

Well Name: TALCO STATE FED COM	Well Location: T26S / R35E / SEC 16 / NWNW / 32.0489118 / -103.37711	County or Parish/State: LEA / NM
Well Number: 151H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0448921A	Unit or CA Name:	Unit or CA Number:
US Well Number: 300255138200X1	Operator: CIVITAS PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2898301

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 03/02/2026

Time Sundry Submitted: 09:52

Date proposed operation will begin: 03/02/2026

Procedure Description: Civitas Permian is submitting the attached approved plan to sidetrack our production hole.

NOI Attachments

Procedure Description

RE_EXTERNAL_Civitas_Talco_151H_Production_..._20260302095221_20260306061451.pdf

Well Name: TALCO STATE FED COM

Well Location: T26S / R35E / SEC 16 / NWNW / 32.0489118 / -103.37711

County or Parish/State: LEA / NM

Well Number: 151H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM0448921A

Unit or CA Name:

Unit or CA Number:

US Well Number: 300255138200X1

Operator: CIVITAS PERMIAN OPERATING LLC

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: NICOLE LEE

Signed on: MAR 06, 2026 06:15 AM

Name: CIVITAS PERMIAN OPERATING LLC

Title: Regulatory Specialist III

Street Address: 9950 WOODLOCH FOREST DRIVE STE 1400

City: THE WOODLANDS State: TX

Phone: (281) 740-9416

Email address: NLEE@CIVIREOURCES.COM

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: CWALLS@BLM.GOV

Disposition: Approved

Disposition Date: 04/13/2026

Signature: Chris Walls

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

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

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

1. Type of Well

Oil Well Gas Well Other

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. (include area code)

10. Field and Pool or Exploratory Area

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

11. Country or Parish, State

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

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

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

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

Office

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: NWNW / 595 FNL / 1187 FWL / TWSP: 26S / RANGE: 35E / SECTION: 16 / LAT: 32.0489118 / LONG: -103.37711 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 210 FNL / 490 FWL / TWSP: 26S / RANGE: 35E / SECTION: 16 / LAT: 32.0499659 / LONG: -103.3793582 (TVD: 11530 feet, MD: 11577 feet)

PPP: NWSW / 2640 FSL / 495 FWL / TWSP: 26S / RANGE: 35E / SECTION: 16 / LAT: 32.043269 / LONG: -103.379323 (TVD: 12024 feet, MD: 14255 feet)

BHL: SWSW / 5 FSL / 495 FWL / TWSP: 26S / RANGE: 35E / SECTION: 21 / LAT: 32.0215163 / LONG: -103.3793127 (TVD: 12010 feet, MD: 22191 feet)

From: [Gomez, Matthew, EMNRD](#)
To: [Nicole Lee; Engineer, OCD, EMNRD](#)
Cc: [Allen Livingston; Bertha Nefe; Wrinkle, Justin, EMNRD; Rikala, Ward, EMNRD](#)
Subject: RE: [EXTERNAL] Civitas - Talco 151H Production Hole Sidetrack
Date: Monday, March 2, 2026 10:45:37 AM
Attachments: [image001.png](#)

Civitas' proposed sidetrack operation is approved contingent upon the following:

- Civitas must file a NOI sundry with the OCD within ten business days after the submittal is processed to completion or approved by the BLM.
 - Please notify me once the sundry has been filed with the OCD.
 - Should this condition not be met, verbal approval of this change will be considered null and void.
- Should the BHL deviate greater than 50' from the currently permitted BHL a NOI Change of Plans must be submitted.
- Should the lateral enter a different formation from what is currently permitted a NOI Change of Plans must be submitted.
- Civitas must adhere to all conditions of approval previously applied to the subject well.

Additionally, Civitas was previously instructed to notify me once the sundry detailing a previous short notice email approval was submitted to the OCD. This did not occur. Continued failure to adhere to OCD direction may result in review for potential compliance actions. Thank you.

Respectfully,

Matthew Gomez

Senior Petroleum Specialist
State of New Mexico
Energy, Minerals, and Natural Resources Department
Oil Conservation Division
(505) 607-1610

From: Nicole Lee <nlee@civiresources.com>
Sent: Monday, March 2, 2026 8:43 AM
To: Gomez, Matthew, EMNRD <Matthew.Gomez@emnrd.nm.gov>; Engineer, OCD, EMNRD <OCD.Engineer@emnrd.nm.gov>
Cc: Allen Livingston <alivingston@civiresources.com>; Bertha Nefe <bnefe@civiresources.com>
Subject: RE: [EXTERNAL] Civitas - Talco 151H Production Hole Sidetrack

API Number 30-025-51382

Thank you.

Nicole Lee

Regulatory Specialist

Civitas Resources | 9950 Woodloch Forest Dr., Ste 1600 | The Woodlands, TX 77380

Cell: 281.740.9416 | nlee@civitasources.com



From: Gomez, Matthew, EMNRD <Matthew.Gomez@emnrd.nm.gov>
Sent: Monday, March 2, 2026 9:41 AM
To: Nicole Lee <nlee@civitasources.com>; Engineer, OCD, EMNRD <OCD.Engineer@emnrd.nm.gov>
Cc: Allen Livingston <alivingston@civitasources.com>; Bertha Nefe <bnefe@civitasources.com>
Subject: RE: [EXTERNAL] Civitas - Talco 151H Production Hole Sidetrack

Good morning,

The reported API # does not correspond the reported well. Please verify.

Respectfully,

Matthew Gomez

Senior Petroleum Specialist

State of New Mexico

Energy, Minerals, and Natural Resources Department

Oil Conservation Division

(505) 607-1610

From: Nicole Lee <nlee@civitasources.com>
Sent: Monday, March 2, 2026 6:54 AM
To: Engineer, OCD, EMNRD <OCD.Engineer@emnrd.nm.gov>; Gomez, Matthew, EMNRD <Matthew.Gomez@emnrd.nm.gov>
Cc: Allen Livingston <alivingston@civitasources.com>; Bertha Nefe <bnefe@civitasources.com>
Subject: FW: [EXTERNAL] Civitas - Talco 151H Production Hole Sidetrack

Good morning,

Please see the below approved change of plans from the BLM for the well we are currently on. Please let us know if you have any questions or concerns.

Thank you.

Nicole Lee

Regulatory Specialist

Civitas Resources | 9950 Woodloch Forest Dr., Ste 1600 | The Woodlands, TX 77380

Cell: 281.740.9416 | nlee@civitasresources.com



From: Allen Livingston <alivingston@civitasresources.com>

Sent: Monday, March 2, 2026 6:44 AM

To: Joseph Martin <jmartin@civitasresources.com>; James Wilhoit <jwilhoit@civitasresources.com>; Nicole Lee <nlee@civitasresources.com>; Brett Garza <bgarza@civitasresources.com>; Bertha Nefe <bnefe@civitasresources.com>

Subject: Fw: [EXTERNAL] Civitas - Talco 151H Production Hole Sidetrack

See approval email below.

Allen Livingston

Drilling Engineer – Permian Basin

Alivingston@civitasresources.com

Mobile: 832-680-2348



From: Akhtarmanesh, Saman <sakhtarmanesh@blm.gov>

Sent: Friday, February 27, 2026 11:45 PM

To: Allen Livingston <alivingston@civitasresources.com>

Subject: Re: [EXTERNAL] Civitas - Talco 151H Production Hole Sidetrack

Allen,

Regarding Talco State Fed Com 151H;

You are approved to proceed with the sidetrack as proposed.

Please submit a NOI sidetrack sundry within 5 days. Submit updated directional plan and plot.

Regards

Saman Akhtarmanesh

Petroleum Engineer

BLM- CFO

575-909-9996

From: Allen Livingston <alivingston@civiresources.com>
Sent: Friday, February 27, 2026 5:58:17 PM
To: Akhtarmanesh, Saman <sakhtarmanesh@blm.gov>; James Wilhoit <jwilhoit@civiresources.com>; Nicole Lee <nlee@civiresources.com>; Brett Garza <bgarza@civiresources.com>; Joseph Martin <jomartin@civiresources.com>; Femi Afelumo <fafelumo@sm-energy.com>
Subject: [EXTERNAL] Civitas - Talco 151H Production Hole Sidetrack

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Well name: Talco State Fed Com 151h

Permit number: 10400085535

API: 30-025-51483

While drilling ahead at 14521 ft had a pressure loss, Pooh to evaluate and find motor parted at the top sub. Motor and bit left in hole - 35ft of fish. The formation is the 3bsc, we will plan to open hole sidetrack at 13950' Md and stay inside the 3bsc so we are not planning a cement plug.

Sidetrack Tvd and bhl are planned to stay the same.

Thanks for your help,

Allen Livingston
Drilling Engineer – Permian Basin
Alivingston@civiresources.com
Mobile: 832-680-2348



Company: Civitas Resources
 Field: Lea County, NM (NAD 83)
 Location: Talco State Fed Com Pad
 Well: Talco State Fed Com 151H
 ST01
 Plan: Plan 3
 GE 3200' + KB 26' @ 3226.00usft

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
13950.00	90.14	179.82	12058.21	-1663.08	-680.16	0.00	0.00	1656.35
13955.00	89.99	179.57	12058.20	-1668.08	-680.13	6.00	-120.00	1661.35
13963.50	89.99	179.06	12058.20	-1676.58	-680.03	6.00	270.00	1669.85
14043.50	89.99	174.26	12058.22	-1756.42	-675.37	6.00	270.00	1749.73
14076.67	89.32	174.26	12058.42	-1789.42	-672.05	2.00	180.00	1782.77
14343.12	90.00	179.54	12060.00	-2055.38	-657.63	2.00	82.72	2048.86
22164.99	90.00	179.54	12060.00	-9877.00	-595.00	0.00	0.00	9870.71
22259.99	90.00	179.54	12060.00	-9971.99	-594.24	0.00	0.00	9965.71

Rig: H&P 438

PROJECT DETAILS: Lea County, NM (NAD 83)

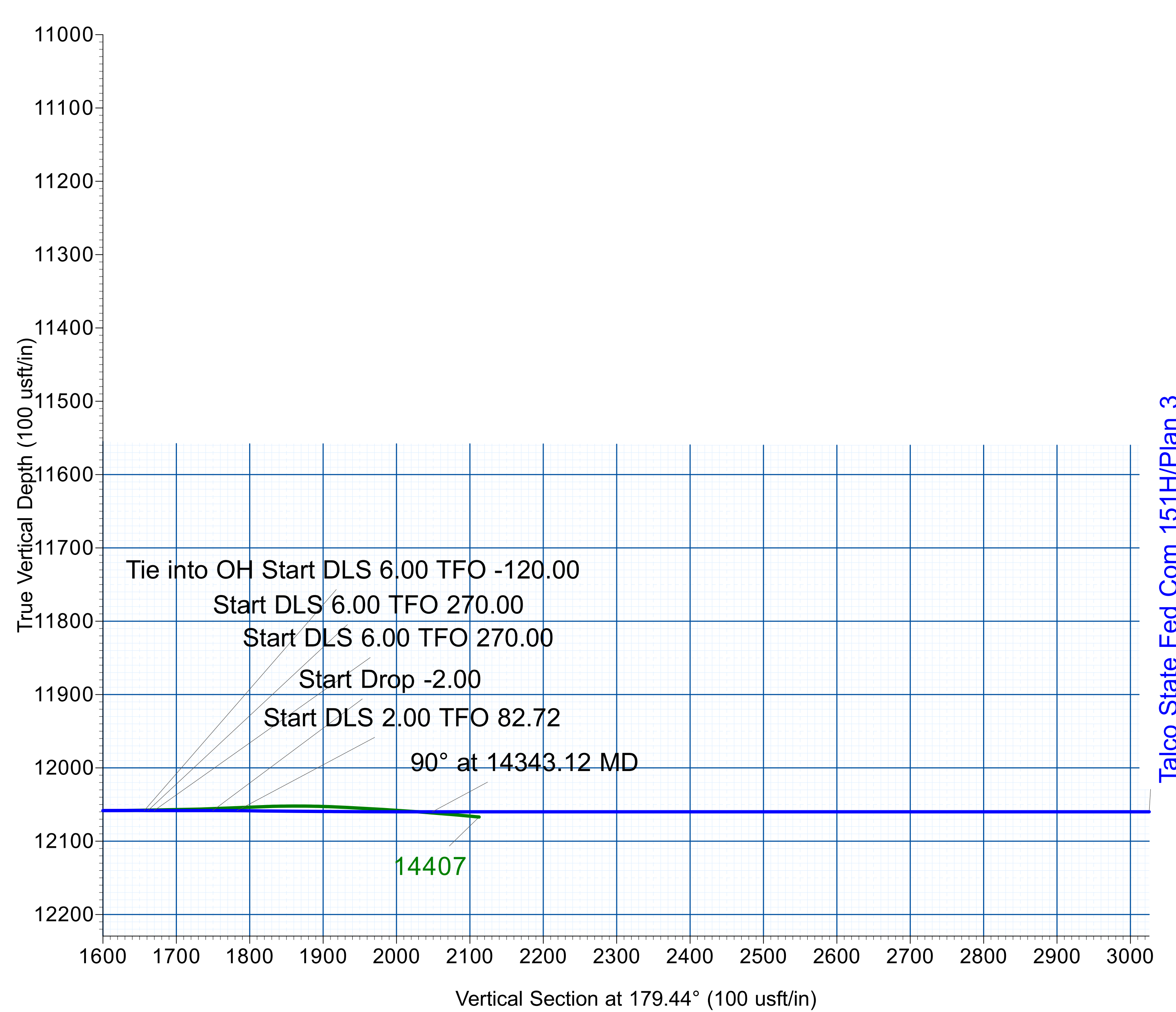
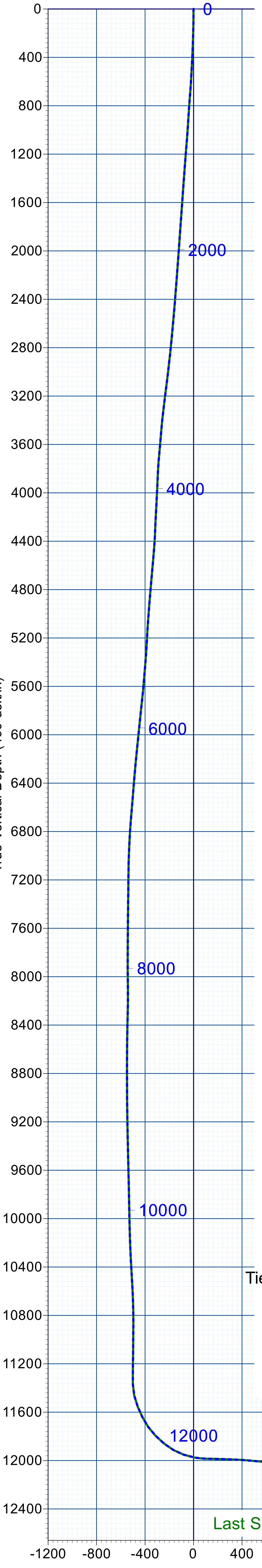
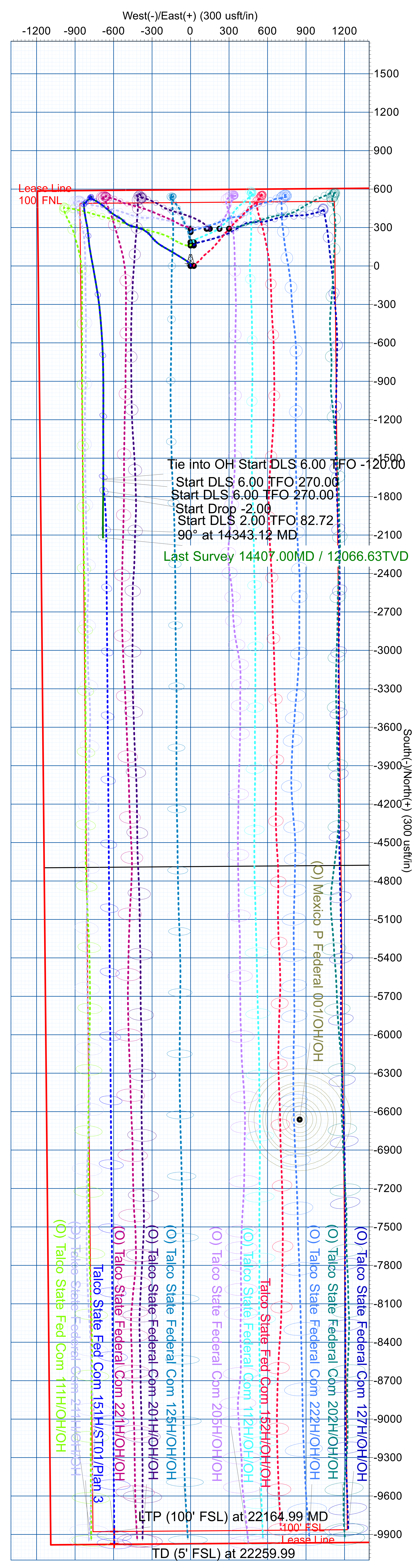
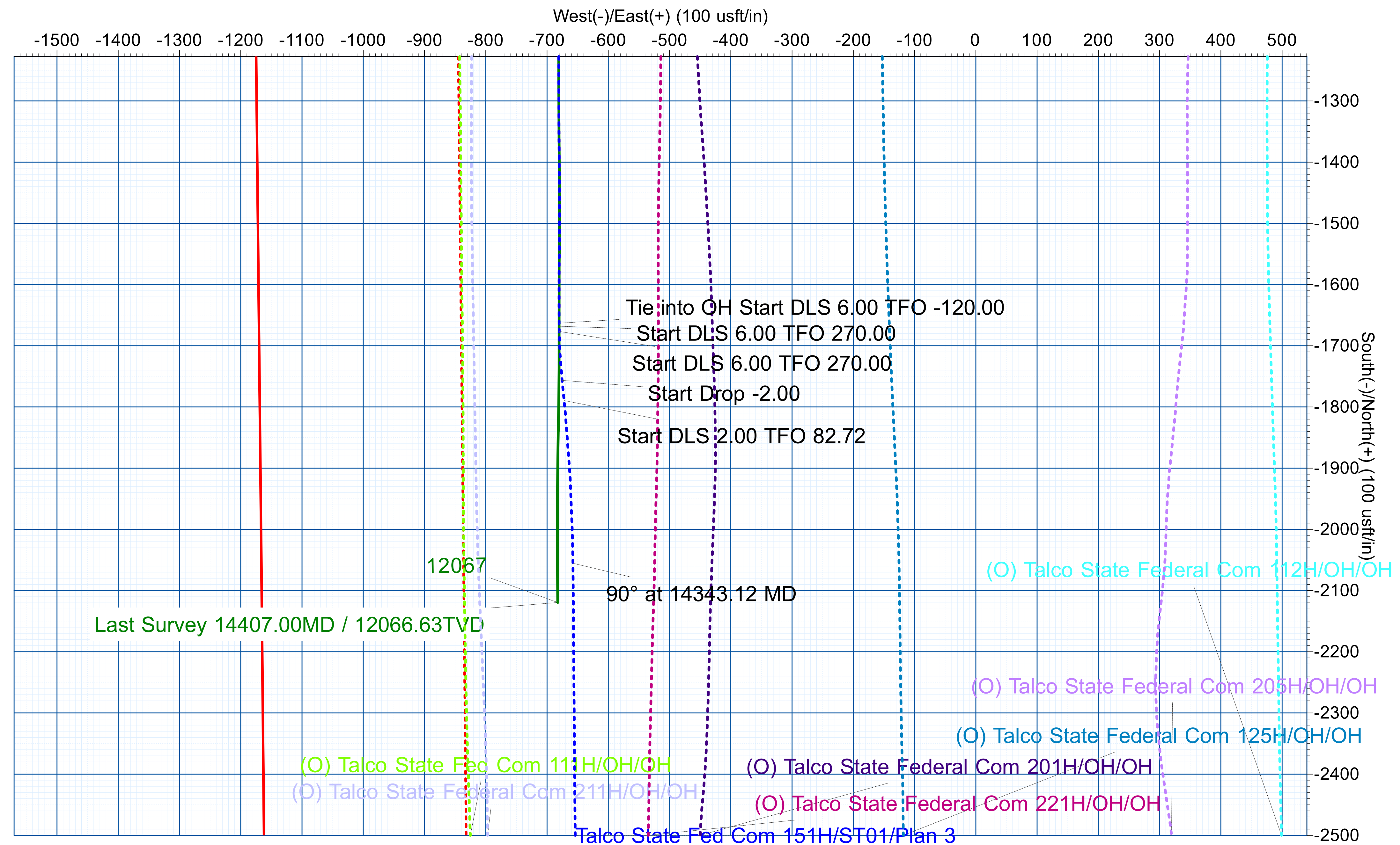
Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level

DESIGN TARGET DETAILS

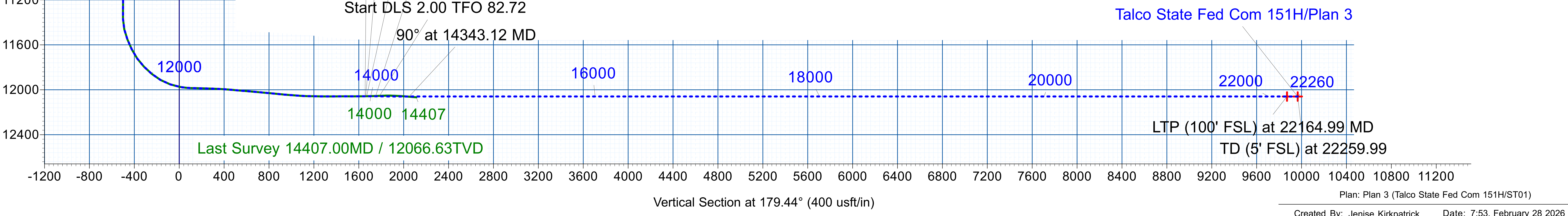
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LTP (Talco State Fed Com 151H)	12060.00	-9877.00	-595.00	372967.00	837009.00	32.021778	-103.379311
PBHL (Talco State Fed Com 151H)	12060.00	-9972.00	-595.00	372872.00	837009.00	32.021517	-103.379314

WELL DETAILS: Talco State Fed Com 151H

GE 3200' + KB 26' @ 3226.00usft	3200.00
Northing	382844.00
Easting	837604.00
Latitude	32.048912
Longitude	-103.377110



Talco State Fed Com 151H/Plan 3





CIVITAS

Civitas Resources

**Lea County, NM (NAD 83)
Talco State Fed Com Pad
Talco State Fed Com 151H**

**ST01
Plan 3**

Anticollision Report

28 February, 2026



Legacy Directional Drilling
Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Reference	Plan 3		
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 2,426.05usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	2/28/2026		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
173.00	13,950.00	Legacy MWD (OH)	MWD+HRGM+SAG+FDIR (r	OWSG MWD + HRGM + SAG + FDIR Correction
13,950.00	22,259.94	Plan 3 (ST01)		

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
1.5M Deep Slim Hole Generic						
Well #1 - OH - Plan 1	21,706.07	12,032.50	1,086.02	916.30	6.399	CC, ES
Well #1 - OH - Plan 1	21,800.00	12,032.50	1,090.08	918.86	6.367	SF
Talco State Fed Com Pad						
(O) Mexico P Federal 001 - OH - OH	18,961.00	12,013.81	1,470.86	1,125.58	4.260	CC, ES
(O) Mexico P Federal 001 - OH - OH	19,000.00	12,013.90	1,471.37	1,125.82	4.258	SF
(O) Talco State Fed Com 111H - OH - OH	5,400.00	5,403.59	44.91	11.39	1.340	Collision Risk Procedures R
(O) Talco State Fed Com 111H - OH - OH	5,500.00	5,503.17	45.84	11.53	1.336	Collision Risk Procedures R
(O) Talco State Federal Com 112H - OH - OH	1,063.91	1,056.82	161.99	154.26	20.959	CC
(O) Talco State Federal Com 112H - OH - OH	1,200.00	1,192.61	162.49	153.75	18.582	ES
(O) Talco State Federal Com 112H - OH - OH	22,259.99	20,820.00	1,920.46	1,715.63	9.376	SF
(O) Talco State Federal Com 125H - OH - OH	1,247.91	1,243.08	139.29	130.23	15.381	CC
(O) Talco State Federal Com 125H - OH - OH	1,300.00	1,294.87	139.43	130.04	14.854	ES
(O) Talco State Federal Com 125H - OH - OH	22,259.99	21,356.43	1,149.82	965.93	6.253	SF
(O) Talco State Federal Com 127H - OH - OH	890.43	886.21	140.51	133.72	20.720	CC
(O) Talco State Federal Com 127H - OH - OH	900.00	895.76	140.54	133.70	20.563	ES
(O) Talco State Federal Com 127H - OH - OH	22,259.99	21,173.00	2,094.03	1,834.56	8.070	SF
(O) Talco State Federal Com 201H - OH - OH	696.62	693.03	301.80	296.28	54.653	CC
(O) Talco State Federal Com 201H - OH - OH	6,526.63	6,542.95	328.81	290.09	8.491	ES
(O) Talco State Federal Com 201H - OH - OH	22,240.71	22,962.00	600.74	433.48	3.592	SF
(O) Talco State Federal Com 202H - OH - OH	600.00	597.53	408.15	403.32	84.515	CC
(O) Talco State Federal Com 202H - OH - OH	604.45	601.93	408.15	403.29	83.966	ES
(O) Talco State Federal Com 202H - OH - OH	22,259.99	22,917.13	1,892.39	1,616.94	6.870	SF
(O) Talco State Federal Com 205H - OH - OH	667.19	666.15	350.61	345.27	65.685	CC, ES
(O) Talco State Federal Com 205H - OH - OH	22,259.99	22,885.32	1,192.05	934.20	4.623	SF
(O) Talco State Federal Com 211H - OH - OH	11,411.50	11,417.22	50.45	-9.82	0.837	Collision Risk Procedures R
(O) Talco State Federal Com 211H - OH - OH	11,500.00	11,505.53	51.56	-10.30	0.833	Collision Risk Procedures R
(O) Talco State Federal Com 221H - OH - OH	6,380.67	6,373.21	83.39	44.29	2.133	CC, ES
(O) Talco State Federal Com 221H - OH - OH	6,400.00	6,392.17	83.48	44.32	2.132	SF
(O) Talco State Federal Com 222H - OH - OH	1,343.99	1,335.73	217.64	208.04	22.655	CC
(O) Talco State Federal Com 222H - OH - OH	1,400.00	1,391.21	217.87	207.97	21.999	ES
(O) Talco State Federal Com 222H - OH - OH	22,259.99	23,340.07	1,836.07	1,586.87	7.368	SF
Talco State Fed Com 151H - OH - OH	13,950.00	13,950.00	0.55	-0.33	0.628	Collision Risk Procedures R
Talco State Fed Com 151H - OH - OH	14,000.00	13,999.95	1.66	-0.85	0.661	Collision Risk Procedures R
Talco State Fed Com 151H - ST01 - ST01	13,932.00	13,932.00	0.23	-0.24	0.497	Collision Risk Procedures R
Talco State Fed Com 152H - OH - OH	233.76	233.76	24.35	22.04	10.522	CC

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



Legacy Directional Drilling
Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	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						
Talco State Fed Com Pad						
Talco State Fed Com 152H - OH - OH	300.00	299.93	24.50	21.60	8.436	ES
Talco State Fed Com 152H - OH - OH	22,200.00	22,108.44	1,300.52	1,071.05	5.667	SF
Talco State Fed Com 152H - OH - Plan 2	200.00	199.97	24.83	21.69	7.915	CC
Talco State Fed Com 152H - OH - Plan 2	300.00	299.93	25.26	21.15	6.147	ES
Talco State Fed Com 152H - OH - Plan 2	22,259.99	22,352.32	1,319.24	1,046.76	4.842	SF

Offset Design: 1.5M Deep Slim Hole Generic - Well #1 - OH - Plan 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
19,600.00	12,060.00	12,032.50	12,060.00	99.09	43.04	90.00	-9,426.79	-1,684.66	2,369.60	2,277.10	92.49	25.619		
19,700.00	12,060.00	12,032.50	12,060.00	100.40	43.04	90.00	-9,426.79	-1,684.66	2,281.18	2,186.89	94.29	24.193		
19,800.00	12,060.00	12,032.50	12,060.00	101.71	43.04	90.00	-9,426.79	-1,684.66	2,193.75	2,097.49	96.26	22.789		
19,900.00	12,060.00	12,032.50	12,060.00	103.02	43.04	90.00	-9,426.79	-1,684.66	2,107.45	2,009.02	98.42	21.412		
20,000.00	12,060.00	12,032.50	12,060.00	104.34	43.04	90.00	-9,426.79	-1,684.66	2,022.41	1,921.61	100.80	20.064		
20,100.00	12,060.00	12,032.50	12,060.00	105.65	43.04	90.00	-9,426.79	-1,684.66	1,938.79	1,835.40	103.39	18.751		
20,200.00	12,060.00	12,032.50	12,060.00	106.97	43.04	90.00	-9,426.79	-1,684.66	1,856.80	1,750.56	106.24	17.477		
20,300.00	12,060.00	12,032.50	12,060.00	108.29	43.04	90.00	-9,426.79	-1,684.66	1,776.65	1,667.30	109.35	16.247		
20,400.00	12,060.00	12,032.50	12,060.00	109.61	43.04	90.00	-9,426.79	-1,684.66	1,698.61	1,585.86	112.74	15.066		
20,500.00	12,060.00	12,032.50	12,060.00	110.93	43.04	90.00	-9,426.79	-1,684.66	1,622.98	1,506.54	116.43	13.939		
20,600.00	12,060.00	12,032.50	12,060.00	112.26	43.04	90.00	-9,426.79	-1,684.66	1,550.11	1,429.68	120.43	12.872		
20,700.00	12,060.00	12,032.50	12,060.00	113.58	43.04	90.00	-9,426.79	-1,684.66	1,480.41	1,355.68	124.73	11.869		
20,800.00	12,060.00	12,032.50	12,060.00	114.90	43.04	90.00	-9,426.79	-1,684.66	1,414.36	1,285.04	129.32	10.937		
20,900.00	12,060.00	12,032.50	12,060.00	116.23	43.04	90.00	-9,426.79	-1,684.66	1,352.48	1,218.30	134.18	10.080		
21,000.00	12,060.00	12,032.50	12,060.00	117.56	43.04	90.00	-9,426.79	-1,684.66	1,295.37	1,156.13	139.24	9.303		
21,100.00	12,060.00	12,032.50	12,060.00	118.88	43.04	90.00	-9,426.79	-1,684.66	1,243.69	1,099.27	144.42	8.611		
21,200.00	12,060.00	12,032.50	12,060.00	120.21	43.04	90.00	-9,426.79	-1,684.66	1,198.15	1,048.53	149.61	8.008		
21,300.00	12,060.00	12,032.50	12,060.00	121.54	43.04	90.00	-9,426.79	-1,684.66	1,159.46	1,004.81	154.65	7.497		
21,400.00	12,060.00	12,032.50	12,060.00	122.87	43.04	90.00	-9,426.79	-1,684.66	1,128.33	968.97	159.36	7.081		
21,500.00	12,060.00	12,032.50	12,060.00	124.20	43.04	90.00	-9,426.79	-1,684.66	1,105.40	941.86	163.54	6.759		
21,600.00	12,060.00	12,032.50	12,060.00	125.54	43.04	90.00	-9,426.79	-1,684.66	1,091.19	924.19	167.00	6.534		
21,700.00	12,060.00	12,032.50	12,060.00	126.87	43.04	90.00	-9,426.79	-1,684.66	1,086.04	916.45	169.59	6.404		
21,706.07	12,060.00	12,032.50	12,060.00	126.95	43.04	90.00	-9,426.79	-1,684.66	1,086.02	916.30	169.72	6.399	CC, ES	
21,800.00	12,060.00	12,032.50	12,060.00	128.20	43.04	90.00	-9,426.79	-1,684.66	1,090.08	918.86	171.22	6.367	SF	
21,900.00	12,060.00	12,032.50	12,060.00	129.54	43.04	90.00	-9,426.79	-1,684.66	1,103.20	931.34	171.86	6.419		
22,000.00	12,060.00	12,032.50	12,060.00	130.87	43.04	90.00	-9,426.79	-1,684.66	1,125.10	953.52	171.57	6.558		
22,100.00	12,060.00	12,032.50	12,060.00	132.21	43.04	90.00	-9,426.79	-1,684.66	1,155.26	984.80	170.46	6.777		
22,200.00	12,060.00	12,032.50	12,060.00	133.54	43.04	90.00	-9,426.79	-1,684.66	1,193.07	1,024.39	168.68	7.073		
22,259.99	12,060.00	12,032.50	12,060.00	134.34	43.04	90.00	-9,426.79	-1,684.66	1,219.13	1,051.77	167.36	7.285		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Mexico P Federal 001 - OH - OH											Offset Site Error:	0.00 usft
Survey Program: 1052-3_INC-Only											Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Offset Wellbore Centre		Distance			Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	
17,100.00	12,060.00	12,010.45	12,056.65	67.14	254.88	-89.87	-6,661.32	850.15	2,372.07	2,063.18	308.88	7.679
17,200.00	12,060.00	12,010.60	12,056.80	68.37	254.88	-89.88	-6,661.32	850.15	2,294.45	1,983.95	310.50	7.389
17,300.00	12,060.00	12,010.76	12,056.96	69.61	254.88	-89.88	-6,661.32	850.15	2,218.63	1,906.41	312.22	7.106
17,400.00	12,060.00	12,010.92	12,057.12	70.85	254.89	-89.89	-6,661.32	850.15	2,144.79	1,830.74	314.04	6.830
17,500.00	12,060.00	12,011.08	12,057.29	72.10	254.89	-89.89	-6,661.32	850.15	2,073.14	1,757.17	315.97	6.561
17,600.00	12,060.00	12,011.25	12,057.45	73.35	254.89	-89.90	-6,661.32	850.15	2,003.92	1,685.93	317.99	6.302
17,700.00	12,060.00	12,011.42	12,057.62	74.61	254.90	-89.91	-6,661.32	850.15	1,937.40	1,617.28	320.11	6.052
17,800.00	12,060.00	12,011.59	12,057.79	75.87	254.90	-89.91	-6,661.32	850.15	1,873.85	1,551.53	322.32	5.814
17,900.00	12,060.00	12,011.76	12,057.97	77.14	254.90	-89.92	-6,661.32	850.15	1,813.59	1,488.98	324.61	5.587
18,000.00	12,060.00	12,011.94	12,058.14	78.41	254.91	-89.93	-6,661.32	850.15	1,756.96	1,430.01	326.96	5.374
18,100.00	12,060.00	12,012.12	12,058.32	79.68	254.91	-89.93	-6,661.32	850.15	1,704.33	1,374.99	329.33	5.175
18,200.00	12,060.00	12,012.31	12,058.51	80.96	254.92	-89.94	-6,661.33	850.15	1,656.06	1,324.34	331.71	4.992
18,300.00	12,060.00	12,012.49	12,058.69	82.23	254.92	-89.95	-6,661.33	850.15	1,612.55	1,278.49	334.06	4.827
18,400.00	12,060.00	12,012.68	12,058.88	83.52	254.92	-89.96	-6,661.33	850.15	1,574.21	1,237.88	336.33	4.681
18,500.00	12,060.00	12,012.88	12,059.08	84.80	254.93	-89.96	-6,661.33	850.15	1,541.41	1,202.94	338.47	4.554
18,600.00	12,060.00	12,013.07	12,059.28	86.09	254.93	-89.97	-6,661.33	850.15	1,514.51	1,174.08	340.43	4.449
18,700.00	12,060.00	12,013.27	12,059.48	87.38	254.94	-89.98	-6,661.33	850.15	1,493.83	1,151.67	342.16	4.366
18,800.00	12,060.00	12,013.48	12,059.68	88.67	254.94	-89.99	-6,661.33	850.15	1,479.64	1,136.03	343.61	4.306
18,900.00	12,060.00	12,013.69	12,059.89	89.97	254.95	-90.00	-6,661.33	850.15	1,472.12	1,127.37	344.75	4.270
18,961.00	12,060.00	12,013.81	12,060.02	90.76	254.95	-90.00	-6,661.33	850.15	1,470.86	1,125.58	345.28	4.260 CC, ES
19,000.00	12,060.00	12,013.90	12,060.10	91.26	254.95	-90.00	-6,661.33	850.15	1,471.37	1,125.82	345.55	4.258 SF
19,100.00	12,060.00	12,014.11	12,060.32	92.56	254.96	-90.01	-6,661.33	850.15	1,477.41	1,131.42	345.99	4.270
19,200.00	12,060.00	12,014.33	12,060.54	93.86	254.96	-90.02	-6,661.33	850.15	1,490.15	1,144.07	346.08	4.306
19,300.00	12,060.00	12,014.56	12,060.76	95.17	254.97	-90.03	-6,661.33	850.15	1,509.42	1,163.58	345.84	4.365
19,400.00	12,060.00	12,014.79	12,060.99	96.47	254.97	-90.04	-6,661.33	850.15	1,534.97	1,189.68	345.29	4.445
19,500.00	12,060.00	12,015.02	12,061.22	97.78	254.98	-90.05	-6,661.33	850.15	1,566.51	1,222.03	344.48	4.547
19,600.00	12,060.00	12,015.26	12,061.46	99.09	254.98	-90.06	-6,661.33	850.15	1,603.67	1,260.22	343.44	4.669
19,700.00	12,060.00	12,015.50	12,061.70	100.40	254.99	-90.07	-6,661.33	850.15	1,646.07	1,303.83	342.23	4.810
19,800.00	12,060.00	12,015.75	12,061.95	101.71	254.99	-90.08	-6,661.33	850.15	1,693.32	1,352.43	340.89	4.967
19,900.00	12,060.00	12,016.00	12,062.20	103.02	255.00	-90.09	-6,661.33	850.15	1,745.03	1,405.58	339.46	5.141
20,000.00	12,060.00	12,016.26	12,062.46	104.34	255.00	-90.10	-6,661.33	850.15	1,800.82	1,462.85	337.97	5.328
20,100.00	12,060.00	12,016.52	12,062.72	105.65	255.01	-90.11	-6,661.33	850.15	1,860.31	1,523.86	336.45	5.529
20,200.00	12,060.00	12,016.79	12,062.99	106.97	255.02	-90.12	-6,661.34	850.15	1,923.16	1,588.23	334.93	5.742
20,300.00	12,060.00	12,017.06	12,063.26	108.29	255.02	-90.13	-6,661.34	850.15	1,989.06	1,655.62	333.44	5.965
20,400.00	12,060.00	12,017.34	12,063.54	109.61	255.03	-90.14	-6,661.34	850.15	2,057.70	1,725.73	331.97	6.198
20,500.00	12,060.00	12,017.63	12,063.83	110.93	255.03	-90.15	-6,661.34	850.15	2,128.84	1,798.28	330.55	6.440
20,600.00	12,060.00	12,017.92	12,064.12	112.26	255.04	-90.16	-6,661.34	850.15	2,202.21	1,873.03	329.18	6.690
20,700.00	12,060.00	12,018.22	12,064.42	113.58	255.05	-90.17	-6,661.34	850.15	2,277.62	1,949.74	327.88	6.947
20,800.00	12,060.00	12,018.53	12,064.73	114.90	255.05	-90.18	-6,661.34	850.15	2,354.85	2,028.22	326.63	7.210

