81	100.59	33.72	41.93	7,181.49	1,810.91	1,947.72	1,844.49	103.23	18.868	
19,100.00	11,703.84	10,870.32	10,253.74	101.94	33.82	41.90	7,240.27	1,811.07	1,951.63	1,847.26	104.36	18.700	
19,200.00	11,702.97	10,950.48	10,247.77	103.29	33.97	41.81	7,320.20	1,811.09	1,957.10	1,851.72	105.38	18.572	
19,300.00	11,702.09	11,084.04	10,239.50	104.64	34.25	41.69	7,453.50	1,810.76	1,961.28	1,855.02	106.26	18.457	
19,377.12	11,701.42	11,148.41	10,235.49	105.68	34.40	41.63	7,517.74	1,810.70	1,964.75	1,857.68	107.07	18.350	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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: John Callahan Pad - John Callahan Fed Com 137H - OH - OH

Survey Program: 29-, 945-		Rule Assigned:										Offset Site Error:	0.00 usft
Reference		Offset Wellbore Centre										Offset Well Error:	0.00 usft
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Semi Major Axis Reference	Offset	Highside Toolface	+N/-S	+E/-W	Distance Between Centres	Distance Between Ellipses	Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
16,700.00	11,724.78	11,696.00	11,645.39	69.73	38.05	87.35	6,360.53	1,963.90	2,023.23	1,937.45	85.78	23.586	
16,800.00	11,723.91	11,696.00	11,645.39	71.06	38.05	87.35	6,360.53	1,963.90	1,954.73	1,866.29	88.44	22.101	
16,900.00	11,723.04	11,696.00	11,645.39	72.39	38.05	87.35	6,360.53	1,963.90	1,889.04	1,797.79	91.25	20.702	
17,000.00	11,722.16	11,696.00	11,645.39	73.72	38.05	87.35	6,360.53	1,963.90	1,826.46	1,732.27	94.19	19.392	
17,100.00	11,721.29	11,696.00	11,645.39	75.06	38.05	87.35	6,360.53	1,963.90	1,767.32	1,670.08	97.25	18.174	
17,200.00	11,720.42	11,696.00	11,645.39	76.39	38.05	87.35	6,360.53	1,963.90	1,711.99	1,611.59	100.40	17.051	
17,300.00	11,719.55	11,722.13	11,671.41	77.73	38.14	88.38	6,362.77	1,963.21	1,660.41	1,556.70	103.70	16.011	
17,400.00	11,718.67	11,726.55	11,675.81	79.07	38.15	88.55	6,363.22	1,963.11	1,613.69	1,506.71	106.98	15.084	
17,500.00	11,717.80	11,731.40	11,680.63	80.40	38.17	88.74	6,363.73	1,963.01	1,571.93	1,461.69	110.24	14.259	
17,600.00	11,716.93	11,736.76	11,685.96	81.74	38.19	88.95	6,364.31	1,962.90	1,535.52	1,422.07	113.44	13.536	
17,700.00	11,716.06	11,742.71	11,691.87	83.08	38.21	89.19	6,365.00	1,962.78	1,504.84	1,388.32	116.52	12.915	
17,800.00	11,715.18	11,749.36	11,698.47	84.43	38.23	89.45	6,365.81	1,962.67	1,480.25	1,360.84	119.41	12.396	
17,900.00	11,714.31	11,756.83	11,705.87	85.77	38.25	89.74	6,366.76	1,962.55	1,462.05	1,339.99	122.06	11.978	
18,000.00	11,713.44	11,765.29	11,714.25	87.11	38.28	90.07	6,367.91	1,962.43	1,450.46	1,326.07	124.39	11.660	
18,100.00	11,712.56	11,774.93	11,723.80	88.46	38.31	90.45	6,369.31	1,962.31	1,445.63	1,319.26	126.37	11.440	
18,120.98	11,712.38	11,777.13	11,725.97	88.74	38.32	90.54	6,369.64	1,962.28	1,445.48	1,318.74	126.74	11.405	
18,200.00	11,711.69	11,791.00	11,739.66	89.80	38.37	91.08	6,371.83	1,962.16	1,447.61	1,319.66	127.95	11.313	
18,300.00	11,710.82	11,803.40	11,751.89	91.15	38.41	91.57	6,373.91	1,962.06	1,456.32	1,327.19	129.13	11.278	
18,400.00	11,709.95	11,820.41	11,768.62	92.49	38.46	92.23	6,376.93	1,961.91	1,471.58	1,341.68	129.89	11.329	
18,500.00	11,709.07	12,528.43	12,184.16	93.84	39.90	108.81	6,882.07	1,910.21	1,482.40	1,355.69	126.70	11.700	
18,600.00	11,708.20	12,609.75	12,188.49	95.19	39.97	109.11	6,962.73	1,901.04	1,474.48	1,346.47	128.01	11.519	
18,700.00	11,707.33	12,800.20	12,188.90	96.54	40.17	109.45	7,151.80	1,878.61	1,465.07	1,336.56	128.51	11.400	
18,800.00	11,706.46	12,889.56	12,187.61	97.89	40.28	109.61	7,240.07	1,864.73	1,451.11	1,321.22	129.89	11.172	
18,900.00	11,705.58	12,954.00	12,186.67	99.24	40.38	109.69	7,303.98	1,856.64	1,439.70	1,308.19	131.50	10.948	
19,000.00	11,704.71	13,000.28	12,186.30	100.59	40.45	109.75	7,350.05	1,852.22	1,431.23	1,298.03	133.20	10.745	
19,100.00	11,703.84	13,062.21	12,186.72	101.94	40.55	109.84	7,411.82	1,847.91	1,425.90	1,291.18	134.72	10.584	
19,200.00	11,702.97	13,173.35	12,188.58	103.29	40.74	110.03	7,522.70	1,840.51	1,421.32	1,285.33	135.99	10.451	
19,300.00	11,702.09	13,270.79	12,190.56	104.64	40.94	110.23	7,619.85	1,833.18	1,416.08	1,278.76	137.33	10.312	
19,377.12	11,701.42	13,334.00	12,191.21	105.68	41.07	110.32	7,682.94	1,829.45	1,412.91	1,274.48	138.43	10.207	CC, 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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	.Total Directional Production DB
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: John Callahan Pad - John Callahan Fed Com 223H - OH - OH