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Fed Com 111H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 152-3_MWD+HRGM											Rule Assigned:		Offset Well Error:	0.00 usft
Measured Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Depth (usft)	Vertical Depth (usft)	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	0.00	160.00	0.00	160.00	160.00				
100.00	100.00	99.72	98.72	1.51	0.15	-6.94	160.40	0.03	159.68	158.02	1.66	96.084		
200.00	199.97	199.07	198.06	1.66	0.40	-4.92	161.50	0.17	158.65	156.60	2.06	77.111		
300.00	299.93	299.17	298.16	2.21	0.75	2.67	162.67	0.69	156.87	153.91	2.96	53.028		
400.00	399.82	399.17	398.14	2.55	1.11	21.59	163.77	1.42	153.52	149.86	3.66	41.968		
500.00	499.65	499.06	498.03	2.84	1.47	28.03	164.83	2.25	149.34	145.04	4.30	34.701		
600.00	599.45	599.99	598.95	3.18	1.83	45.83	165.57	3.06	144.94	139.97	4.98	29.131		
700.00	698.87	701.03	699.99	3.75	2.17	60.68	165.32	3.26	138.68	132.96	5.72	24.265		
800.00	798.06	799.66	798.62	3.97	2.50	67.09	164.73	3.09	132.45	126.21	6.24	21.227		
900.00	897.41	898.72	897.67	4.19	2.84	72.87	164.55	2.74	128.26	121.49	6.77	18.948		
1,000.00	996.75	998.24	997.19	4.43	3.18	79.33	164.29	2.32	125.11	117.81	7.30	17.143		
1,100.00	1,095.77	1,096.68	1,095.63	4.71	3.52	85.61	164.44	1.96	123.30	115.44	7.86	15.684		
1,200.00	1,194.75	1,196.48	1,195.44	5.15	3.87	91.91	164.57	1.60	122.91	114.26	8.66	14.200		
1,240.67	1,235.01	1,237.51	1,236.47	5.26	4.02	94.84	164.38	1.25	122.90	113.98	8.92	13.784		
1,300.00	1,293.76	1,297.11	1,296.05	5.43	4.22	99.06	163.81	0.47	122.93	113.63	9.30	13.223		
1,400.00	1,392.81	1,397.93	1,396.85	5.62	4.58	105.27	162.23	-1.43	123.46	113.63	9.83	12.557		
1,500.00	1,491.86	1,499.17	1,497.98	5.81	4.93	111.48	160.30	-5.38	123.54	113.16	10.38	11.905		
1,547.30	1,538.72	1,546.75	1,545.49	5.90	5.10	114.10	159.29	-7.74	123.52	112.89	10.63	11.615		
1,600.00	1,590.95	1,598.31	1,596.98	6.00	5.28	116.76	158.49	-10.41	123.84	112.92	10.92	11.338		
1,700.00	1,690.07	1,696.99	1,695.53	6.19	5.63	120.53	158.26	-15.42	125.76	114.29	11.47	10.963		
1,800.00	1,789.13	1,797.35	1,795.75	6.38	5.99	124.86	158.72	-20.76	128.56	116.53	12.03	10.688		
1,900.00	1,888.18	1,898.34	1,896.51	6.57	6.35	128.07	159.55	-27.42	131.00	118.42	12.59	10.409		
2,000.00	1,987.20	1,999.44	1,997.28	6.76	6.72	131.98	161.01	-35.39	133.05	119.90	13.14	10.122		
2,100.00	2,086.18	2,099.79	2,097.19	6.96	7.08	133.94	163.58	-44.50	134.84	121.14	13.70	9.841		
2,200.00	2,185.14	2,202.31	2,199.11	7.15	7.46	136.11	166.99	-55.03	135.95	121.69	14.26	9.535		
2,300.00	2,284.09	2,302.32	2,298.34	7.35	7.83	138.12	171.19	-66.77	136.10	121.28	14.81	9.187		
2,400.00	2,382.99	2,402.67	2,397.81	7.54	8.20	137.95	176.60	-78.86	136.44	121.07	15.37	8.877		
2,500.00	2,481.85	2,504.26	2,498.32	7.74	8.59	137.06	183.17	-92.07	136.06	120.14	15.93	8.543		
2,600.00	2,580.66	2,605.52	2,598.25	7.94	8.97	135.43	190.61	-106.61	134.43	117.94	16.49	8.154		
2,700.00	2,679.45	2,704.32	2,695.72	8.13	9.35	133.34	198.49	-120.73	132.72	115.67	17.06	7.782		
2,800.00	2,778.25	2,804.98	2,795.02	8.33	9.75	130.10	206.70	-135.02	130.46	112.84	17.62	7.403		
2,900.00	2,877.08	2,905.48	2,894.03	8.53	10.14	127.01	215.14	-150.06	126.58	108.39	18.19	6.959		
3,000.00	2,975.87	3,004.93	2,992.06	8.73	10.53	124.89	223.59	-164.52	122.57	103.81	18.76	6.533		
3,100.00	3,074.61	3,106.54	3,092.15	8.93	10.94	124.27	231.49	-180.13	117.32	98.00	19.32	6.071		
3,200.00	3,173.35	3,207.40	3,191.38	9.12	11.35	124.48	238.43	-196.76	110.50	90.61	19.89	5.556		
3,300.00	3,272.11	3,308.35	3,290.58	9.32	11.76	129.63	244.83	-214.41	102.61	82.17	20.44	5.019		
3,400.00	3,370.95	3,408.13	3,388.39	9.52	12.18	132.71	250.93	-233.13	93.92	72.91	21.01	4.471		
3,500.00	3,469.86	3,507.52	3,485.95	9.76	12.59	150.17	257.04	-251.11	86.60	65.00	21.60	4.009		
3,600.00	3,568.72	3,608.01	3,584.53	9.97	13.02	153.35	262.25	-269.92	80.92	58.76	22.16	3.651		
3,700.00	3,667.55	3,707.50	3,682.05	10.18	13.44	153.04	266.82	-289.09	74.78	52.03	22.74	3.288		
3,800.00	3,766.44	3,806.48	3,779.23	10.38	13.85	164.13	271.49	-307.27	69.51	46.18	23.34	2.979		
3,900.00	3,865.32	3,905.72	3,876.87	10.63	14.27	179.90	276.39	-324.36	66.28	42.37	23.91	2.772		
4,000.00	3,964.02	4,005.54	3,975.19	10.84	14.68	177.17	281.31	-340.82	65.18	40.71	24.48	2.663		
4,042.66	4,006.07	4,048.13	4,017.15	10.93	14.86	177.24	283.36	-347.84	65.05	40.33	24.72	2.632		
4,100.00	4,062.53	4,105.26	4,073.45	11.05	15.10	177.30	286.09	-357.10	65.34	40.30	25.04	2.609		
4,200.00	4,160.91	4,204.47	4,171.35	11.26	15.51	176.74	290.65	-372.54	67.06	41.44	25.62	2.617		
4,300.00	4,259.37	4,303.38	4,269.16	11.48	15.91	177.87	294.61	-386.68	69.74	43.55	26.19	2.663		
4,400.00	4,357.97	4,403.45	4,368.25	11.69	16.31	176.38	297.88	-400.31	72.46	45.71	26.76	2.708		
4,500.00	4,456.67	4,503.38	4,467.17	11.93	16.72	167.67	300.58	-414.26	74.15	46.81	27.34	2.713		
4,600.00	4,555.52	4,602.81	4,565.62	12.14	17.12	164.58	302.96	-427.95	74.95	47.01	27.94	2.683		
4,700.00	4,654.60	4,704.95	4,666.58	12.33	17.53	164.55	306.31	-443.06	73.08	44.53	28.55	2.560		
4,800.00	4,753.79	4,806.45	4,766.40	12.52	17.96	165.44	312.04	-460.46	67.39	38.22	29.17	2.310		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Fed Com 111H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 152-3_MWD+HRGM													Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Offset Wellbore Centre		Distance				Rule Assigned:	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.00	4,853.10	4,904.79	4,863.14	12.70	18.38	170.47	318.47	-476.90	61.20	31.33	29.87	2.049		
5,000.00	4,952.47	5,003.53	4,960.64	12.88	18.79	-179.23	324.52	-491.26	57.08	26.52	30.57	1.868	Collision Risk Procedures Req.	
5,100.00	5,051.72	5,103.79	5,059.72	13.07	19.20	-167.15	330.14	-505.56	55.03	23.78	31.25	1.761	Collision Risk Procedures Req.	
5,200.00	5,150.85	5,204.67	5,158.99	13.26	19.63	-158.17	335.80	-522.53	52.04	20.07	31.97	1.628	Collision Risk Procedures Req.	
5,300.00	5,250.23	5,304.18	5,256.85	13.45	20.05	-151.13	341.75	-539.59	47.08	14.33	32.75	1.438	Collision Risk Procedures Req.	
5,398.61	5,348.04	5,402.21	5,353.45	13.64	20.47	-148.26	347.41	-555.24	45.00	11.49	33.51	1.343	Collision Risk Procedures Req.	
5,400.00	5,349.42	5,403.59	5,354.81	13.64	20.47	-148.20	347.49	-555.45	44.91	11.39	33.52	1.340	Collision Risk Procedures Req., CC, ES	
5,500.00	5,448.36	5,503.17	5,453.17	13.93	20.88	-145.40	352.93	-570.07	45.84	11.53	34.31	1.336	Collision Risk Procedures Req., SF	
5,600.00	5,547.22	5,602.84	5,551.69	14.18	21.29	-143.24	357.76	-584.34	48.27	13.23	35.04	1.377	Collision Risk Procedures Req.	
5,700.00	5,646.05	5,702.48	5,650.21	14.39	21.70	-144.10	362.07	-598.65	51.77	16.04	35.74	1.449	Collision Risk Procedures Req.	
5,800.00	5,744.82	5,802.17	5,748.81	14.60	22.11	-144.41	365.98	-612.82	57.20	20.77	36.43	1.570	Collision Risk Procedures Req.	
5,900.00	5,843.58	5,901.46	5,847.08	14.80	22.52	-141.38	369.72	-626.53	63.47	26.37	37.10	1.711	Collision Risk Procedures Req.	
6,000.00	5,942.43	6,001.50	5,946.18	15.00	22.92	-137.37	373.04	-639.80	69.80	32.05	37.75	1.849	Collision Risk Procedures Req.	
6,100.00	6,041.27	6,102.28	6,045.75	15.21	23.34	-132.86	377.29	-654.76	74.98	36.56	38.41	1.952	Collision Risk Procedures Req.	
6,200.00	6,140.02	6,201.95	6,143.94	15.42	23.76	-129.88	382.15	-671.14	79.78	40.69	39.08	2.041		
6,300.00	6,238.81	6,301.08	6,241.72	15.62	24.17	-124.85	386.37	-686.87	85.13	45.40	39.73	2.143		
6,400.00	6,337.75	6,400.12	6,339.66	15.82	24.58	-123.13	389.70	-701.20	90.47	50.13	40.35	2.242		
6,500.00	6,436.81	6,501.04	6,439.51	16.02	24.99	-119.18	393.11	-715.48	95.27	54.30	40.97	2.325		
6,600.00	6,535.79	6,601.22	6,538.40	16.22	25.41	-116.27	397.46	-730.83	99.14	57.54	41.60	2.383		
6,700.00	6,634.61	6,701.06	6,636.92	16.42	25.83	-112.28	401.90	-746.41	103.02	60.79	42.23	2.440		
6,800.00	6,733.38	6,801.62	6,735.96	16.63	26.26	-110.30	406.84	-763.09	106.47	63.60	42.87	2.484		
6,900.00	6,832.33	6,901.55	6,833.96	16.83	26.70	-101.06	412.48	-781.82	108.29	64.79	43.50	2.489		
7,000.00	6,931.52	7,000.97	6,931.25	17.02	27.14	-96.84	418.19	-801.43	109.64	65.55	44.09	2.487		
7,100.00	7,031.09	7,100.15	7,028.42	17.21	27.58	-94.51	423.60	-820.62	111.68	67.07	44.60	2.504		
7,200.00	7,131.03	7,198.39	7,124.91	17.42	28.01	-132.77	428.12	-838.50	116.28	71.33	44.95	2.587		
7,300.00	7,231.02	7,297.12	7,222.12	17.52	28.43	-142.25	431.82	-855.37	123.58	78.42	45.16	2.737		
7,400.00	7,331.02	7,396.97	7,320.68	17.62	28.85	-133.01	435.33	-870.96	131.84	86.46	45.37	2.906		
7,500.00	7,431.01	7,496.15	7,418.69	17.73	29.26	-118.32	438.81	-885.74	140.90	95.30	45.60	3.090		
7,600.00	7,531.00	7,595.76	7,517.23	17.84	29.67	-100.92	441.85	-899.93	150.28	104.42	45.86	3.277		
7,700.00	7,631.00	7,696.19	7,616.78	17.95	30.07	-80.32	444.38	-912.92	159.38	113.22	46.16	3.453		
7,800.00	7,730.99	7,796.28	7,716.15	18.05	30.47	-74.76	446.38	-924.78	167.92	121.42	46.50	3.611		
7,900.00	7,830.99	7,896.43	7,815.62	18.15	30.86	-41.35	448.41	-936.24	176.33	129.48	46.85	3.764		
8,000.00	7,930.98	7,998.71	7,917.35	18.22	31.25	0.04	450.04	-946.77	183.75	136.53	47.21	3.892		
8,100.00	8,030.98	8,100.25	8,018.57	18.24	31.62	33.31	450.61	-954.75	189.67	142.10	47.57	3.987		
8,200.00	8,130.97	8,202.12	8,120.19	18.25	31.98	17.38	450.44	-961.66	194.56	146.62	47.94	4.059		
8,300.00	8,230.95	8,304.80	8,222.74	18.57	32.34	-163.12	450.10	-966.96	199.79	151.47	48.33	4.134		
8,400.00	8,330.88	8,405.93	8,323.75	18.64	32.70	-161.59	451.40	-971.68	207.00	158.35	48.66	4.254		
8,500.00	8,430.83	8,507.35	8,425.09	18.68	33.05	-166.06	452.38	-975.54	213.24	164.26	48.98	4.353		
8,600.00	8,530.80	8,610.06	8,527.76	18.71	33.39	-175.22	453.12	-978.18	217.89	168.59	49.30	4.420		
8,700.00	8,630.77	8,710.42	8,628.11	18.73	33.72	173.93	453.33	-979.70	221.32	171.71	49.62	4.461		
8,800.00	8,730.76	8,812.12	8,729.81	18.74	34.05	173.88	453.05	-980.39	223.57	173.64	49.93	4.478		
8,900.00	8,830.76	8,910.56	8,828.23	18.74	34.37	143.70	453.81	-981.61	225.33	175.08	50.25	4.484		
9,000.00	8,930.75	9,011.24	8,928.88	18.72	34.70	134.89	455.43	-983.25	226.97	176.42	50.55	4.490		
9,100.00	9,030.74	9,110.59	9,028.22	18.70	35.04	106.93	456.66	-984.91	228.86	177.99	50.87	4.499		
9,200.00	9,130.74	9,211.94	9,129.56	18.68	35.37	39.91	457.68	-986.07	228.96	177.75	51.21	4.471		
9,300.00	9,230.72	9,311.91	9,229.52	18.68	35.70	38.72	458.00	-986.80	228.05	176.47	51.58	4.421		
9,400.00	9,330.70	9,412.86	9,330.47	18.68	36.03	49.16	458.29	-987.28	226.90	174.96	51.94	4.369		
9,500.00	9,430.67	9,513.40	9,431.00	18.67	36.34	50.25	458.17	-987.10	225.44	173.16	52.28	4.312		
9,600.00	9,530.64	9,611.88	9,529.49	18.66	36.64	41.31	457.04	-986.77	223.77	171.12	52.65	4.250		
9,700.00	9,630.59	9,710.37	9,627.95	18.67	36.94	32.69	454.98	-987.07	222.29	169.26	53.04	4.191		
9,800.00	9,730.54	9,810.33	9,727.86	18.69	37.25	18.62	452.00	-987.32	220.62	167.18	53.44	4.128		
9,900.00	9,830.48	9,909.81	9,827.29	18.74	37.55	8.52	448.61	-987.41	218.51	164.64	53.87	4.057		

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



Legacy Directional Drilling
Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Fed Com 111H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 152-3_MWD+HRGM													Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,000.00	9,930.42	10,008.25	9,925.63	18.80	37.85	8.48	444.37	-988.03	217.08	162.77	54.31	3.997		
10,100.00	10,030.33	10,108.39	10,024.73	18.85	38.13	9.56	431.07	-984.46	214.78	159.96	54.81	3.918		
10,154.25	10,084.50	10,158.41	10,073.11	18.88	38.26	2.81	419.02	-980.57	214.18	159.03	55.15	3.884		
10,200.00	10,130.19	10,202.45	10,114.73	18.91	38.35	-3.22	405.45	-975.92	214.61	159.18	55.44	3.871		
10,300.00	10,229.97	10,295.37	10,199.14	18.99	38.53	-12.71	370.20	-960.00	218.06	162.03	56.03	3.892		
10,400.00	10,329.68	10,375.14	10,267.55	19.05	38.65	-8.76	333.91	-941.01	230.85	174.79	56.06	4.118		
10,500.00	10,429.39	10,437.66	10,318.11	19.09	38.73	-0.39	300.72	-925.22	258.88	203.82	55.06	4.702		
10,600.00	10,529.12	10,492.16	10,359.97	19.11	38.79	-8.87	268.09	-912.94	302.01	248.42	53.59	5.636		
10,700.00	10,628.94	10,535.00	10,390.60	19.14	38.84	-18.67	239.48	-904.13	358.62	306.63	51.99	6.898		
10,800.00	10,728.88	10,557.00	10,405.35	19.17	38.86	-24.13	223.74	-899.81	426.81	376.60	50.21	8.501		
10,900.00	10,828.84	10,607.51	10,436.30	19.23	38.88	-54.34	185.25	-889.33	500.84	451.06	49.78	10.060		
11,000.00	10,928.83	10,653.00	10,460.68	19.32	38.90	-97.78	148.29	-878.97	581.54	532.07	49.47	11.755		
11,100.00	11,028.81	10,653.00	10,460.68	19.44	38.90	-116.16	148.29	-878.97	664.99	616.57	48.42	13.735		
11,200.00	11,128.80	10,653.00	10,460.68	19.56	38.90	-121.19	148.29	-878.97	752.62	704.91	47.71	15.773		
11,300.00	11,228.77	10,692.26	10,478.90	19.68	38.90	-111.70	114.67	-870.13	840.57	792.70	47.86	17.562		
11,400.00	11,328.75	10,706.65	10,484.90	19.79	38.90	-79.81	101.94	-867.13	930.66	882.95	47.71	19.506		
11,500.00	11,428.49	10,749.00	10,500.36	20.94	38.90	1.23	63.36	-859.06	1,020.91	972.71	48.20	21.183		
11,600.00	11,525.17	10,749.00	10,500.36	21.69	38.90	4.89	63.36	-859.06	1,100.19	1,052.23	47.96	22.941		
11,700.00	11,617.80	10,749.00	10,500.36	21.72	38.90	5.28	63.36	-859.06	1,175.03	1,127.39	47.63	24.667		
11,800.00	11,705.23	10,749.00	10,500.36	21.90	38.90	6.09	63.36	-859.06	1,245.76	1,198.23	47.54	26.206		
11,900.00	11,783.36	10,803.86	10,515.59	22.16	38.89	5.41	11.30	-851.07	1,304.73	1,256.66	48.06	27.145		
12,000.00	11,851.85	10,844.00	10,523.31	22.38	38.88	3.28	-27.90	-847.38	1,357.09	1,308.91	48.18	28.167		
12,100.00	11,909.84	10,844.00	10,523.31	22.67	38.88	3.61	-27.90	-847.38	1,400.87	1,352.29	48.57	28.839		
12,200.00	11,951.37	10,888.91	10,529.07	22.90	38.87	3.99	-72.38	-845.18	1,431.51	1,382.39	49.12	29.142		
12,300.00	11,975.92	10,940.00	10,532.62	23.11	38.87	4.15	-123.33	-844.86	1,449.56	1,399.64	49.92	29.037		
12,400.00	11,985.05	10,981.00	10,533.96	23.37	38.87	4.36	-164.30	-845.38	1,455.58	1,405.02	50.56	28.789		
12,500.00	11,987.32	11,055.95	10,535.54	23.67	38.91	4.87	-239.24	-845.89	1,457.03	1,406.08	50.95	28.596		
12,600.00	11,990.72	11,144.96	10,536.50	24.08	39.02	5.35	-328.24	-846.19	1,460.59	1,409.23	51.35	28.442		
12,700.00	11,996.12	11,229.12	10,536.80	24.48	39.23	5.65	-412.40	-846.23	1,466.49	1,414.72	51.77	28.328		
12,800.00	12,004.27	11,306.93	10,536.05	24.94	39.49	5.88	-490.21	-846.09	1,476.35	1,424.15	52.20	28.283		
12,900.00	12,012.70	11,391.00	10,533.92	25.44	39.84	6.07	-574.24	-845.92	1,487.81	1,435.15	52.66	28.254		
13,000.00	12,021.18	11,503.26	10,531.20	26.00	40.36	6.21	-686.47	-845.63	1,499.05	1,445.90	53.16	28.200		
13,100.00	12,030.65	11,597.72	10,529.54	26.62	40.86	6.26	-780.92	-845.05	1,510.41	1,456.76	53.66	28.150		
13,200.00	12,040.26	11,688.30	10,526.87	27.28	41.37	6.24	-871.45	-844.37	1,522.90	1,468.73	54.17	28.114		
13,300.00	12,048.54	11,811.14	10,524.30	27.99	42.12	6.18	-994.26	-843.88	1,533.20	1,478.47	54.72	28.017		
13,400.00	12,055.24	11,902.16	10,523.13	28.75	42.71	6.13	-1,085.28	-843.59	1,541.12	1,485.82	55.29	27.871		
13,500.00	12,057.83	12,015.95	10,521.03	29.55	43.49	6.03	-1,199.04	-842.76	1,545.39	1,489.49	55.90	27.646		
13,600.00	12,059.41	12,117.40	10,520.18	30.39	44.22	5.97	-1,300.48	-841.71	1,547.69	1,491.18	56.51	27.387		
13,700.00	12,058.40	12,247.26	10,520.33	31.26	45.22	5.96	-1,430.33	-840.47	1,546.52	1,489.34	57.18	27.044		
13,800.00	12,058.93	12,345.31	10,521.45	32.17	46.00	5.94	-1,528.37	-839.76	1,545.87	1,488.03	57.84	26.725		
13,898.45	12,058.70	12,427.16	10,521.74	33.09	46.67	5.91	-1,610.22	-838.94	1,545.17	1,486.68	58.49	26.417		
13,900.00	12,058.02	12,428.45	10,521.73	33.10	46.68	5.89	-1,611.51	-838.93	1,544.46	1,485.96	58.50	26.402		
14,000.00	12,058.21	12,514.98	10,521.06	35.46	47.42	5.87	-1,698.03	-837.88	1,545.44	1,486.40	59.04	26.175		
14,100.00	12,058.69	12,674.74	10,523.14	36.06	48.83	6.33	-1,857.76	-836.82	1,545.26	1,485.30	59.96	25.769		
14,200.00	12,059.54	12,779.35	10,526.48	36.71	49.80	6.57	-1,962.32	-836.44	1,543.73	1,483.10	60.63	25.460		
14,300.00	12,059.96	12,868.84	10,529.05	37.42	50.64	6.64	-2,051.77	-835.60	1,541.65	1,480.44	61.20	25.189		
14,400.00	12,060.00	12,957.28	10,530.83	38.17	51.49	6.61	-2,140.18	-834.25	1,539.64	1,477.89	61.74	24.936		
14,500.00	12,060.00	13,043.74	10,531.90	38.97	52.34	6.59	-2,226.62	-832.91	1,538.33	1,476.04	62.29	24.694		
14,600.00	12,060.00	13,133.61	10,532.16	39.79	53.24	6.55	-2,316.47	-831.00	1,537.89	1,475.01	62.87	24.460		
14,644.00	12,060.00	13,174.86	10,532.10	40.17	53.65	6.52	-2,357.71	-829.87	1,537.84	1,474.71	63.14	24.358		
14,700.00	12,060.00	13,226.45	10,531.89	40.66	54.18	6.48	-2,409.26	-828.25	1,537.92	1,474.45	63.47	24.231		
14,800.00	12,060.00	13,326.38	10,531.18	41.55	55.21	6.38	-2,509.13	-824.87	1,538.34	1,474.24	64.10	23.997		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Fed Com 111H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 152-3_MWD+HRGM											Rule Assigned:		Offset Well Error:	0.00 usft
Reference				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)				
14,900.00	12,060.00	13,433.32	10,530.99	42.47	56.33	6.33	-2,616.05	-822.72	1,538.39	1,473.59	64.80	23.740		
15,000.00	12,060.00	13,579.52	10,533.01	43.42	57.90	6.33	-2,762.22	-821.43	1,537.13	1,471.43	65.70	23.397		
15,100.00	12,060.00	13,669.90	10,535.48	44.40	58.89	6.37	-2,852.57	-821.44	1,534.49	1,468.11	66.38	23.116		
15,200.00	12,060.00	13,753.00	10,537.29	45.40	59.81	6.40	-2,935.65	-821.31	1,532.40	1,465.36	67.05	22.855		
15,300.00	12,060.00	13,834.43	10,538.12	46.42	60.71	6.42	-3,017.07	-821.06	1,531.48	1,463.76	67.72	22.615		
15,318.00	12,060.00	13,849.00	10,538.14	46.60	60.88	6.42	-3,031.65	-821.03	1,531.46	1,463.62	67.84	22.573		
15,400.00	12,060.00	13,920.64	10,537.92	47.46	61.68	6.43	-3,103.29	-820.72	1,531.75	1,463.32	68.43	22.386		
15,500.00	12,060.00	14,006.57	10,536.94	48.51	62.66	6.42	-3,189.20	-819.94	1,532.86	1,463.73	69.14	22.172		
15,600.00	12,060.00	14,129.94	10,535.43	49.59	64.07	6.41	-3,312.56	-818.91	1,534.16	1,464.17	70.00	21.918		
15,700.00	12,060.00	14,292.25	10,539.02	50.68	65.97	6.46	-3,474.82	-818.60	1,531.93	1,460.89	71.04	21.565		
15,800.00	12,060.00	14,388.25	10,543.14	51.79	67.10	6.49	-3,570.73	-818.03	1,527.70	1,455.87	71.83	21.267		
15,900.00	12,060.00	14,470.41	10,545.73	52.91	68.08	6.49	-3,652.84	-817.22	1,524.55	1,451.97	72.59	21.003		
16,000.00	12,060.00	14,552.35	10,547.33	54.04	69.06	6.49	-3,734.76	-816.20	1,522.56	1,449.21	73.35	20.758		
16,100.00	12,060.00	14,632.13	10,547.90	55.19	70.02	6.47	-3,814.52	-815.10	1,521.80	1,447.69	74.11	20.535		
16,104.45	12,060.00	14,635.49	10,547.90	55.24	70.06	6.47	-3,817.89	-815.05	1,521.80	1,447.65	74.14	20.526		
16,200.00	12,060.00	14,708.00	10,547.31	56.34	70.94	6.46	-3,890.39	-814.22	1,522.53	1,447.67	74.87	20.336		
16,300.00	12,060.00	14,813.61	10,546.01	57.51	72.22	6.47	-3,995.99	-813.84	1,523.80	1,448.05	75.75	20.116		
16,400.00	12,060.00	14,904.89	10,544.80	58.68	73.34	6.50	-4,087.26	-814.07	1,525.24	1,448.64	76.60	19.911		
16,500.00	12,060.00	15,005.92	10,542.93	59.87	74.58	6.54	-4,188.27	-814.57	1,527.23	1,449.73	77.50	19.706		
16,600.00	12,060.00	15,165.23	10,544.45	61.06	76.56	6.67	-4,347.55	-816.57	1,526.26	1,447.64	78.62	19.414		
16,700.00	12,060.00	15,255.29	10,546.49	62.26	77.68	6.73	-4,437.59	-817.28	1,524.22	1,444.70	79.52	19.168		
16,800.00	12,060.00	15,339.25	10,547.51	63.47	78.73	6.78	-4,521.53	-817.75	1,523.16	1,442.76	80.40	18.944		
16,900.00	12,060.00	15,509.65	10,552.17	64.69	80.89	6.78	-4,691.83	-815.88	1,520.47	1,438.99	81.48	18.661		
17,000.00	12,060.00	15,604.47	10,556.81	65.91	82.10	6.72	-4,786.48	-812.85	1,515.34	1,432.98	82.35	18.400		
17,100.00	12,060.00	15,688.59	10,560.19	67.14	83.18	6.64	-4,870.48	-809.78	1,511.02	1,427.82	83.21	18.160		
17,200.00	12,060.00	15,771.21	10,562.55	68.37	84.24	6.56	-4,953.01	-806.69	1,507.84	1,423.78	84.06	17.937		
17,300.00	12,060.00	15,850.00	10,563.95	69.61	85.25	6.47	-5,031.72	-803.54	1,505.76	1,420.85	84.91	17.733		
17,400.00	12,060.00	15,946.00	10,564.65	70.85	86.49	6.33	-5,127.60	-798.86	1,504.58	1,418.81	85.77	17.542		
17,500.00	12,060.00	16,037.57	10,564.69	72.10	87.68	6.17	-5,219.04	-793.90	1,504.02	1,417.41	86.61	17.365		
17,600.00	12,060.00	16,146.50	10,565.13	73.35	89.09	6.05	-5,327.88	-789.74	1,503.29	1,415.77	87.52	17.176		
17,699.96	12,060.00	16,232.00	10,565.42	74.61	90.21	6.00	-5,413.36	-787.74	1,502.80	1,414.37	88.43	16.994		
17,700.00	12,060.00	16,232.00	10,565.42	74.61	90.21	6.00	-5,413.36	-787.74	1,502.80	1,414.37	88.43	16.994		
17,800.00	12,060.00	16,319.41	10,564.95	75.87	91.35	5.96	-5,500.75	-786.00	1,503.21	1,413.86	89.35	16.824		
17,900.00	12,060.00	16,400.72	10,563.69	77.14	92.41	5.92	-5,582.03	-784.54	1,504.66	1,414.39	90.26	16.670		
18,000.00	12,060.00	16,501.45	10,561.39	78.41	93.73	5.90	-5,682.73	-783.46	1,506.90	1,415.66	91.24	16.516		
18,100.00	12,060.00	16,591.79	10,559.50	79.68	94.91	5.95	-5,773.04	-784.15	1,509.16	1,416.92	92.23	16.363		
18,200.00	12,060.00	16,712.00	10,557.05	80.96	96.49	6.03	-5,893.22	-785.67	1,511.44	1,418.12	93.33	16.195		
18,300.00	12,060.00	16,799.31	10,555.73	82.23	97.64	6.11	-5,980.51	-787.23	1,513.22	1,418.87	94.35	16.038		
18,400.00	12,060.00	16,943.20	10,554.75	83.52	99.54	6.26	-6,124.36	-790.06	1,514.31	1,418.77	95.54	15.850		
18,500.00	12,060.00	17,056.20	10,556.96	84.80	101.04	6.35	-6,237.33	-791.45	1,512.50	1,415.87	96.64	15.652		
18,600.00	12,060.00	17,138.86	10,558.03	86.09	102.14	6.42	-6,319.98	-792.59	1,511.47	1,413.79	97.69	15.473		
18,700.00	12,060.00	17,251.97	10,558.62	87.38	103.64	6.51	-6,433.08	-793.86	1,511.25	1,412.46	98.79	15.298		
18,800.00	12,060.00	17,364.28	10,561.12	88.67	105.14	6.60	-6,545.34	-795.23	1,509.23	1,409.33	99.90	15.107		
18,900.00	12,060.00	17,438.82	10,562.34	89.97	106.14	6.66	-6,619.87	-795.90	1,507.84	1,406.88	100.96	14.935		
18,921.24	12,060.00	17,453.70	10,562.40	90.24	106.34	6.67	-6,634.76	-796.00	1,507.79	1,406.61	101.18	14.902		
19,000.00	12,060.00	17,533.18	10,562.29	91.26	107.40	6.70	-6,714.23	-796.32	1,508.01	1,405.98	102.03	14.780		
19,054.43	12,060.00	17,586.90	10,562.46	91.97	108.12	6.72	-6,767.95	-796.26	1,507.88	1,405.27	102.61	14.695		
19,100.00	12,060.00	17,619.76	10,562.35	92.56	108.56	6.72	-6,800.81	-796.21	1,508.08	1,404.99	103.08	14.630		
19,200.00	12,060.00	17,697.29	10,561.06	93.86	109.61	6.74	-6,878.32	-796.15	1,509.78	1,405.66	104.12	14.501		
19,300.00	12,060.00	17,783.62	10,558.74	95.17	110.77	6.75	-6,964.62	-796.11	1,512.54	1,407.37	105.17	14.382		
19,400.00	12,060.00	17,868.94	10,555.58	96.47	111.92	6.76	-7,049.89	-796.06	1,516.30	1,410.09	106.21	14.277		
19,500.00	12,060.00	17,970.96	10,551.23	97.78	113.30	6.77	-7,151.81	-795.89	1,520.61	1,413.33	107.29	14.174		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Fed Com 111H - OH - OH														Offset Site Error:	0.00 usft				
Survey Program: 152-3_MWD+HRGM														Offset Well Error:	0.00 usft				
Reference				Offset				Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
19,600.00	12,060.00	18,092.50	10,547.57	99.09	114.94	6.76	-7,273.29	-795.05	1,523.54	1,415.15	108.39	14.056							
19,700.00	12,060.00	18,209.63	10,544.70	100.40	116.53	6.74	-7,390.38	-793.87	1,526.00	1,416.53	109.47	13.940							
19,800.00	12,060.00	18,316.90	10,543.54	101.71	117.99	6.73	-7,497.64	-792.94	1,527.05	1,416.50	110.55	13.813							
19,900.00	12,060.00	18,415.14	10,542.37	103.02	119.32	6.69	-7,595.86	-791.37	1,528.15	1,416.54	111.61	13.692							
20,000.00	12,060.00	18,499.95	10,540.89	104.34	120.48	6.64	-7,680.64	-789.56	1,529.74	1,417.10	112.63	13.581							
20,100.00	12,060.00	18,659.01	10,540.03	105.65	122.66	6.53	-7,839.63	-785.43	1,530.13	1,416.46	113.67	13.461							
20,200.00	12,060.00	18,756.63	10,541.61	106.97	123.99	6.44	-7,937.17	-781.82	1,528.21	1,413.53	114.68	13.326							
20,300.00	12,060.00	18,837.34	10,542.08	108.29	125.10	6.35	-8,017.83	-778.89	1,527.30	1,411.61	115.69	13.201							
20,325.07	12,060.00	18,858.02	10,542.05	108.62	125.38	6.33	-8,038.49	-778.18	1,527.27	1,411.32	115.95	13.172							
20,400.00	12,060.00	18,919.14	10,541.61	109.61	126.22	6.27	-8,099.57	-776.13	1,527.59	1,410.88	116.71	13.089							
20,500.00	12,060.00	19,003.00	10,539.94	110.93	127.38	6.18	-8,183.36	-773.09	1,529.23	1,411.52	117.71	12.992							
20,600.00	12,060.00	19,078.19	10,537.45	112.26	128.41	6.09	-8,258.46	-770.53	1,532.18	1,413.49	118.70	12.908							
20,700.00	12,060.00	19,220.45	10,534.44	113.58	130.36	6.04	-8,400.66	-768.27	1,534.13	1,414.32	119.81	12.804							
20,800.00	12,060.00	19,304.81	10,533.15	114.90	131.52	6.07	-8,485.00	-768.53	1,535.73	1,414.79	120.93	12.699							
20,900.00	12,060.00	19,439.82	10,532.91	116.23	133.37	6.15	-8,620.01	-769.50	1,535.93	1,413.79	122.13	12.576							
21,000.00	12,060.00	19,535.89	10,533.49	117.56	134.69	6.21	-8,716.08	-770.28	1,535.51	1,412.20	123.30	12.453							
21,027.40	12,060.00	19,560.60	10,533.57	117.92	135.03	6.22	-8,740.78	-770.56	1,535.48	1,411.86	123.63	12.420							
21,100.00	12,060.00	19,620.41	10,533.49	118.88	135.85	6.27	-8,800.59	-771.38	1,535.75	1,411.28	124.48	12.338							
21,200.00	12,060.00	19,703.79	10,532.49	120.21	137.00	6.34	-8,883.95	-772.72	1,537.20	1,411.54	125.65	12.234							
21,300.00	12,060.00	19,792.47	10,530.73	121.54	138.22	6.42	-8,972.60	-774.37	1,539.46	1,412.62	126.85	12.137							
21,400.00	12,060.00	19,878.87	10,528.30	122.87	139.41	6.49	-9,058.95	-775.87	1,542.55	1,414.53	128.03	12.049							
21,500.00	12,060.00	19,974.65	10,524.75	124.20	140.72	6.57	-9,154.65	-777.59	1,546.52	1,417.29	129.23	11.967							
21,600.00	12,060.00	20,109.97	10,522.43	125.54	142.59	6.62	-9,289.94	-778.08	1,548.06	1,417.61	130.46	11.866							
21,700.00	12,060.00	20,233.29	10,520.95	126.87	144.30	6.64	-9,413.25	-778.01	1,549.46	1,417.83	131.63	11.771							
21,800.00	12,060.00	20,349.60	10,521.76	128.20	145.91	6.65	-9,529.55	-777.16	1,548.74	1,415.97	132.77	11.665							
21,900.00	12,060.00	20,437.00	10,522.19	129.54	147.12	6.65	-9,616.95	-776.47	1,548.24	1,414.32	133.92	11.561							
21,904.45	12,060.00	20,437.00	10,522.19	129.60	147.12	6.65	-9,616.95	-776.47	1,548.24	1,414.26	133.98	11.556							
22,000.00	12,060.00	20,530.91	10,522.09	130.87	148.42	6.66	-9,710.85	-775.78	1,548.35	1,413.28	135.07	11.463							
22,100.00	12,060.00	20,616.86	10,521.55	132.21	149.62	6.65	-9,796.80	-775.05	1,548.96	1,412.75	136.21	11.371							
22,200.00	12,060.00	20,702.00	10,520.15	133.54	150.80	6.65	-9,881.92	-774.37	1,550.59	1,413.24	137.35	11.290							
22,259.99	12,060.00	20,758.87	10,518.86	134.34	151.59	6.64	-9,938.77	-773.82	1,551.92	1,413.90	138.02	11.244							

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 112H - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 152-3_MWD+HRGM														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)					
0.00	0.00	0.00	1.00	0.00	0.00	7.70	185.00	25.00	186.68	186.68					
100.00	100.00	97.63	98.63	1.51	0.15	0.68	185.40	24.73	186.32	184.66	1.66	112.154			
200.00	199.97	196.62	197.61	1.66	0.39	2.48	186.55	24.01	185.23	183.18	2.05	90.245			
300.00	299.93	297.34	298.32	2.21	0.75	9.80	187.88	23.53	183.53	180.58	2.96	62.092			
400.00	399.82	397.22	398.20	2.55	1.11	28.41	188.66	23.14	179.99	176.34	3.65	49.295			
500.00	499.65	497.00	497.97	2.84	1.47	34.44	189.70	22.78	176.01	171.71	4.30	40.971			
600.00	599.45	596.42	597.38	3.18	1.82	51.64	190.83	22.31	172.32	167.36	4.96	34.745			
700.00	698.87	695.66	696.62	3.75	2.18	65.65	192.20	21.93	168.42	162.73	5.69	29.581			
800.00	798.06	795.13	796.07	3.97	2.53	71.06	193.63	21.40	165.00	158.75	6.25	26.390			
900.00	897.41	893.95	894.87	4.19	2.89	75.82	195.20	21.08	163.15	156.35	6.80	23.975			
1,000.00	996.75	993.77	994.68	4.43	3.25	81.06	196.76	20.85	162.22	154.86	7.36	22.051			
1,063.91	1,060.10	1,056.82	1,057.73	4.61	3.47	83.88	197.79	20.69	161.99	154.26	7.73	20.959	CC		
1,100.00	1,095.77	1,092.74	1,093.64	4.71	3.60	85.72	198.43	20.59	162.07	154.13	7.94	20.413			
1,200.00	1,194.75	1,192.61	1,193.50	5.15	3.96	90.20	199.80	20.08	162.49	153.75	8.74	18.582	ES		
1,300.00	1,293.76	1,290.07	1,290.95	5.43	4.30	95.88	200.45	20.87	164.24	154.86	9.37	17.519			
1,400.00	1,392.81	1,385.76	1,386.59	5.62	4.62	100.90	201.51	23.68	169.10	159.21	9.88	17.109			
1,500.00	1,491.86	1,482.20	1,482.91	5.81	4.96	106.43	203.10	28.14	176.81	166.41	10.40	17.004			
1,600.00	1,590.95	1,578.72	1,579.28	6.00	5.30	111.19	205.21	33.35	186.79	175.87	10.92	17.113			
1,700.00	1,690.07	1,674.46	1,674.76	6.19	5.64	114.73	207.76	39.85	199.14	187.71	11.43	17.424			
1,800.00	1,789.13	1,771.07	1,771.04	6.38	5.98	118.77	210.77	47.18	213.42	201.47	11.95	17.856			
1,900.00	1,888.18	1,866.73	1,866.32	6.57	6.32	121.71	214.00	55.11	229.35	216.88	12.47	18.390			
2,000.00	1,987.20	1,960.70	1,959.79	6.76	6.67	125.47	217.60	64.11	247.42	234.44	12.98	19.064			
2,100.00	2,086.18	2,054.87	2,053.29	6.96	7.01	127.60	221.60	74.48	267.75	254.26	13.49	19.849			
2,200.00	2,185.14	2,148.98	2,146.65	7.15	7.36	130.04	226.07	85.50	289.41	275.41	14.00	20.670			
2,300.00	2,284.09	2,240.61	2,237.34	7.35	7.70	132.48	231.14	97.56	313.16	298.67	14.49	21.608			
2,400.00	2,382.99	2,334.32	2,329.91	7.54	8.06	132.86	237.06	110.86	338.53	323.52	15.01	22.558			
2,500.00	2,481.85	2,430.00	2,424.37	7.74	8.43	132.77	243.13	124.84	364.46	348.91	15.54	23.448			
2,600.00	2,580.66	2,525.61	2,518.75	7.94	8.80	132.07	249.12	138.90	390.53	374.45	16.08	24.283			
2,700.00	2,679.45	2,622.17	2,614.03	8.13	9.18	130.91	255.08	153.41	416.80	400.17	16.63	25.060			
2,800.00	2,778.25	2,721.76	2,712.42	8.33	9.57	128.27	261.72	167.33	441.63	424.43	17.21	25.665			
2,900.00	2,877.08	2,814.89	2,804.34	8.53	9.94	125.55	268.26	180.72	466.16	448.43	17.73	26.295			
3,000.00	2,975.87	2,915.21	2,903.34	8.73	10.34	123.42	275.52	195.23	490.37	472.06	18.31	26.780			
3,100.00	3,074.61	3,021.65	3,008.57	8.93	10.76	122.05	284.09	208.75	512.70	493.76	18.94	27.068			
3,200.00	3,173.35	3,123.44	3,109.36	9.12	11.16	120.68	292.51	220.29	533.36	513.83	19.53	27.307			
3,300.00	3,272.11	3,227.36	3,212.31	9.32	11.57	123.72	301.31	231.33	553.20	533.06	20.14	27.473			
3,400.00	3,370.95	3,329.44	3,313.60	9.52	11.96	124.48	309.59	240.95	572.19	551.47	20.72	27.610			
3,500.00	3,469.86	3,424.87	3,408.29	9.76	12.33	140.13	317.45	249.84	591.76	570.46	21.30	27.783			
3,600.00	3,568.72	3,518.08	3,500.72	9.97	12.70	141.41	325.08	259.16	614.41	592.58	21.84	28.136			
3,700.00	3,667.55	3,624.03	3,605.76	10.18	13.11	137.65	333.96	269.73	636.75	614.30	22.45	28.364			
3,800.00	3,766.44	3,729.46	3,710.38	10.38	13.52	145.61	343.71	278.35	657.23	634.17	23.05	28.507			
3,900.00	3,865.32	3,827.51	3,807.74	10.63	13.89	160.74	352.59	285.86	678.88	655.27	23.61	28.749			
4,000.00	3,964.02	3,925.19	3,904.79	10.84	14.27	158.22	360.74	293.39	702.31	678.15	24.16	29.065			
4,100.00	4,062.53	4,026.26	4,005.26	11.05	14.65	158.42	368.75	300.92	726.33	701.60	24.74	29.363			
4,200.00	4,160.91	4,129.08	4,107.52	11.26	15.04	157.84	376.84	307.85	750.33	725.01	25.32	29.634			
4,300.00	4,259.37	4,222.93	4,200.79	11.48	15.40	158.82	385.25	313.94	773.83	747.98	25.85	29.931			
4,400.00	4,357.97	4,325.09	4,302.28	11.69	15.79	156.79	395.05	320.35	796.56	770.13	26.43	30.135			
4,500.00	4,456.67	4,417.91	4,394.45	11.93	16.14	145.19	404.28	326.22	817.83	790.86	26.97	30.322			
4,600.00	4,555.52	4,520.46	4,496.33	12.14	16.54	137.70	414.14	332.54	836.71	809.15	27.56	30.363			
4,700.00	4,654.60	4,604.00	4,579.23	12.33	16.86	132.69	422.57	338.51	854.48	826.45	28.03	30.484			
4,800.00	4,753.79	4,682.69	4,657.08	12.52	17.17	128.25	431.62	345.61	872.80	844.33	28.47	30.661			
4,900.00	4,853.10	4,783.89	4,757.01	12.70	17.57	127.62	444.06	355.62	891.05	862.01	29.03	30.689			
5,000.00	4,952.47	4,865.82	4,837.88	12.88	17.91	132.83	454.07	364.03	909.73	880.24	29.48	30.858			

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 112H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 152-3_MWD+HRGM													Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,051.72	4,945.32	4,916.18	13.07	18.23	140.40	463.81	373.83	932.16	902.25	29.92	31.160		
5,200.00	5,150.85	5,029.25	4,998.62	13.26	18.58	144.31	474.09	385.65	957.84	927.46	30.39	31.520		
5,300.00	5,250.23	5,128.85	5,096.44	13.45	19.00	144.83	485.60	400.45	982.91	951.95	30.96	31.746		
5,400.00	5,349.42	5,236.63	5,202.51	13.64	19.45	141.60	497.76	415.27	1,007.83	976.23	31.60	31.890		
5,500.00	5,448.36	5,343.11	5,307.45	13.93	19.89	140.54	509.37	429.09	1,033.20	1,000.88	32.32	31.967		
5,600.00	5,547.22	5,454.22	5,417.09	14.18	20.35	139.38	521.75	442.14	1,057.69	1,024.66	33.02	32.028		
5,700.00	5,646.05	5,547.95	5,509.67	14.39	20.73	134.88	531.83	452.72	1,081.40	1,047.83	33.57	32.214		
5,800.00	5,744.82	5,648.90	5,609.42	14.60	21.14	130.64	542.38	464.13	1,104.36	1,070.20	34.16	32.327		
5,900.00	5,843.58	5,767.00	5,726.34	14.80	21.61	130.69	553.35	476.65	1,126.16	1,091.31	34.85	32.314		
6,000.00	5,942.43	5,955.71	5,914.38	15.00	22.31	132.95	563.12	488.06	1,142.99	1,107.16	35.82	31.905		
6,100.00	6,041.27	6,093.43	6,052.01	15.21	22.78	135.06	567.96	488.11	1,153.90	1,117.41	36.49	31.621		
6,200.00	6,140.02	6,206.29	6,164.84	15.42	23.14	135.30	569.62	486.16	1,163.60	1,126.54	37.06	31.397		
6,300.00	6,238.81	6,301.72	6,260.25	15.62	23.44	138.35	569.79	484.16	1,172.84	1,135.26	37.58	31.212		
6,400.00	6,337.75	6,399.05	6,357.56	15.82	23.74	138.90	569.89	482.47	1,182.07	1,143.98	38.09	31.032		
6,500.00	6,436.81	6,497.28	6,455.78	16.02	24.05	141.67	570.05	480.85	1,191.03	1,152.42	38.61	30.851		
6,600.00	6,535.79	6,595.66	6,554.15	16.22	24.36	143.05	570.18	479.31	1,200.77	1,161.64	39.12	30.692		
6,700.00	6,634.61	6,693.78	6,652.25	16.42	24.67	146.26	570.28	477.83	1,211.84	1,172.20	39.65	30.566		
6,800.00	6,733.38	6,789.89	6,748.36	16.63	24.97	147.19	570.38	476.53	1,223.58	1,183.41	40.17	30.463		
6,900.00	6,832.33	6,889.79	6,848.25	16.83	25.29	153.93	570.28	475.29	1,234.97	1,194.28	40.69	30.352		
7,000.00	6,931.52	6,989.19	6,947.64	17.02	25.60	154.26	570.07	474.01	1,245.14	1,203.93	41.20	30.218		
7,100.00	7,031.09	7,085.73	7,044.17	17.21	25.91	151.24	569.76	472.88	1,252.18	1,210.46	41.71	30.018		
7,200.00	7,131.03	7,181.51	7,139.95	17.42	26.21	105.55	569.30	472.07	1,253.53	1,211.38	42.15	29.740		
7,300.00	7,231.02	7,283.96	7,242.39	17.52	26.54	88.77	568.97	471.24	1,252.79	1,210.23	42.55	29.441		
7,400.00	7,331.02	7,384.28	7,342.71	17.62	26.86	92.01	568.61	470.34	1,251.90	1,208.96	42.94	29.152		
7,500.00	7,431.01	7,486.92	7,445.35	17.73	27.19	101.77	568.23	469.27	1,250.94	1,207.59	43.35	28.856		
7,600.00	7,531.00	7,581.79	7,540.20	17.84	27.50	115.13	567.87	468.20	1,250.20	1,206.45	43.75	28.575		
7,613.56	7,544.56	7,592.41	7,550.83	17.85	27.53	117.26	567.86	468.13	1,250.19	1,206.38	43.80	28.542		
7,700.00	7,631.00	7,661.13	7,619.55	17.95	27.76	132.56	568.14	468.30	1,250.88	1,206.76	44.12	28.351		
7,800.00	7,730.99	7,754.88	7,713.29	18.05	28.08	135.56	569.01	469.39	1,252.81	1,208.27	44.55	28.122		
7,900.00	7,830.99	7,859.45	7,817.85	18.15	28.45	166.74	570.22	470.63	1,254.85	1,209.83	45.02	27.874		
8,000.00	7,930.98	7,961.68	7,920.06	18.22	28.80	-153.86	571.47	471.54	1,256.72	1,211.25	45.47	27.638		
8,100.00	8,030.98	8,060.44	8,018.81	18.24	29.14	-122.02	572.59	472.44	1,258.25	1,212.36	45.88	27.422		
8,200.00	8,130.97	8,161.36	8,119.72	18.25	29.49	-139.10	573.51	473.34	1,260.09	1,213.78	46.30	27.214		
8,300.00	8,230.95	8,262.31	8,220.67	18.57	29.83	39.82	573.93	474.21	1,260.63	1,213.80	46.83	26.918		
8,400.00	8,330.88	8,364.25	8,322.60	18.64	30.18	40.88	573.98	474.95	1,258.55	1,211.35	47.19	26.667		
8,500.00	8,430.83	8,463.63	8,421.98	18.68	30.51	36.13	573.59	475.60	1,256.63	1,209.10	47.53	26.439		
8,600.00	8,530.80	8,561.03	8,519.37	18.71	30.83	26.72	573.10	476.40	1,255.21	1,207.37	47.85	26.234		
8,700.00	8,630.77	8,662.01	8,620.35	18.73	31.17	15.70	572.73	477.36	1,254.16	1,205.99	48.17	26.036		
8,800.00	8,730.76	8,765.03	8,723.37	18.74	31.52	15.65	572.65	478.07	1,253.40	1,204.90	48.50	25.841		
8,900.00	8,830.76	8,867.13	8,825.47	18.74	31.87	-14.93	572.96	478.58	1,252.92	1,204.08	48.84	25.656		
9,000.00	8,930.75	8,972.65	8,930.99	18.72	32.23	-24.48	573.41	478.82	1,252.23	1,203.05	49.17	25.466		
9,100.00	9,030.74	9,077.23	9,035.56	18.70	32.59	-53.18	573.88	478.58	1,250.92	1,201.41	49.51	25.265		
9,179.57	9,110.30	9,158.38	9,116.71	18.69	32.86	-112.25	574.25	478.20	1,250.50	1,200.70	49.81	25.107		
9,200.00	9,130.74	9,179.16	9,137.49	18.68	32.93	-120.88	574.39	478.09	1,250.69	1,200.80	49.88	25.072		
9,300.00	9,230.72	9,274.08	9,232.41	18.68	33.26	-122.58	575.16	477.73	1,251.38	1,201.11	50.27	24.895		
9,400.00	9,330.70	9,373.58	9,331.90	18.68	33.60	-112.75	576.17	477.59	1,252.24	1,201.58	50.66	24.719		
9,500.00	9,430.67	9,479.22	9,437.53	18.67	33.97	-112.20	577.39	477.20	1,252.65	1,201.59	51.06	24.533		
9,600.00	9,530.64	9,579.34	9,537.65	18.66	34.31	-121.45	578.59	476.67	1,253.29	1,201.84	51.45	24.359		
9,700.00	9,630.59	9,696.16	9,654.44	18.67	34.71	-130.25	579.87	475.21	1,253.89	1,202.00	51.89	24.163		
9,800.00	9,730.54	9,810.55	9,768.79	18.69	35.09	-144.16	581.00	472.21	1,253.66	1,201.32	52.34	23.954		
9,900.00	9,830.48	9,918.49	9,876.66	18.74	35.44	-153.77	581.99	468.48	1,253.21	1,200.44	52.78	23.745		
9,993.99	9,924.41	10,009.51	9,967.61	18.79	35.74	-153.02	581.01	465.13	1,252.78	1,199.61	53.17	23.561		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 112H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 152-3_MWD+HRGM													Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,000.00	9,930.42	10,014.52	9,972.61	18.80	35.75	-152.96	580.75	464.97	1,252.73	1,199.54	53.19	23.550		
10,100.00	10,030.33	10,103.17	10,060.43	18.85	36.02	-148.01	569.41	463.09	1,253.73	1,200.15	53.59	23.397		
10,200.00	10,130.19	10,198.39	10,151.01	18.91	36.27	-152.55	540.64	461.69	1,255.85	1,201.88	53.98	23.266		
10,300.00	10,229.97	10,272.00	10,215.51	18.99	36.43	-150.27	505.35	462.07	1,261.82	1,207.50	54.31	23.232		
10,400.00	10,329.68	10,314.98	10,250.12	19.05	36.50	-134.77	479.93	463.19	1,271.70	1,217.18	54.51	23.328		
10,500.00	10,429.39	10,368.00	10,289.47	19.09	36.58	-116.67	444.50	465.48	1,284.80	1,230.13	54.67	23.502		
10,600.00	10,529.12	10,427.21	10,330.33	19.11	36.65	-117.65	401.76	468.51	1,301.45	1,246.67	54.78	23.756		
10,700.00	10,628.94	10,489.35	10,371.06	19.14	36.72	-121.67	354.95	471.41	1,321.75	1,266.86	54.89	24.081		
10,800.00	10,728.88	10,537.91	10,399.36	19.17	36.76	-123.53	315.54	473.00	1,345.41	1,290.50	54.91	24.503		
10,900.00	10,828.84	10,597.29	10,429.11	19.23	36.79	-148.20	264.18	473.62	1,374.12	1,319.18	54.94	25.012		
11,000.00	10,928.83	10,657.94	10,454.81	19.32	36.82	173.80	209.31	471.52	1,407.17	1,352.22	54.96	25.605		
11,100.00	11,028.81	10,681.13	10,463.49	19.44	36.82	156.37	187.85	470.20	1,445.13	1,390.31	54.82	26.363		
11,200.00	11,128.80	10,702.64	10,471.08	19.56	36.83	151.99	167.76	468.93	1,488.25	1,433.59	54.65	27.231		
11,300.00	11,228.77	10,721.64	10,477.41	19.68	36.84	164.35	149.88	467.77	1,536.50	1,482.02	54.48	28.204		
11,400.00	11,328.75	10,750.00	10,486.19	19.79	36.87	-161.29	122.98	465.99	1,589.34	1,534.99	54.34	29.247		
11,500.00	11,428.49	10,750.00	10,486.19	20.94	36.87	-70.71	122.98	465.99	1,644.34	1,589.41	54.93	29.935		
11,600.00	11,525.17	10,750.00	10,486.19	21.69	36.87	-59.29	122.98	465.99	1,695.80	1,640.73	55.07	30.795		
11,700.00	11,617.80	10,789.56	10,496.95	21.72	36.92	-53.68	84.97	463.94	1,742.87	1,688.04	54.83	31.787		
11,800.00	11,705.23	10,809.70	10,501.70	21.90	36.95	-47.00	65.41	463.26	1,786.43	1,731.78	54.65	32.687		
11,900.00	11,783.36	10,846.00	10,508.98	22.16	37.02	-43.26	29.86	462.65	1,821.73	1,767.09	54.64	33.339		
12,000.00	11,851.85	10,846.00	10,508.98	22.38	37.02	-45.80	29.86	462.65	1,853.77	1,799.32	54.44	34.049		
12,100.00	11,909.84	10,895.05	10,516.82	22.67	37.14	-41.40	-18.56	462.85	1,882.34	1,827.55	54.79	34.353		
12,200.00	11,951.37	10,932.04	10,521.55	22.90	37.23	-39.07	-55.23	463.62	1,896.29	1,841.33	54.96	34.501		
12,300.00	11,975.92	10,980.00	10,526.14	23.11	37.35	-38.78	-102.94	465.40	1,898.31	1,843.00	55.31	34.321		
12,400.00	11,985.05	11,026.92	10,529.33	23.37	37.49	-39.10	-149.70	467.55	1,891.92	1,836.30	55.62	34.014		
12,500.00	11,987.32	11,094.30	10,532.37	23.67	37.70	-38.86	-216.94	470.53	1,882.58	1,826.78	55.80	33.739		
12,600.00	11,990.72	11,177.06	10,535.18	24.08	37.98	-39.02	-299.55	474.68	1,877.10	1,820.99	56.11	33.452		
12,687.30	11,995.25	11,274.30	10,536.91	24.43	38.35	-38.83	-396.72	477.73	1,876.14	1,819.62	56.52	33.195		
12,700.00	11,996.12	11,285.87	10,536.99	24.48	38.40	-38.80	-408.29	477.90	1,876.19	1,819.62	56.57	33.167		
12,800.00	12,004.27	11,374.90	10,537.26	24.94	38.78	-38.59	-497.30	479.17	1,878.18	1,821.20	56.98	32.961		
12,900.00	12,012.70	11,457.00	10,536.28	25.44	39.16	-38.40	-579.39	479.99	1,882.52	1,825.09	57.42	32.783		
13,000.00	12,021.18	11,541.40	10,534.18	26.00	39.59	-38.22	-663.76	480.60	1,889.13	1,831.19	57.94	32.607		
13,100.00	12,030.65	11,624.31	10,531.70	26.62	40.04	-38.04	-746.64	481.61	1,898.18	1,839.69	58.50	32.449		
13,200.00	12,040.26	11,783.04	10,527.72	27.28	40.99	-37.64	-905.29	481.81	1,907.13	1,847.66	59.48	32.065		
13,300.00	12,048.54	11,882.67	10,525.73	27.99	41.62	-37.37	-1,004.89	479.64	1,913.81	1,853.59	60.23	31.777		
13,400.00	12,055.24	11,994.51	10,523.38	28.75	42.38	-37.10	-1,116.67	477.46	1,919.77	1,858.66	61.10	31.419		
13,500.00	12,057.83	12,099.84	10,523.00	29.55	43.13	-37.01	-1,221.99	475.90	1,921.84	1,859.81	62.03	30.983		
13,600.00	12,059.41	12,191.98	10,522.86	30.39	43.82	-36.95	-1,314.13	475.35	1,922.81	1,859.89	62.92	30.558		
13,700.00	12,058.40	12,284.74	10,522.94	31.26	44.55	-36.97	-1,406.89	475.66	1,921.73	1,857.85	63.89	30.081		
13,720.32	12,058.37	12,303.58	10,522.92	31.44	44.70	-36.97	-1,425.73	475.75	1,921.72	1,857.63	64.08	29.987		
13,800.00	12,058.93	12,379.79	10,522.92	32.17	45.32	-36.96	-1,501.93	476.38	1,922.46	1,857.57	64.89	29.624		
13,900.00	12,058.02	12,470.07	10,523.33	33.10	46.09	-37.05	-1,592.20	478.09	1,922.92	1,856.98	65.94	29.161		
14,000.00	12,058.21	12,560.40	10,523.73	35.46	46.87	-37.07	-1,682.49	480.68	1,923.49	1,856.63	66.86	28.768		
14,100.00	12,058.69	12,655.66	10,523.82	36.06	47.73	-36.87	-1,777.71	483.55	1,920.22	1,852.46	67.76	28.337		
14,200.00	12,059.54	12,796.54	10,525.35	36.71	49.04	-36.81	-1,918.50	488.20	1,917.68	1,848.50	69.18	27.722		
14,300.00	12,059.96	12,891.00	10,527.45	37.42	49.95	-36.85	-2,012.90	490.64	1,915.37	1,845.15	70.22	27.277		
14,388.75	12,060.05	12,968.32	10,528.16	38.09	50.70	-36.87	-2,090.21	491.84	1,914.76	1,843.66	71.11	26.928		
14,400.00	12,060.00	12,977.88	10,528.18	38.17	50.80	-36.88	-2,099.76	491.97	1,914.99	1,843.76	71.22	26.887		
14,500.00	12,060.00	13,078.44	10,528.39	38.97	51.79	-36.90	-2,200.31	493.39	1,915.19	1,842.79	72.40	26.454		
14,600.00	12,060.00	13,172.42	10,528.55	39.79	52.75	-36.92	-2,294.28	494.82	1,915.48	1,841.94	73.54	26.045		
14,700.00	12,060.00	13,294.47	10,529.66	40.66	54.02	-36.96	-2,416.30	497.01	1,915.35	1,840.33	75.02	25.533		
14,800.00	12,060.00	13,396.63	10,532.15	41.55	55.10	-37.05	-2,518.40	499.58	1,914.44	1,838.09	76.35	25.075		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 112H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 152-3_MWD+HRGM											Rule Assigned:		Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Offset Wellbore Centre		Distance			Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
14,900.00	12,060.00	13,483.11	10,533.02	42.47	56.03	-37.08	-2,604.87	500.88	1,914.05	1,836.52	77.53	24.689		
14,997.92	12,060.00	13,579.17	10,533.47	43.40	57.07	-37.10	-2,700.91	502.12	1,913.97	1,835.16	78.81	24.285		
15,000.00	12,060.00	13,581.09	10,533.48	43.42	57.09	-37.10	-2,702.84	502.15	1,913.97	1,835.13	78.84	24.277		
15,100.00	12,060.00	13,676.16	10,533.94	44.40	58.14	-37.13	-2,797.89	503.84	1,914.17	1,834.01	80.16	23.881		
15,200.00	12,060.00	13,779.84	10,534.87	45.40	59.30	-37.18	-2,901.54	506.09	1,914.28	1,832.68	81.60	23.459		
15,300.00	12,060.00	13,881.59	10,533.58	46.42	60.45	-37.12	-3,003.27	505.42	1,914.41	1,831.43	82.98	23.072		
15,400.00	12,060.00	13,990.52	10,532.25	47.46	61.69	-37.04	-3,112.18	503.95	1,914.08	1,829.65	84.43	22.671		
15,500.00	12,060.00	14,086.52	10,533.05	48.51	62.79	-37.07	-3,208.17	505.06	1,913.63	1,827.78	85.85	22.292		
15,600.00	12,060.00	14,191.38	10,532.44	49.59	64.01	-37.03	-3,313.02	504.72	1,913.43	1,826.10	87.33	21.911		
15,700.00	12,060.00	14,303.04	10,531.96	50.68	65.32	-36.96	-3,424.68	503.32	1,912.53	1,823.66	88.87	21.521		
15,800.00	12,060.00	14,404.16	10,532.00	51.79	66.51	-36.92	-3,525.79	502.17	1,911.33	1,820.99	90.34	21.157		
15,900.00	12,060.00	14,496.50	10,531.92	52.91	67.61	-36.88	-3,618.12	501.23	1,910.31	1,818.57	91.74	20.823		
16,000.00	12,060.00	14,595.12	10,532.44	54.04	68.80	-36.87	-3,716.74	501.55	1,909.60	1,816.35	93.25	20.478		
16,100.00	12,060.00	14,695.29	10,533.50	55.19	70.02	-36.90	-3,816.90	502.54	1,908.87	1,814.05	94.82	20.131		
16,187.01	12,060.00	14,768.43	10,534.02	56.19	70.91	-36.91	-3,890.03	503.31	1,908.51	1,812.46	96.05	19.869		
16,200.00	12,060.00	14,779.03	10,533.96	56.34	71.04	-36.91	-3,900.63	503.33	1,908.52	1,812.29	96.23	19.833		
16,300.00	12,060.00	14,863.00	10,532.50	57.51	72.07	-36.85	-3,984.59	502.85	1,909.09	1,811.50	97.59	19.563		
16,400.00	12,060.00	15,019.45	10,530.02	58.68	74.00	-36.72	-4,140.99	500.51	1,909.21	1,809.60	99.61	19.166		
16,500.00	12,060.00	15,131.64	10,532.07	59.87	75.39	-36.70	-4,253.15	499.09	1,906.46	1,805.15	101.31	18.818		
16,600.00	12,060.00	15,226.74	10,533.36	61.06	76.58	-36.68	-4,348.23	498.06	1,904.23	1,801.38	102.85	18.514		
16,700.00	12,060.00	15,341.06	10,535.81	62.26	78.02	-36.68	-4,462.51	496.76	1,901.34	1,796.74	104.60	18.177		
16,800.00	12,060.00	15,444.74	10,539.53	63.47	79.34	-36.73	-4,566.13	496.97	1,898.11	1,791.78	106.33	17.851		
16,900.00	12,060.00	15,560.06	10,544.60	64.69	80.81	-36.81	-4,681.34	497.65	1,894.47	1,786.25	108.22	17.506		
17,000.00	12,060.00	15,631.06	10,547.85	65.91	81.72	-36.88	-4,752.25	498.43	1,891.02	1,781.33	109.69	17.240		
17,100.00	12,060.00	15,709.91	10,550.67	67.14	82.74	-36.96	-4,831.02	500.38	1,889.12	1,777.87	111.26	16.980		
17,200.00	12,060.00	15,792.74	10,553.31	68.37	83.81	-37.06	-4,913.78	502.97	1,888.00	1,775.11	112.89	16.725		
17,241.67	12,060.00	15,823.71	10,553.94	68.88	84.21	-37.08	-4,944.72	503.91	1,887.88	1,774.36	113.52	16.630		
17,300.00	12,060.00	15,870.47	10,554.44	69.61	84.82	-37.12	-4,991.46	505.25	1,888.10	1,773.67	114.43	16.500		
17,400.00	12,060.00	15,965.83	10,554.87	70.85	86.06	-37.17	-5,086.79	507.74	1,888.84	1,772.69	116.15	16.262		
17,500.00	12,060.00	16,061.10	10,554.88	72.10	87.30	-37.20	-5,182.03	510.05	1,889.81	1,771.94	117.87	16.034		
17,600.00	12,060.00	16,154.06	10,554.63	73.35	88.51	-37.24	-5,274.96	512.50	1,891.13	1,771.57	119.56	15.817		
17,700.00	12,060.00	16,251.93	10,554.27	74.61	89.80	-37.28	-5,372.79	515.15	1,892.58	1,771.26	121.33	15.599		
17,800.00	12,060.00	16,333.00	10,552.98	75.87	90.86	-37.28	-5,453.83	516.95	1,894.70	1,771.84	122.86	15.421		
17,900.00	12,060.00	16,429.08	10,550.32	77.14	92.13	-37.25	-5,549.86	518.55	1,897.43	1,772.90	124.53	15.237		
18,000.00	12,060.00	16,530.18	10,547.62	78.41	93.46	-37.23	-5,650.91	520.41	1,900.18	1,773.92	126.26	15.049		
18,100.00	12,060.00	16,620.00	10,545.52	79.68	94.65	-37.23	-5,740.67	522.75	1,903.14	1,775.23	127.91	14.879		
18,200.00	12,060.00	16,715.00	10,542.86	80.96	95.92	-37.22	-5,835.60	525.28	1,906.50	1,776.89	129.61	14.710		
18,300.00	12,060.00	16,811.00	10,539.62	82.23	97.20	-37.20	-5,931.52	527.62	1,910.17	1,778.87	131.30	14.548		
18,400.00	12,060.00	16,906.00	10,536.31	83.52	98.47	-37.19	-6,026.42	530.22	1,914.12	1,781.13	133.00	14.392		
18,500.00	12,060.00	16,999.42	10,532.90	84.80	99.72	-37.17	-6,119.74	532.99	1,918.33	1,783.65	134.68	14.244		
18,600.00	12,060.00	17,152.82	10,528.48	86.09	101.77	-37.11	-6,273.06	534.86	1,920.67	1,783.69	136.98	14.021		
18,700.00	12,060.00	17,246.07	10,526.39	87.38	103.02	-37.06	-6,366.28	535.29	1,922.27	1,783.64	138.62	13.867		
18,800.00	12,060.00	17,327.57	10,524.12	88.67	104.11	-37.03	-6,447.75	536.08	1,924.60	1,784.45	140.15	13.733		
18,900.00	12,060.00	17,449.39	10,520.21	89.97	105.75	-36.98	-6,569.49	537.88	1,927.72	1,785.62	142.11	13.565		
19,000.00	12,060.00	17,586.08	10,519.93	91.26	107.59	-36.99	-6,706.17	539.67	1,928.07	1,783.76	144.31	13.361		
19,025.87	12,060.00	17,608.61	10,520.01	91.60	107.90	-36.99	-6,728.69	539.92	1,928.05	1,783.30	144.75	13.320		
19,100.00	12,060.00	17,679.63	10,519.97	92.56	108.85	-37.00	-6,799.71	540.72	1,928.23	1,782.17	146.06	13.201		
19,200.00	12,060.00	17,861.60	10,524.09	93.86	111.31	-37.02	-6,981.61	539.93	1,925.20	1,776.56	148.64	12.952		
19,300.00	12,060.00	17,966.07	10,528.12	95.17	112.73	-37.04	-7,086.00	538.80	1,920.98	1,770.45	150.53	12.761		
19,400.00	12,060.00	18,065.51	10,532.20	96.47	114.07	-37.07	-7,185.35	537.70	1,916.56	1,764.16	152.40	12.576		
19,500.00	12,060.00	18,147.00	10,534.75	97.78	115.18	-37.08	-7,266.80	536.82	1,912.89	1,758.80	154.10	12.414		
19,600.00	12,060.00	18,236.42	10,536.84	99.09	116.39	-37.08	-7,356.19	536.04	1,910.00	1,754.15	155.84	12.256		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 112H - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 152-3_MWD+HRGM										Rule Assigned:		Offset Well Error:	0.00 usft
Reference				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)			
19,700.00	12,060.00	18,310.61	10,538.29	100.40	117.40	-37.09	-7,430.36	535.88	1,907.84	1,750.38	157.47	12.116	
19,800.00	12,060.00	18,385.91	10,538.99	101.71	118.43	-37.10	-7,505.65	536.47	1,907.08	1,747.98	159.09	11.987	
19,812.11	12,060.00	18,395.24	10,539.01	101.87	118.56	-37.10	-7,514.98	536.56	1,907.07	1,747.78	159.29	11.972	
19,900.00	12,060.00	18,467.26	10,538.69	103.02	119.54	-37.10	-7,587.00	537.30	1,907.49	1,746.75	160.74	11.867	
20,000.00	12,060.00	18,556.31	10,537.15	104.34	120.75	-37.06	-7,676.04	537.65	1,908.62	1,746.23	162.39	11.753	
20,100.00	12,060.00	18,646.88	10,534.48	105.65	121.99	-36.99	-7,766.57	537.32	1,910.28	1,746.30	163.98	11.650	
20,200.00	12,060.00	18,744.42	10,530.60	106.97	123.32	-36.88	-7,864.03	536.35	1,912.38	1,746.82	165.56	11.551	
20,300.00	12,060.00	18,895.28	10,526.62	108.29	125.38	-36.74	-8,014.81	534.65	1,913.46	1,745.82	167.64	11.414	
20,400.00	12,060.00	19,012.32	10,527.36	109.61	126.98	-36.72	-8,131.85	534.22	1,912.23	1,742.64	169.59	11.275	
20,463.72	12,060.00	19,047.10	10,527.45	110.45	127.46	-36.71	-8,166.63	534.23	1,911.79	1,741.30	170.49	11.214	
20,500.00	12,060.00	19,068.08	10,527.25	110.93	127.75	-36.71	-8,187.61	534.28	1,911.93	1,740.94	170.99	11.182	
20,600.00	12,060.00	19,144.89	10,525.36	112.26	128.81	-36.67	-8,264.39	534.67	1,913.64	1,741.14	172.50	11.094	
20,700.00	12,060.00	19,241.27	10,523.05	113.58	130.13	-36.63	-8,360.74	535.53	1,915.62	1,741.40	174.22	10.995	
20,800.00	12,060.00	19,336.17	10,520.20	114.90	131.44	-36.58	-8,455.59	536.39	1,918.09	1,742.18	175.90	10.904	
20,900.00	12,060.00	19,437.46	10,517.61	116.23	132.84	-36.55	-8,556.84	537.69	1,920.43	1,742.74	177.69	10.808	
21,000.00	12,060.00	19,524.76	10,514.95	117.56	134.04	-36.50	-8,644.10	538.64	1,923.06	1,743.76	179.30	10.725	
21,100.00	12,060.00	19,651.59	10,510.69	118.88	135.80	-36.45	-8,770.83	540.38	1,926.29	1,744.96	181.33	10.623	
21,200.00	12,060.00	19,773.47	10,510.00	120.21	137.48	-36.45	-8,892.70	542.12	1,927.06	1,743.63	183.43	10.506	
21,300.00	12,060.00	19,877.77	10,509.71	121.54	138.93	-36.46	-8,996.99	543.36	1,927.51	1,742.16	185.34	10.400	
21,400.00	12,060.00	20,001.09	10,510.23	122.87	140.64	-36.47	-9,120.31	544.55	1,927.29	1,739.83	187.46	10.281	
21,500.00	12,060.00	20,109.88	10,512.16	124.20	142.14	-36.51	-9,229.07	545.47	1,925.86	1,736.38	189.48	10.164	
21,600.00	12,060.00	20,216.79	10,513.96	125.54	143.63	-36.54	-9,335.96	546.38	1,924.56	1,733.07	191.49	10.051	
21,700.00	12,060.00	20,318.07	10,516.72	126.87	145.04	-36.60	-9,437.20	547.65	1,922.63	1,729.12	193.52	9.935	
21,800.00	12,060.00	20,416.49	10,519.84	128.20	146.41	-36.69	-9,535.55	549.84	1,920.94	1,725.34	195.60	9.821	
21,900.00	12,060.00	20,497.18	10,522.34	129.54	147.54	-36.77	-9,616.17	552.00	1,919.60	1,722.09	197.51	9.719	
21,954.48	12,060.00	20,538.00	10,523.25	130.26	148.11	-36.81	-9,656.96	553.32	1,919.43	1,720.92	198.51	9.669	
22,000.00	12,060.00	20,582.88	10,524.13	130.87	148.74	-36.85	-9,701.80	554.90	1,919.45	1,719.97	199.48	9.622	
22,100.00	12,060.00	20,678.76	10,526.20	132.21	150.08	-36.96	-9,797.59	558.58	1,919.56	1,717.95	201.60	9.522	
22,200.00	12,060.00	20,771.81	10,527.89	133.54	151.39	-37.06	-9,890.55	562.32	1,920.04	1,716.36	203.69	9.426	
22,259.99	12,060.00	20,820.00	10,528.68	134.34	152.06	-37.11	-9,938.69	564.27	1,920.46	1,715.63	204.83	9.376 SF	