Survey Program: 29-, 876-		Rule Assigned:										Offset Site Error:	0.00 usft
Reference		Offset Wellbore Centre										Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,400.00	11,727.40	11,761.38	11,715.23	65.75	38.44	90.12	6,332.83	1,710.71	2,066.07	1,991.04	75.03	27.538	
16,500.00	11,726.53	11,759.85	11,713.71	67.08	38.43	90.05	6,332.84	1,710.68	1,985.28	1,908.13	77.15	25.732	
16,600.00	11,725.65	11,758.31	11,712.17	68.40	38.42	89.98	6,332.85	1,710.65	1,906.32	1,826.86	79.46	23.992	
16,700.00	11,724.78	11,756.76	11,710.62	69.73	38.42	89.90	6,332.86	1,710.62	1,829.41	1,747.46	81.95	22.323	
16,800.00	11,723.91	11,755.20	11,709.06	71.06	38.41	89.83	6,332.87	1,710.59	1,754.83	1,670.19	84.64	20.733	
16,900.00	11,723.04	11,753.62	11,707.48	72.39	38.41	89.75	6,332.88	1,710.56	1,682.89	1,595.36	87.53	19.227	
17,000.00	11,722.16	11,752.04	11,705.90	73.72	38.40	89.67	6,332.89	1,710.53	1,613.94	1,523.32	90.62	17.810	
17,100.00	11,721.29	11,750.44	11,704.30	75.06	38.40	89.60	6,332.90	1,710.50	1,548.38	1,454.48	93.90	16.489	
17,200.00	11,720.42	11,748.83	11,702.69	76.39	38.39	89.52	6,332.91	1,710.47	1,486.66	1,389.30	97.36	15.269	
17,300.00	11,719.55	11,747.23	11,701.09	77.73	38.39	89.44	6,332.92	1,710.43	1,429.28	1,328.31	100.97	14.155	
17,400.00	11,718.67	11,745.57	11,699.44	79.07	38.38	89.36	6,332.93	1,710.40	1,376.77	1,272.09	104.68	13.152	
17,500.00	11,717.80	11,743.93	11,697.80	80.40	38.37	89.29	6,332.94	1,710.37	1,329.72	1,221.28	108.44	12.262	
17,600.00	11,716.93	11,742.30	11,696.17	81.74	38.37	89.21	6,332.95	1,710.33	1,288.72	1,176.56	112.17	11.490	
17,700.00	11,716.06	11,740.68	11,694.54	83.08	38.36	89.13	6,332.97	1,710.30	1,254.38	1,138.62	115.76	10.836	
17,800.00	11,715.18	11,739.07	11,692.93	84.43	38.36	89.05	6,332.98	1,710.27	1,227.23	1,108.12	119.12	10.303	
17,900.00	11,714.31	11,737.47	11,691.33	85.77	38.35	88.97	6,332.99	1,710.24	1,207.78	1,085.66	122.12	9.890	
18,000.00	11,713.44	11,735.87	11,689.74	87.11	38.35	88.90	6,333.00	1,710.20	1,196.40	1,071.72	124.68	9.596	
18,086.86	11,712.68	11,734.50	11,688.36	88.28	38.34	88.83	6,333.01	1,710.18	1,193.24	1,066.78	126.46	9.436	CC
18,100.00	11,712.56	11,734.29	11,688.15	88.46	38.34	88.82	6,333.01	1,710.17	1,193.32	1,066.62	126.69	9.419	ES
18,200.00	11,711.69	11,732.71	11,686.58	89.80	38.34	88.75	6,333.02	1,710.14	1,198.59	1,070.47	128.12	9.355	SF
18,300.00	11,710.82	11,731.15	11,685.02	91.15	38.33	88.67	6,333.03	1,710.11	1,212.12	1,083.17	128.95	9.400	
18,400.00	11,709.95	11,729.59	11,683.46	92.49	38.32	88.60	6,333.04	1,710.08	1,233.64	1,104.44	129.20	9.548	
18,500.00	11,709.07	11,728.05	11,681.91	93.84	38.32	88.52	6,333.05	1,710.04	1,262.72	1,133.80	128.92	9.794	
18,600.00	11,708.20	11,726.51	11,680.37	95.19	38.31	88.45	6,333.06	1,710.01	1,298.87	1,170.68	128.19	10.132	
18,700.00	11,707.33	11,724.98	11,678.85	96.54	38.31	88.38	6,333.07	1,709.98	1,341.52	1,214.42	127.10	10.555	
18,800.00	11,706.46	11,723.46	11,677.32	97.89	38.30	88.30	6,333.08	1,709.95	1,390.06	1,264.34	125.73	11.056	
18,900.00	11,705.58	11,721.95	11,675.81	99.24	38.30	88.23	6,333.08	1,709.92	1,443.91	1,319.75	124.15	11.630	
19,000.00	11,704.71	11,720.44	11,674.31	100.59	38.29	88.16	6,333.09	1,709.89	1,502.48	1,380.03	122.45	12.270	
19,100.00	11,703.84	11,718.95	11,672.82	101.94	38.29	88.09	6,333.10	1,709.86	1,565.26	1,444.58	120.68	12.970	
19,200.00	11,702.97	13,797.00	12,721.81	103.29	43.02	130.21	7,545.21	1,712.75	1,581.93	1,462.05	119.88	13.196	
19,300.00	11,702.09	13,834.46	12,721.79	104.64	43.10	130.26	7,582.60	1,710.53	1,578.36	1,457.33	121.04	13.040	
19,347.93	11,701.68	13,854.80	12,722.09	105.29	43.14	130.29	7,602.92	1,709.71	1,577.95	1,456.40	121.55	12.982	
19,377.12	11,701.42	13,892.00	12,723.22	105.68	43.22	130.34	7,640.09	1,708.94	1,578.57	1,456.71	121.86	12.954	

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 Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	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 3300' + KB 26' @ 3326.00usft

Offset Depths are relative to Offset Datum

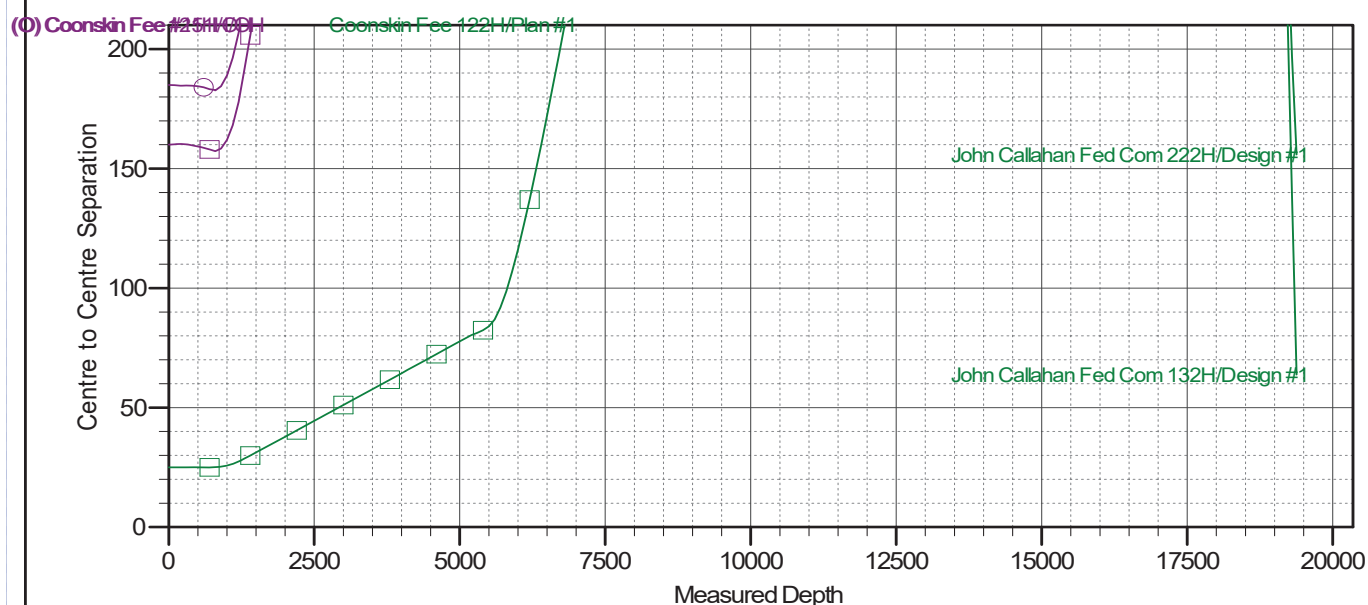
Central Meridian is -104.3333333

Coordinates are relative to: Coonskin Fee 152H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.51°

Ladder Plot



LEGEND

John Callahan Fed Com 202H, OH, Design #1 V0	(O) Cosmo K Fee #223H, OH, OH V0	(O) Coonskin Fee 28H, OH, OH V0
John Callahan Fed Com 209H, OH, OH V0	(O) Coonskin Fee 603H, OH, OH V0	(O) Cosmo K 24S35E3328 #113H, OH, OH V0
John Callahan Fed Com 112H, OH, Design #1 V0	(O) Coonskin Fee #112H, OH, OH V0	(O) Coonskin Fee #151H, OH, OH V0
John Callahan Fed Com 212H, OH, Design #1 V0	(O) Cosmo K 24S35E3328 Fee 133H, OH, OH V0	(O) Coonskin Fee 121H, OH, OH V0
John Callahan Fed Com 132H, OH, Design #1 V0	Coonskin Fee 122H, OH, Plan #1 V0	John Callahan Fed Com 113H, OH, OH V0
John Callahan Fed Com 222H, OH, Design #1 V0	(O) Coonskin Fee 602H, OH, OH V0	John Callahan Fed Com 223H, OH, OH V0
(O) Coonskin Fee 701H, OH, OH V0	(O) Coonskin Fee 25H, OH, OH V0	John Callahan Fed Com 137H, OH, OH V0
(O) Coonskin Fee 702H, OH, OH V0	(O) Cosmo K 24S35E3328 Fee 213H, OH, OH V0	
(O) Coonskin Fee #111H, OH, OH V0	(O) Coonskin Fee 601H, OH, OH V0	

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

Total Directional Anticollision Report

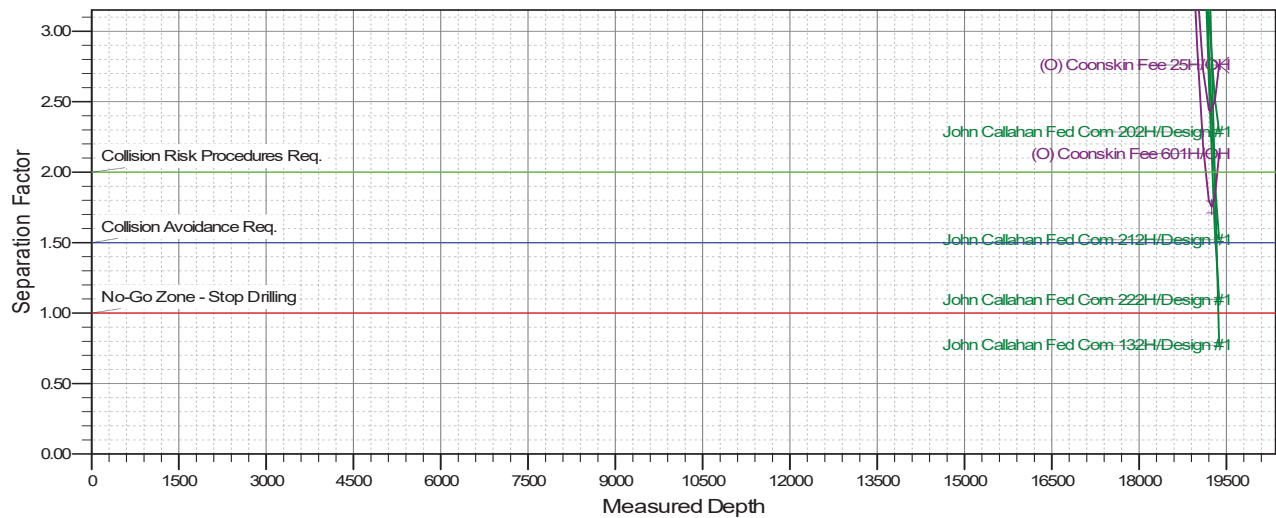


Company:	Civitas Resources	Local Co-ordinate Reference:	Well Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Reference Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Coonskin Fee 152H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	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 3300' + KB 26' @ 3326.00usft
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: Coonskin Fee 152H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.51°

Separation Factor Plot



LEGEND

John Callahan Fed Com 202H, OH, Design #1 V0	(O) Cosmo K Fee #223H, OH, OH V0	(O) Coonskin Fee 28H, OH, OH V0
John Callahan Fed Com 209H, OH, OH V0	(O) Coonskin Fee 603H, OH, OH V0	(O) Cosmo K 24S35E3328 #113H, OH, OH V0
John Callahan Fed Com 112H, OH, Design #1 V0	(O) Coonskin Fee #112H, OH, OH V0	(O) Coonskin Fee #151H, OH, OH V0
John Callahan Fed Com 212H, OH, Design #1 V0	(O) Cosmo K 24S35E3328 Fee 133H, OH, OH V0	(O) Coonskin Fee 121H, OH, OH V0
John Callahan Fed Com 132H, OH, Design #1 V0	Coonskin Fee 122H, OH, Plan #1 V0	John Callahan Fed Com 113H, OH, OH V0
John Callahan Fed Com 222H, OH, Design #1 V0	(O) Coonskin Fee 602H, OH, OH V0	John Callahan Fed Com 223H, OH, OH V0
(O) Coonskin Fee 701H, OH, OH V0	(O) Coonskin Fee 25H, OH, OH V0	John Callahan Fed Com 137H, OH, OH V0
(O) Coonskin Fee 702H, OH, OH V0	(O) Cosmo K 24S35E3328 Fee 213H, OH, OH V0	
(O) Coonskin Fee #111H, OH, OH V0	(O) Coonskin Fee 601H, OH, OH V0	

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

Project: Lea County, NM (NAD 83)
Site: Coonskin Fee Pad
Well: Coonskin Fee 152H
Wellbore: OH
Design: Plan #1
Rig:



Azimuths to Grid North
True North: -0.51°
Magnetic North: 5.56°

Magnetic Field
Strength: 47109.5nT
Dip Angle: 59.60°
Date: 7/31/2025
Model: HDGM2025

Total Magnetic Correction: 5.56°

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 3300' + KB 26' @ 3326.00usft

SHL

RKB Elevation: GE 3300' + KB 26' @ 3326.00usft

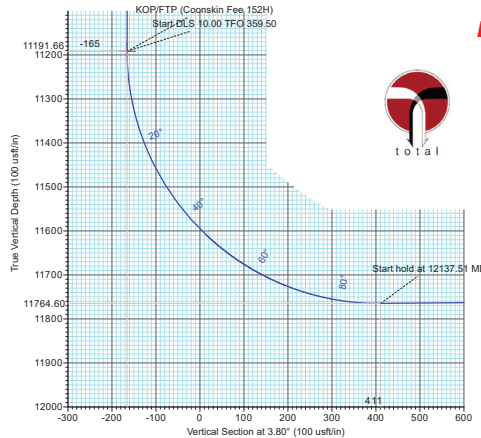
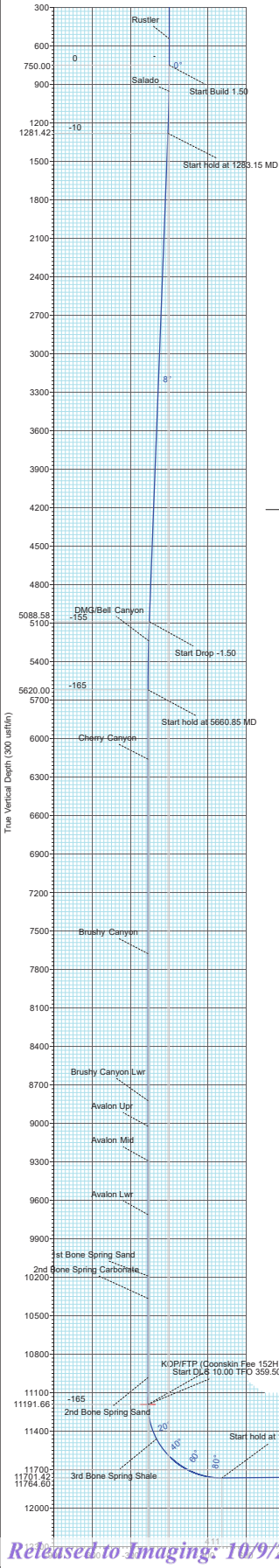
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	428655.00	837410.00	32.1748311	-103.3764232	

SECTION DETAILS

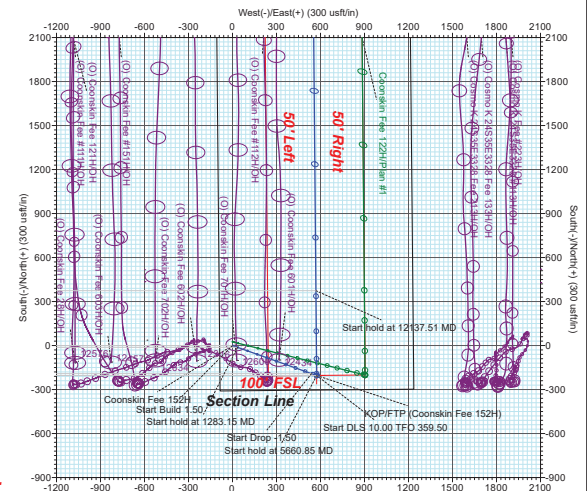
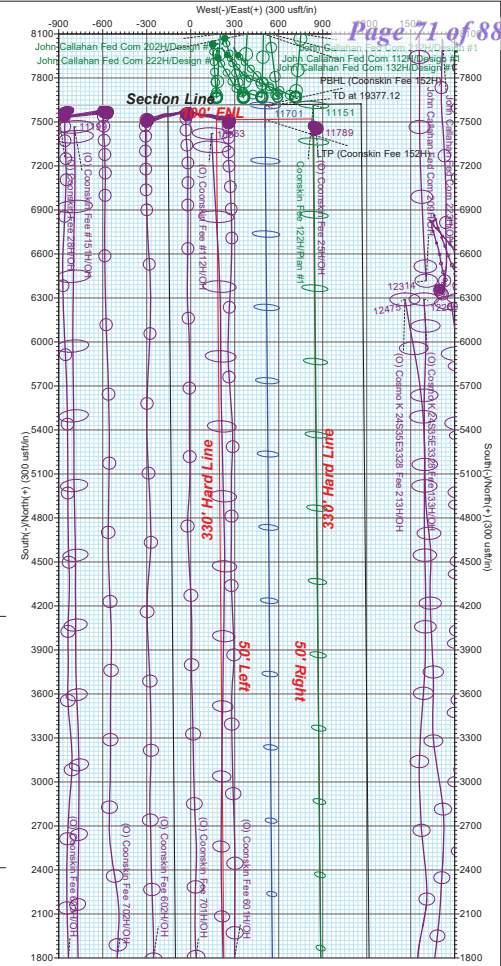
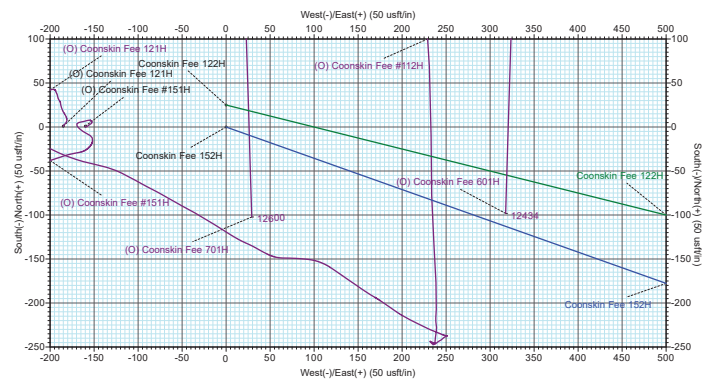
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	
1283.15	8.00	109.57	1281.42	-12.44	35.00	1.50	109.57	-10.09	
5127.70	8.00	109.57	5088.58	-191.56	539.00	0.00	0.00	-155.39	
5660.85	0.00	0.00	5620.00	-204.00	574.00	1.50	180.00	-165.48	
11232.51	0.00	0.00	11191.66	-204.00	574.00	0.00	0.00	-165.48	
12137.51	90.50	359.50	11764.60	373.94	568.97	10.00	359.50	410.85	
19377.12	90.50	359.50	11701.42	7613.00	506.00	0.00	0.00	7629.80	PBHL (Coonskin Fee 152H)