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 125H - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 100-3_Gyro-NS_OWSG, 3964-3_MWD+HRGM														Offset Well Error:	0.00 usft
Rule Assigned:															
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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	0.99	-0.01	0.00	0.00	0.00	185.00	0.00	185.00	182.86	1.64	112.208			
100.00	100.00	100.19	99.19	1.51	0.13	-7.01	185.22	-0.21	184.50	180.21	2.15	84.821			
200.00	199.97	201.78	200.78	1.66	0.49	-5.24	185.20	-0.85	182.36	176.08	3.04	58.959			
300.00	299.93	301.14	300.14	2.21	0.83	2.10	184.93	-1.06	179.12	171.08	3.73	46.924			
400.00	399.82	400.09	399.09	2.55	1.18	20.69	185.08	-1.04	174.80	164.96	4.37	38.760			
500.00	499.65	501.85	500.84	2.84	1.53	26.60	184.91	-1.32	169.33	158.82	5.03	32.605			
600.00	599.45	600.00	598.99	3.18	1.88	43.90	184.71	-1.23	163.85	151.68	5.78	27.231			
700.00	698.87	700.43	699.42	3.75	2.23	58.12	184.70	-1.26	157.47	144.69	6.33	23.869			
800.00	798.06	799.34	798.34	3.97	2.57	63.93	184.40	-1.16	151.01	139.70	6.87	21.350			
900.00	897.41	897.88	896.87	4.19	2.91	69.25	184.45	-0.88	146.57	136.00	7.40	19.374			
1,000.00	996.75	997.27	996.26	4.43	3.26	75.18	184.76	-0.69	143.40	132.89	7.97	17.679			
1,100.00	1,095.77	1,096.40	1,095.39	4.71	3.61	80.84	185.04	-0.52	140.86	130.70	8.75	15.930			
1,200.00	1,194.75	1,195.54	1,194.53	5.15	3.95	86.47	185.17	-0.35	139.46	130.23	9.06	15.381 CC			
1,247.91	1,242.18	1,243.08	1,242.07	5.28	4.12	89.69	185.10	-0.11	139.29	130.04	9.39	14.854 ES			
1,300.00	1,293.76	1,294.87	1,293.86	5.43	4.30	93.09	185.09	-0.09	139.43	131.08	9.91	14.226			
1,400.00	1,392.81	1,393.42	1,392.40	5.62	4.64	98.74	185.00	0.13	140.99	133.68	10.44	13.803			
1,500.00	1,491.86	1,492.39	1,491.38	5.81	4.99	104.83	184.97	0.66	144.12	137.63	10.98	13.540			
1,600.00	1,590.95	1,591.26	1,590.25	6.00	5.34	110.21	185.03	1.11	148.60	142.62	11.52	13.385			
1,700.00	1,690.07	1,690.65	1,689.63	6.19	5.68	114.49	185.03	1.62	154.13	148.73	12.05	13.368			
1,800.00	1,789.13	1,789.00	1,787.98	6.38	6.03	119.16	185.46	1.89	160.78	155.88	12.60	13.389			
1,900.00	1,888.18	1,888.78	1,887.76	6.57	6.38	122.89	185.97	2.23	168.48	153.15	13.15	13.462			
2,000.00	1,987.20	1,987.09	1,986.07	6.76	6.72	127.47	186.45	2.43	176.97	172.89	13.69	13.625			
2,100.00	2,086.18	2,086.37	2,085.33	6.96	7.07	130.19	187.87	2.55	186.58	182.32	14.24	13.801			
2,200.00	2,185.14	2,185.52	2,184.44	7.15	7.41	132.81	190.78	2.02	196.57	191.99	14.80	13.974			
2,300.00	2,284.09	2,285.88	2,284.70	7.35	7.77	135.26	194.95	0.92	206.78	201.45	15.36	14.119			
2,400.00	2,382.99	2,386.00	2,384.63	7.54	8.13	135.33	200.81	-1.15	216.81	210.66	16.48	14.334			
2,500.00	2,481.85	2,486.07	2,484.41	7.74	8.49	134.66	207.97	-3.84	226.57	228.74	17.03	14.430			
2,600.00	2,580.66	2,585.35	2,583.31	7.94	8.86	133.30	216.08	-6.85	236.16	237.76	17.58	14.523			
2,700.00	2,679.45	2,683.73	2,681.31	8.13	9.21	131.57	224.26	-9.59	245.78	246.78	18.12	14.616			
2,800.00	2,778.25	2,781.34	2,778.60	8.33	9.57	128.68	231.94	-11.60	255.34	255.70	18.69	14.680			
2,900.00	2,877.08	2,878.26	2,875.20	8.53	9.92	125.93	239.68	-12.78	264.90	263.25	19.27	14.660			
3,000.00	2,975.87	2,978.98	2,975.56	8.73	10.28	123.79	248.23	-13.64	274.39	269.49	19.84	14.586			
3,100.00	3,074.61	3,082.25	3,078.38	8.93	10.66	122.41	257.55	-15.67	282.52	274.65	20.42	14.449			
3,200.00	3,173.35	3,182.53	3,178.23	9.12	11.02	121.14	266.47	-18.55	289.33	278.57	20.99	14.274			
3,300.00	3,272.11	3,288.47	3,283.68	9.32	11.40	124.30	275.69	-22.51	295.07	283.48	21.56	14.147			
3,400.00	3,370.95	3,390.06	3,384.73	9.52	11.77	125.02	284.73	-28.00	299.55	292.20	22.11	14.214			
3,500.00	3,469.86	3,485.97	3,480.09	9.76	12.12	140.31	293.65	-32.86	305.04	301.18	22.67	14.285			
3,600.00	3,568.72	3,582.00	3,575.59	9.97	12.47	141.24	303.00	-36.49	314.32	309.63	23.24	14.325			
3,700.00	3,667.55	3,681.71	3,674.75	10.18	12.84	137.23	313.04	-39.67	323.86	319.74	23.79	14.441			
3,800.00	3,766.44	3,783.00	3,775.45	10.38	13.21	144.79	323.28	-43.27	332.87	319.74	24.19	14.737			
3,900.00	3,865.32	3,880.84	3,872.76	10.63	13.56	159.33	332.83	-46.86	343.53	345.53	24.39	15.165			
4,000.00	3,964.02	3,980.15	3,971.56	10.84	13.77	156.40	342.34	-50.06	356.48	359.25	24.61	15.599			
4,100.00	4,062.53	4,080.67	4,071.69	11.05	13.78	156.43	350.42	-53.51	369.92	372.79	24.83	16.014			
4,200.00	4,160.91	4,179.54	4,170.25	11.26	13.80	155.87	357.45	-56.97	383.85	385.87	25.06	16.396			
4,300.00	4,259.37	4,277.61	4,268.04	11.48	13.83	156.92	364.14	-60.17	397.62	406.67	25.31	16.692			
4,400.00	4,357.97	4,376.85	4,367.04	11.69	13.87	155.08	370.51	-63.18	410.93	414.50	25.56	16.908			
4,500.00	4,456.67	4,475.68	4,465.57	11.93	13.92	143.84	377.42	-66.33	422.54	427.10	25.82	17.055			
4,600.00	4,555.52	4,572.87	4,562.42	12.14	13.97	136.57	384.95	-69.19	432.23	432.25	26.07	17.150			
4,700.00	4,654.60	4,671.27	4,660.43	12.33	14.04	131.66	393.35	-71.67	440.31	438.87	26.33	17.228			
4,800.00	4,753.79	4,769.43	4,758.06	12.52	14.12	127.21	403.20	-74.10	447.17	443.88	26.61	17.307			
4,900.00	4,853.10	4,865.07	4,853.17	12.70	14.20	126.52	413.23	-75.94	453.57	443.88	26.61	17.307			
5,000.00	4,952.47	4,967.51	4,955.12	12.88	14.30	131.70	423.01	-77.32	460.49	443.88	26.61	17.307			

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 125H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-3_Gyro-NS_OWSG, 3964-3_MWD+HRGM													Offset Well Error:	0.00 usft
Rule Assigned:														
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	5,051.72	5,071.39	5,058.56	13.07	14.41	139.31	432.36	-79.67	468.22	441.31	26.91	17.401		
5,200.00	5,150.85	5,183.10	5,169.77	13.26	14.54	143.08	441.92	-83.96	475.93	448.69	27.24	17.471		
5,300.00	5,250.23	5,286.44	5,272.62	13.45	14.67	143.48	450.25	-89.65	480.60	453.04	27.56	17.441		
5,400.00	5,349.42	5,386.03	5,371.71	13.64	14.81	140.53	458.24	-95.49	485.89	458.01	27.88	17.426		
5,500.00	5,448.36	5,484.45	5,469.69	13.93	14.95	139.66	465.79	-100.98	492.66	464.35	28.31	17.403		
5,600.00	5,547.22	5,583.79	5,568.60	14.18	15.10	138.73	473.25	-106.36	499.84	471.14	28.70	17.417		
5,700.00	5,646.05	5,683.94	5,668.35	14.39	15.25	134.58	480.47	-111.69	506.79	477.74	29.05	17.445		
5,800.00	5,744.82	5,784.75	5,768.76	14.60	15.42	130.76	487.43	-117.26	512.77	483.36	29.41	17.434		
5,900.00	5,843.58	5,884.24	5,867.89	14.80	15.59	131.09	493.80	-122.75	518.32	488.54	29.78	17.408		
6,000.00	5,942.43	5,984.52	5,967.84	15.00	15.77	133.15	499.96	-128.21	523.76	493.62	30.14	17.375		
6,100.00	6,041.27	6,085.82	6,068.77	15.21	15.95	135.20	506.30	-134.00	529.42	498.89	30.52	17.344		
6,200.00	6,140.02	6,179.65	6,162.28	15.42	16.13	135.35	512.11	-139.23	535.77	504.87	30.90	17.341		
6,300.00	6,238.81	6,270.67	6,253.11	15.62	16.31	138.43	516.76	-142.67	543.76	512.50	31.26	17.395		
6,400.00	6,337.75	6,367.76	6,350.07	15.82	16.50	139.03	521.09	-145.17	552.51	520.87	31.64	17.464		
6,500.00	6,436.81	6,463.27	6,445.47	16.02	16.69	141.82	525.18	-147.48	561.01	529.01	32.01	17.526		
6,600.00	6,535.79	6,557.78	6,539.83	16.22	16.88	143.10	530.36	-148.74	571.34	538.95	32.39	17.641		
6,700.00	6,634.61	6,657.76	6,639.60	16.42	17.10	146.14	536.67	-149.78	583.23	550.43	32.80	17.783		
6,800.00	6,733.38	6,754.59	6,736.26	16.63	17.31	146.96	542.36	-150.91	595.43	562.23	33.20	17.935		
6,900.00	6,832.33	6,847.95	6,829.53	16.83	17.51	153.65	546.22	-151.11	608.03	574.44	33.58	18.105		
7,000.00	6,931.52	6,945.09	6,926.63	17.02	17.72	153.96	549.17	-150.50	620.21	586.23	33.98	18.253		
7,100.00	7,031.09	7,044.87	7,026.36	17.21	17.94	150.87	552.20	-149.87	629.14	594.75	34.39	18.294		
7,200.00	7,131.03	7,140.33	7,121.79	17.42	18.16	105.05	554.53	-149.03	632.33	597.62	34.71	18.216		
7,300.00	7,231.02	7,235.68	7,217.11	17.52	18.36	88.29	554.83	-147.23	634.30	599.32	34.98	18.135		
7,400.00	7,331.02	7,332.97	7,314.37	17.62	18.57	91.67	553.66	-144.83	636.73	601.49	35.24	18.069		
7,500.00	7,431.01	7,433.28	7,414.64	17.73	18.78	101.57	552.70	-142.13	639.47	603.95	35.53	18.000		
7,600.00	7,531.00	7,533.06	7,514.38	17.84	19.00	115.05	551.74	-139.57	642.40	606.57	35.83	17.929		
7,700.00	7,631.00	7,636.98	7,618.26	17.95	19.23	132.66	550.62	-137.08	645.33	609.16	36.17	17.843		
7,800.00	7,730.99	7,740.46	7,721.72	18.05	19.47	135.84	549.45	-135.31	647.75	611.24	36.51	17.741		
7,900.00	7,830.99	7,840.05	7,821.30	18.15	19.70	167.17	548.62	-133.86	650.01	613.16	36.85	17.640		
8,000.00	7,930.98	7,945.17	7,926.41	18.22	19.95	-153.32	547.95	-132.71	652.03	614.83	37.20	17.527		
8,100.00	8,030.98	8,043.04	8,024.26	18.24	20.18	-121.35	546.72	-131.82	653.50	616.00	37.50	17.426		
8,200.00	8,130.97	8,144.45	8,125.66	18.25	20.42	-138.29	545.07	-130.92	655.26	617.45	37.82	17.328		
8,300.00	8,230.95	8,243.89	8,225.08	18.57	20.67	40.81	543.38	-129.78	656.05	617.80	38.24	17.154		
8,400.00	8,330.88	8,360.81	8,341.99	18.64	20.96	42.06	542.75	-130.61	652.52	613.94	38.58	16.915		
8,500.00	8,430.83	8,460.34	8,441.51	18.68	21.22	37.36	542.94	-132.47	648.14	609.31	38.83	16.692		
8,600.00	8,530.80	8,555.11	8,536.26	18.71	21.47	27.98	542.81	-133.62	644.72	605.67	39.06	16.507		
8,700.00	8,630.77	8,653.06	8,634.21	18.73	21.72	17.00	542.58	-134.20	642.16	602.87	39.29	16.344		
8,800.00	8,730.76	8,753.30	8,734.46	18.74	21.99	16.98	542.44	-134.78	640.14	600.61	39.54	16.192		
8,900.00	8,830.76	8,852.30	8,833.45	18.74	22.25	-13.56	542.08	-135.30	638.63	598.86	39.77	16.056		
9,000.00	8,930.75	8,950.60	8,931.74	18.72	22.51	-23.08	541.82	-135.59	637.39	597.39	40.01	15.933		
9,100.00	9,030.74	9,051.95	9,033.09	18.70	22.78	-51.74	541.40	-135.75	636.14	595.88	40.26	15.800		
9,198.10	9,128.84	9,152.45	9,133.59	18.68	23.05	-118.72	540.85	-136.34	635.60	595.03	40.56	15.670		
9,200.00	9,130.74	9,154.38	9,135.52	18.68	23.06	-119.42	540.84	-136.36	635.75	595.18	40.57	15.671		
9,300.00	9,230.72	9,255.88	9,237.02	18.68	23.34	-121.11	540.28	-137.24	635.88	594.98	40.90	15.547		
9,400.00	9,330.70	9,356.35	9,337.48	18.68	23.62	-111.25	539.53	-138.29	635.75	594.52	41.23	15.421		
9,500.00	9,430.67	9,456.47	9,437.60	18.67	23.90	-110.69	539.05	-139.37	635.36	593.81	41.55	15.293		
9,545.61	9,476.27	9,502.04	9,483.16	18.66	24.03	-115.41	538.78	-139.86	635.30	593.60	41.70	15.237		
9,600.00	9,530.64	9,556.32	9,537.43	18.66	24.18	-119.93	538.36	-140.44	635.35	593.47	41.87	15.173		
9,700.00	9,630.59	9,660.80	9,641.90	18.67	24.47	-128.70	537.51	-141.88	635.69	593.46	42.23	15.053		
9,800.00	9,730.54	9,762.42	9,743.50	18.69	24.77	-142.58	536.71	-143.80	636.09	593.49	42.60	14.933		
9,900.00	9,830.48	9,866.75	9,847.79	18.74	25.07	-152.14	535.78	-146.31	636.60	593.61	42.99	14.808		
10,000.00	9,930.42	9,965.50	9,946.50	18.80	25.35	-151.34	534.34	-148.99	637.03	593.66	43.37	14.687		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 125H - OH - OH													Offset Site Error:	0.00 usft	
Survey Program: 100-3_Gyro-NS_OWSG, 3964-3_MWD+HRGM													Offset Well Error:	0.00 usft	
Rule Assigned:															
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,100.00	10,030.33	10,057.89	10,038.87	18.85	25.62	-146.95	533.86	-150.66	638.87	595.13	43.73	14.608			
10,200.00	10,130.19	10,160.39	10,141.35	18.91	25.93	-153.05	535.09	-152.22	641.89	597.76	44.14	14.544			
10,300.00	10,229.97	10,261.83	10,242.75	18.99	26.23	-152.72	536.79	-154.38	645.75	601.21	44.54	14.497			
10,400.00	10,329.68	10,355.11	10,335.98	19.05	26.52	-138.95	539.68	-155.77	650.58	605.67	44.91	14.487			
10,500.00	10,429.39	10,458.58	10,439.42	19.09	26.83	-123.11	541.61	-157.01	654.42	609.13	45.29	14.450			
10,600.00	10,529.12	10,551.93	10,532.76	19.11	27.11	-126.25	541.07	-157.97	657.53	611.91	45.61	14.415			
10,700.00	10,628.94	10,631.59	10,612.15	19.14	27.34	-131.85	535.17	-156.87	662.24	616.35	45.89	14.431			
10,800.00	10,728.88	10,719.00	10,698.03	19.17	27.57	-134.01	519.74	-152.67	668.35	622.15	46.20	14.466			
10,900.00	10,828.84	10,797.63	10,772.86	19.23	27.77	-158.85	496.43	-147.31	676.78	630.30	46.48	14.562			
11,000.00	10,928.83	10,901.14	10,863.98	19.32	28.02	165.01	448.41	-139.09	688.75	641.90	46.86	14.699			
11,100.00	11,028.81	10,983.83	10,928.66	19.44	28.20	151.01	397.13	-137.44	701.01	653.87	47.15	14.868			
11,200.00	11,128.80	11,035.00	10,963.13	19.56	28.31	148.90	359.36	-136.90	721.23	673.92	47.31	15.246			
11,300.00	11,228.77	11,067.13	10,982.30	19.68	28.38	162.53	333.59	-136.53	751.06	703.66	47.39	15.848			
11,400.00	11,328.75	11,096.21	10,997.99	19.79	28.44	-162.45	309.10	-136.10	790.26	742.78	47.48	16.645			
11,500.00	11,428.49	11,130.00	11,014.12	20.94	28.51	-70.84	279.43	-135.49	836.19	787.67	48.52	17.234			
11,600.00	11,525.17	11,157.07	11,025.42	21.69	28.57	-58.86	254.84	-135.13	881.17	832.17	49.00	17.983			
11,700.00	11,617.80	11,193.23	11,038.31	21.72	28.65	-52.98	221.07	-135.21	924.95	876.00	48.94	18.898			
11,800.00	11,705.23	11,225.00	11,047.49	21.90	28.72	-45.62	190.66	-135.80	966.94	917.91	49.03	19.721			
11,900.00	11,783.36	11,263.38	11,055.84	22.16	28.81	-41.22	153.24	-137.18	1,002.42	953.17	49.25	20.353			
12,000.00	11,851.85	11,321.00	11,062.68	22.38	28.95	-41.83	96.17	-140.65	1,037.19	987.75	49.44	20.979			
12,100.00	11,909.84	11,321.00	11,062.68	22.67	28.95	-38.02	96.17	-140.65	1,069.50	1,019.72	49.79	21.482			
12,200.00	11,951.37	11,384.74	11,065.05	22.90	29.12	-34.55	32.60	-144.40	1,088.70	1,038.51	50.18	21.694			
12,300.00	11,975.92	11,441.13	11,064.97	23.11	29.28	-33.21	-23.77	-146.17	1,096.97	1,046.28	50.68	21.643			
12,400.00	11,985.05	11,512.00	11,063.07	23.37	29.52	-32.53	-94.59	-147.82	1,096.32	1,045.18	51.13	21.441			
12,500.00	11,987.32	11,597.91	11,059.17	23.67	29.86	-31.65	-180.40	-148.88	1,092.61	1,041.23	51.38	21.267			
12,560.58	11,989.27	11,656.42	11,056.62	23.92	30.12	-31.25	-238.85	-149.18	1,091.62	1,040.04	51.57	21.167			
12,600.00	11,990.72	11,691.80	11,055.08	24.08	30.29	-31.04	-274.21	-149.18	1,091.93	1,040.24	51.69	21.123			
12,700.00	11,996.12	11,802.79	11,050.45	24.48	30.86	-30.37	-385.10	-148.68	1,095.84	1,043.71	52.12	21.024			
12,800.00	12,004.27	11,909.19	11,047.39	24.94	31.47	-29.71	-491.45	-149.15	1,101.13	1,048.55	52.58	20.942			
12,900.00	12,012.70	12,036.99	11,045.03	25.44	32.27	-29.00	-619.21	-150.43	1,106.68	1,053.50	53.18	20.809			
13,000.00	12,021.18	12,138.22	11,044.61	26.00	32.97	-28.59	-720.44	-151.80	1,111.93	1,058.21	53.72	20.698			
13,100.00	12,030.65	12,242.09	11,044.37	26.62	33.73	-28.17	-824.28	-153.99	1,118.30	1,063.99	54.31	20.590			
13,200.00	12,040.26	12,339.78	11,044.66	27.28	34.49	-27.86	-921.96	-155.07	1,125.44	1,070.52	54.92	20.492			
13,300.00	12,048.54	12,439.55	11,045.12	27.99	35.31	-27.61	-1,021.73	-155.81	1,131.89	1,076.31	55.58	20.365			
13,400.00	12,055.24	12,537.12	11,046.49	28.75	36.15	-27.52	-1,119.28	-154.58	1,137.24	1,080.94	56.30	20.201			
13,500.00	12,057.83	12,631.39	11,047.72	29.55	36.99	-27.59	-1,213.53	-152.92	1,139.67	1,082.62	57.05	19.975			
13,600.00	12,059.41	12,720.66	11,048.11	30.39	37.82	-27.62	-1,302.79	-151.46	1,141.42	1,083.62	57.80	19.747			
13,700.00	12,058.40	12,805.22	11,047.44	31.26	38.63	-27.67	-1,387.33	-149.92	1,141.76	1,083.20	58.57	19.495			
13,800.00	12,058.93	12,887.12	11,045.68	32.17	39.43	-27.68	-1,469.18	-147.85	1,145.17	1,085.84	59.33	19.300			
13,900.00	12,058.02	12,993.12	11,043.23	33.10	40.50	-27.83	-1,575.10	-144.60	1,148.15	1,087.85	60.30	19.041			
14,000.00	12,058.21	13,086.63	11,041.15	35.46	41.46	-27.93	-1,668.52	-141.08	1,151.29	1,090.38	60.91	18.901			
14,100.00	12,058.69	13,204.84	11,040.04	36.06	42.71	-27.65	-1,786.63	-136.16	1,150.26	1,088.36	61.90	18.582			
14,200.00	12,059.54	13,306.84	11,040.00	36.71	43.82	-27.55	-1,888.49	-131.03	1,149.92	1,087.16	62.76	18.323			
14,300.00	12,059.96	13,427.23	11,040.69	37.42	45.14	-27.55	-2,008.79	-126.40	1,149.72	1,085.82	63.90	17.992			
14,400.00	12,060.00	13,529.10	11,041.70	38.17	46.29	-27.61	-2,110.64	-124.51	1,149.20	1,084.33	64.87	17.717			
14,440.50	12,060.00	13,566.95	11,041.86	38.49	46.72	-27.63	-2,148.49	-124.01	1,149.15	1,083.93	65.22	17.618			
14,500.00	12,060.00	13,621.96	11,041.84	38.97	47.34	-27.63	-2,203.49	-123.38	1,149.27	1,083.52	65.75	17.480			
14,600.00	12,060.00	13,703.42	11,041.11	39.79	48.28	-27.63	-2,284.94	-122.33	1,150.32	1,083.80	66.52	17.294			
14,700.00	12,060.00	13,801.23	11,039.02	40.66	49.42	-27.65	-2,382.70	-120.02	1,152.93	1,085.42	67.51	17.078			
14,800.00	12,060.00	13,960.08	11,039.80	41.55	51.30	-27.69	-2,541.52	-118.25	1,152.67	1,083.41	69.26	16.643			
14,900.00	12,060.00	14,063.30	11,043.18	42.47	52.55	-27.73	-2,644.68	-118.29	1,149.38	1,078.99	70.39	16.329			
15,000.00	12,060.00	14,151.85	11,045.65	43.42	53.62	-27.77	-2,733.19	-117.96	1,146.71	1,075.33	71.37	16.066			