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
KOP/FTP (Coonskin Fee 152H)	11191.66	-204.00	574.00	428451.00	837984.00	32.1742563	-103.3745741
PBHL (Coonskin Fee 152H)	11701.42	7613.00	506.00	436268.00	837916.00	32.1957433	-103.3745686
LTP (Coonskin Fee 152H)	11702.25	7517.00	507.00	436172.00	837917.00	32.1954794	-103.3745682



Do Not Cross SL



Civitas Resources

Lea County, NM (NAD 83)
Coonskin Fee Pad
Coonskin Fee 152H

OH

Plan: Plan #1



Standard Plan Report

01 August, 2025

Total Report Version 1.80

COMPASS 5000.16 Build 97

ATTENTION

All annotation callouts related to distances are uncertified and are approximated footages using available software and measurement tools. They should not be mistaken as an official record, which can only be obtained via a certified land surveyor.

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Well:	Coonskin Fee 152H	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	Coonskin Fee Pad		
Site Position:		Northing:	428,680.00 usft
From:	Map	Easting:	837,410.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.1748998
		Longitude:	-103.3764224

Well	Coonskin Fee 152H					
Well Position	+N/-S	0.00 usft	Northing:	428,655.00 usft	Latitude:	32.1748311
	+E/-W	0.00 usft	Easting:	837,410.00 usft	Longitude:	-103.3764231
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,300.00 usft
Grid Convergence:	0.51 °					

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2025	7/31/2025	6.07	59.60	47,109.50000000

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	3.80	

Survey Tool Program	Date	8/1/2025			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	19,377.07	Plan #1 (OH)	MWD+HRGM+SAG+FDIF	OWSG MWD + HRGM + SAG + FDIR Correction	

Plan Summary										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,283.15	8.00	109.57	1,281.42	-12.44	35.00	1.50	1.50	0.00	109.57	
5,127.70	8.00	109.57	5,088.58	-191.56	539.00	0.00	0.00	0.00	0.00	
5,660.85	0.00	0.00	5,620.00	-204.00	574.00	1.50	-1.50	0.00	180.00	
11,232.51	0.00	0.00	11,191.66	-204.00	574.00	0.00	0.00	0.00	0.00	
12,137.51	90.50	359.50	11,764.60	373.94	568.97	10.00	10.00	-0.06	359.50	
19,377.12	90.50	359.50	11,701.42	7,613.00	506.00	0.00	0.00	0.00	0.00	PBHL (Coonskin Fe

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Well:	Coonskin Fee 152H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	428,655.00	837,410.00	32.1748311	-103.3764231	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	428,655.00	837,410.00	32.1748311	-103.3764231	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	428,655.00	837,410.00	32.1748311	-103.3764231	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	428,655.00	837,410.00	32.1748311	-103.3764231	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	428,655.00	837,410.00	32.1748311	-103.3764231	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	428,655.00	837,410.00	32.1748311	-103.3764231	0.00	0.00	0.00	0.00
544.00	0.00	0.00	544.00	0.00	0.00	428,655.00	837,410.00	32.1748311	-103.3764231	0.00	0.00	0.00	0.00
Rustler													
600.00	0.00	0.00	600.00	0.00	0.00	428,655.00	837,410.00	32.1748311	-103.3764231	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	428,655.00	837,410.00	32.1748311	-103.3764231	0.00	0.00	0.00	0.00
750.00	0.00	0.00	750.00	0.00	0.00	428,655.00	837,410.00	32.1748311	-103.3764231	0.00	0.00	0.00	0.00
800.00	0.75	109.57	800.00	-0.11	0.31	428,654.89	837,410.31	32.1748308	-103.3764221	-0.09	1.50	1.50	0.00
900.00	2.25	109.57	899.96	-0.99	2.77	428,654.01	837,412.77	32.1748283	-103.3764142	-0.80	1.50	1.50	0.00
953.10	3.05	109.57	953.00	-1.81	5.09	428,653.19	837,415.09	32.1748260	-103.3764068	-1.47	1.50	1.50	0.00
Salado													
1,000.00	3.75	109.57	999.82	-2.74	7.71	428,652.26	837,417.71	32.1748234	-103.3763983	-2.22	1.50	1.50	0.00
1,100.00	5.25	109.57	1,099.51	-5.37	15.10	428,649.63	837,425.10	32.1748160	-103.3763745	-4.35	1.50	1.50	0.00
1,200.00	6.75	109.57	1,198.96	-8.87	24.95	428,646.13	837,434.95	32.1748061	-103.3763428	-7.19	1.50	1.50	0.00
1,283.15	8.00	109.57	1,281.42	-12.44	35.00	428,642.56	837,445.00	32.1747960	-103.3763104	-10.09	1.50	1.50	0.00
1,300.00	8.00	109.57	1,298.11	-13.23	37.21	428,641.77	837,447.21	32.1747938	-103.3763033	-10.73	0.00	0.00	0.00
1,400.00	8.00	109.57	1,397.13	-17.88	50.32	428,637.12	837,460.32	32.1747807	-103.3762610	-14.51	0.00	0.00	0.00
1,500.00	8.00	109.57	1,496.16	-22.54	63.43	428,632.46	837,473.43	32.1747676	-103.3762188	-18.29	0.00	0.00	0.00
1,600.00	8.00	109.57	1,595.19	-27.20	76.54	428,627.80	837,486.54	32.1747544	-103.3761766	-22.07	0.00	0.00	0.00
1,700.00	8.00	109.57	1,694.22	-31.86	89.65	428,623.14	837,499.65	32.1747413	-103.3761343	-25.85	0.00	0.00	0.00
1,800.00	8.00	109.57	1,793.24	-36.52	102.76	428,618.48	837,512.76	32.1747282	-103.3760921	-29.63	0.00	0.00	0.00
1,900.00	8.00	109.57	1,892.27	-41.18	115.87	428,613.82	837,525.87	32.1747151	-103.3760499	-33.40	0.00	0.00	0.00
2,000.00	8.00	109.57	1,991.30	-45.84	128.98	428,609.16	837,538.98	32.1747019	-103.3760077	-37.18	0.00	0.00	0.00
2,100.00	8.00	109.57	2,090.33	-50.50	142.09	428,604.50	837,552.09	32.1746888	-103.3759654	-40.96	0.00	0.00	0.00
2,200.00	8.00	109.57	2,189.35	-55.16	155.20	428,599.84	837,565.20	32.1746757	-103.3759232	-44.74	0.00	0.00	0.00
2,300.00	8.00	109.57	2,288.38	-59.82	168.31	428,595.18	837,578.31	32.1746626	-103.3758810	-48.52	0.00	0.00	0.00
2,400.00	8.00	109.57	2,387.41	-64.47	181.41	428,590.53	837,591.41	32.1746494	-103.3758387	-52.30	0.00	0.00	0.00
2,500.00	8.00	109.57	2,486.44	-69.13	194.52	428,585.87	837,604.52	32.1746363	-103.3757965	-56.08	0.00	0.00	0.00
2,600.00	8.00	109.57	2,585.46	-73.79	207.63	428,581.21	837,617.63	32.1746232	-103.3757543	-59.86	0.00	0.00	0.00
2,700.00	8.00	109.57	2,684.49	-78.45	220.74	428,576.55	837,630.74	32.1746101	-103.3757120	-63.64	0.00	0.00	0.00
2,800.00	8.00	109.57	2,783.52	-83.11	233.85	428,571.89	837,643.85	32.1745969	-103.3756698	-67.42	0.00	0.00	0.00
2,900.00	8.00	109.57	2,882.55	-87.77	246.96	428,567.23	837,656.96	32.1745838	-103.3756276	-71.20	0.00	0.00	0.00
3,000.00	8.00	109.57	2,981.57	-92.43	260.07	428,562.57	837,670.07	32.1745707	-103.3755854	-74.98	0.00	0.00	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Well:	Coonskin Fee 152H	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)
3,100.00	8.00	109.57	3,080.60	-97.09	273.18	428,557.91	837,683.18	32.1745576	-103.3755431	-78.76	0.00	0.00	0.00
3,200.00	8.00	109.57	3,179.63	-101.75	286.29	428,553.25	837,696.29	32.1745444	-103.3755009	-82.54	0.00	0.00	0.00
3,300.00	8.00	109.57	3,278.66	-106.41	299.40	428,548.59	837,709.40	32.1745313	-103.3754587	-86.32	0.00	0.00	0.00
3,400.00	8.00	109.57	3,377.68	-111.07	312.51	428,543.93	837,722.51	32.1745182	-103.3754164	-90.10	0.00	0.00	0.00
3,500.00	8.00	109.57	3,476.71	-115.72	325.62	428,539.28	837,735.62	32.1745050	-103.3753742	-93.88	0.00	0.00	0.00
3,600.00	8.00	109.57	3,575.74	-120.38	338.73	428,534.62	837,748.73	32.1744919	-103.3753320	-97.65	0.00	0.00	0.00
3,700.00	8.00	109.57	3,674.77	-125.04	351.84	428,529.96	837,761.84	32.1744788	-103.3752897	-101.43	0.00	0.00	0.00
3,800.00	8.00	109.57	3,773.79	-129.70	364.94	428,525.30	837,774.94	32.1744657	-103.3752475	-105.21	0.00	0.00	0.00
3,900.00	8.00	109.57	3,872.82	-134.36	378.05	428,520.64	837,788.05	32.1744525	-103.3752053	-108.99	0.00	0.00	0.00
4,000.00	8.00	109.57	3,971.85	-139.02	391.16	428,515.98	837,801.16	32.1744394	-103.3751630	-112.77	0.00	0.00	0.00
4,100.00	8.00	109.57	4,070.88	-143.68	404.27	428,511.32	837,814.27	32.1744263	-103.3751208	-116.55	0.00	0.00	0.00
4,200.00	8.00	109.57	4,169.90	-148.34	417.38	428,506.66	837,827.38	32.1744132	-103.3750786	-120.33	0.00	0.00	0.00
4,300.00	8.00	109.57	4,268.93	-153.00	430.49	428,502.00	837,840.49	32.1744000	-103.3750364	-124.11	0.00	0.00	0.00
4,400.00	8.00	109.57	4,367.96	-157.66	443.60	428,497.34	837,853.60	32.1743869	-103.3749941	-127.89	0.00	0.00	0.00
4,500.00	8.00	109.57	4,466.99	-162.32	456.71	428,492.68	837,866.71	32.1743738	-103.3749519	-131.67	0.00	0.00	0.00
4,600.00	8.00	109.57	4,566.01	-166.97	469.82	428,488.03	837,879.82	32.1743607	-103.3749097	-135.45	0.00	0.00	0.00
4,700.00	8.00	109.57	4,665.04	-171.63	482.93	428,483.37	837,892.93	32.1743475	-103.3748674	-139.23	0.00	0.00	0.00
4,800.00	8.00	109.57	4,764.07	-176.29	496.04	428,478.71	837,906.04	32.1743344	-103.3748252	-143.01	0.00	0.00	0.00
4,900.00	8.00	109.57	4,863.10	-180.95	509.15	428,474.05	837,919.15	32.1743213	-103.3747830	-146.79	0.00	0.00	0.00
5,000.00	8.00	109.57	4,962.12	-185.61	522.26	428,469.39	837,932.26	32.1743081	-103.3747407	-150.57	0.00	0.00	0.00
5,100.00	8.00	109.57	5,061.15	-190.27	535.37	428,464.73	837,945.37	32.1742950	-103.3746985	-154.35	0.00	0.00	0.00
5,127.70	8.00	109.57	5,088.58	-191.56	539.00	428,463.44	837,949.00	32.1742914	-103.3746868	-155.39	0.00	0.00	0.00
5,200.00	6.91	109.57	5,160.27	-194.70	547.84	428,460.30	837,957.84	32.1742825	-103.3746583	-157.94	1.50	-1.50	0.00
5,278.21	5.74	109.57	5,238.00	-197.59	555.96	428,457.41	837,965.96	32.1742744	-103.3746322	-160.28	1.50	-1.50	0.00
DMG/Bell Canyon													
5,300.00	5.41	109.57	5,259.69	-198.30	557.95	428,456.70	837,967.95	32.1742724	-103.3746258	-160.86	1.50	-1.50	0.00
5,400.00	3.91	109.57	5,359.35	-201.02	565.61	428,453.98	837,975.61	32.1742647	-103.3746011	-163.07	1.50	-1.50	0.00
5,500.00	2.41	109.57	5,459.20	-202.87	570.81	428,452.13	837,980.81	32.1742595	-103.3745843	-164.56	1.50	-1.50	0.00
5,600.00	0.91	109.57	5,559.15	-203.84	573.54	428,451.16	837,983.54	32.1742568	-103.3745755	-165.35	1.50	-1.50	0.00
5,660.85	0.00	0.00	5,620.00	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	1.50	-1.50	0.00
5,700.00	0.00	0.00	5,659.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
5,800.00	0.00	0.00	5,759.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
5,900.00	0.00	0.00	5,859.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
6,000.00	0.00	0.00	5,959.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
6,100.00	0.00	0.00	6,059.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
6,200.00	0.00	0.00	6,159.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
6,201.85	0.00	0.00	6,161.00	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
Cherry Canyon													