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 125H - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 100-3_Gyro-NS_OWSG, 3964-3_MWD+HRGM														Offset Well Error:	0.00 usft
Reference: 100-3_Gyro-NS_OWSG, 3964-3_MWD+HRGM														Rule Assigned:	
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		
15,100.00	12,060.00	14,242.60	11,047.57	44.40	54.73	-27.83	-2,823.92	-117.09	1,144.91	1,072.50	72.41	15.811			
15,200.00	12,060.00	14,331.20	11,048.89	45.40	55.82	-27.89	-2,912.50	-115.73	1,143.95	1,070.49	73.45	15.574			
15,221.34	12,060.00	14,347.99	11,049.02	45.61	56.03	-27.90	-2,929.29	-115.42	1,143.90	1,070.25	73.65	15.531			
15,300.00	12,060.00	14,414.00	11,048.87	46.42	56.85	-27.93	-2,995.28	-114.07	1,144.49	1,070.06	74.43	15.377			
15,400.00	12,060.00	14,533.83	11,048.52	47.46	58.34	-27.94	-3,115.10	-112.72	1,144.93	1,069.07	75.86	15.092			
15,500.00	12,060.00	14,648.22	11,050.61	48.51	59.78	-28.02	-3,229.46	-111.12	1,143.59	1,066.30	77.29	14.797			
15,600.00	12,060.00	14,758.76	11,054.39	49.59	61.19	-28.18	-3,339.90	-108.60	1,141.27	1,062.53	78.74	14.494			
15,700.00	12,060.00	14,865.68	11,058.01	50.68	62.55	-28.25	-3,446.76	-108.19	1,138.09	1,057.97	80.12	14.205			
15,800.00	12,060.00	14,961.85	11,060.88	51.79	63.78	-28.25	-3,542.88	-108.87	1,134.75	1,053.40	81.35	13.950			
15,900.00	12,060.00	15,061.57	11,063.42	52.91	65.07	-28.24	-3,642.56	-109.65	1,131.76	1,049.14	82.62	13.698			
16,000.00	12,060.00	15,154.47	11,065.84	54.04	66.27	-28.25	-3,735.43	-109.98	1,128.92	1,045.07	83.85	13.464			
16,100.00	12,060.00	15,245.55	11,067.62	55.19	67.45	-28.27	-3,826.50	-109.85	1,126.89	1,041.81	85.07	13.246			
16,200.00	12,060.00	15,329.48	11,068.27	56.34	68.54	-28.25	-3,910.42	-109.85	1,125.84	1,039.65	86.20	13.061			
16,212.68	12,060.00	15,339.67	11,068.23	56.49	68.68	-28.25	-3,920.61	-109.87	1,125.83	1,039.50	86.33	13.041			
16,300.00	12,060.00	15,417.67	11,067.32	57.51	69.69	-28.19	-3,998.61	-109.97	1,126.33	1,038.99	87.34	12.896			
16,400.00	12,060.00	15,510.76	11,066.08	58.68	70.92	-28.15	-4,091.69	-109.47	1,127.39	1,038.82	88.57	12.729			
16,500.00	12,060.00	15,600.81	11,064.50	59.87	72.10	-28.14	-4,181.71	-108.07	1,129.28	1,039.48	89.80	12.576			
16,600.00	12,060.00	15,689.03	11,062.20	61.06	73.27	-28.13	-4,269.88	-106.51	1,132.05	1,041.05	91.00	12.440			
16,700.00	12,060.00	15,784.20	11,058.63	62.26	74.53	-28.10	-4,364.97	-104.42	1,136.00	1,043.70	92.30	12.308			
16,800.00	12,060.00	15,898.40	11,055.60	63.47	76.05	-28.08	-4,479.11	-102.30	1,138.79	1,044.92	93.87	12.132			
16,900.00	12,060.00	16,008.11	11,052.82	64.69	77.52	-28.03	-4,588.77	-101.21	1,141.14	1,045.79	95.34	11.969			
17,000.00	12,060.00	16,143.64	11,052.71	65.91	79.33	-28.05	-4,724.29	-99.62	1,141.43	1,044.22	97.21	11.742			
17,100.00	12,060.00	16,237.64	11,054.30	67.14	80.59	-28.13	-4,818.25	-97.84	1,140.44	1,041.78	98.66	11.559			
17,200.00	12,060.00	16,353.21	11,057.59	68.37	82.16	-28.28	-4,933.75	-95.32	1,138.54	1,038.10	100.44	11.335			
17,300.00	12,060.00	16,444.66	11,060.52	69.61	83.39	-28.43	-5,025.12	-92.82	1,136.64	1,034.67	101.97	11.147			
17,400.00	12,060.00	16,534.66	11,063.05	70.85	84.62	-28.60	-5,115.02	-89.57	1,135.51	1,031.98	103.53	10.968			
17,444.00	12,060.00	16,571.59	11,063.88	71.40	85.12	-28.68	-5,151.91	-88.01	1,135.37	1,031.18	104.19	10.897			
17,500.00	12,060.00	16,622.56	11,064.72	72.10	85.81	-28.78	-5,202.82	-85.66	1,135.58	1,030.49	105.09	10.806			
17,600.00	12,060.00	16,749.89	11,067.62	73.35	87.55	-28.96	-5,330.07	-82.29	1,134.39	1,027.27	107.12	10.590			
17,700.00	12,060.00	16,866.71	11,071.80	74.61	89.14	-29.13	-5,446.77	-79.67	1,132.00	1,022.98	109.03	10.383			
17,800.00	12,060.00	16,964.36	11,075.95	75.87	90.47	-29.23	-5,544.34	-78.95	1,128.27	1,017.62	110.65	10.196			
17,900.00	12,060.00	17,051.86	11,077.75	77.14	91.67	-29.21	-5,631.81	-79.80	1,125.60	1,013.59	112.02	10.048			
18,000.00	12,060.00	17,138.68	11,078.27	78.41	92.85	-29.14	-5,718.62	-81.00	1,124.02	1,010.72	113.31	9.920			
18,100.00	12,060.00	17,242.92	11,078.05	79.68	94.27	-29.05	-5,822.85	-82.07	1,123.34	1,008.57	114.76	9.788			
18,200.00	12,060.00	17,353.84	11,079.67	80.96	95.78	-29.01	-5,933.76	-82.93	1,121.27	1,004.90	116.37	9.636			
18,300.00	12,060.00	17,457.06	11,081.59	82.23	97.20	-28.98	-6,036.96	-83.88	1,118.81	1,000.91	117.90	9.490			
18,400.00	12,060.00	17,543.15	11,082.88	83.52	98.38	-28.95	-6,123.03	-84.64	1,116.70	997.45	119.25	9.364			
18,500.00	12,060.00	17,628.45	11,082.90	84.80	99.55	-28.89	-6,208.33	-85.10	1,116.03	995.47	120.56	9.257			
18,504.45	12,060.00	17,632.29	11,082.87	84.86	99.60	-28.89	-6,212.17	-85.12	1,116.03	995.42	120.61	9.253			
18,600.00	12,060.00	17,720.87	11,081.88	86.09	100.82	-28.82	-6,300.75	-85.41	1,116.44	994.53	121.91	9.158			
18,700.00	12,060.00	17,812.16	11,080.66	87.38	102.07	-28.77	-6,392.02	-85.16	1,117.36	994.08	123.28	9.064			
18,800.00	12,060.00	17,927.63	11,079.48	88.67	103.67	-28.78	-6,507.47	-83.37	1,118.71	993.65	125.05	8.946			
18,900.00	12,060.00	18,033.75	11,080.67	89.97	105.14	-28.86	-6,613.57	-81.46	1,118.19	991.37	126.82	8.817			
19,000.00	12,060.00	18,129.49	11,081.87	91.26	106.46	-28.95	-6,709.27	-79.20	1,117.85	989.34	128.51	8.699			
19,013.00	12,060.00	18,141.00	11,082.00	91.43	106.62	-28.97	-6,720.78	-78.90	1,117.84	989.12	128.72	8.684			
19,100.00	12,060.00	18,215.86	11,082.39	92.56	107.66	-29.04	-6,795.61	-76.82	1,118.28	988.20	130.08	8.597			
19,200.00	12,060.00	18,300.27	11,081.63	93.86	108.84	-29.10	-6,879.98	-74.43	1,120.05	988.49	131.56	8.514			
19,300.00	12,060.00	18,425.15	11,080.01	95.17	110.57	-29.15	-7,004.80	-71.41	1,122.11	988.54	133.57	8.401			
19,400.00	12,060.00	18,530.01	11,080.78	96.47	112.03	-29.23	-7,109.65	-69.27	1,122.07	986.70	135.37	8.289			
19,417.07	12,060.00	18,545.15	11,080.89	96.70	112.24	-29.24	-7,124.78	-68.98	1,122.05	986.41	135.64	8.272			
19,500.00	12,060.00	18,619.00	11,080.99	97.78	113.27	-29.28	-7,198.62	-67.58	1,122.40	985.47	136.93	8.197			
19,600.00	12,060.00	18,744.38	11,082.53	99.09	115.02	-29.37	-7,323.96	-65.29	1,121.77	982.75	139.02	8.069			

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



Legacy Directional Drilling
Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 125H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-3_Gyro-NS_OWSG, 3964-3_MWD+HRGM													Offset Well Error:	0.00 usft
Rule Assigned:														
Measured Reference	Vertical Offset	Measured Offset	Vertical Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
19,700.00	12,060.00	18,840.19	11,084.92	100.40	116.36	-29.50	-7,419.71	-63.02	1,120.37	979.54	140.83	7.955		
19,800.00	12,060.00	18,928.52	11,086.64	101.71	117.59	-29.64	-7,507.99	-60.20	1,119.86	977.27	142.59	7.854		
19,804.45	12,060.00	18,932.61	11,086.70	101.77	117.65	-29.64	-7,512.07	-60.05	1,119.86	977.18	142.67	7.849		
19,900.00	12,060.00	19,025.49	11,087.84	103.02	118.95	-29.79	-7,604.88	-56.73	1,120.15	975.67	144.48	7.753		
20,000.00	12,060.00	19,140.41	11,089.12	104.34	120.56	-29.87	-7,719.77	-54.70	1,119.65	973.20	146.46	7.645		
20,100.00	12,060.00	19,248.85	11,090.06	105.65	122.07	-29.82	-7,828.21	-55.47	1,118.15	970.05	148.09	7.550		
20,200.00	12,060.00	19,340.23	11,090.59	106.97	123.34	-29.73	-7,919.57	-56.98	1,116.44	966.97	149.48	7.469		
20,286.10	12,060.00	19,414.42	11,090.01	108.11	124.37	-29.64	-7,993.75	-58.07	1,116.06	965.48	150.58	7.412		
20,300.00	12,060.00	19,427.21	11,089.87	108.29	124.55	-29.63	-8,006.53	-58.20	1,116.06	965.30	150.76	7.403		
20,400.00	12,060.00	19,517.34	11,088.61	109.61	125.81	-29.54	-8,096.66	-58.79	1,116.56	964.46	152.10	7.341		
20,500.00	12,060.00	19,622.07	11,085.91	110.93	127.27	-29.38	-8,201.35	-60.06	1,117.84	964.38	153.46	7.284		
20,596.38	12,060.00	19,724.81	11,084.79	112.21	128.70	-29.24	-8,304.07	-61.62	1,117.63	962.80	154.84	7.218		
20,600.00	12,060.00	19,728.01	11,084.75	112.26	128.74	-29.24	-8,307.27	-61.66	1,117.63	962.75	154.88	7.216		
20,700.00	12,060.00	19,841.24	11,083.77	113.58	130.32	-29.12	-8,420.49	-62.81	1,117.56	961.14	156.42	7.145		
20,800.00	12,060.00	19,940.88	11,084.52	114.90	131.72	-29.08	-8,520.11	-63.44	1,116.20	958.24	157.96	7.066		
20,871.07	12,060.00	19,999.54	11,084.71	115.85	132.54	-29.06	-8,578.78	-63.44	1,115.74	956.79	158.96	7.019		
20,900.00	12,060.00	20,022.32	11,084.59	116.23	132.86	-29.05	-8,601.55	-63.34	1,115.82	956.48	159.34	7.003		
21,000.00	12,060.00	20,101.95	11,083.23	117.56	133.98	-29.02	-8,681.17	-62.72	1,117.30	956.66	160.64	6.955		
21,100.00	12,060.00	20,190.70	11,080.20	118.88	135.22	-28.95	-8,769.87	-61.75	1,120.40	958.43	161.98	6.917		
21,200.00	12,060.00	20,285.77	11,077.20	120.21	136.56	-28.94	-8,864.86	-59.65	1,123.86	960.34	163.52	6.873		
21,300.00	12,060.00	20,374.41	11,073.95	121.54	137.81	-28.95	-8,953.40	-56.90	1,128.18	963.18	165.01	6.837		
21,400.00	12,060.00	20,475.35	11,069.31	122.87	139.23	-28.94	-9,054.19	-53.81	1,133.30	966.66	166.65	6.801		
21,500.00	12,060.00	20,604.51	11,065.08	124.20	141.05	-28.91	-9,183.25	-51.17	1,136.77	968.10	168.67	6.739		
21,600.00	12,060.00	20,724.85	11,063.84	125.54	142.75	-28.91	-9,303.57	-49.52	1,137.94	967.35	170.59	6.671		
21,700.00	12,060.00	20,818.00	11,063.63	126.87	144.06	-28.95	-9,396.70	-47.74	1,138.68	966.41	172.26	6.610		
21,800.00	12,060.00	20,913.00	11,063.59	128.20	145.40	-29.04	-9,491.65	-44.78	1,139.83	965.73	174.10	6.547		
21,900.00	12,060.00	21,009.36	11,063.85	129.54	146.77	-29.20	-9,587.91	-40.59	1,141.32	965.21	176.11	6.481		
22,000.00	12,060.00	21,105.00	11,064.26	130.87	148.12	-29.39	-9,683.43	-35.71	1,143.07	964.86	178.21	6.414		
22,100.00	12,060.00	21,200.00	11,064.34	132.21	149.47	-29.59	-9,778.29	-30.49	1,145.31	964.99	180.32	6.352		
22,200.00	12,060.00	21,297.00	11,064.11	133.54	150.85	-29.80	-9,875.11	-24.65	1,148.10	965.59	182.52	6.290		
22,259.99	12,060.00	21,356.43	11,064.04	134.34	151.69	-29.94	-9,934.43	-20.89	1,149.82	965.93	183.89	6.253 SF		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 127H - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 109-3_MWD+HRGM														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)					
0.00	0.00	0.00	0.00	0.00	0.00	8.88	160.00	25.00	161.94	160.06	1.65	98.134			
100.00	100.00	98.42	98.41	1.51	0.14	1.96	160.48	25.05	161.70	158.56	2.13	75.391			
200.00	199.97	198.05	198.04	1.66	0.47	4.03	161.60	25.17	160.69	155.81	3.03	52.373			
300.00	299.93	298.40	298.39	2.21	0.83	11.65	162.65	25.49	158.84	151.78	3.73	41.735			
400.00	399.82	398.64	398.62	2.55	1.18	30.78	163.42	26.22	155.51	146.96	4.37	34.649			
500.00	499.65	498.87	498.85	2.84	1.54	37.59	163.85	27.33	151.33	142.37	5.02	29.338			
600.00	599.45	598.70	598.66	3.18	1.89	55.82	164.10	28.62	147.40	137.89	5.73	25.047			
700.00	698.87	697.90	697.85	3.75	2.25	71.19	164.34	29.93	143.62	134.86	6.28	22.459			
800.00	798.06	796.66	796.60	3.97	2.60	78.15	164.77	31.22	141.14	133.72	6.78	20.720 CC			
890.43	887.86	886.21	886.15	4.17	2.92	83.72	165.49	32.11	140.51	133.70	6.83	20.563 ES			
900.00	897.41	895.76	895.69	4.19	2.95	84.17	165.58	32.19	140.54	133.86	7.38	19.131			
1,000.00	996.75	994.95	994.88	4.43	3.31	90.29	166.72	32.71	141.25	135.45	7.97	17.994			
1,100.00	1,095.77	1,093.98	1,093.90	4.71	3.66	95.79	168.07	33.12	143.42	137.99	8.78	16.710			
1,200.00	1,194.75	1,193.09	1,193.00	5.15	4.01	100.92	169.41	33.45	146.78	141.83	9.44	16.026			
1,300.00	1,293.76	1,292.22	1,292.12	5.43	4.37	106.67	170.69	33.80	151.27	146.92	9.99	15.712			
1,400.00	1,392.81	1,391.28	1,391.18	5.62	4.72	111.28	171.82	34.21	156.90	153.25	10.53	15.554			
1,500.00	1,491.86	1,488.90	1,488.79	5.81	5.07	116.12	172.91	35.05	163.78	161.51	11.07	15.590			
1,600.00	1,590.95	1,586.21	1,586.07	6.00	5.42	120.37	174.11	37.02	172.58	171.24	11.61	15.745			
1,700.00	1,690.07	1,684.00	1,683.81	6.19	5.77	123.49	175.47	39.80	182.85	182.90	12.14	16.070			
1,800.00	1,789.13	1,778.80	1,778.52	6.38	6.11	127.09	177.10	43.51	195.04	197.28	12.66	16.581			
1,900.00	1,888.18	1,874.07	1,873.60	6.57	6.45	129.74	179.19	49.13	209.95	213.50	13.19	17.184			
2,000.00	1,987.20	1,970.03	1,969.29	6.76	6.80	133.34	181.43	55.92	226.69	231.42	13.71	17.873			
2,100.00	2,086.18	2,065.01	2,063.93	6.96	7.15	135.32	183.62	63.65	245.13	250.64	14.25	18.584			
2,200.00	2,185.14	2,161.86	2,160.36	7.15	7.50	137.76	185.78	72.42	264.89	270.56	14.79	19.295			
2,300.00	2,284.09	2,258.17	2,256.23	7.35	7.85	140.35	187.72	81.38	285.35	291.74	15.30	20.067			
2,400.00	2,382.99	2,351.72	2,349.28	7.54	8.20	140.82	190.00	90.79	307.04	314.17	15.83	20.847			
2,500.00	2,481.85	2,446.89	2,443.82	7.74	8.55	140.73	192.84	101.31	330.00	337.09	16.37	21.596			
2,600.00	2,580.66	2,542.73	2,538.99	7.94	8.91	140.07	195.50	112.28	353.45	360.52	16.88	22.356			
2,700.00	2,679.45	2,635.98	2,631.54	8.13	9.26	138.88	198.21	123.45	377.41	384.45	17.40	23.092			
2,800.00	2,778.25	2,729.75	2,724.46	8.33	9.62	136.20	201.58	135.55	401.85	408.23	17.93	23.766			
2,900.00	2,877.08	2,824.51	2,818.29	8.53	9.98	133.54	205.16	148.32	426.16	456.04	18.47	24.397			
3,000.00	2,975.87	2,919.64	2,912.43	8.73	10.35	131.44	208.72	161.52	450.53	475.04	19.01	24.995			
3,100.00	3,074.61	3,015.01	3,006.77	8.93	10.72	130.16	212.34	175.04	475.04	499.98	19.54	25.558			
3,200.00	3,173.35	3,110.31	3,100.99	9.12	11.09	128.94	216.06	188.79	499.52	503.80	20.11	26.048			
3,300.00	3,272.11	3,209.05	3,198.60	9.32	11.48	132.15	220.24	203.09	523.91	527.58	20.66	26.533			
3,400.00	3,370.95	3,305.64	3,294.10	9.52	11.86	132.93	225.06	216.76	548.25	552.12	21.21	27.026			
3,500.00	3,469.86	3,400.06	3,387.39	9.76	12.24	148.72	230.11	230.41	573.33	579.14	21.75	27.627			
3,600.00	3,568.72	3,493.98	3,480.13	9.97	12.61	149.93	235.16	244.38	600.89	606.15	22.30	28.181			
3,700.00	3,667.55	3,590.32	3,575.22	10.18	13.00	146.05	240.49	258.93	628.45	632.75	22.86	28.678			
3,800.00	3,766.44	3,687.90	3,671.54	10.38	13.39	154.12	245.95	273.49	655.61	660.27	23.44	29.173			
3,900.00	3,865.32	3,787.92	3,770.35	10.63	13.79	169.43	251.46	288.06	683.70	689.17	23.96	29.768			
4,000.00	3,964.02	3,880.82	3,862.11	10.84	14.16	166.76	257.25	301.36	713.13	719.28	24.51	30.348			
4,100.00	4,062.53	3,977.52	3,957.47	11.05	14.55	166.69	264.60	315.55	743.79	749.46	25.11	30.853			
4,200.00	4,160.91	4,079.93	4,058.60	11.26	14.96	165.86	271.98	329.91	774.56	778.99	25.62	31.407			
4,300.00	4,259.37	4,170.92	4,148.45	11.48	15.33	166.68	279.13	342.33	804.60	808.11	26.19	31.861			
4,400.00	4,357.97	4,269.65	4,245.80	11.69	15.73	164.44	288.09	356.17	834.30	835.39	26.77	32.210			
4,500.00	4,456.67	4,369.57	4,344.42	11.93	16.13	152.56	296.93	369.58	862.16	860.19	27.37	32.433			
4,600.00	4,555.52	4,472.73	4,446.36	12.14	16.55	144.90	305.55	382.84	887.55	883.56	27.81	32.774			
4,700.00	4,654.60	4,553.07	4,525.70	12.33	16.87	139.83	312.29	393.55	911.36	906.97	28.30	33.044			
4,800.00	4,753.79	4,642.93	4,614.22	12.52	17.24	135.39	320.07	406.92	935.27	929.68	28.83	33.247			
4,900.00	4,853.10	4,737.32	4,707.19	12.70	17.63	134.90	327.62	421.32	958.50	953.18	29.26	33.577			
5,000.00	4,952.47	4,818.17	4,786.80	12.88	17.97	140.28	333.30	434.23	982.44						