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Well:	Coonskin Fee 152H	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)
6,300.00	0.00	0.00	6,259.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
6,400.00	0.00	0.00	6,359.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
6,500.00	0.00	0.00	6,459.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
6,600.00	0.00	0.00	6,559.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
6,700.00	0.00	0.00	6,659.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
6,800.00	0.00	0.00	6,759.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
6,900.00	0.00	0.00	6,859.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
7,000.00	0.00	0.00	6,959.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
7,100.00	0.00	0.00	7,059.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
7,200.00	0.00	0.00	7,159.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
7,300.00	0.00	0.00	7,259.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
7,400.00	0.00	0.00	7,359.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
7,500.00	0.00	0.00	7,459.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
7,600.00	0.00	0.00	7,559.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
7,700.00	0.00	0.00	7,659.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
7,717.85	0.00	0.00	7,677.00	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
Brushy Canyon													
7,800.00	0.00	0.00	7,759.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
7,900.00	0.00	0.00	7,859.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
8,000.00	0.00	0.00	7,959.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
8,100.00	0.00	0.00	8,059.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
8,200.00	0.00	0.00	8,159.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
8,300.00	0.00	0.00	8,259.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
8,400.00	0.00	0.00	8,359.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
8,500.00	0.00	0.00	8,459.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
8,600.00	0.00	0.00	8,559.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
8,700.00	0.00	0.00	8,659.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
8,800.00	0.00	0.00	8,759.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
8,863.85	0.00	0.00	8,823.00	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
Brushy Canyon Lwr													
8,900.00	0.00	0.00	8,859.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
9,000.00	0.00	0.00	8,959.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
9,063.85	0.00	0.00	9,023.00	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
Avalon Upr													
9,100.00	0.00	0.00	9,059.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
9,200.00	0.00	0.00	9,159.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
9,300.00	0.00	0.00	9,259.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
9,331.85	0.00	0.00	9,291.00	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Well:	Coonskin Fee 152H	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)
Avalon Mid													
9,400.00	0.00	0.00	9,359.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
9,500.00	0.00	0.00	9,459.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
9,600.00	0.00	0.00	9,559.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
9,700.00	0.00	0.00	9,659.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
9,752.85	0.00	0.00	9,712.00	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
Avalon Lwr													
9,800.00	0.00	0.00	9,759.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
9,900.00	0.00	0.00	9,859.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
10,000.00	0.00	0.00	9,959.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
10,100.00	0.00	0.00	10,059.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
10,200.00	0.00	0.00	10,159.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
10,230.85	0.00	0.00	10,190.00	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
1st Bone Spring Sand													
10,300.00	0.00	0.00	10,259.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
10,400.00	0.00	0.00	10,359.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
10,405.85	0.00	0.00	10,365.00	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
2nd Bone Spring Carbonate													
10,500.00	0.00	0.00	10,459.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
10,600.00	0.00	0.00	10,559.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
10,700.00	0.00	0.00	10,659.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
10,800.00	0.00	0.00	10,759.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
10,900.00	0.00	0.00	10,859.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
11,000.00	0.00	0.00	10,959.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
11,022.85	0.00	0.00	10,982.00	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
2nd Bone Spring Sand													
11,100.00	0.00	0.00	11,059.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
11,200.00	0.00	0.00	11,159.15	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
11,232.51	0.00	0.00	11,191.66	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741	-165.48	0.00	0.00	0.00
KOP/FTP (Coonskin Fee 152H)													
11,250.00	1.75	359.50	11,209.15	-203.73	574.00	428,451.27	837,984.00	32.1742571	-103.3745741	-165.22	10.00	10.00	0.00
11,300.00	6.75	359.50	11,259.00	-200.03	573.97	428,454.97	837,983.97	32.1742673	-103.3745741	-161.52	10.00	10.00	0.00
11,326.27	9.38	359.50	11,285.00	-196.35	573.93	428,458.65	837,983.93	32.1742774	-103.3745741	-157.85	10.00	10.00	0.00
3rd Bone Spring Carbonate													
11,350.00	11.75	359.50	11,308.33	-192.00	573.90	428,463.00	837,983.90	32.1742893	-103.3745741	-153.51	10.00	10.00	0.00
11,400.00	16.75	359.50	11,356.78	-179.69	573.79	428,475.31	837,983.79	32.1743231	-103.3745740	-141.24	10.00	10.00	0.00
11,450.00	21.75	359.50	11,403.97	-163.22	573.65	428,491.78	837,983.65	32.1743684	-103.3745740	-124.81	10.00	10.00	0.00
11,500.00	26.75	359.50	11,449.54	-142.69	573.47	428,512.31	837,983.47	32.1744249	-103.3745740	-104.34	10.00	10.00	0.00
11,511.78	27.93	359.50	11,460.00	-137.28	573.42	428,517.72	837,983.42	32.1744397	-103.3745740	-98.95	10.00	10.00	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Well:	Coonskin Fee 152H	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)
3rd Bone Spring Shale													
11,550.00	31.75	359.50	11,493.15	-118.27	573.25	428,536.73	837,983.25	32.1744920	-103.3745740	-79.99	10.00	10.00	0.00
11,600.00	36.75	359.50	11,534.47	-90.14	573.01	428,564.86	837,983.01	32.1745693	-103.3745740	-51.94	10.00	10.00	0.00
11,650.00	41.75	359.50	11,573.18	-58.51	572.73	428,596.49	837,982.73	32.1746562	-103.3745740	-20.40	10.00	10.00	0.00
11,700.00	46.75	359.50	11,608.98	-23.64	572.43	428,631.36	837,982.43	32.1747521	-103.3745739	14.38	10.00	10.00	0.00
11,750.00	51.75	359.50	11,641.61	14.23	572.10	428,669.23	837,982.10	32.1748562	-103.3745739	52.14	10.00	10.00	0.00
11,800.00	56.75	359.50	11,670.81	54.79	571.75	428,709.79	837,981.75	32.1749677	-103.3745739	92.59	10.00	10.00	0.00
11,850.00	61.75	359.50	11,696.37	97.75	571.38	428,752.75	837,981.38	32.1750858	-103.3745739	135.42	10.00	10.00	0.00
11,900.00	66.75	359.50	11,718.09	142.77	570.98	428,797.77	837,980.98	32.1752095	-103.3745738	180.32	10.00	10.00	0.00
11,950.00	71.75	359.50	11,735.80	189.51	570.58	428,844.51	837,980.58	32.1753380	-103.3745738	226.93	10.00	10.00	0.00
12,000.00	76.75	359.50	11,749.36	237.61	570.16	428,892.61	837,980.16	32.1754702	-103.3745738	274.90	10.00	10.00	0.00
12,050.00	81.75	359.50	11,758.69	286.72	569.73	428,941.72	837,979.73	32.1756052	-103.3745737	323.87	10.00	10.00	0.00
12,100.00	86.75	359.50	11,763.70	336.45	569.30	428,991.45	837,979.30	32.1757419	-103.3745737	373.46	10.00	10.00	0.00
12,137.51	90.50	359.50	11,764.60	373.94	568.97	429,028.94	837,978.97	32.1758449	-103.3745737	410.85	10.00	10.00	0.00
12,200.00	90.50	359.50	11,764.05	436.42	568.43	429,091.42	837,978.43	32.1760167	-103.3745736	473.16	0.00	0.00	0.00
12,300.00	90.50	359.50	11,763.18	536.42	567.56	429,191.41	837,977.56	32.1762916	-103.3745736	572.87	0.00	0.00	0.00
12,400.00	90.50	359.50	11,762.31	636.41	566.69	429,291.41	837,976.69	32.1765664	-103.3745735	672.59	0.00	0.00	0.00
12,500.00	90.50	359.50	11,761.43	736.40	565.82	429,391.40	837,975.82	32.1768413	-103.3745734	772.30	0.00	0.00	0.00
12,600.00	90.50	359.50	11,760.56	836.39	564.95	429,491.39	837,974.95	32.1771161	-103.3745733	872.02	0.00	0.00	0.00
12,700.00	90.50	359.50	11,759.69	936.38	564.08	429,591.38	837,974.08	32.1773910	-103.3745733	971.73	0.00	0.00	0.00
12,800.00	90.50	359.50	11,758.82	1,036.38	563.21	429,691.38	837,973.21	32.1776658	-103.3745732	1,071.45	0.00	0.00	0.00
12,900.00	90.50	359.50	11,757.94	1,136.37	562.34	429,791.37	837,972.34	32.1779407	-103.3745731	1,171.16	0.00	0.00	0.00
13,000.00	90.50	359.50	11,757.07	1,236.36	561.47	429,891.36	837,971.47	32.1782155	-103.3745731	1,270.88	0.00	0.00	0.00
13,100.00	90.50	359.50	11,756.20	1,336.35	560.60	429,991.35	837,970.60	32.1784904	-103.3745730	1,370.59	0.00	0.00	0.00
13,200.00	90.50	359.50	11,755.32	1,436.35	559.73	430,091.35	837,969.73	32.1787652	-103.3745729	1,470.31	0.00	0.00	0.00
13,300.00	90.50	359.50	11,754.45	1,536.34	558.86	430,191.34	837,968.86	32.1790401	-103.3745729	1,570.02	0.00	0.00	0.00
13,400.00	90.50	359.50	11,753.58	1,636.33	557.99	430,291.33	837,967.99	32.1793150	-103.3745728	1,669.73	0.00	0.00	0.00
13,500.00	90.50	359.50	11,752.71	1,736.32	557.12	430,391.32	837,967.12	32.1795898	-103.3745727	1,769.45	0.00	0.00	0.00
13,600.00	90.50	359.50	11,751.83	1,836.32	556.25	430,491.32	837,966.25	32.1798647	-103.3745727	1,869.16	0.00	0.00	0.00
13,700.00	90.50	359.50	11,750.96	1,936.31	555.38	430,591.31	837,965.38	32.1801395	-103.3745726	1,968.88	0.00	0.00	0.00
13,800.00	90.50	359.50	11,750.09	2,036.30	554.51	430,691.30	837,964.51	32.1804144	-103.3745725	2,068.59	0.00	0.00	0.00
13,900.00	90.50	359.50	11,749.22	2,136.29	553.64	430,791.29	837,963.64	32.1806892	-103.3745725	2,168.31	0.00	0.00	0.00
14,000.00	90.50	359.50	11,748.34	2,236.29	552.77	430,891.29	837,962.77	32.1809641	-103.3745724	2,268.02	0.00	0.00	0.00
14,100.00	90.50	359.50	11,747.47	2,336.28	551.90	430,991.28	837,961.90	32.1812389	-103.3745723	2,367.74	0.00	0.00	0.00
14,200.00	90.50	359.50	11,746.60	2,436.27	551.03	431,091.27	837,961.03	32.1815138	-103.3745722	2,467.45	0.00	0.00	0.00
14,300.00	90.50	359.50	11,745.73	2,536.26	550.16	431,191.26	837,960.16	32.1817886	-103.3745722	2,567.17	0.00	0.00	0.00
14,400.00	90.50	359.50	11,744.85	2,636.26	549.29	431,291.26	837,959.29	32.1820635	-103.3745721	2,666.88	0.00	0.00	0.00
14,500.00	90.50	359.50	11,743.98	2,736.25	548.42	431,391.25	837,958.42	32.1823384	-103.3745720	2,766.59	0.00	0.00	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Well:	Coonskin Fee 152H	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)
14,600.00	90.50	359.50	11,743.11	2,836.24	547.55	431,491.24	837,957.55	32.1826132	-103.3745720	2,866.31	0.00	0.00	0.00
14,700.00	90.50	359.50	11,742.23	2,936.23	546.68	431,591.23	837,956.68	32.1828881	-103.3745719	2,966.02	0.00	0.00	0.00
14,800.00	90.50	359.50	11,741.36	3,036.23	545.81	431,691.23	837,955.81	32.1831629	-103.3745718	3,065.74	0.00	0.00	0.00
14,900.00	90.50	359.50	11,740.49	3,136.22	544.94	431,791.22	837,954.94	32.1834378	-103.3745718	3,165.45	0.00	0.00	0.00
15,000.00	90.50	359.50	11,739.62	3,236.21	544.07	431,891.21	837,954.07	32.1837126	-103.3745717	3,265.17	0.00	0.00	0.00
15,100.00	90.50	359.50	11,738.74	3,336.20	543.20	431,991.20	837,953.20	32.1839875	-103.3745716	3,364.88	0.00	0.00	0.00
15,200.00	90.50	359.50	11,737.87	3,436.19	542.33	432,091.19	837,952.33	32.1842623	-103.3745716	3,464.60	0.00	0.00	0.00
15,300.00	90.50	359.50	11,737.00	3,536.19	541.46	432,191.19	837,951.46	32.1845372	-103.3745715	3,564.31	0.00	0.00	0.00
15,400.00	90.50	359.50	11,736.13	3,636.18	540.59	432,291.18	837,950.59	32.1848120	-103.3745714	3,664.03	0.00	0.00	0.00
15,500.00	90.50	359.50	11,735.25	3,736.17	539.72	432,391.17	837,949.72	32.1850869	-103.3745713	3,763.74	0.00	0.00	0.00
15,600.00	90.50	359.50	11,734.38	3,836.16	538.85	432,491.16	837,948.85	32.1853618	-103.3745713	3,863.46	0.00	0.00	0.00
15,700.00	90.50	359.50	11,733.51	3,936.16	537.98	432,591.16	837,947.98	32.1856366	-103.3745712	3,963.17	0.00	0.00	0.00
15,800.00	90.50	359.50	11,732.64	4,036.15	537.11	432,691.15	837,947.11	32.1859115	-103.3745711	4,062.88	0.00	0.00	0.00
15,900.00	90.50	359.50	11,731.76	4,136.14	536.25	432,791.14	837,946.25	32.1861863	-103.3745711	4,162.60	0.00	0.00	0.00
16,000.00	90.50	359.50	11,730.89	4,236.13	535.38	432,891.13	837,945.38	32.1864612	-103.3745710	4,262.31	0.00	0.00	0.00
16,100.00	90.50	359.50	11,730.02	4,336.13	534.51	432,991.13	837,944.51	32.1867360	-103.3745709	4,362.03	0.00	0.00	0.00
16,200.00	90.50	359.50	11,729.15	4,436.12	533.64	433,091.12	837,943.64	32.1870109	-103.3745709	4,461.74	0.00	0.00	0.00
16,300.00	90.50	359.50	11,728.27	4,536.11	532.77	433,191.11	837,942.77	32.1872857	-103.3745708	4,561.46	0.00	0.00	0.00
16,400.00	90.50	359.50	11,727.40	4,636.10	531.90	433,291.10	837,941.90	32.1875606	-103.3745707	4,661.17	0.00	0.00	0.00
16,500.00	90.50	359.50	11,726.53	4,736.10	531.03	433,391.10	837,941.03	32.1878354	-103.3745706	4,760.89	0.00	0.00	0.00
16,600.00	90.50	359.50	11,725.65	4,836.09	530.16	433,491.09	837,940.16	32.1881103	-103.3745706	4,860.60	0.00	0.00	0.00
16,700.00	90.50	359.50	11,724.78	4,936.08	529.29	433,591.08	837,939.29	32.1883851	-103.3745705	4,960.32	0.00	0.00	0.00
16,800.00	90.50	359.50	11,723.91	5,036.07	528.42	433,691.07	837,938.42	32.1886600	-103.3745704	5,060.03	0.00	0.00	0.00
16,900.00	90.50	359.50	11,723.04	5,136.07	527.55	433,791.07	837,937.55	32.1889349	-103.3745704	5,159.75	0.00	0.00	0.00
17,000.00	90.50	359.50	11,722.16	5,236.06	526.68	433,891.06	837,936.68	32.1892097	-103.3745703	5,259.46	0.00	0.00	0.00
17,100.00	90.50	359.50	11,721.29	5,336.05	525.81	433,991.05	837,935.81	32.1894846	-103.3745702	5,359.17	0.00	0.00	0.00
17,200.00	90.50	359.50	11,720.42	5,436.04	524.94	434,091.04	837,934.94	32.1897594	-103.3745702	5,458.89	0.00	0.00	0.00
17,300.00	90.50	359.50	11,719.55	5,536.04	524.07	434,191.04	837,934.07	32.1900343	-103.3745701	5,558.60	0.00	0.00	0.00
17,400.00	90.50	359.50	11,718.67	5,636.03	523.20	434,291.03	837,933.20	32.1903091	-103.3745700	5,658.32	0.00	0.00	0.00
17,500.00	90.50	359.50	11,717.80	5,736.02	522.33	434,391.02	837,932.33	32.1905840	-103.3745699	5,758.03	0.00	0.00	0.00
17,600.00	90.50	359.50	11,716.93	5,836.01	521.46	434,491.01	837,931.46	32.1908588	-103.3745699	5,857.75	0.00	0.00	0.00
17,700.00	90.50	359.50	11,716.06	5,936.01	520.59	434,591.01	837,930.59	32.1911337	-103.3745698	5,957.46	0.00	0.00	0.00
17,800.00	90.50	359.50	11,715.18	6,036.00	519.72	434,691.00	837,929.72	32.1914085	-103.3745697	6,057.18	0.00	0.00	0.00
17,900.00	90.50	359.50	11,714.31	6,135.99	518.85	434,790.99	837,928.85	32.1916834	-103.3745697	6,156.89	0.00	0.00	0.00
18,000.00	90.50	359.50	11,713.44	6,235.98	517.98	434,890.98	837,927.98	32.1919582	-103.3745696	6,256.61	0.00	0.00	0.00
18,100.00	90.50	359.50	11,712.56	6,335.97	517.11	434,990.97	837,927.11	32.1922331	-103.3745695	6,356.32	0.00	0.00	0.00
18,200.00	90.50	359.50	11,711.69	6,435.97	516.24	435,090.97	837,926.24	32.1925080	-103.3745695	6,456.03	0.00	0.00	0.00

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Well:	Coonskin Fee 152H	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 Rate (usft) (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,300.00	90.50	359.50	11,710.82	6,535.96	515.37	435,190.96	837,925.37	32.1927828	-103.3745694	6,555.75	0.00	0.00
18,400.00	90.50	359.50	11,709.95	6,635.95	514.50	435,290.95	837,924.50	32.1930577	-103.3745693	6,655.46	0.00	0.00
18,500.00	90.50	359.50	11,709.07	6,735.94	513.63	435,390.94	837,923.63	32.1933325	-103.3745692	6,755.18	0.00	0.00
18,600.00	90.50	359.50	11,708.20	6,835.94	512.76	435,490.94	837,922.76	32.1936074	-103.3745692	6,854.89	0.00	0.00
18,700.00	90.50	359.50	11,707.33	6,935.93	511.89	435,590.93	837,921.89	32.1938822	-103.3745691	6,954.61	0.00	0.00
18,800.00	90.50	359.50	11,706.46	7,035.92	511.02	435,690.92	837,921.02	32.1941571	-103.3745690	7,054.32	0.00	0.00
18,900.00	90.50	359.50	11,705.58	7,135.91	510.15	435,790.91	837,920.15	32.1944319	-103.3745690	7,154.04	0.00	0.00
19,000.00	90.50	359.50	11,704.71	7,235.91	509.28	435,890.91	837,919.28	32.1947068	-103.3745689	7,253.75	0.00	0.00
19,100.00	90.50	359.50	11,703.84	7,335.90	508.41	435,990.90	837,918.41	32.1949816	-103.3745688	7,353.47	0.00	0.00
19,200.00	90.50	359.50	11,702.97	7,435.89	507.54	436,090.89	837,917.54	32.1952565	-103.3745688	7,453.18	0.00	0.00
19,281.11	90.50	359.50	11,702.26	7,517.00	506.84	436,172.00	837,916.84	32.1954794	-103.3745687	7,534.06	0.00	0.00
LTP (Coonskin Fee 152H)												
19,300.00	90.50	359.50	11,702.09	7,535.88	506.67	436,190.88	837,916.67	32.1955313	-103.3745687	7,552.90	0.00	0.00
19,377.12	90.50	359.50	11,701.42	7,613.00	506.00	436,268.00	837,916.00	32.1957433	-103.3745686	7,629.80	0.00	0.00
PBHL (Coonskin Fee 152H)												