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 127H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 109-3_MWD+HRGM											Rule Assigned:		Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Offset Wellbore Centre		Distance			Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
5,100.00	5,051.72	4,895.38	4,862.62	13.07	18.30	148.08	337.66	448.16	1,010.07	980.41	29.67	34.049		
5,200.00	5,150.85	4,979.21	4,944.79	13.26	18.65	152.29	340.35	464.53	1,040.63	1,010.50	30.13	34.534		
5,300.00	5,250.23	5,087.79	5,051.23	13.45	19.11	153.19	342.30	485.86	1,069.95	1,039.18	30.77	34.767		
5,400.00	5,349.42	5,224.58	5,186.11	13.64	19.67	150.48	342.92	508.60	1,097.38	1,065.76	31.61	34.714		
5,500.00	5,448.36	5,338.37	5,298.77	13.93	20.13	149.83	343.11	524.57	1,123.81	1,091.45	32.36	34.730		
5,600.00	5,547.22	5,446.31	5,405.83	14.18	20.55	149.07	343.02	538.34	1,149.41	1,116.39	33.02	34.808		
5,700.00	5,646.05	5,541.96	5,500.75	14.39	20.92	144.87	343.20	550.14	1,174.46	1,140.89	33.57	34.990		
5,800.00	5,744.82	5,624.80	5,582.92	14.60	21.25	140.79	343.82	560.61	1,199.37	1,165.34	34.04	35.239		
5,900.00	5,843.58	5,704.26	5,661.59	14.80	21.57	140.90	345.02	571.69	1,225.25	1,190.77	34.48	35.531		
6,000.00	5,942.43	5,780.67	5,737.00	15.00	21.88	142.74	347.09	583.85	1,252.64	1,217.73	34.91	35.880		
6,100.00	6,041.27	5,873.72	5,828.58	15.21	22.27	144.50	350.98	599.80	1,281.52	1,246.07	35.45	36.149		
6,200.00	6,140.02	5,971.26	5,924.65	15.42	22.68	144.34	355.19	616.16	1,310.55	1,274.53	36.02	36.379		
6,300.00	6,238.81	6,062.04	6,014.01	15.62	23.07	147.16	359.47	631.60	1,339.69	1,303.14	36.55	36.651		
6,400.00	6,337.75	6,156.42	6,106.81	15.82	23.47	147.36	364.63	648.02	1,368.60	1,331.50	37.10	36.888		
6,500.00	6,436.81	6,272.23	6,220.80	16.02	23.96	149.84	370.70	667.54	1,396.54	1,358.76	37.78	36.962		
6,600.00	6,535.79	6,375.97	6,323.20	16.22	24.39	150.85	374.84	683.55	1,423.74	1,385.36	38.39	37.091		
6,700.00	6,634.61	6,473.54	6,419.55	16.42	24.79	153.77	378.87	698.44	1,451.97	1,413.02	38.95	37.274		
6,800.00	6,733.38	6,567.21	6,512.08	16.63	25.18	154.43	381.91	712.67	1,480.63	1,441.13	39.50	37.485		
6,900.00	6,832.33	6,663.09	6,606.83	16.83	25.57	161.14	383.99	727.25	1,508.73	1,468.68	40.05	37.670		
7,000.00	6,931.52	6,754.65	6,697.28	17.02	25.95	161.27	386.17	741.30	1,535.62	1,495.04	40.57	37.848		
7,100.00	7,031.09	6,843.75	6,785.23	17.21	26.32	158.13	388.49	755.36	1,559.59	1,518.50	41.09	37.958		
7,200.00	7,131.03	6,941.57	6,881.76	17.42	26.73	112.37	390.45	771.09	1,577.84	1,536.25	41.59	37.940		
7,300.00	7,231.02	7,039.89	6,978.82	17.52	27.13	95.51	391.11	786.73	1,593.85	1,551.82	42.03	37.921		
7,400.00	7,331.02	7,148.16	7,085.75	17.62	27.58	98.64	391.93	803.75	1,609.59	1,567.06	42.53	37.850		
7,500.00	7,431.01	7,247.46	7,183.86	17.73	27.98	108.30	392.77	818.97	1,625.02	1,582.04	42.98	37.813		
7,600.00	7,531.00	7,351.33	7,286.53	17.84	28.41	121.57	393.41	834.71	1,640.57	1,597.10	43.46	37.746		
7,700.00	7,631.00	7,445.68	7,379.78	17.95	28.79	138.97	394.14	849.02	1,656.26	1,612.35	43.91	37.720		
7,800.00	7,730.99	7,549.41	7,482.32	18.05	29.22	141.93	394.98	864.76	1,672.12	1,627.70	44.41	37.649		
7,900.00	7,830.99	7,663.94	7,595.63	18.15	29.68	173.12	395.70	881.35	1,687.36	1,642.38	44.98	37.517		
8,000.00	7,930.98	7,780.98	7,711.56	18.22	30.15	-147.49	397.27	897.34	1,701.80	1,656.27	45.53	37.375		
8,100.00	8,030.98	7,908.50	7,838.08	18.24	30.66	-115.69	400.15	913.02	1,714.40	1,668.29	46.11	37.183		
8,200.00	8,130.97	8,047.02	7,975.88	18.25	31.19	-132.87	403.10	926.80	1,724.80	1,678.09	46.71	36.925		
8,300.00	8,230.95	8,134.06	8,062.49	18.57	31.52	45.81	404.89	935.15	1,733.91	1,686.68	47.23	36.710		
8,400.00	8,330.88	8,228.57	8,156.49	18.64	31.88	46.72	407.32	944.68	1,741.24	1,693.65	47.59	36.587		
8,500.00	8,430.83	8,322.52	8,249.92	18.68	32.25	41.89	409.16	954.39	1,749.08	1,701.15	47.93	36.493		
8,600.00	8,530.80	8,417.06	8,343.89	18.71	32.61	32.37	411.47	964.55	1,757.55	1,709.29	48.26	36.417		
8,700.00	8,630.77	8,523.06	8,449.23	18.73	33.02	21.25	414.53	975.91	1,766.15	1,717.52	48.64	36.314		
8,800.00	8,730.76	8,638.39	8,563.92	18.74	33.47	21.07	417.88	987.60	1,774.68	1,725.63	49.04	36.185		
8,900.00	8,830.76	8,758.60	8,683.57	18.74	33.92	-9.62	421.76	998.47	1,782.50	1,733.04	49.47	36.036		
9,000.00	8,930.75	8,870.45	8,795.01	18.72	34.34	-19.24	424.67	1,007.50	1,789.43	1,739.59	49.84	35.903		
9,100.00	9,030.74	9,001.82	8,926.03	18.70	34.82	-48.01	427.89	1,016.58	1,795.04	1,744.75	50.29	35.693		
9,200.00	9,130.74	9,123.75	9,047.75	18.68	35.26	-115.77	430.96	1,022.98	1,800.24	1,749.50	50.74	35.479		
9,300.00	9,230.72	9,270.30	9,194.15	18.68	35.77	-117.56	434.40	1,028.41	1,804.82	1,753.54	51.28	35.196		
9,400.00	9,330.70	9,379.96	9,303.77	18.68	36.14	-107.74	436.70	1,030.63	1,807.54	1,755.84	51.70	34.965		
9,500.00	9,430.67	9,485.11	9,408.89	18.67	36.49	-107.18	438.88	1,031.90	1,809.18	1,757.09	52.09	34.732		
9,600.00	9,530.64	9,582.33	9,506.08	18.66	36.82	-116.40	440.71	1,033.54	1,811.69	1,759.22	52.47	34.527		
9,700.00	9,630.59	9,720.32	9,644.05	18.67	37.27	-125.19	442.77	1,034.04	1,813.55	1,760.59	52.95	34.249		
9,800.00	9,730.54	9,815.03	9,738.75	18.69	37.57	-139.04	444.23	1,033.40	1,814.95	1,761.61	53.34	34.025		
9,900.00	9,830.48	9,917.95	9,841.65	18.74	37.90	-148.64	446.13	1,033.01	1,817.31	1,763.54	53.77	33.798		
10,000.00	9,930.42	10,003.64	9,957.33	18.80	38.25	-147.90	446.95	1,031.76	1,819.26	1,765.04	54.22	33.554		
10,100.00	10,030.33	10,119.60	10,043.28	18.85	38.51	-143.44	446.90	1,030.93	1,821.81	1,767.20	54.60	33.364		
10,200.00	10,130.19	10,208.73	10,132.41	18.91	38.79	-149.26	446.88	1,030.69	1,825.86	1,770.86	55.00	33.198		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 127H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 109-3_MWD+HRGM										Rule Assigned:			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	
10,300.00	10,229.97	10,290.93	10,214.61	18.99	39.05	-148.56	446.45	1,030.95	1,831.91	1,776.52	55.39	33.071		
10,400.00	10,329.68	10,372.12	10,295.79	19.05	39.30	-134.26	445.70	1,032.01	1,839.11	1,783.34	55.77	32.975		
10,500.00	10,429.39	10,462.11	10,385.75	19.09	39.60	-117.83	444.27	1,033.94	1,845.72	1,789.57	56.15	32.871		
10,600.00	10,529.12	10,559.00	10,482.59	19.11	39.92	-120.68	442.38	1,036.29	1,851.78	1,795.25	56.53	32.756		
10,700.00	10,628.94	10,620.23	10,543.49	19.14	40.11	-126.42	436.94	1,038.32	1,858.69	1,801.86	56.83	32.708		
10,800.00	10,728.88	10,680.39	10,602.01	19.17	40.29	-129.40	423.47	1,041.20	1,866.37	1,809.25	57.12	32.674		
10,900.00	10,828.84	10,750.00	10,666.64	19.23	40.48	-155.42	398.20	1,045.53	1,876.48	1,819.04	57.44	32.668		
11,000.00	10,928.83	10,781.71	10,694.75	19.32	40.56	164.84	383.72	1,047.94	1,889.04	1,831.39	57.66	32.764		
11,100.00	11,028.81	10,846.00	10,749.30	19.44	40.72	147.58	350.32	1,054.08	1,904.93	1,846.97	57.96	32.867		
11,200.00	11,128.80	10,868.44	10,767.53	19.56	40.76	142.77	337.45	1,056.49	1,923.38	1,865.27	58.11	33.100		
11,300.00	11,228.77	10,925.54	10,812.07	19.68	40.89	155.36	302.23	1,062.43	1,945.15	1,886.79	58.36	33.329		
11,400.00	11,328.75	10,991.09	10,859.83	19.79	41.01	-170.32	257.81	1,068.67	1,969.70	1,911.07	58.63	33.595		
11,500.00	11,428.49	11,037.00	10,891.28	20.94	41.09	-81.86	224.57	1,072.34	1,995.39	1,935.41	59.99	33.264		
11,600.00	11,525.17	11,078.81	10,918.00	21.69	41.15	-72.47	192.59	1,075.62	2,018.64	1,957.95	60.69	33.261		
11,700.00	11,617.80	11,133.00	10,949.07	21.72	41.24	-68.63	148.48	1,080.44	2,039.76	1,979.09	60.67	33.621		
11,800.00	11,705.23	11,133.00	10,949.07	21.90	41.24	-63.68	148.48	1,080.44	2,057.67	1,997.18	60.49	34.018		
11,900.00	11,783.36	11,193.71	10,979.28	22.16	41.32	-61.61	96.16	1,086.14	2,068.76	2,008.20	60.56	34.159		
12,000.00	11,851.85	11,228.00	10,994.30	22.38	41.38	-65.70	65.49	1,089.29	2,079.92	2,019.27	60.64	34.298		
12,100.00	11,909.84	11,269.26	11,010.40	22.67	41.44	-62.32	27.73	1,093.37	2,091.51	2,030.66	60.85	34.373		
12,200.00	11,951.37	11,323.00	11,028.10	22.90	41.53	-60.73	-22.60	1,099.69	2,092.17	2,031.15	61.02	34.286		
12,300.00	11,975.92	11,347.28	11,034.78	23.11	41.58	-61.64	-45.76	1,102.65	2,084.67	2,023.55	61.12	34.108		
12,400.00	11,985.05	11,419.00	11,048.90	23.37	41.72	-62.68	-115.66	1,109.80	2,073.63	2,012.17	61.45	33.743		
12,500.00	11,987.32	11,458.08	11,053.54	23.67	41.80	-62.67	-154.32	1,113.07	2,061.87	2,000.27	61.60	33.473		
12,600.00	11,990.72	11,515.00	11,057.58	24.08	41.94	-62.94	-210.88	1,117.98	2,055.55	1,993.58	61.98	33.167		
12,629.86	11,992.00	11,526.39	11,058.05	24.20	41.97	-62.94	-222.21	1,118.99	2,055.37	1,993.31	62.06	33.121		
12,700.00	11,996.12	11,583.41	11,060.09	24.48	42.12	-62.94	-278.96	1,124.11	2,056.16	1,993.77	62.39	32.957		
12,800.00	12,004.27	11,701.49	11,062.97	24.94	42.50	-62.86	-396.55	1,134.49	2,059.53	1,996.41	63.13	32.625		
12,900.00	12,012.70	11,944.51	11,064.69	25.44	43.44	-62.42	-639.35	1,142.51	2,061.04	1,996.43	64.61	31.901		
13,000.00	12,021.18	12,054.23	11,064.29	26.00	43.92	-62.19	-749.06	1,141.07	2,060.51	1,994.99	65.53	31.444		
13,072.50	12,027.88	12,144.71	11,064.75	26.45	44.36	-61.99	-839.52	1,138.95	2,060.25	1,993.94	66.31	31.070		
13,100.00	12,030.65	12,170.02	11,064.92	26.62	44.48	-61.94	-864.82	1,138.32	2,060.38	1,993.82	66.56	30.953		
13,200.00	12,040.26	12,259.71	11,065.12	27.28	44.95	-61.74	-954.49	1,136.15	2,061.59	1,994.06	67.54	30.526		
13,300.00	12,048.54	12,344.30	11,064.37	27.99	45.43	-61.53	-1,039.05	1,134.14	2,063.64	1,995.09	68.55	30.103		
13,400.00	12,055.24	12,428.15	11,062.62	28.75	45.93	-61.32	-1,122.86	1,132.43	2,066.16	1,996.52	69.63	29.672		
13,500.00	12,057.83	12,519.56	11,059.96	29.55	46.51	-61.16	-1,214.22	1,130.69	2,068.04	1,997.20	70.84	29.193		
13,600.00	12,059.41	12,607.11	11,057.71	30.39	47.09	-61.04	-1,301.73	1,129.63	2,068.93	1,996.85	72.08	28.703		
13,602.75	12,059.41	12,609.16	11,057.67	30.41	47.10	-61.04	-1,303.77	1,129.62	2,068.94	1,996.82	72.12	28.689		
13,700.00	12,058.40	12,690.00	11,055.87	31.26	47.67	-61.02	-1,384.60	1,129.78	2,069.04	1,995.68	73.36	28.203		
13,800.00	12,058.93	12,770.98	11,053.79	32.17	48.26	-60.95	-1,465.54	1,130.57	2,071.11	1,996.43	74.68	27.733		
13,900.00	12,058.02	12,864.86	11,051.52	33.10	48.98	-60.95	-1,559.39	1,131.95	2,073.70	1,997.55	76.15	27.233		
14,000.00	12,058.21	12,962.45	11,051.24	35.46	49.76	-60.96	-1,656.94	1,134.76	2,075.07	1,997.54	77.52	26.767		
14,100.00	12,058.69	13,044.19	11,052.17	36.06	50.43	-60.86	-1,738.60	1,138.15	2,070.57	1,991.81	78.76	26.289		
14,200.00	12,059.54	13,169.57	11,053.54	36.71	51.51	-60.87	-1,863.84	1,143.61	2,067.80	1,987.30	80.50	25.688		
14,284.74	12,059.92	13,255.54	11,055.17	37.31	52.27	-60.91	-1,949.74	1,146.82	2,066.79	1,984.96	81.83	25.256		
14,300.00	12,059.96	13,263.00	11,055.32	37.42	52.33	-60.92	-1,957.20	1,147.10	2,066.83	1,984.83	82.00	25.206		
14,400.00	12,060.00	13,341.67	11,056.40	38.17	53.05	-60.97	-2,035.79	1,150.38	2,068.90	1,985.50	83.40	24.808		
14,500.00	12,060.00	13,454.43	11,057.41	38.97	54.09	-61.05	-2,148.42	1,155.57	2,071.81	1,986.62	85.19	24.320		
14,600.00	12,060.00	13,596.93	11,060.11	39.79	55.45	-61.16	-2,290.83	1,159.73	2,072.58	1,985.24	87.33	23.732		
14,700.00	12,060.00	13,723.49	11,062.81	40.66	56.68	-61.23	-2,417.35	1,161.62	2,072.13	1,982.78	89.35	23.191		
14,800.00	12,060.00	13,837.00	11,065.80	41.55	57.80	-61.30	-2,530.81	1,161.86	2,070.28	1,979.00	91.28	22.682		
14,900.00	12,060.00	13,973.22	11,068.88	42.47	59.18	-61.34	-2,666.99	1,160.82	2,067.82	1,974.38	93.44	22.130		
15,000.00	12,060.00	14,080.79	11,071.19	43.42	60.27	-61.35	-2,774.50	1,158.34	2,064.04	1,968.69	95.36	21.645		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 127H - OH - OH													Offset Site Error:	0.00 usft				
Survey Program: 109-3_MWD+HRGM													Offset Well Error:	0.00 usft				
Reference				Offset			Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
15,100.00	12,060.00	14,165.47	11,072.60	44.40	61.15	-61.35	-2,859.16	1,156.47	2,060.63	1,963.54	97.09	21.223						
15,200.00	12,060.00	14,247.45	11,073.26	45.40	62.01	-61.34	-2,941.12	1,155.16	2,058.12	1,959.30	98.82	20.826						
15,300.00	12,060.00	14,348.04	11,073.60	46.42	63.08	-61.33	-3,041.70	1,154.04	2,056.28	1,955.53	100.75	20.410						
15,400.00	12,060.00	14,466.80	11,078.05	47.46	64.37	-61.41	-3,160.37	1,153.35	2,053.19	1,950.26	102.93	19.947						
15,500.00	12,060.00	14,554.96	11,081.72	48.51	65.35	-61.49	-3,248.46	1,153.33	2,050.48	1,945.62	104.86	19.555						
15,600.00	12,060.00	14,650.96	11,085.03	49.59	66.42	-61.57	-3,344.40	1,153.36	2,048.16	1,941.29	106.87	19.165						
15,700.00	12,060.00	14,746.48	11,087.97	50.68	67.50	-61.63	-3,439.87	1,153.29	2,045.92	1,937.02	108.90	18.787						
15,800.00	12,060.00	14,834.13	11,089.85	51.79	68.49	-61.66	-3,527.50	1,153.22	2,044.14	1,933.28	110.86	18.439						
15,900.00	12,060.00	14,917.43	11,090.96	52.91	69.45	-61.69	-3,610.80	1,153.47	2,043.07	1,930.28	112.79	18.114						
15,961.00	12,060.00	14,965.45	11,091.30	53.60	70.00	-61.69	-3,658.81	1,153.86	2,042.87	1,928.93	113.94	17.930						
16,000.00	12,060.00	14,999.63	11,091.40	54.04	70.40	-61.70	-3,692.99	1,154.26	2,042.94	1,928.23	114.71	17.810						
16,100.00	12,060.00	15,111.48	11,092.52	55.19	71.71	-61.73	-3,804.83	1,155.47	2,042.69	1,925.73	116.97	17.464						
16,200.00	12,060.00	15,214.53	11,092.91	56.34	72.92	-61.74	-3,907.87	1,156.40	2,042.61	1,923.48	119.14	17.145						
16,300.00	12,060.00	15,332.95	11,094.62	57.51	74.32	-61.77	-4,026.27	1,156.44	2,041.18	1,919.69	121.49	16.801						
16,400.00	12,060.00	15,430.07	11,096.19	58.68	75.48	-61.80	-4,123.38	1,156.72	2,039.96	1,916.31	123.65	16.498						
16,500.00	12,060.00	15,534.67	11,097.95	59.87	76.74	-61.84	-4,227.97	1,156.88	2,038.59	1,912.69	125.90	16.193						
16,600.00	12,060.00	15,625.38	11,099.27	61.06	77.84	-61.86	-4,318.67	1,156.92	2,037.25	1,909.23	128.02	15.914						
16,700.00	12,060.00	15,710.14	11,100.16	62.26	78.87	-61.88	-4,403.43	1,157.44	2,036.59	1,906.50	130.09	15.656						
16,735.68	12,060.00	15,740.20	11,100.44	62.69	79.24	-61.89	-4,433.48	1,157.78	2,036.54	1,905.72	130.82	15.567						
16,800.00	12,060.00	15,799.73	11,100.96	63.47	79.97	-61.91	-4,493.00	1,158.64	2,036.64	1,904.42	132.22	15.404						
16,900.00	12,060.00	15,897.13	11,101.85	64.69	81.18	-61.94	-4,590.38	1,160.25	2,036.96	1,902.51	134.45	15.150						
17,000.00	12,060.00	16,001.93	11,103.85	65.91	82.48	-62.01	-4,695.14	1,162.52	2,037.27	1,900.47	136.80	14.893						
17,100.00	12,060.00	16,098.11	11,105.60	67.14	83.68	-62.07	-4,791.28	1,164.33	2,037.37	1,898.31	139.06	14.651						
17,200.00	12,060.00	16,182.23	11,106.70	68.37	84.74	-62.11	-4,875.38	1,166.20	2,038.04	1,896.84	141.20	14.434						
17,300.00	12,060.00	16,264.84	11,106.85	69.61	85.79	-62.13	-4,957.95	1,168.40	2,039.59	1,896.29	143.30	14.233						
17,400.00	12,060.00	16,365.12	11,104.67	70.85	87.06	-62.10	-5,058.18	1,170.55	2,041.80	1,896.24	145.56	14.027						
17,500.00	12,060.00	16,491.37	11,102.91	72.10	88.66	-62.06	-5,184.41	1,172.30	2,042.93	1,894.81	148.12	13.793						
17,600.00	12,060.00	16,592.29	11,102.40	73.35	89.94	-62.05	-5,285.32	1,173.46	2,043.47	1,893.05	150.42	13.585						
17,700.00	12,060.00	16,744.29	11,102.81	74.61	91.88	-62.05	-5,437.31	1,173.48	2,042.57	1,889.33	153.24	13.329						
17,800.00	12,060.00	16,834.80	11,103.91	75.87	93.04	-62.06	-5,527.81	1,173.04	2,040.86	1,885.39	155.48	13.126						
17,900.00	12,060.00	16,923.66	11,103.88	77.14	94.18	-62.04	-5,616.68	1,172.49	2,039.63	1,881.95	157.68	12.935						
18,000.00	12,060.00	17,009.04	11,102.90	78.41	95.27	-62.01	-5,702.04	1,172.13	2,039.09	1,879.27	159.82	12.758						
18,095.49	12,060.00	17,100.23	11,101.32	79.62	96.45	-61.95	-5,793.22	1,171.90	2,038.97	1,877.01	161.96	12.589						
18,100.00	12,060.00	17,104.17	11,101.24	79.68	96.50	-61.95	-5,797.16	1,171.89	2,038.97	1,876.92	162.06	12.582						
18,200.00	12,060.00	17,191.67	11,099.01	80.96	97.64	-61.89	-5,884.63	1,171.74	2,039.32	1,875.12	164.20	12.420						
18,300.00	12,060.00	17,284.00	11,096.76	82.23	98.84	-61.82	-5,976.93	1,172.08	2,040.10	1,873.69	166.40	12.260						
18,400.00	12,060.00	17,379.00	11,095.07	83.52	100.08	-61.79	-6,071.91	1,173.22	2,041.29	1,872.62	168.66	12.103						
18,500.00	12,060.00	17,474.24	11,094.55	84.80	101.33	-61.79	-6,167.12	1,175.31	2,042.77	1,871.80	170.97	11.948						
18,600.00	12,060.00	17,552.16	11,094.57	86.09	102.36	-61.82	-6,245.01	1,177.74	2,044.80	1,871.70	173.10	11.813						
18,700.00	12,060.00	17,639.96	11,093.41	87.38	103.52	-61.82	-6,332.74	1,180.75	2,047.73	1,872.40	175.33	11.679						
18,800.00	12,060.00	17,724.14	11,090.90	88.67	104.64	-61.78	-6,416.84	1,183.43	2,051.24	1,873.78	177.46	11.559						
18,900.00	12,060.00	17,819.67	11,086.69	89.97	105.91	-61.71	-6,512.23	1,186.49	2,055.44	1,875.74	179.70	11.438						
19,000.00	12,060.00	17,944.14	11,082.42	91.26	107.57	-61.64	-6,636.56	1,190.38	2,059.15	1,876.82	182.33	11.294						
19,100.00	12,060.00	18,027.19	11,080.78	92.56	108.68	-61.63	-6,719.54	1,193.27	2,062.45	1,877.96	184.49	11.179						
19,200.00	12,060.00	18,105.42	11,077.88	93.86	109.73	-61.59	-6,797.67	1,196.14	2,066.75	1,880.21	186.54	11.079						
19,300.00	12,060.00	18,300.11	11,072.26	95.17	112.34	-61.50	-6,992.16	1,201.44	2,070.31	1,880.34	189.97	10.898						
19,400.00	12,060.00	18,433.37	11,074.79	96.47	114.13	-61.57	-7,125.39	1,202.72	2,069.47	1,876.70	192.77	10.735						
19,500.00	12,060.00	18,525.00	11,077.05	97.78	115.36	-61.63	-7,216.99	1,203.62	2,068.45	1,873.29	195.16	10.599						
19,600.00	12,060.00	18,610.95	11,078.93	99.09	116.51	-61.68	-7,302.91	1,204.83	2,067.93	1,870.44	197.50	10.471						
19,700.00	12,060.00	18,715.77	11,080.02	100.40	117.92	-61.71	-7,407.71	1,205.86	2,067.59	1,867.61	199.99	10.339						
19,778.77	12,060.00	18,784.35	11,079.22	101.43	118.84	-61.68	-7,476.28	1,205.78	2,067.40	1,865.65	201.75	10.248						
19,800.00	12,060.00	18,802.81	11,078.81	101.71	119.09	-61.67	-7,494.74	1,205.72	2,067.41	1,865.20	202.21	10.224						

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



Legacy Directional Drilling
Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 127H - OH - OH													Offset Site Error:
Survey Program: 109-3_MWD+HRGM													Offset Well Error:
Reference													Warning
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
19,900.00	12,060.00	18,886.95	11,075.70	103.02	120.22	-61.58	-7,578.82	1,205.21	2,067.92	1,863.59	204.34	10.120	
20,000.00	12,060.00	18,984.72	11,070.50	104.34	121.53	-61.43	-7,676.45	1,204.32	2,068.97	1,862.44	206.53	10.018	
20,100.00	12,060.00	19,081.41	11,065.90	105.65	122.83	-61.30	-7,773.03	1,203.77	2,070.05	1,861.32	208.73	9.917	
20,200.00	12,060.00	19,184.98	11,062.21	106.97	124.23	-61.20	-7,876.53	1,203.91	2,071.18	1,860.14	211.05	9.814	
20,300.00	12,060.00	19,291.01	11,060.46	108.29	125.67	-61.16	-7,982.54	1,204.85	2,072.05	1,858.58	213.47	9.707	
20,400.00	12,060.00	19,376.65	11,058.72	109.61	126.83	-61.12	-8,068.15	1,205.63	2,073.13	1,857.46	215.67	9.612	
20,500.00	12,060.00	19,508.54	11,056.85	110.93	128.62	-61.07	-8,200.02	1,206.45	2,073.61	1,855.25	218.36	9.496	
20,600.00	12,060.00	19,614.16	11,055.56	112.26	130.05	-61.03	-8,305.64	1,206.50	2,073.56	1,852.78	220.77	9.392	
20,700.00	12,060.00	19,733.73	11,056.09	113.58	131.68	-61.02	-8,425.21	1,206.38	2,072.53	1,849.16	223.37	9.278	
20,800.00	12,060.00	19,833.06	11,056.17	114.90	133.02	-61.01	-8,524.53	1,205.65	2,071.15	1,845.39	225.76	9.174	
20,900.00	12,060.00	19,921.26	11,055.32	116.23	134.22	-60.96	-8,612.72	1,204.79	2,070.07	1,842.06	228.01	9.079	
21,000.00	12,060.00	20,009.42	11,053.64	117.56	135.42	-60.91	-8,700.87	1,204.16	2,069.66	1,839.43	230.24	8.989	
21,100.00	12,060.00	20,113.82	11,052.56	118.88	136.85	-60.87	-8,805.26	1,204.26	2,069.56	1,836.91	232.65	8.896	
21,200.00	12,060.00	20,215.31	11,052.58	120.21	138.23	-60.86	-8,906.74	1,204.47	2,069.03	1,833.95	235.08	8.801	
21,300.00	12,060.00	20,307.00	11,052.21	121.54	139.49	-60.85	-8,998.44	1,204.72	2,068.77	1,831.36	237.41	8.714	
21,309.24	12,060.00	20,315.38	11,052.15	121.66	139.60	-60.84	-9,006.81	1,204.75	2,068.77	1,831.15	237.62	8.706	
21,400.00	12,060.00	20,383.43	11,051.51	122.87	140.54	-60.83	-9,074.86	1,205.25	2,069.16	1,829.60	239.56	8.637	
21,500.00	12,060.00	20,459.93	11,050.20	124.20	141.59	-60.81	-9,151.34	1,206.79	2,071.00	1,829.31	241.69	8.569	
21,600.00	12,060.00	20,566.10	11,049.66	125.54	143.05	-60.83	-9,257.46	1,209.78	2,073.00	1,828.77	244.24	8.488	
21,700.00	12,060.00	20,660.59	11,049.59	126.87	144.36	-60.85	-9,351.90	1,212.70	2,075.04	1,828.38	246.66	8.413	
21,800.00	12,060.00	20,750.55	11,048.90	128.20	145.61	-60.86	-9,441.82	1,215.52	2,077.46	1,828.46	249.00	8.343	
21,900.00	12,060.00	20,839.76	11,047.68	129.54	146.84	-60.87	-9,530.96	1,218.60	2,080.43	1,829.13	251.31	8.279	
22,000.00	12,060.00	20,935.31	11,045.77	130.87	148.17	-60.85	-9,626.44	1,221.90	2,083.73	1,830.05	253.67	8.214	
22,100.00	12,060.00	21,027.75	11,042.87	132.21	149.45	-60.81	-9,718.79	1,224.78	2,087.28	1,831.33	255.95	8.155	
22,200.00	12,060.00	21,114.56	11,039.22	133.54	150.66	-60.75	-9,805.47	1,227.53	2,091.39	1,833.29	258.10	8.103	
22,259.99	12,060.00	21,173.00	11,036.55	134.34	151.47	-60.71	-9,863.82	1,229.44	2,094.03	1,834.56	259.47	8.070 SF	

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



Legacy Directional Drilling
Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 201H - OH - OH														Offset Site Error:	0.00 usft						
Survey Program: 179-3_MWD+HRGM														Offset Well Error:	0.00 usft						
Reference														Rule Assigned:							
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	Centres	Ellipses	Separation	Factor									
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	
0.00	0.00	0.00	0.00	0.00	0.00	27.35	290.00	150.00	326.50	326.50	326.50	1.67	194.399								
100.00	100.00	103.40	103.39	1.51	0.16	20.55	289.34	150.09	325.29	323.62	1.67	194.399									
200.00	199.97	206.59	206.57	1.66	0.38	22.95	287.40	150.34	321.73	319.69	2.04	157.887									
300.00	299.93	307.34	307.28	2.21	0.74	30.89	284.70	150.52	316.80	313.86	2.94	107.776									
400.00	399.82	405.83	405.74	2.55	1.09	49.99	282.12	150.81	311.31	307.69	3.61	86.136									
500.00	499.65	503.05	502.94	2.84	1.44	56.23	280.37	150.92	306.27	302.03	4.25	72.136									
600.00	599.45	601.00	600.89	3.18	1.79	73.36	279.72	150.96	302.92	298.03	4.89	61.971									
696.62	695.57	693.03	692.91	3.73	2.10	85.89	280.11	151.12	301.80	296.28	5.52	54.653 CC									
700.00	698.87	696.28	696.16	3.75	2.11	86.30	280.14	151.13	301.90	296.36	5.54	54.468									
800.00	798.06	794.34	794.21	3.97	2.44	90.23	281.34	151.31	302.67	296.58	6.08	49.750									
900.00	897.41	893.85	893.72	4.19	2.78	93.51	282.80	151.37	304.25	297.62	6.63	45.892									
1,000.00	996.75	992.83	992.69	4.43	3.12	96.96	284.48	151.30	306.60	299.43	7.17	42.732									
1,100.00	1,095.77	1,091.92	1,091.75	4.71	3.46	99.36	286.41	151.09	310.00	302.24	7.76	39.937									
1,200.00	1,194.75	1,191.80	1,191.62	5.15	3.81	101.54	288.18	150.86	313.77	305.20	8.57	36.594									
1,300.00	1,293.76	1,291.62	1,291.43	5.43	4.15	104.64	289.46	150.81	317.80	308.58	9.23	34.449									
1,400.00	1,392.81	1,391.09	1,390.90	5.62	4.50	106.97	290.14	151.05	322.30	312.54	9.77	33.004									
1,500.00	1,491.86	1,490.51	1,490.31	5.81	4.85	109.77	290.84	151.16	327.16	316.85	10.31	31.744									
1,600.00	1,590.95	1,590.34	1,590.14	6.00	5.21	112.18	291.46	151.14	332.39	321.54	10.85	30.640									
1,700.00	1,690.07	1,691.07	1,690.87	6.19	5.56	113.74	291.87	150.88	337.66	326.27	11.39	29.637									
1,800.00	1,789.13	1,788.20	1,788.00	6.38	5.90	116.03	292.46	150.46	343.40	331.48	11.93	28.796									
1,900.00	1,888.18	1,888.12	1,887.92	6.57	6.26	117.74	292.85	150.49	349.93	337.46	12.47	28.060									
2,000.00	1,987.20	1,987.10	1,986.90	6.76	6.60	120.68	292.74	150.63	356.85	343.84	13.01	27.431									
2,100.00	2,086.18	2,083.74	2,083.54	6.96	6.94	122.26	292.54	151.23	364.80	351.26	13.54	26.946									
2,200.00	2,185.14	2,186.21	2,186.01	7.15	7.29	124.50	292.41	151.54	372.99	358.90	14.09	26.469									
2,300.00	2,284.09	2,288.02	2,287.81	7.35	7.64	126.95	292.60	150.86	380.99	366.35	14.64	26.021									
2,400.00	2,382.99	2,392.56	2,392.33	7.54	8.01	127.48	293.39	148.60	388.28	373.08	15.21	25.535									
2,500.00	2,481.85	2,495.75	2,495.42	7.74	8.37	127.39	295.10	144.62	394.50	378.73	15.77	25.022									
2,600.00	2,580.66	2,596.63	2,596.13	7.94	8.73	126.59	298.01	139.58	400.08	383.76	16.32	24.514									
2,700.00	2,679.45	2,697.24	2,696.47	8.13	9.08	125.15	302.60	133.76	405.28	388.41	16.88	24.015									
2,800.00	2,778.25	2,800.30	2,799.13	8.33	9.45	122.23	308.53	126.88	409.34	391.90	17.44	23.471									
2,900.00	2,877.08	2,904.77	2,902.92	8.53	9.82	119.12	316.50	118.14	411.44	393.43	18.01	22.847									
3,000.00	2,975.87	3,008.07	3,005.26	8.73	10.20	116.39	326.06	107.91	411.89	393.31	18.58	22.174									
3,100.00	3,074.61	3,120.03	3,115.96	8.93	10.61	114.49	336.50	94.84	410.19	391.03	19.16	21.410									
3,200.00	3,173.35	3,227.10	3,221.61	9.12	11.01	112.79	345.09	79.75	405.27	385.54	19.73	20.543									
3,300.00	3,272.11	3,324.11	3,317.31	9.32	11.37	115.41	352.91	65.89	399.94	379.65	20.29	19.711									
3,400.00	3,370.95	3,427.29	3,419.05	9.52	11.76	115.81	361.20	50.88	394.84	373.98	20.86	18.931									
3,500.00	3,469.86	3,530.33	3,520.55	9.76	12.16	130.78	369.51	35.14	389.82	368.35	21.47	18.154									
3,600.00	3,568.72	3,635.56	3,624.11	9.97	12.57	131.86	377.01	18.09	386.44	364.38	22.05	17.525									
3,700.00	3,667.55	3,734.85	3,721.78	10.18	12.95	128.16	383.04	1.30	381.58	358.96	22.62	16.870									
3,800.00	3,766.44	3,829.56	3,815.15	10.38	13.32	135.92	388.64	-13.59	377.77	354.58	23.19	16.289									
3,900.00	3,865.32	3,932.59	3,916.86	10.63	13.72	150.69	394.54	-28.95	376.87	353.10	23.77	15.856									
4,000.00	3,964.02	4,045.88	4,028.24	10.84	14.17	148.16	400.71	-48.65	375.48	351.16	24.32	15.441									
4,100.00	4,062.53	4,147.63	4,127.78	11.05	14.59	148.16	406.59	-68.90	372.49	347.60	24.89	14.965									
4,200.00	4,160.91	4,246.43	4,224.42	11.26	14.99	147.36	412.64	-88.55	370.24	344.76	25.48	14.532									
4,300.00	4,259.37	4,341.00	4,317.08	11.48	15.38	148.10	418.27	-106.58	368.44	342.37	26.07	14.132									
4,400.00	4,357.97	4,436.00	4,410.39	11.69	15.77	146.06	423.55	-123.60	367.14	340.48	26.66	13.769									
4,500.00	4,456.67	4,529.00	4,501.99	11.93	16.15	134.93	428.43	-138.96	365.24	337.98	27.26	13.400									
4,600.00	4,555.52	4,623.00	4,594.97	12.14	16.52	127.91	432.88	-151.94	363.28	335.46	27.82	13.058									
4,700.00	4,654.60	4,717.00	4,688.31	12.33	16.88	123.49	436.50	-162.45	361.49	333.13	28.36	12.746									
4,800.00	4,753.79	4,819.66	4,790.26	12.52	17.28	119.79	440.37	-173.85	358.37	329.46	28.91	12.397									
4,900.00	4,853.10	4,914.19	4,884.16	12.70	17.64	119.77	444.06	-184.14	354.52	325.09	29.43	12.045									
5,000.00	4,952.47	5,006.85	4,976.40	12.88	17.99	125.62	447.34	-192.32	352.76	322.82	29.94	11.782									