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
KOP/FTP (Coonskin F - plan hits target center - Point	0.00	0.00	11,191.66	-204.00	574.00	428,451.00	837,984.00	32.1742563	-103.3745741
PBHL (Coonskin Fee - plan hits target center - Point	0.00	0.00	11,701.42	7,613.00	506.00	436,268.00	837,916.00	32.1957433	-103.3745686
LTP (Coonskin Fee 152H - plan misses target center by 0.17usft at 19281.11usft MD (11702.26 TVD, 7517.00 N, 506.84 E) - Point	0.00	0.00	11,702.25	7,517.00	507.00	436,172.00	837,917.00	32.1954794	-103.3745682

Total Directional Planned Survey Report



Company:	Civitas Resources	Local Co-ordinate Reference:	Well Coonskin Fee 152H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3300' + KB 26' @ 3326.00usft
Site:	Coonskin Fee Pad	MD Reference:	GE 3300' + KB 26' @ 3326.00usft
Well:	Coonskin Fee 152H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	.Total Directional Production DB

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
544.00	544.00	Rustler			
953.10	953.00	Salado			
5,278.21	5,238.00	DMG/Bell Canyon			
6,201.85	6,161.00	Cherry Canyon			
7,717.85	7,677.00	Brushy Canyon			
8,863.85	8,823.00	Brushy Canyon Lwr			
9,063.85	9,023.00	Avalon Upr			
9,331.85	9,291.00	Avalon Mid			
9,752.85	9,712.00	Avalon Lwr			
10,230.85	10,190.00	1st Bone Spring Sand			
10,405.85	10,365.00	2nd Bone Spring Carbonate			
11,022.85	10,982.00	2nd Bone Spring Sand			
11,326.27	11,285.00	3rd Bone Spring Carbonate			
11,511.78	11,460.00	3rd Bone Spring Shale			

Checked By: _____ Approved By: _____ Date: _____

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Civitas Permian Operating, LLC **OGRID:** 332195 **Date:** 08 / 26 / 2025

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
COONSKIN FEE 152H	TBD	F-33-24S-35E	2330 FNL 1408 FWL	675	1600	2200
COONSKIN FEE 122H	TBD	F-33-24S-35E	2305 FNL 1408 FWL	675	1600	2200

IV. Central Delivery Point Name: COONSKIN CTB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
COONSKIN FEE 152H	TBD	01/01/2026	01/17/2026	02/15/2026	02/21/2026	03/15/2026
COONSKIN FEE 122H	TBD	01/02/2026	01/26/2026	02/15/2026	02/21/2026	03/15/2026

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

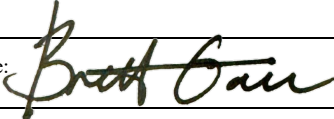
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: BRETT GARZA
Title: REGULATORY ADVISOR
E-mail Address: BGARZA@CIVIRESOURCES.COM
Date: 08/26/2025
Phone: 512.915.5421
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



Civitas Permian Operating Natural Gas Management Plan

VI. Separation Equipment:

Each surface facility design includes the following process equipment: Multiphase test measurement per upstream pad, 3-phase separators, a sales gas scrubber, heater treaters, a VRU compressor, multiple water and oil tanks, as well as flare knockouts (HP & LP), and flares (HP & LP - combined). All process vessels will be sized to separate oil, water, gas based upon typical/historical & predicted well performance. Each process vessel will be fitted with an appropriately sized PSV as per ASME code requirements to mitigate vessel rupture and loss of containment. Additionally, the process vessels will be fitted with pressure transmitters tied to the facility control system which will allow operations to monitor pressures and when necessary, shut in the facility to avoid vessel over-pressure and the potential vent of natural gas. Natural gas will preferentially be sold to pipeline, and only during upset/emergency conditions will gas be directed to the flare system. Aboveground steel oil tanks & water tanks will be fitted with 32 oz thief hatches as well as PRVs to protect the tanks from rupture/collapse. Additionally, the tank vapor outlets will preferentially be directed to the VRU and the sales gas pipeline. Only during process upsets/emergency conditions will tank vapors be directed to the LP flare system.

VII. Operational Practices:

- During drilling operations, gas meters will be installed at the shakers and Volume Totalizers will be installed on the pits. In the event that elevated gas levels, or a pit gain are observed, returns will be diverted to a gas buster. Gas coming off the gas buster will be combusted at the flare stack. A 10' or taller flare will be located at least 100' from the SHL.
- During completions operations, including stimulation and frac plug drill out operations, hydrocarbon production to surface is minimized. When gas production does occur, gas will be combusted at a flare stack. A 10' or taller flare will be located at least 100' from the SHL.
- During production operations, all process vessels (separators, heater treaters, tanks) will recompress (where necessary) and route gas outlets into the natural gas gathering pipeline. Gas will preferentially be routed to natural gas gathering pipeline and the flare system will be used only during emergencies, malfunction, or if the gas does not meet pipeline specifications. In the event of flaring off-specification gas, operations will pull gas samples twice a week and will also route gas back to pipeline as soon as the gas meets specification. Exceptions to this will include only those qualified emergencies as mentioned in the BLM Waste Prevention Rule.



- To comply with state performance standards, separation and storage equipment will be designed to handle the maximum anticipated throughput and pressure to minimize waste and reduce the likelihood of venting gas to atmosphere. Additionally, each storage tank (Oil & Water) will be fitted with a level transmitter to facilitate gauging of the tank without opening of the thief hatch. Any gas collected through the tank vent system is expected to be recompressed and routed to sales. However, in the event of an emergency, the tank vapor system will be designed to combust the gas using a flare stack fitted with a continuous or automatic ignitor. The flare stack will be properly anchored and will be located a minimum of 100 feet from the well and storage tanks. Operators will conduct weekly AVO inspections. These AVO inspection records will be stored for the required 5-year period and will be made available upon Division request.

VIII. Best Management Practices:

When performing routine or preventive maintenance on a vessel or tank, initially all inlet valves are closed, and the vessel or tank is allowed to depressurize through the normal outlet connections to gas sales and/or liquid tanks. Once the vessel or tank is depressurized to lowest acceptable sales outlet pressure, usually around 20 psig, a temporary low-pressure flowline is connected from the vessel or tank to the Vapor Recovery Unit (VRU) for further pressure reduction. Once depressurized to less than 1-2 psig, the remaining natural gas in the vessel or tank is vented to atmosphere through a controlled pressure relief valve. Once the vessel or tank is depressurized to atmospheric pressure, the vessel or tank can be safely opened, and maintenance performed.



U. S. Steel Tubular Products

5.500" 23.00lb/ft (0.415" Wall) USS C95 USS-TALON HTQ™

8/4/2025 9:46:32 AM



MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™		[6]
Minimum Yield Strength	95,000	--	psi	--
Maximum Yield Strength	110,000	--	psi	--
Minimum Tensile Strength	105,000	--	psi	--
DIMENSIONS	Pipe	USS-TALON HTQ™		--
Outside Diameter	5.500	6.300	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™		--
Critical Area	6.630	6.630	sq. in.	--
Joint Efficiency	--	100.0	%	[2]
PERFORMANCE	Pipe	USS-TALON HTQ™		--
Minimum Collapse Pressure	12,940	12,940	psi	--
Minimum Internal Yield Pressure	12,540	12,540	psi	--
Minimum Pipe Body Yield Strength	630,000	--	lb	--
Joint Strength	--	630,000	lb	--
Compression Rating	--	630,000	lb	--
Reference Length	--	18,260	ft	[5]
Maximum Uniaxial Bend Rating	--	79.2	deg/100 ft	[3]
MAKE-UP DATA	Pipe	USS-TALON HTQ™		--
Make-Up Loss	--	5.58	in.	--
Minimum Make-Up Torque	--	18,100	ft-lb	[4]
Maximum Make-Up Torque	--	21,100	ft-lb	[4]
Maximum Operating Torque	--	35,800	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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