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 201H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 179-3_MWD+HRGM													Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,004.45	4,956.89	5,011.29	4,980.82	12.89	18.01	126.04	447.50	-192.67	352.76	322.80	29.97	11.772		
5,100.00	5,051.72	5,108.41	5,077.53	13.07	18.38	133.86	451.69	-200.52	353.77	323.28	30.49	11.603		
5,200.00	5,150.85	5,217.56	5,185.81	13.26	18.80	137.76	458.66	-212.23	354.28	323.20	31.08	11.398		
5,300.00	5,250.23	5,319.07	5,286.33	13.45	19.20	138.00	466.09	-224.26	352.77	321.11	31.65	11.145		
5,400.00	5,349.42	5,420.91	5,386.95	13.64	19.61	134.87	474.37	-237.66	351.05	318.81	32.24	10.890		
5,500.00	5,448.36	5,520.94	5,485.84	13.93	20.01	133.83	482.37	-250.41	350.79	317.88	32.91	10.660		
5,600.00	5,547.22	5,625.68	5,589.33	14.18	20.44	132.83	490.03	-264.60	349.82	316.28	33.54	10.430		
5,700.00	5,646.05	5,726.96	5,689.30	14.39	20.85	128.65	496.99	-279.30	347.43	313.32	34.12	10.184		
5,800.00	5,744.82	5,826.51	5,787.60	14.60	21.25	124.92	503.46	-293.63	344.20	309.52	34.69	9.923		
5,900.00	5,843.58	5,925.10	5,885.03	14.80	21.65	125.34	509.29	-307.48	340.77	305.52	35.26	9.666		
6,000.00	5,942.43	6,024.84	5,983.70	15.00	22.05	127.56	514.63	-321.09	337.52	301.71	35.82	9.423		
6,100.00	6,041.27	6,124.46	6,082.25	15.21	22.45	129.84	519.84	-334.64	334.78	298.40	36.38	9.203		
6,200.00	6,140.02	6,224.15	6,180.91	15.42	22.85	130.35	524.81	-348.09	332.66	295.72	36.94	9.005		
6,300.00	6,238.81	6,322.17	6,278.00	15.62	23.24	133.70	529.04	-360.90	330.86	293.37	37.50	8.824		
6,400.00	6,337.75	6,418.55	6,373.60	15.82	23.62	134.56	532.64	-372.59	329.63	291.59	38.04	8.665		
6,500.00	6,436.81	6,516.66	6,471.03	16.02	24.01	137.66	535.91	-383.64	328.88	290.29	38.58	8.524		
6,526.63	6,463.19	6,542.95	6,497.15	16.07	24.11	138.16	536.73	-386.51	328.81	290.09	38.73	8.491 ES		
6,600.00	6,535.79	6,614.72	6,568.48	16.22	24.38	139.53	538.85	-394.18	329.29	290.17	39.12	8.417		
6,700.00	6,634.61	6,709.63	6,662.90	16.42	24.75	143.21	541.68	-403.36	332.07	292.42	39.65	8.375		
6,800.00	6,733.38	6,802.74	6,755.68	16.63	25.09	144.75	543.79	-410.80	337.01	296.85	40.16	8.391		
6,900.00	6,832.33	6,891.21	6,844.02	16.83	25.41	151.95	545.02	-415.27	344.45	303.83	40.62	8.481		
7,000.00	6,931.52	6,984.78	6,937.55	17.02	25.74	152.67	546.36	-417.78	353.18	312.08	41.09	8.595		
7,100.00	7,031.09	7,077.71	7,030.45	17.21	26.05	149.75	548.49	-418.59	360.55	318.99	41.55	8.676		
7,200.00	7,131.03	7,173.93	7,126.64	17.42	26.37	103.95	550.60	-418.02	363.43	321.45	41.97	8.659		
7,300.00	7,231.02	7,271.44	7,224.13	17.52	26.69	87.04	552.27	-416.67	364.97	322.62	42.35	8.618		
7,400.00	7,331.02	7,366.74	7,319.39	17.62	26.99	90.18	553.64	-414.27	367.55	324.86	42.68	8.611		
7,500.00	7,431.01	7,466.15	7,418.73	17.73	27.31	99.87	555.04	-411.04	370.93	327.85	43.08	8.611		
7,600.00	7,531.00	7,568.33	7,520.86	17.84	27.63	113.11	556.70	-408.13	374.23	330.71	43.52	8.600		
7,700.00	7,631.00	7,669.15	7,621.64	17.95	27.96	130.45	558.32	-405.58	377.37	333.42	43.95	8.586		
7,800.00	7,730.99	7,770.01	7,722.46	18.05	28.28	133.35	559.90	-403.35	380.41	336.01	44.40	8.568		
7,900.00	7,830.99	7,870.33	7,822.75	18.15	28.60	164.49	561.09	-401.20	383.41	338.57	44.84	8.551		
8,000.00	7,930.98	7,970.19	7,922.58	18.22	28.92	-156.09	561.54	-399.11	386.47	341.21	45.26	8.539		
8,100.00	8,030.98	8,071.00	8,023.36	18.24	29.24	-124.06	560.26	-396.87	389.22	343.56	45.67	8.523		
8,200.00	8,130.97	8,171.37	8,123.68	18.25	29.56	-140.81	557.68	-394.84	392.03	345.97	46.06	8.511		
8,300.00	8,230.95	8,271.63	8,223.89	18.57	29.87	38.51	555.27	-392.85	393.53	346.98	46.56	8.453		
8,400.00	8,330.88	8,373.68	8,325.90	18.64	30.19	40.12	553.14	-391.14	392.26	345.34	46.91	8.361		
8,500.00	8,430.83	8,472.63	8,424.82	18.68	30.51	35.89	550.94	-389.69	391.06	343.83	47.23	8.281		
8,600.00	8,530.80	8,573.82	8,525.98	18.71	30.83	26.86	549.21	-388.24	390.22	342.66	47.55	8.206		
8,700.00	8,630.77	8,674.05	8,626.18	18.73	31.15	16.22	547.14	-387.06	389.37	341.51	47.87	8.135		
8,751.79	8,682.56	8,724.78	8,676.89	18.73	31.31	16.37	546.11	-386.37	389.22	341.20	48.02	8.106		
8,800.00	8,730.76	8,774.06	8,726.16	18.74	31.47	16.48	545.32	-385.66	389.31	341.13	48.18	8.081		
8,900.00	8,830.76	8,876.31	8,828.40	18.74	31.80	-13.84	543.66	-385.01	388.93	340.42	48.51	8.018		
8,939.24	8,869.99	8,914.19	8,866.28	18.73	31.92	-17.96	543.10	-384.71	388.87	340.26	48.61	7.999		
9,000.00	8,930.75	8,975.31	8,927.38	18.72	32.12	-23.19	542.17	-384.08	388.92	340.11	48.80	7.969		
9,100.00	9,030.74	9,076.80	9,028.84	18.70	32.45	-51.59	539.96	-383.47	388.42	339.28	49.13	7.905		
9,112.95	9,043.69	9,089.78	9,041.83	18.69	32.49	-62.15	539.72	-383.41	388.40	339.22	49.18	7.898		
9,200.00	9,130.74	9,177.53	9,129.56	18.68	32.78	-119.14	538.36	-383.04	389.04	339.54	49.50	7.859		
9,300.00	9,230.72	9,277.26	9,229.28	18.68	33.10	-120.72	536.62	-382.79	390.30	340.42	49.89	7.824		
9,400.00	9,330.70	9,375.61	9,327.62	18.68	33.42	-110.84	535.34	-382.24	391.76	341.51	50.26	7.795		
9,500.00	9,430.67	9,476.57	9,428.57	18.67	33.76	-110.22	533.89	-381.46	393.22	342.57	50.64	7.765		
9,600.00	9,530.64	9,575.15	9,527.13	18.66	34.08	-119.40	532.21	-380.87	394.86	343.85	51.01	7.741		
9,700.00	9,630.59	9,674.55	9,626.50	18.67	34.40	-128.11	530.38	-379.85	397.59	346.18	51.40	7.735		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 201H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 179-3_MWD+HRGM											Rule Assigned:		Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Offset Wellbore Centre		Distance			Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
9,800.00	9,730.54	9,777.17	9,729.12	18.69	34.74	-141.98	528.97	-379.08	400.60	348.76	51.84	7.728		
9,900.00	9,830.48	9,878.30	9,830.25	18.74	35.08	-151.64	528.30	-378.89	403.70	351.42	52.28	7.722		
10,000.00	9,930.42	9,977.04	9,928.98	18.80	35.41	-151.07	528.53	-378.69	407.07	354.36	52.71	7.723		
10,100.00	10,030.33	10,076.20	10,028.14	18.85	35.75	-146.80	528.27	-378.23	411.18	358.04	53.14	7.738		
10,200.00	10,130.19	10,176.93	10,128.86	18.91	36.09	-152.94	528.50	-377.79	416.14	362.55	53.59	7.765		
10,300.00	10,229.97	10,278.26	10,230.19	18.99	36.43	-152.65	528.97	-377.72	422.15	368.10	54.05	7.810		
10,400.00	10,329.68	10,376.67	10,328.60	19.05	36.77	-138.91	529.57	-377.69	428.40	373.92	54.48	7.863		
10,500.00	10,429.39	10,475.53	10,427.46	19.09	37.11	-123.24	530.55	-377.25	433.84	378.94	54.89	7.903		
10,600.00	10,529.12	10,576.79	10,528.71	19.11	37.46	-126.93	531.96	-377.23	438.17	382.86	55.31	7.922		
10,700.00	10,628.94	10,677.53	10,629.43	19.14	37.81	-133.54	533.74	-377.17	442.26	386.53	55.73	7.936		
10,800.00	10,728.88	10,779.67	10,731.55	19.17	38.16	-137.33	535.10	-377.87	444.06	387.88	56.18	7.905		
10,900.00	10,828.84	10,880.77	10,832.65	19.23	38.51	-164.27	535.59	-378.54	445.66	389.04	56.62	7.871		
11,000.00	10,928.83	10,983.56	10,935.44	19.32	38.87	155.72	535.05	-379.71	446.34	389.24	57.09	7.818		
11,100.00	11,028.81	11,087.71	11,039.56	19.44	39.22	137.68	534.34	-381.62	445.82	388.25	57.57	7.744		
11,200.00	11,128.80	11,192.24	11,144.05	19.56	39.59	132.80	533.08	-384.57	444.13	386.08	58.05	7.651		
11,300.00	11,228.77	11,288.33	11,240.07	19.68	39.92	144.69	531.19	-387.36	442.56	384.08	58.48	7.568		
11,400.00	11,328.75	11,387.89	11,339.58	19.79	40.26	177.89	528.81	-389.62	441.92	382.99	58.93	7.499		
11,500.00	11,428.49	11,488.18	11,439.81	20.94	40.60	-97.25	526.05	-391.90	441.20	380.54	60.66	7.274		
11,600.00	11,525.17	11,587.52	11,539.09	21.69	40.94	-93.80	523.59	-394.51	440.48	378.75	61.72	7.136		
11,655.95	11,577.57	11,640.51	11,592.04	21.70	41.12	-94.98	522.63	-396.09	440.13	378.31	61.82	7.119		
11,700.00	11,617.80	11,681.36	11,632.87	21.72	41.27	-96.41	521.98	-397.35	440.27	378.38	61.90	7.113		
11,800.00	11,705.23	11,771.48	11,722.92	21.90	41.58	-98.00	520.71	-400.49	443.17	381.15	62.03	7.145		
11,900.00	11,783.36	11,849.27	11,800.65	22.16	41.86	-102.79	519.92	-403.48	452.39	390.35	62.05	7.291		
12,000.00	11,851.85	11,916.91	11,868.24	22.38	42.09	-113.27	519.51	-406.10	478.40	416.15	62.25	7.686		
12,100.00	11,909.84	11,973.74	11,925.03	22.67	42.29	-110.89	519.17	-408.18	521.99	459.59	62.40	8.365		
12,200.00	11,951.37	12,013.19	11,964.46	22.90	42.43	-107.15	519.01	-409.50	576.27	513.84	62.42	9.232		
12,300.00	11,975.92	12,036.20	11,987.46	23.11	42.51	-100.72	518.95	-410.21	642.17	579.78	62.39	10.293		
12,400.00	11,985.05	12,044.52	11,995.77	23.37	42.54	-93.71	518.94	-410.46	718.57	656.22	62.35	11.524		
12,500.00	11,987.32	12,036.78	12,036.78	23.67	45.30	-159.71	-234.98	-454.47	762.06	701.51	60.55	12.587		
12,600.00	11,990.72	12,034.51	12,034.51	24.08	45.68	-160.64	-347.59	-459.03	750.88	690.07	60.81	12.349		
12,700.00	11,996.12	12,034.06	12,034.06	24.48	46.07	-161.23	-451.03	-462.35	738.52	677.38	61.14	12.080		
12,800.00	12,004.27	12,034.21	12,034.21	24.94	46.52	-161.50	-566.03	-463.56	723.04	661.46	61.58	11.741		
12,900.00	12,012.70	12,034.93	12,034.93	25.44	46.94	-161.57	-648.59	-463.88	707.67	645.69	61.98	11.417		
13,000.00	12,021.18	12,034.02	12,034.02	26.00	47.31	-161.48	-725.62	-463.59	694.99	632.72	62.27	11.161		
13,100.00	12,030.65	12,034.34	12,034.34	26.62	47.72	-161.34	-804.94	-462.61	685.41	622.79	62.62	10.946		
13,200.00	12,040.26	12,034.10	12,034.10	27.28	48.26	-161.13	-904.67	-461.31	677.67	614.44	63.23	10.718		
13,300.00	12,048.54	12,034.42	12,034.42	27.99	48.84	-160.91	-1,005.99	-460.49	670.82	606.93	63.89	10.500		
13,400.00	12,055.24	12,034.29	12,034.29	28.75	49.36	-160.69	-1,091.84	-459.12	666.48	602.08	64.40	10.349		
13,420.53	12,056.16	12,034.23	12,034.23	28.91	49.46	-160.63	-1,108.76	-458.60	666.36	601.86	64.50	10.331		
13,500.00	12,057.83	12,034.50	12,034.50	29.55	49.96	-160.37	-1,184.95	-455.98	668.38	603.33	65.05	10.275		
13,600.00	12,059.41	12,034.71	12,034.71	30.39	50.60	-160.05	-1,281.02	-451.94	671.29	605.55	65.74	10.212		
13,700.00	12,058.40	12,034.29	12,034.29	31.26	51.30	-159.63	-1,381.31	-444.74	676.88	610.30	66.58	10.167		
13,800.00	12,058.93	12,034.79	12,034.79	32.17	51.99	-159.27	-1,476.59	-438.82	681.18	613.83	67.35	10.114		
13,900.00	12,058.02	12,034.25	12,034.25	33.10	52.82	-158.88	-1,585.83	-432.93	687.21	618.80	68.41	10.045		
14,000.00	12,058.21	12,034.00	12,034.00	35.46	53.63	-158.73	-1,687.48	-429.46	690.08	620.70	69.38	9.946		
14,100.00	12,058.69	12,034.51	12,034.51	36.06	54.33	-159.16	-1,772.89	-426.63	691.02	621.38	69.64	9.923		
14,200.00	12,059.54	12,034.89	12,034.89	36.71	55.46	-159.95	-1,907.14	-425.36	691.08	620.68	70.40	9.817		
14,300.00	12,059.96	12,034.23	12,034.23	37.42	56.49	-160.61	-2,025.41	-429.48	688.38	617.38	71.00	9.695		
14,400.00	12,060.00	12,034.73	12,034.73	38.17	57.31	-160.94	-2,117.84	-433.01	686.19	614.76	71.43	9.607		
14,500.00	12,060.00	12,034.34	12,034.34	38.97	58.37	-161.22	-2,233.41	-435.73	685.21	613.02	72.19	9.492		
14,600.00	12,060.00	12,034.05	12,034.05	39.79	59.39	-161.47	-2,342.01	-439.26	680.78	607.88	72.90	9.338		
14,700.00	12,060.00	12,034.53	12,034.53	40.66	60.36	-161.99	-2,442.67	-446.00	675.34	601.94	73.40	9.201		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 201H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 179-3_MWD+HRGM											Rule Assigned:		Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Offset Wellbore Centre		Distance			Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
14,800.00	12,060.00	15,516.99	12,700.66	41.55	61.04	-162.36	-2,512.50	-450.24	672.27	598.75	73.52	9.144		
14,805.17	12,060.00	15,520.27	12,700.69	41.60	61.07	-162.37	-2,515.78	-450.33	672.26	598.74	73.53	9.143		
14,900.00	12,060.00	15,609.77	12,702.42	42.47	61.96	-162.57	-2,605.26	-451.54	673.35	599.30	74.06	9.092		
15,000.00	12,060.00	15,698.06	12,704.23	43.42	62.85	-162.79	-2,693.51	-453.01	674.63	600.11	74.53	9.052		
15,100.00	12,060.00	15,797.99	12,707.32	44.40	63.87	-162.84	-2,793.38	-451.85	677.70	602.43	75.27	9.003		
15,200.00	12,060.00	15,902.56	12,709.81	45.40	64.95	-162.95	-2,897.92	-451.62	679.79	603.71	76.08	8.936		
15,300.00	12,060.00	16,006.54	12,712.15	46.42	66.05	-163.17	-3,001.87	-452.78	681.39	604.56	76.83	8.869		
15,400.00	12,060.00	16,113.30	12,713.38	47.46	67.18	-163.30	-3,108.62	-453.15	682.16	604.47	77.70	8.780		
15,500.00	12,060.00	16,213.26	12,713.61	48.51	68.26	-163.27	-3,208.56	-451.96	682.49	603.94	78.55	8.689		
15,600.00	12,060.00	16,316.25	12,713.55	49.59	69.38	-163.23	-3,311.55	-450.68	682.56	603.08	79.48	8.588		
15,700.00	12,060.00	16,430.63	12,712.00	50.68	70.65	-162.98	-3,425.85	-447.07	682.03	601.25	80.78	8.443		
15,800.00	12,060.00	16,552.36	12,705.30	51.79	72.02	-162.52	-3,547.31	-442.47	677.54	595.14	82.40	8.223		
15,900.00	12,060.00	16,651.83	12,698.76	52.91	73.15	-162.15	-3,646.51	-439.23	672.01	588.44	83.57	8.041		
16,000.00	12,060.00	16,744.38	12,693.18	54.04	74.22	-161.80	-3,738.84	-435.91	667.14	582.51	84.63	7.883		
16,100.00	12,060.00	16,839.66	12,688.25	55.19	75.32	-161.39	-3,833.90	-431.80	663.33	577.52	85.82	7.730		
16,200.00	12,060.00	16,931.70	12,684.03	56.34	76.39	-160.96	-3,925.72	-427.25	660.34	573.36	86.98	7.592		
16,300.00	12,060.00	17,022.93	12,681.10	57.51	77.46	-160.55	-4,016.79	-422.62	658.71	570.58	88.13	7.474		
16,362.39	12,060.00	17,078.99	12,680.36	58.24	78.12	-160.43	-4,072.82	-420.96	658.39	569.66	88.73	7.420		
16,400.00	12,060.00	17,112.10	12,680.27	58.68	78.51	-160.38	-4,105.91	-420.10	658.52	569.46	89.06	7.394		
16,500.00	12,060.00	17,209.17	12,681.03	59.87	79.66	-160.30	-4,202.96	-418.05	659.69	569.58	90.11	7.321		
16,600.00	12,060.00	17,302.47	12,682.32	61.06	80.78	-160.32	-4,296.25	-417.05	661.10	570.11	90.99	7.265		
16,700.00	12,060.00	17,429.96	12,683.41	62.26	82.31	-160.32	-4,423.70	-415.65	662.23	569.50	92.73	7.141		
16,800.00	12,060.00	17,524.00	12,682.22	63.47	83.45	-160.26	-4,517.73	-414.68	661.09	567.36	93.73	7.053		
16,814.95	12,060.00	17,531.59	12,682.19	63.65	83.54	-160.26	-4,525.32	-414.57	661.04	567.32	93.72	7.054		
16,900.00	12,060.00	17,603.24	12,682.48	64.69	84.41	-160.16	-4,596.94	-412.66	661.91	567.50	94.41	7.011		
17,000.00	12,060.00	17,695.46	12,684.02	65.91	85.54	-159.94	-4,689.07	-408.73	664.64	569.11	95.53	6.957		
17,100.00	12,060.00	17,790.10	12,686.38	67.14	86.71	-159.74	-4,783.58	-404.51	668.25	571.52	96.73	6.909		
17,200.00	12,060.00	17,915.64	12,688.34	68.37	88.26	-159.50	-4,909.01	-399.87	670.82	572.01	98.80	6.790		
17,300.00	12,060.00	18,039.95	12,685.12	69.61	89.81	-159.29	-5,033.25	-397.43	668.70	567.89	100.81	6.633		
17,400.00	12,060.00	18,144.21	12,680.50	70.85	91.12	-159.08	-5,137.40	-395.78	664.84	562.51	102.32	6.497		
17,500.00	12,060.00	18,237.03	12,676.50	72.10	92.28	-158.92	-5,230.12	-394.56	661.01	557.48	103.53	6.385		
17,600.00	12,060.00	18,334.33	12,673.48	73.35	93.51	-158.71	-5,327.34	-392.31	658.66	553.73	104.92	6.278		
17,700.00	12,060.00	18,435.02	12,669.90	74.61	94.79	-158.50	-5,427.95	-390.42	655.73	549.32	106.41	6.162		
17,800.00	12,060.00	18,551.71	12,665.63	75.87	96.27	-158.37	-5,544.56	-389.55	652.40	544.17	108.23	6.028		
17,900.00	12,060.00	18,650.58	12,660.16	77.14	97.53	-158.26	-5,643.28	-389.61	646.95	537.36	109.59	5.903		
18,000.00	12,060.00	18,746.47	12,655.23	78.41	98.76	-158.10	-5,739.03	-388.88	642.16	531.21	110.96	5.787		
18,100.00	12,060.00	18,840.25	12,650.96	79.68	99.97	-157.92	-5,832.70	-387.62	638.14	525.82	112.31	5.682		
18,192.23	12,060.00	18,910.03	12,649.03	80.86	100.87	-157.76	-5,902.44	-385.94	636.38	523.30	113.07	5.628		
18,200.00	12,060.00	18,915.73	12,648.98	80.96	100.94	-157.74	-5,908.14	-385.75	636.39	523.26	113.13	5.625		
18,300.00	12,060.00	19,023.98	12,648.40	82.23	102.34	-157.46	-6,016.31	-381.71	637.09	522.02	115.07	5.537		
18,400.00	12,060.00	19,143.81	12,643.84	83.52	103.89	-157.10	-6,135.99	-378.28	634.34	516.87	117.46	5.400		
18,500.00	12,060.00	19,242.87	12,639.28	84.80	105.18	-156.91	-6,234.94	-377.14	630.24	511.19	119.04	5.294		
18,600.00	12,060.00	19,335.52	12,636.56	86.09	106.39	-156.93	-6,327.54	-377.91	626.89	506.76	120.13	5.218		
18,700.00	12,060.00	19,429.38	12,635.29	87.38	107.61	-157.09	-6,421.38	-379.56	624.64	503.60	121.05	5.160		
18,800.00	12,060.00	19,523.36	12,634.90	88.67	108.83	-157.31	-6,515.34	-381.57	623.13	501.28	121.86	5.114		
18,824.00	12,060.00	19,542.36	12,635.00	88.98	109.08	-157.36	-6,534.33	-381.89	623.03	501.08	121.95	5.109		
18,900.00	12,060.00	19,604.00	12,636.19	89.97	109.88	-157.47	-6,595.96	-382.19	623.98	501.66	122.32	5.101		
19,000.00	12,060.00	19,711.91	12,637.88	91.26	111.30	-157.45	-6,703.84	-380.44	625.75	501.80	123.95	5.048		
19,100.00	12,060.00	19,814.51	12,638.16	92.56	112.66	-157.38	-6,806.42	-378.72	626.34	500.84	125.50	4.991		
19,200.00	12,060.00	19,906.31	12,639.03	93.86	113.87	-157.33	-6,898.20	-376.93	627.64	500.97	126.67	4.955		
19,300.00	12,060.00	20,004.30	12,640.71	95.17	115.17	-157.24	-6,996.14	-374.42	629.90	501.79	128.11	4.917		
19,400.00	12,060.00	20,108.02	12,641.90	96.47	116.54	-157.15	-7,099.83	-372.03	631.53	501.77	129.76	4.867		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 201H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 179-3_MWD+HRGM													Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,500.00	12,060.00	20,199.45	12,643.39	97.78	117.76	-157.06	-7,191.21	-369.63	633.75	502.77	130.98	4.838		
19,600.00	12,060.00	20,290.21	12,646.25	99.09	118.97	-156.98	-7,281.87	-366.65	637.61	505.43	132.18	4.824		
19,700.00	12,060.00	20,399.83	12,650.39	100.40	120.44	-156.95	-7,391.37	-363.64	641.91	507.92	133.99	4.791		
19,800.00	12,060.00	20,542.35	12,651.09	101.71	122.34	-157.18	-7,533.86	-364.99	641.74	505.41	136.33	4.707		
19,900.00	12,060.00	20,650.98	12,648.33	103.02	123.78	-157.59	-7,642.32	-370.28	637.20	500.01	137.19	4.645		
20,000.00	12,060.00	20,746.18	12,645.86	104.34	125.04	-157.99	-7,737.36	-375.27	632.51	494.81	137.71	4.593		
20,100.00	12,060.00	20,841.86	12,644.03	105.65	126.32	-158.37	-7,832.91	-379.78	628.67	490.43	138.24	4.548		
20,200.00	12,060.00	20,939.80	12,642.34	106.97	127.62	-158.82	-7,930.70	-384.97	624.85	486.15	138.70	4.505		
20,299.74	12,060.00	21,019.27	12,642.90	108.29	128.68	-159.26	-8,010.04	-389.27	623.28	484.70	138.58	4.498		
20,300.00	12,060.00	21,019.50	12,642.91	108.29	128.68	-159.27	-8,010.28	-389.28	623.28	484.70	138.58	4.498		
20,400.00	12,060.00	21,108.00	12,645.42	109.61	129.87	-159.76	-8,098.64	-393.42	624.05	485.47	138.58	4.503		
20,500.00	12,060.00	21,204.68	12,649.11	110.93	131.17	-160.27	-8,195.18	-397.22	626.02	487.19	138.83	4.509		
20,600.00	12,060.00	21,304.85	12,652.39	112.26	132.52	-160.51	-8,295.27	-397.96	628.59	488.86	139.73	4.499		
20,700.00	12,060.00	21,428.10	12,652.08	113.58	134.19	-160.30	-8,418.47	-394.68	628.94	486.66	142.28	4.420		
20,800.00	12,060.00	21,528.26	12,649.76	114.90	135.55	-160.15	-8,518.58	-393.02	627.05	483.13	143.92	4.357		
20,900.00	12,060.00	21,638.04	12,647.79	116.23	137.04	-159.92	-8,628.31	-390.12	626.09	480.04	146.05	4.287		
21,000.00	12,060.00	21,756.37	12,641.64	117.56	138.65	-159.69	-8,746.46	-388.75	621.26	472.86	148.40	4.186		
21,100.00	12,060.00	21,847.06	12,636.18	118.88	139.88	-159.42	-8,836.97	-386.95	616.04	465.96	150.08	4.105		
21,200.00	12,060.00	21,944.50	12,631.18	120.21	141.21	-159.06	-8,934.24	-384.01	612.02	459.88	152.14	4.023		
21,300.00	12,060.00	22,042.85	12,626.40	121.54	142.56	-158.72	-9,032.43	-381.16	608.24	454.02	154.23	3.944		
21,400.00	12,060.00	22,137.76	12,622.51	122.87	143.86	-158.45	-9,127.23	-378.90	605.00	448.94	156.06	3.877		
21,500.00	12,060.00	22,235.00	12,619.32	124.20	145.19	-158.23	-9,224.40	-376.86	602.44	444.55	157.89	3.816		
21,600.00	12,060.00	22,331.00	12,616.63	125.54	146.50	-158.02	-9,320.34	-374.75	600.35	440.69	159.66	3.760		
21,700.00	12,060.00	22,426.00	12,615.20	126.87	147.80	-157.95	-9,415.32	-373.84	599.02	437.96	161.07	3.719		
21,746.57	12,060.00	22,467.48	12,615.20	127.49	148.37	-157.99	-9,456.80	-373.98	598.83	437.37	161.45	3.709		
21,800.00	12,060.00	22,520.00	12,615.81	128.20	149.08	-158.08	-9,509.32	-374.31	599.11	437.13	161.98	3.699		
21,900.00	12,060.00	22,602.85	12,618.07	129.54	150.22	-158.26	-9,592.13	-374.76	601.07	438.77	162.30	3.703		
22,000.00	12,060.00	22,721.60	12,620.23	130.87	151.85	-158.37	-9,710.85	-374.17	602.67	438.44	164.23	3.670		
22,100.00	12,060.00	22,823.60	12,619.95	132.21	153.25	-158.33	-9,812.84	-373.02	602.54	436.71	165.83	3.633		
22,200.00	12,060.00	22,930.69	12,619.30	133.54	154.72	-158.47	-9,919.92	-374.04	601.32	434.15	167.17	3.597		
22,240.71	12,060.00	22,962.00	12,619.08	134.09	155.14	-158.54	-9,951.22	-374.58	600.74	433.48	167.26	3.592 SF		
22,259.99	12,060.00	22,962.00	12,619.08	134.34	155.14	-158.54	-9,951.22	-374.58	601.04	434.28	166.75	3.604		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 202H - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 182-3_MWD+HRGM														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)					
0.00	0.00	0.00	2.00	0.00	0.00	45.97	290.00	300.00	417.26						
100.00	100.00	96.38	98.38	1.51	0.15	39.10	290.23	300.03	416.88	415.22	1.66	251.002			
200.00	199.97	195.87	197.87	1.66	0.33	41.28	290.95	300.13	415.79	413.80	1.99	208.947			
300.00	299.93	297.89	299.88	2.21	0.69	48.85	291.76	299.36	413.69	410.79	2.89	143.127			
400.00	399.82	398.34	400.31	2.55	1.05	67.42	292.86	298.36	411.51	407.95	3.56	115.723			
500.00	499.65	498.52	500.50	2.84	1.41	73.29	293.33	297.64	409.29	405.09	4.19	97.611			
600.00	599.45	597.53	599.51	3.18	1.75	90.10	293.43	297.38	408.15	403.32	4.83	84.515 CC			
604.45	603.88	601.93	603.90	3.20	1.76	90.91	293.43	297.38	408.15	403.29	4.86	83.966 ES			
700.00	698.87	697.58	699.56	3.75	2.09	102.52	293.54	297.20	409.67	404.16	5.51	74.303			
800.00	798.06	795.98	797.95	3.97	2.44	105.78	294.00	296.72	412.75	406.66	6.08	67.847			
900.00	897.41	897.86	899.83	4.19	2.81	108.55	294.27	296.12	415.80	409.14	6.66	62.451			
1,000.00	996.75	996.74	998.71	4.43	3.16	111.49	294.27	295.48	419.24	412.02	7.22	58.048			
1,100.00	1,095.77	1,095.22	1,097.18	4.71	3.50	113.26	294.43	294.82	424.18	416.36	7.82	54.219			
1,200.00	1,194.75	1,192.29	1,194.25	5.15	3.84	114.81	294.30	294.76	429.92	421.30	8.62	49.859			
1,300.00	1,293.76	1,290.81	1,292.77	5.43	4.17	117.28	294.33	295.13	436.43	427.17	9.26	47.122			
1,400.00	1,392.81	1,391.61	1,393.57	5.62	4.52	118.89	294.42	294.85	442.82	433.01	9.80	45.164			
1,500.00	1,491.86	1,488.95	1,490.92	5.81	4.86	120.98	294.39	295.06	449.85	439.52	10.33	43.541			
1,600.00	1,590.95	1,590.09	1,592.05	6.00	5.21	122.81	294.10	295.18	456.98	446.11	10.87	42.037			
1,700.00	1,690.07	1,688.38	1,690.34	6.19	5.55	123.66	294.30	294.75	464.02	452.61	11.41	40.682			
1,800.00	1,789.13	1,785.62	1,787.58	6.38	5.89	125.38	294.40	294.96	472.01	460.08	11.93	39.550			
1,900.00	1,888.18	1,883.83	1,885.79	6.57	6.23	126.38	294.89	295.15	480.52	468.05	12.47	38.538			
2,000.00	1,987.20	1,976.60	1,978.55	6.76	6.55	128.53	295.45	295.85	490.00	477.02	12.98	37.750			
2,100.00	2,086.18	2,062.83	2,064.75	6.96	6.85	129.32	295.91	298.31	501.89	488.44	13.46	37.295			
2,200.00	2,185.14	2,144.55	2,146.32	7.15	7.14	130.76	296.39	303.17	517.02	503.12	13.90	37.189			
2,300.00	2,284.09	2,225.62	2,227.02	7.35	7.42	132.59	297.34	310.73	535.91	521.58	14.33	37.388			
2,400.00	2,382.99	2,313.72	2,314.52	7.54	7.73	132.66	298.83	320.95	557.52	542.71	14.81	37.656			
2,500.00	2,481.85	2,410.80	2,410.86	7.74	8.08	132.40	300.88	332.70	579.94	564.60	15.34	37.810			
2,600.00	2,580.66	2,505.98	2,505.30	7.94	8.42	131.59	302.66	344.37	602.57	586.71	15.86	37.988			
2,700.00	2,679.45	2,599.26	2,597.81	8.13	8.76	130.35	304.20	356.24	625.57	609.20	16.38	38.202			
2,800.00	2,778.25	2,692.59	2,690.31	8.33	9.10	127.70	306.06	368.54	648.63	631.74	16.89	38.404			
2,900.00	2,877.08	2,786.91	2,783.73	8.53	9.45	125.12	307.82	381.44	671.48	654.07	17.41	38.568			
3,000.00	2,975.87	2,884.51	2,880.39	8.73	9.81	123.03	310.72	394.57	693.94	675.98	17.96	38.648			
3,100.00	3,074.61	2,977.32	2,972.25	8.93	10.16	121.58	315.23	407.06	716.49	698.02	18.47	38.791			
3,200.00	3,173.35	3,071.85	3,065.74	9.12	10.52	120.25	319.79	420.28	739.21	720.21	19.00	38.911			
3,300.00	3,272.11	3,171.18	3,164.01	9.32	10.90	123.44	324.12	434.06	761.67	742.11	19.56	38.942			
3,400.00	3,370.95	3,265.99	3,257.80	9.52	11.26	124.32	328.35	447.27	784.68	764.59	20.09	39.061			
3,500.00	3,469.86	3,361.44	3,352.21	9.76	11.63	140.26	332.41	460.72	808.51	787.85	20.66	39.143			
3,600.00	3,568.72	3,451.50	3,441.24	9.97	11.98	141.77	336.07	473.83	835.25	814.09	21.16	39.466			
3,700.00	3,667.55	3,538.58	3,527.18	10.18	12.32	138.16	339.76	487.35	862.64	840.99	21.64	39.858			
3,800.00	3,766.44	3,632.71	3,619.97	10.38	12.69	146.54	343.68	502.67	890.63	868.46	22.17	40.168			
3,900.00	3,865.32	3,751.60	3,737.45	10.63	13.16	162.20	348.58	520.23	918.78	895.91	22.87	40.176			
4,000.00	3,964.02	3,858.05	3,842.89	10.84	13.58	159.94	353.20	534.12	947.05	923.58	23.47	40.351			
4,100.00	4,062.53	3,965.50	3,949.48	11.05	13.99	160.39	357.35	547.06	975.22	951.15	24.08	40.502			
4,200.00	4,160.91	4,064.21	4,047.51	11.26	14.37	160.03	360.91	558.01	1,003.14	978.50	24.64	40.720			
4,300.00	4,259.37	4,157.62	4,140.27	11.48	14.73	161.31	364.22	568.50	1,030.83	1,005.67	25.16	40.973			
4,400.00	4,357.97	4,258.96	4,240.91	11.69	15.12	159.63	367.81	579.90	1,057.91	1,032.18	25.73	41.118			
4,500.00	4,456.67	4,356.74	4,338.06	11.93	15.49	148.27	371.23	590.43	1,083.06	1,056.78	26.28	41.205			
4,600.00	4,555.52	4,434.76	4,415.50	12.14	15.80	140.93	374.29	599.36	1,106.88	1,080.15	26.72	41.423			
4,700.00	4,654.60	4,511.30	4,491.26	12.33	16.10	136.10	377.80	609.65	1,130.57	1,103.44	27.14	41.661			
4,800.00	4,753.79	4,587.80	4,566.82	12.52	16.41	131.91	380.98	621.19	1,154.51	1,126.97	27.54	41.917			
4,900.00	4,853.10	4,660.00	4,637.88	12.70	16.70	131.63	383.99	633.62	1,179.45	1,151.54	27.91	42.258			
5,000.00	4,952.47	4,784.32	4,760.28	12.88	17.21	137.27	389.12	654.78	1,204.25	1,175.62	28.63	42.060			

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 202H - OH - OH													Offset Site Error:	0.00 usft				
Survey Program: 182-3_MWD+HRGM											Rule Assigned:		Offset Well Error:	0.00 usft				
Reference				Offset			Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,100.00	5,051.72	4,886.06	4,860.75	13.07	17.62	145.22	392.75	670.38	1,229.09	1,199.88	29.21	42.083						
5,200.00	5,150.85	4,968.40	4,942.00	13.26	17.95	149.48	394.55	683.60	1,256.12	1,226.45	29.67	42.337						
5,300.00	5,250.23	5,066.72	5,038.89	13.45	18.36	150.42	395.69	700.24	1,282.56	1,252.34	30.22	42.439						
5,400.00	5,349.42	5,214.64	5,185.24	13.64	18.95	147.71	397.94	721.50	1,307.54	1,276.46	31.08	42.066						
5,500.00	5,448.36	5,320.61	5,290.42	13.93	19.36	146.95	399.89	734.30	1,331.74	1,299.97	31.77	41.917						
5,600.00	5,547.22	5,428.89	5,397.99	14.18	19.78	146.13	401.39	746.66	1,355.67	1,323.24	32.43	41.806						
5,700.00	5,646.05	5,531.03	5,499.52	14.39	20.17	141.89	403.18	757.59	1,378.70	1,345.70	33.00	41.773						
5,800.00	5,744.82	5,621.17	5,589.09	14.60	20.52	137.79	405.65	767.40	1,401.40	1,367.88	33.52	41.808						
5,900.00	5,843.58	5,713.14	5,680.38	14.80	20.88	137.84	409.30	777.89	1,424.29	1,390.24	34.04	41.836						
6,000.00	5,942.43	5,817.98	5,784.45	15.00	21.29	139.69	414.02	789.72	1,446.82	1,412.18	34.64	41.769						
6,100.00	6,041.27	5,924.35	5,890.12	15.21	21.70	141.51	418.69	801.06	1,469.14	1,433.90	35.24	41.690						
6,200.00	6,140.02	6,024.63	5,989.76	15.42	22.09	141.40	423.24	811.31	1,491.57	1,455.76	35.81	41.651						
6,300.00	6,238.81	6,125.39	6,089.87	15.62	22.48	144.22	428.41	821.54	1,513.84	1,477.46	36.38	41.608						
6,400.00	6,337.75	6,214.33	6,178.23	15.82	22.82	144.45	433.24	830.47	1,535.51	1,498.61	36.89	41.622						
6,500.00	6,436.81	6,286.70	6,249.98	16.02	23.10	146.90	438.04	838.59	1,557.83	1,520.52	37.31	41.754						
6,600.00	6,535.79	6,355.00	6,317.45	16.22	23.38	147.82	443.44	847.72	1,582.75	1,545.05	37.70	41.978						
6,700.00	6,634.61	6,431.28	6,392.58	16.42	23.69	150.62	450.08	859.10	1,610.36	1,572.22	38.15	42.215						
6,800.00	6,733.38	6,529.72	6,489.46	16.63	24.10	151.12	458.91	874.16	1,638.82	1,600.10	38.72	42.324						
6,900.00	6,832.33	6,635.64	6,593.76	16.83	24.53	157.63	468.60	889.87	1,666.27	1,626.94	39.33	42.363						
7,000.00	6,931.52	6,735.55	6,692.17	17.02	24.94	157.58	478.03	904.29	1,692.06	1,652.16	39.90	42.402						
7,100.00	7,031.09	6,832.63	6,787.91	17.21	25.34	154.34	486.11	918.20	1,714.52	1,674.06	40.46	42.373						
7,200.00	7,131.03	6,930.62	6,884.62	17.42	25.74	108.48	493.14	932.26	1,731.04	1,690.08	40.96	42.265						
7,300.00	7,231.02	7,039.76	6,992.39	17.52	26.19	91.43	501.00	947.69	1,745.22	1,703.76	41.46	42.097						
7,400.00	7,331.02	7,159.40	7,110.68	17.62	26.67	94.34	509.57	963.34	1,758.28	1,716.27	42.00	41.859						
7,500.00	7,431.01	7,250.57	7,200.92	17.73	27.04	103.86	515.88	974.79	1,770.95	1,728.54	42.41	41.760						
7,600.00	7,531.00	7,329.72	7,279.16	17.84	27.36	117.02	521.01	985.57	1,784.96	1,742.21	42.76	41.745						
7,700.00	7,631.00	7,419.20	7,367.50	17.95	27.72	134.30	526.65	998.59	1,800.06	1,756.89	43.18	41.691						
7,800.00	7,730.99	7,540.24	7,487.12	18.05	28.22	137.11	533.87	1,015.66	1,814.95	1,771.18	43.77	41.467						
7,900.00	7,830.99	7,657.37	7,603.10	18.15	28.69	168.16	540.41	1,030.68	1,828.60	1,784.26	44.34	41.243						
8,000.00	7,930.98	7,776.71	7,721.41	18.22	29.16	-152.55	546.85	1,044.90	1,841.50	1,796.60	44.90	41.014						
8,100.00	8,030.98	7,887.58	7,831.46	18.24	29.60	-120.78	552.21	1,057.21	1,853.24	1,807.85	45.39	40.829						
8,200.00	8,130.97	8,012.23	7,955.37	18.25	30.08	-137.97	557.65	1,069.62	1,864.12	1,818.18	45.94	40.580						
8,300.00	8,230.95	8,131.76	8,074.34	18.57	30.53	40.68	562.36	1,080.21	1,872.72	1,826.15	46.57	40.213						
8,400.00	8,330.88	8,266.01	8,208.16	18.64	31.03	41.59	566.57	1,090.11	1,877.38	1,830.29	47.08	39.875						
8,500.00	8,430.83	8,378.95	8,320.87	18.68	31.43	36.81	567.00	1,097.03	1,880.96	1,833.48	47.48	39.613						
8,600.00	8,530.80	8,496.38	8,438.13	18.71	31.85	27.42	565.80	1,103.52	1,884.29	1,836.41	47.89	39.348						
8,700.00	8,630.77	8,621.42	8,563.04	18.73	32.28	16.43	564.90	1,108.82	1,886.55	1,838.24	48.30	39.055						
8,800.00	8,730.76	8,721.66	8,663.22	18.74	32.63	16.38	564.43	1,112.41	1,888.68	1,840.04	48.64	38.833						
8,900.00	8,830.76	8,830.84	8,772.33	18.74	33.01	-14.17	564.22	1,116.16	1,891.12	1,842.13	48.99	38.599						
9,000.00	8,930.75	8,957.87	8,899.33	18.72	33.44	-23.73	565.23	1,119.00	1,892.40	1,843.00	49.40	38.309						
9,100.00	9,030.74	9,064.95	9,006.38	18.70	33.81	-52.44	566.87	1,120.49	1,892.72	1,842.96	49.75	38.044						
9,200.00	9,130.74	9,169.56	9,110.97	18.68	34.16	-120.14	568.62	1,121.70	1,894.12	1,843.98	50.14	37.779						
9,300.00	9,230.72	9,266.96	9,208.36	18.68	34.50	-121.83	570.14	1,122.72	1,896.22	1,845.69	50.53	37.526						
9,400.00	9,330.70	9,366.41	9,307.79	18.68	34.83	-111.96	571.32	1,123.90	1,898.36	1,847.44	50.93	37.278						
9,500.00	9,430.67	9,459.23	9,400.60	18.67	35.15	-111.33	572.06	1,125.16	1,900.46	1,849.16	51.29	37.050						
9,600.00	9,530.64	9,550.10	9,491.45	18.66	35.46	-120.50	572.54	1,126.80	1,903.36	1,851.70	51.66	36.841						
9,700.00	9,630.59	9,671.66	9,612.99	18.67	35.87	-129.19	572.32	1,128.74	1,906.73	1,854.60	52.13	36.577						
9,800.00	9,730.54	9,789.05	9,730.37	18.69	36.25	-142.96	570.94	1,129.25	1,909.44	1,856.86	52.58	36.313						
9,900.00	9,830.48	9,894.77	9,836.06	18.74	36.58	-152.42	568.30	1,129.10	1,912.18	1,859.17	53.02	36.068						
10,000.00	9,930.42	10,020.22	9,961.45	18.80	36.97	-151.54	564.55	1,128.28	1,914.70	1,861.20	53.50	35.791						
10,100.00	10,030.33	10,134.60	10,075.77	18.85	37.32	-147.02	561.87	1,125.95	1,916.27	1,862.33	53.94	35.524						
10,200.00	10,130.19	10,232.28	10,173.43	18.91	37.62	-152.81	561.01	1,123.70	1,918.46	1,864.10	54.36	35.294						

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



Legacy Directional Drilling
Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 202H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 182-3_MWD+HRGM													Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Offset Wellbore Centre		Distance				Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
10,300.00	10,229.97	10,324.69	10,265.81	18.99	37.91	-152.13	560.73	1,121.83	1,922.35	1,867.59	54.76	35.102		
10,400.00	10,329.68	10,435.07	10,376.16	19.05	38.25	-137.88	559.70	1,119.31	1,926.16	1,870.96	55.20	34.894		
10,500.00	10,429.39	10,518.65	10,459.71	19.09	38.51	-121.44	557.97	1,117.71	1,928.98	1,873.42	55.55	34.722		
10,600.00	10,529.12	10,608.31	10,549.33	19.11	38.79	-124.23	555.75	1,116.61	1,931.66	1,875.75	55.91	34.550		
10,700.00	10,628.94	10,703.29	10,644.29	19.14	39.09	-130.07	553.64	1,115.80	1,934.37	1,878.08	56.29	34.364		
10,800.00	10,728.88	10,803.32	10,744.29	19.17	39.40	-133.35	551.25	1,115.16	1,935.85	1,879.15	56.70	34.144		
10,900.00	10,828.84	10,913.18	10,854.10	19.23	39.75	-160.02	548.51	1,113.85	1,936.66	1,879.52	57.14	33.894		
11,000.00	10,928.83	11,004.18	10,945.09	19.32	40.04	159.93	547.43	1,113.04	1,937.59	1,880.03	57.56	33.664		
11,100.00	11,028.81	11,109.34	11,050.23	19.44	40.37	141.75	546.17	1,111.95	1,937.96	1,879.95	58.01	33.408		
11,200.00	11,128.80	11,208.07	11,148.94	19.56	40.69	136.68	543.83	1,111.01	1,938.27	1,879.82	58.44	33.164		
11,300.00	11,228.77	11,313.82	11,254.61	19.68	41.02	148.32	540.16	1,109.87	1,938.69	1,879.79	58.90	32.914		
11,400.00	11,328.75	11,430.37	11,371.10	19.79	41.39	-178.72	536.64	1,108.00	1,938.89	1,879.51	59.38	32.652		
11,500.00	11,428.49	11,548.80	11,489.44	20.94	41.76	-93.71	533.37	1,104.82	1,937.60	1,876.47	61.13	31.697		
11,600.00	11,525.17	11,622.25	11,562.86	21.69	42.00	-88.01	532.74	1,102.96	1,935.12	1,873.01	62.12	31.152		
11,700.00	11,617.80	11,689.92	11,630.52	21.72	42.22	-87.14	533.45	1,102.04	1,931.71	1,869.48	62.23	31.042		
11,800.00	11,705.23	11,772.86	11,713.45	21.90	42.50	-85.02	534.60	1,101.79	1,927.72	1,865.37	62.36	30.914		
11,900.00	11,783.36	11,860.28	11,800.86	22.16	42.78	-86.90	535.06	1,100.99	1,920.73	1,858.32	62.40	30.779		
11,951.48	11,819.72	11,893.28	11,833.86	22.27	42.89	-90.59	535.04	1,100.71	1,919.07	1,856.55	62.52	30.694		
12,000.00	11,851.85	11,919.00	11,859.58	22.38	42.97	-93.46	534.96	1,100.55	1,919.83	1,857.22	62.61	30.662		
12,100.00	11,909.84	11,973.82	11,914.40	22.67	43.15	-91.90	534.65	1,100.37	1,926.43	1,863.73	62.70	30.726		
12,200.00	11,951.37	12,014.00	11,954.58	22.90	43.28	-91.05	534.33	1,100.40	1,931.35	1,868.71	62.64	30.833		
12,300.00	11,975.92	12,031.65	11,972.23	23.11	43.34	-90.85	534.17	1,100.45	1,939.01	1,876.54	62.47	31.040		
12,400.00	11,985.05	12,039.65	11,980.23	23.37	43.37	-90.17	534.10	1,100.50	1,953.49	1,891.17	62.32	31.347		
12,500.00	11,987.32	13,360.00	12,702.83	23.67	46.17	-111.65	-328.53	1,091.98	1,955.11	1,888.91	66.20	29.533		
12,600.00	11,990.72	13,415.94	12,703.59	24.08	46.35	-111.52	-384.31	1,087.86	1,935.66	1,868.92	66.74	29.002		
12,700.00	11,996.12	13,455.00	12,705.13	24.48	46.49	-111.35	-423.31	1,086.63	1,923.56	1,856.41	67.15	28.644		
12,800.00	12,004.27	13,490.20	12,707.26	24.94	46.63	-111.29	-458.45	1,086.45	1,914.58	1,846.97	67.61	28.317		
12,900.00	12,012.70	13,549.00	12,712.41	25.44	46.87	-111.44	-517.01	1,087.60	1,910.46	1,842.22	68.23	27.999		
12,936.51	12,015.71	13,549.00	12,712.41	25.65	46.87	-111.47	-517.01	1,087.60	1,910.01	1,841.66	68.36	27.942		
13,000.00	12,021.18	13,596.75	12,717.21	26.00	47.09	-111.55	-564.47	1,089.53	1,910.63	1,841.78	68.85	27.750		
13,100.00	12,030.65	13,893.58	12,734.38	26.62	48.58	-111.32	-860.39	1,095.18	1,911.09	1,839.91	71.18	26.848		
13,200.00	12,040.26	13,927.00	12,735.82	27.28	48.76	-111.35	-893.75	1,093.77	1,905.17	1,833.28	71.89	26.501		
13,286.88	12,047.61	13,978.28	12,737.46	27.90	49.06	-111.32	-944.99	1,093.29	1,903.02	1,830.32	72.70	26.178		
13,300.00	12,048.54	13,982.73	12,737.57	27.99	49.08	-111.32	-949.44	1,093.40	1,903.17	1,830.38	72.79	26.146		
13,400.00	12,055.24	14,021.00	12,738.24	28.75	49.30	-111.22	-987.65	1,095.32	1,905.97	1,832.38	73.58	25.903		
13,500.00	12,057.83	14,062.25	12,738.76	29.55	49.56	-111.05	-1,028.74	1,098.85	1,914.25	1,839.84	74.41	25.726		
13,600.00	12,059.41	14,115.00	12,739.50	30.39	49.89	-110.84	-1,081.14	1,104.85	1,924.62	1,849.28	75.34	25.544		
13,700.00	12,058.40	14,303.00	12,740.29	31.26	51.15	-110.72	-1,268.39	1,121.13	1,931.24	1,853.59	77.65	24.870		
13,800.00	12,058.93	14,368.41	12,740.05	32.17	51.62	-110.65	-1,333.58	1,126.51	1,938.65	1,859.81	78.84	24.589		
13,900.00	12,058.02	14,471.51	12,741.21	33.10	52.38	-110.61	-1,436.19	1,136.35	1,948.93	1,868.47	80.46	24.223		
14,000.00	12,058.21	14,676.29	12,737.28	35.46	53.98	-110.35	-1,640.42	1,150.42	1,952.48	1,869.30	83.18	23.472		
14,100.00	12,058.69	14,879.18	12,730.08	36.06	55.64	-110.24	-1,843.08	1,155.96	1,945.53	1,859.92	85.61	22.724		
14,200.00	12,059.54	14,934.90	12,727.92	36.71	56.12	-110.18	-1,898.75	1,156.71	1,937.99	1,851.23	86.75	22.339		
14,300.00	12,059.96	15,007.79	12,726.60	37.42	56.75	-110.15	-1,971.62	1,158.40	1,935.58	1,847.49	88.08	21.974		
14,304.80	12,059.97	15,011.67	12,726.58	37.46	56.79	-110.15	-1,975.49	1,158.49	1,935.57	1,847.42	88.15	21.957		
14,400.00	12,060.00	15,079.47	12,726.91	38.17	57.38	-110.15	-2,043.26	1,160.29	1,937.19	1,847.78	89.41	21.666		
14,500.00	12,060.00	15,314.12	12,732.60	38.97	59.52	-110.30	-2,277.70	1,162.84	1,940.68	1,848.31	92.37	21.010		
14,600.00	12,060.00	15,411.65	12,735.53	39.79	60.42	-110.44	-2,375.06	1,157.92	1,936.25	1,842.22	94.03	20.592		
14,700.00	12,060.00	15,496.73	12,740.41	40.66	61.22	-110.62	-2,459.88	1,153.53	1,932.67	1,837.08	95.59	20.218		
14,800.00	12,060.00	15,575.72	12,745.87	41.55	61.98	-110.82	-2,538.59	1,149.79	1,929.94	1,832.82	97.12	19.871		
14,900.00	12,060.00	15,647.95	12,751.46	42.47	62.69	-111.01	-2,610.55	1,147.11	1,928.51	1,829.90	98.61	19.558		
14,939.50	12,060.00	15,674.80	12,753.42	42.85	62.96	-111.08	-2,637.32	1,146.47	1,928.38	1,829.19	99.18	19.442		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 202H - OH - OH													Offset Site Error:	0.00 usft		
Survey Program: 182-3_MWD+HRGM													Offset Well Error:	0.00 usft		
Reference				Offset			Semi Major Axis		Highside		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
15,000.00	12,060.00	15,717.28	12,756.30	43.42	63.38	-111.16	-2,679.70	1,145.94	1,928.68	1,828.60	100.09	19.270				
15,100.00	12,060.00	15,943.15	12,759.75	44.40	65.69	-111.32	-2,905.35	1,142.29	1,927.76	1,824.49	103.27	18.668				
15,200.00	12,060.00	16,037.01	12,755.47	45.40	66.66	-111.24	-2,999.05	1,138.90	1,922.02	1,816.84	105.18	18.274				
15,300.00	12,060.00	16,114.41	12,753.81	46.42	67.47	-111.23	-3,076.38	1,136.40	1,917.45	1,810.53	106.93	17.933				
15,400.00	12,060.00	16,185.00	12,753.11	47.46	68.21	-111.24	-3,146.94	1,134.21	1,913.65	1,805.05	108.61	17.620				
15,500.00	12,060.00	16,244.50	12,753.91	48.51	68.85	-111.28	-3,206.41	1,132.99	1,911.75	1,801.59	110.16	17.355				
15,516.02	12,060.00	16,252.07	12,754.18	48.69	68.93	-111.29	-3,213.98	1,132.93	1,911.71	1,801.33	110.38	17.319				
15,600.00	12,060.00	16,296.91	12,756.59	49.59	69.42	-111.36	-3,258.75	1,132.92	1,912.65	1,801.06	111.60	17.139				
15,700.00	12,060.00	16,374.00	12,762.53	50.68	70.27	-111.53	-3,335.61	1,133.69	1,915.58	1,802.28	113.30	16.907				
15,800.00	12,060.00	16,445.28	12,768.97	51.79	71.06	-111.70	-3,406.58	1,135.04	1,919.84	1,804.91	114.93	16.705				
15,900.00	12,060.00	16,531.91	12,776.53	52.91	72.04	-111.89	-3,492.84	1,137.49	1,924.98	1,808.22	116.76	16.487				
16,000.00	12,060.00	16,735.62	12,786.31	54.04	74.36	-112.13	-3,696.12	1,141.89	1,928.34	1,808.20	120.14	16.051				
16,052.16	12,060.00	16,789.92	12,785.43	54.64	74.98	-112.11	-3,750.40	1,141.87	1,927.59	1,806.29	121.30	15.891				
16,100.00	12,060.00	16,807.37	12,785.25	55.19	75.18	-112.10	-3,767.85	1,142.23	1,927.96	1,806.01	121.95	15.809				
16,200.00	12,060.00	16,844.00	12,785.41	56.34	75.60	-112.09	-3,804.45	1,143.73	1,931.16	1,807.90	123.26	15.667				
16,300.00	12,060.00	16,998.15	12,785.29	57.51	77.40	-112.03	-3,958.46	1,150.20	1,934.11	1,807.88	126.23	15.322				
16,400.00	12,060.00	17,160.87	12,781.00	58.68	79.31	-111.89	-4,121.05	1,153.65	1,934.24	1,804.92	129.32	14.957				
16,500.00	12,060.00	17,265.91	12,776.08	59.87	80.56	-111.74	-4,225.97	1,155.36	1,933.29	1,801.59	131.70	14.679				
16,600.00	12,060.00	17,601.00	12,764.46	61.06	84.49	-111.68	-4,559.90	1,134.90	1,925.19	1,789.09	136.10	14.145				
16,700.00	12,060.00	17,667.32	12,762.26	62.26	85.26	-111.71	-4,625.70	1,126.91	1,912.16	1,774.07	138.09	13.847				
16,800.00	12,060.00	17,811.00	12,758.99	63.47	86.93	-111.83	-4,768.20	1,109.08	1,899.02	1,758.50	140.52	13.514				
16,900.00	12,060.00	17,856.19	12,758.83	64.69	87.47	-111.90	-4,812.94	1,102.80	1,885.77	1,743.39	142.38	13.245				
17,000.00	12,060.00	17,905.00	12,760.51	65.91	88.04	-112.01	-4,861.48	1,097.91	1,876.35	1,732.17	144.18	13.014				
17,100.00	12,060.00	17,938.59	12,761.94	67.14	88.45	-112.08	-4,894.95	1,095.55	1,869.84	1,724.05	145.79	12.825				
17,200.00	12,060.00	17,999.00	12,762.57	68.37	89.18	-112.13	-4,955.30	1,092.97	1,865.61	1,717.99	147.62	12.638				
17,293.81	12,060.00	18,035.85	12,762.10	69.53	89.64	-112.13	-4,992.14	1,092.78	1,864.11	1,715.02	149.09	12.504				
17,300.00	12,060.00	18,038.11	12,762.06	69.61	89.67	-112.12	-4,994.40	1,092.81	1,864.12	1,714.94	149.18	12.496				
17,400.00	12,060.00	18,093.00	12,761.02	70.85	90.35	-112.07	-5,049.21	1,095.32	1,866.28	1,715.38	150.90	12.367				
17,500.00	12,060.00	18,131.16	12,759.96	72.10	90.83	-112.01	-5,087.23	1,098.37	1,871.08	1,718.78	152.30	12.285				
17,600.00	12,060.00	18,250.34	12,754.49	73.35	92.35	-111.74	-5,205.78	1,109.35	1,877.33	1,722.13	155.20	12.096				
17,700.00	12,060.00	18,375.00	12,748.37	74.61	93.93	-111.48	-5,330.00	1,117.74	1,880.91	1,722.73	158.18	11.891				
17,800.00	12,060.00	18,438.64	12,746.36	75.87	94.74	-111.38	-5,393.47	1,121.94	1,885.29	1,725.24	160.05	11.779				
17,900.00	12,060.00	18,588.41	12,741.64	77.14	96.66	-111.14	-5,542.74	1,133.01	1,890.68	1,727.22	163.46	11.567				
18,000.00	12,060.00	18,720.81	12,734.53	78.41	98.36	-110.88	-5,674.79	1,139.47	1,892.51	1,725.94	166.57	11.362				
18,100.00	12,060.00	18,804.19	12,731.29	79.68	99.43	-110.76	-5,758.05	1,142.61	1,893.94	1,725.10	168.84	11.217				
18,200.00	12,060.00	18,870.64	12,730.16	80.96	100.29	-110.71	-5,824.42	1,145.61	1,896.86	1,726.07	170.79	11.107				
18,300.00	12,060.00	18,941.00	12,730.02	82.23	101.20	-110.66	-5,894.63	1,150.10	1,901.87	1,729.11	172.76	11.009				
18,400.00	12,060.00	19,025.33	12,730.53	83.52	102.30	-110.62	-5,978.73	1,156.29	1,908.13	1,733.17	174.96	10.906				
18,500.00	12,060.00	19,085.68	12,731.59	84.80	103.09	-110.60	-6,038.89	1,160.94	1,915.28	1,738.61	176.67	10.841				
18,600.00	12,060.00	19,216.84	12,736.84	86.09	104.81	-110.64	-6,169.46	1,172.18	1,924.35	1,744.65	179.70	10.709				
18,700.00	12,060.00	19,507.00	12,733.56	87.38	108.58	-110.53	-6,459.27	1,176.34	1,921.62	1,736.56	185.06	10.384				
18,800.00	12,060.00	19,569.64	12,731.90	88.67	109.40	-110.50	-6,521.86	1,174.96	1,918.44	1,731.33	187.11	10.253				
18,854.00	12,060.00	19,600.00	12,731.38	89.37	109.79	-110.49	-6,552.22	1,175.38	1,918.27	1,730.13	188.14	10.196				
18,900.00	12,060.00	19,630.95	12,730.52	89.97	110.20	-110.46	-6,583.14	1,176.26	1,918.62	1,729.52	189.10	10.146				
19,000.00	12,060.00	19,746.01	12,720.73	91.26	111.72	-110.14	-6,697.66	1,181.03	1,918.78	1,726.70	192.08	9.989				
19,100.00	12,060.00	19,845.50	12,709.66	92.56	113.03	-109.79	-6,796.41	1,185.89	1,918.83	1,723.93	194.90	9.845				
19,200.00	12,060.00	19,926.48	12,702.51	93.86	114.11	-109.56	-6,876.99	1,189.39	1,919.21	1,721.87	197.34	9.725				
19,300.00	12,060.00	20,002.27	12,697.84	95.17	115.12	-109.40	-6,952.54	1,193.13	1,921.04	1,721.40	199.64	9.623				
19,400.00	12,060.00	20,090.58	12,694.97	96.47	116.29	-109.28	-7,040.71	1,197.25	1,923.61	1,721.54	202.07	9.519				
19,500.00	12,060.00	20,168.00	12,693.93	97.78	117.33	-109.22	-7,118.02	1,201.16	1,927.17	1,722.90	204.27	9.434				
19,600.00	12,060.00	20,262.00	12,693.21	99.09	118.58	-109.16	-7,211.90	1,205.94	1,931.01	1,724.26	206.75	9.340				
19,700.00	12,060.00	20,338.36	12,693.26	100.40	119.61	-109.13	-7,288.13	1,210.20	1,935.67	1,726.78	208.88	9.267				

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



Legacy Directional Drilling
Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 202H - OH - OH											Offset Site Error:	0.00 usft
Survey Program: 182-3_MWD+HRGM											Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Offset Wellbore Centre		Distance			Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	
19,800.00	12,060.00	20,593.62	12,690.03	101.71	123.00	-109.03	-7,543.16	1,213.17	1,932.93	1,719.09	213.84	9.039
19,896.52	12,060.00	20,640.00	12,689.93	102.98	123.62	-109.03	-7,589.53	1,213.32	1,932.16	1,716.51	215.65	8.960
19,900.00	12,060.00	20,640.00	12,689.93	103.02	123.62	-109.03	-7,589.53	1,213.32	1,932.17	1,716.48	215.69	8.958
20,000.00	12,060.00	20,708.16	12,690.09	104.34	124.53	-109.02	-7,657.67	1,215.04	1,933.72	1,715.95	217.76	8.880
20,100.00	12,060.00	20,795.16	12,689.15	105.65	125.70	-108.97	-7,744.60	1,218.29	1,936.14	1,715.99	220.15	8.795
20,200.00	12,060.00	20,883.01	12,686.81	106.97	126.89	-108.87	-7,832.32	1,222.61	1,939.18	1,716.57	222.61	8.711
20,300.00	12,060.00	21,043.17	12,683.70	108.29	129.05	-108.74	-7,992.31	1,228.33	1,941.29	1,715.07	226.22	8.581
20,400.00	12,060.00	21,113.00	12,682.69	109.61	129.99	-108.71	-8,062.13	1,229.57	1,941.92	1,713.56	228.37	8.504
20,500.00	12,060.00	21,174.93	12,682.38	110.93	130.83	-108.68	-8,124.02	1,231.62	1,944.36	1,714.03	230.33	8.442
20,600.00	12,060.00	21,445.97	12,675.34	112.26	134.48	-108.50	-8,394.71	1,232.29	1,941.76	1,706.48	235.28	8.253
20,700.00	12,060.00	21,574.03	12,672.25	113.58	136.18	-108.46	-8,522.65	1,227.88	1,937.24	1,699.16	238.07	8.137
20,800.00	12,060.00	21,646.08	12,670.80	114.90	137.15	-108.46	-8,594.60	1,224.44	1,931.35	1,690.93	240.42	8.033
20,900.00	12,060.00	21,718.47	12,670.00	116.23	138.11	-108.47	-8,666.95	1,222.05	1,927.10	1,684.37	242.73	7.939
21,000.00	12,060.00	21,792.45	12,668.64	117.56	139.11	-108.45	-8,740.90	1,220.75	1,924.11	1,679.06	245.05	7.852
21,100.00	12,060.00	21,865.00	12,668.01	118.88	140.09	-108.44	-8,813.44	1,220.54	1,922.73	1,675.43	247.30	7.775
21,200.00	12,060.00	21,960.00	12,666.70	120.21	141.38	-108.41	-8,908.43	1,220.14	1,921.18	1,671.34	249.84	7.690
21,247.25	12,060.00	21,996.27	12,665.95	120.84	141.87	-108.39	-8,944.70	1,220.14	1,920.64	1,669.71	250.93	7.654
21,300.00	12,060.00	22,017.47	12,665.72	121.54	142.16	-108.38	-8,965.88	1,220.57	1,921.07	1,669.23	251.84	7.628
21,400.00	12,060.00	22,274.24	12,662.61	122.87	145.64	-108.32	-9,222.46	1,220.10	1,921.51	1,665.31	256.20	7.500
21,500.00	12,060.00	22,405.52	12,659.68	124.20	147.40	-108.32	-9,353.44	1,211.95	1,914.14	1,655.23	258.91	7.393
21,600.00	12,060.00	22,523.00	12,658.87	125.54	148.96	-108.40	-9,470.48	1,201.95	1,905.01	1,643.58	261.43	7.287
21,700.00	12,060.00	22,597.00	12,658.34	126.87	149.94	-108.44	-9,544.28	1,196.48	1,896.91	1,633.06	263.85	7.189
21,800.00	12,060.00	22,650.50	12,657.33	128.20	150.67	-108.45	-9,597.69	1,193.69	1,890.51	1,624.36	266.15	7.103
21,900.00	12,060.00	22,690.00	12,656.52	129.54	151.20	-108.44	-9,637.16	1,192.39	1,886.48	1,618.30	268.17	7.035
22,000.00	12,060.00	22,757.63	12,655.61	130.87	152.12	-108.42	-9,704.78	1,191.74	1,884.67	1,614.29	270.38	6.970
22,033.50	12,060.00	22,784.00	12,655.54	131.32	152.48	-108.42	-9,731.15	1,192.06	1,884.73	1,613.58	271.15	6.951
22,100.00	12,060.00	22,808.35	12,655.61	132.21	152.82	-108.42	-9,755.49	1,192.64	1,885.59	1,613.37	272.23	6.927
22,200.00	12,060.00	22,879.00	12,656.52	133.54	153.79	-108.42	-9,826.05	1,195.95	1,889.37	1,615.07	274.30	6.888
22,259.99	12,060.00	22,917.13	12,656.64	134.34	154.32	-108.40	-9,864.11	1,198.39	1,892.39	1,616.94	275.45	6.870 SF

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 205H - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 179-3_MWD+HRGM														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)					
0.00	0.00	0.00	2.00	0.00	0.00	37.81	290.00	225.00	367.05						
100.00	100.00	99.57	101.57	1.51	0.15	30.97	289.74	224.98	366.22	364.55	1.67	219.670			
200.00	199.97	200.96	202.96	1.66	0.36	33.29	288.96	224.93	363.74	361.73	2.02	180.332			
300.00	299.93	300.17	302.16	2.21	0.71	41.13	287.83	225.08	360.57	357.66	2.91	123.844			
400.00	399.82	400.92	402.91	2.55	1.07	60.03	287.01	225.08	357.21	353.63	3.58	99.657			
500.00	499.65	500.34	502.32	2.84	1.43	66.14	286.15	224.75	353.66	349.44	4.22	83.788			
600.00	599.45	599.89	601.87	3.18	1.78	83.18	285.37	224.58	351.17	346.30	4.87	72.097			
667.19	666.34	666.15	668.13	3.55	2.02	92.69	284.91	224.49	350.61	345.27	5.34	65.685	CC, ES		
700.00	698.87	698.34	700.31	3.75	2.14	95.97	284.71	224.49	350.95	345.39	5.55	63.185			
800.00	798.06	796.22	798.20	3.97	2.49	99.69	284.31	224.59	352.50	346.38	6.12	57.598			
900.00	897.41	894.94	896.91	4.19	2.82	102.81	284.29	224.76	354.82	348.15	6.67	53.194			
1,000.00	996.75	995.25	997.23	4.43	3.16	106.09	284.47	224.57	357.69	350.47	7.22	49.551			
1,100.00	1,095.77	1,094.37	1,096.34	4.71	3.50	108.24	284.68	224.16	361.71	353.90	7.81	46.331			
1,200.00	1,194.75	1,192.50	1,194.47	5.15	3.83	110.12	284.95	223.89	366.40	357.79	8.61	42.568			
1,300.00	1,293.76	1,289.11	1,291.09	5.43	4.16	112.86	285.22	224.10	371.89	362.65	9.24	40.248			
1,400.00	1,392.81	1,382.38	1,384.34	5.62	4.48	114.63	286.28	224.92	378.93	369.18	9.75	38.870			
1,500.00	1,491.86	1,474.62	1,476.52	5.81	4.80	116.73	289.01	226.58	388.00	377.75	10.25	37.850			
1,600.00	1,590.95	1,571.69	1,573.44	6.00	5.13	118.25	294.15	228.44	398.65	387.87	10.77	37.004			
1,700.00	1,690.07	1,667.72	1,669.29	6.19	5.47	118.83	299.72	230.34	409.70	398.41	11.29	36.283			
1,800.00	1,789.13	1,760.46	1,761.77	6.38	5.80	120.13	306.19	232.82	422.17	410.38	11.80	35.791			
1,900.00	1,888.18	1,852.39	1,853.29	6.57	6.12	120.57	314.21	236.08	436.45	424.16	12.29	35.499			
2,000.00	1,987.20	1,952.49	1,952.78	6.76	6.48	122.09	324.67	239.72	451.82	438.98	12.84	35.183			
2,100.00	2,086.18	2,046.07	2,045.72	6.96	6.82	122.16	335.03	242.79	467.43	454.07	13.36	34.998			
2,200.00	2,185.14	2,141.60	2,140.59	7.15	7.17	122.99	345.26	247.32	484.25	470.37	13.88	34.880			
2,300.00	2,284.09	2,239.29	2,237.58	7.35	7.53	124.20	355.90	252.21	501.60	487.17	14.43	34.771			
2,400.00	2,382.99	2,333.23	2,330.82	7.54	7.87	123.61	366.14	257.34	519.53	504.58	14.95	34.753			
2,500.00	2,481.85	2,427.67	2,424.50	7.74	8.23	122.69	376.48	263.35	538.20	522.72	15.48	34.773			
2,600.00	2,580.66	2,525.54	2,521.57	7.94	8.59	121.35	386.88	270.13	557.09	541.06	16.03	34.751			
2,700.00	2,679.45	2,627.51	2,622.78	8.13	8.97	119.67	397.37	276.97	575.36	558.75	16.61	34.637			
2,800.00	2,778.25	2,726.42	2,720.94	8.33	9.35	116.56	407.92	282.98	592.49	575.32	17.17	34.499			
2,900.00	2,877.08	2,820.98	2,814.72	8.53	9.70	113.47	418.42	288.86	609.00	591.29	17.71	34.386			
3,000.00	2,975.87	2,926.33	2,919.22	8.73	10.11	111.00	430.41	295.01	624.59	606.28	18.32	34.101			
3,100.00	3,074.61	3,028.37	3,020.38	8.93	10.50	109.23	442.86	299.63	638.80	619.89	18.90	33.792			
3,200.00	3,173.35	3,127.86	3,118.98	9.12	10.88	107.54	455.37	304.13	652.64	633.16	19.48	33.506			
3,300.00	3,272.11	3,239.09	3,229.40	9.32	11.30	110.34	468.28	307.77	664.73	644.62	20.12	33.044			
3,400.00	3,370.95	3,334.94	3,324.64	9.52	11.66	110.91	478.76	310.46	676.77	656.10	20.67	32.744			
3,500.00	3,469.86	3,432.88	3,421.91	9.76	12.03	126.35	489.56	314.15	690.62	669.33	21.29	32.444			
3,600.00	3,568.72	3,536.47	3,524.98	9.97	12.42	127.80	499.19	317.81	706.55	684.66	21.89	32.276			
3,700.00	3,667.55	3,640.68	3,628.70	10.18	12.82	124.24	508.78	321.01	721.52	699.04	22.48	32.094			
3,800.00	3,766.44	3,750.74	3,738.32	10.38	13.22	132.38	518.37	323.18	735.28	712.18	23.10	31.830			
3,900.00	3,865.32	3,846.71	3,833.98	10.63	13.58	147.66	525.90	324.61	750.61	726.95	23.66	31.727			
4,000.00	3,964.02	3,946.23	3,933.18	10.84	13.95	145.48	533.69	326.38	768.20	743.99	24.22	31.724			
4,100.00	4,062.53	4,061.22	4,047.90	11.05	14.37	146.04	541.44	327.36	785.33	760.49	24.84	31.614			
4,200.00	4,160.91	4,164.57	4,151.13	11.26	14.74	145.91	546.46	327.25	801.60	776.19	25.41	31.542			
4,300.00	4,259.37	4,257.53	4,244.04	11.48	15.06	147.47	549.28	327.86	817.79	791.85	25.94	31.527			
4,400.00	4,357.97	4,351.45	4,337.94	11.69	15.39	146.23	550.42	329.74	834.26	807.80	26.46	31.525			
4,500.00	4,456.67	4,450.55	4,437.01	11.93	15.74	135.49	551.81	331.60	848.89	821.87	27.02	31.417			
4,600.00	4,555.52	4,539.69	4,526.10	12.14	16.05	128.61	553.69	333.66	861.79	834.26	27.52	31.312			
4,700.00	4,654.60	4,633.29	4,619.62	12.33	16.38	124.24	555.29	337.22	873.97	845.94	28.03	31.178			
4,800.00	4,753.79	4,767.67	4,753.95	12.52	16.84	120.85	555.08	340.17	882.92	854.22	28.70	30.768			
4,900.00	4,853.10	4,859.74	4,846.00	12.70	17.14	121.05	553.02	340.45	888.67	859.50	29.17	30.461			
5,000.00	4,952.47	4,943.56	4,929.78	12.88	17.42	127.00	551.05	342.42	896.64	867.02	29.62	30.273			

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 205H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 179-3_MWD+HRGM											Rule Assigned:		Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Offset Wellbore Centre		Distance			Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
5,100.00	5,051.72	5,031.84	5,017.98	13.07	17.72	135.35	549.21	345.67	907.90	877.81	30.09	30.175		
5,200.00	5,150.85	5,147.87	5,133.90	13.26	18.11	140.09	547.47	350.05	921.25	890.56	30.69	30.015		
5,300.00	5,250.23	5,281.40	5,267.42	13.45	18.55	141.43	546.19	350.16	929.82	898.49	31.33	29.675		
5,400.00	5,349.42	5,376.02	5,362.04	13.64	18.87	139.04	545.85	348.88	938.13	906.28	31.85	29.450		
5,500.00	5,448.36	5,473.03	5,459.04	13.93	19.19	138.58	546.11	347.63	947.88	915.42	32.46	29.201		
5,600.00	5,547.22	5,570.27	5,556.27	14.18	19.52	138.03	546.24	346.59	958.17	925.14	33.03	29.007		
5,700.00	5,646.05	5,667.75	5,653.75	14.39	19.85	134.19	546.05	345.79	968.49	934.93	33.56	28.860		
5,800.00	5,744.82	5,766.21	5,752.20	14.60	20.18	130.57	545.87	344.97	978.14	944.05	34.09	28.693		
5,900.00	5,843.58	5,862.28	5,848.27	14.80	20.51	131.01	546.15	344.44	987.87	953.25	34.62	28.538		
6,000.00	5,942.43	5,964.87	5,950.85	15.00	20.86	133.23	546.56	343.69	997.37	962.20	35.17	28.362		
6,100.00	6,041.27	6,063.06	6,049.05	15.21	21.19	135.44	546.46	342.82	1,007.20	971.50	35.70	28.214		
6,200.00	6,140.02	6,160.74	6,146.72	15.42	21.52	135.75	546.55	342.20	1,017.93	981.69	36.23	28.096		
6,300.00	6,238.81	6,258.58	6,244.56	15.62	21.85	138.93	546.13	341.55	1,028.63	991.87	36.76	27.982		
6,400.00	6,337.75	6,355.12	6,341.10	15.82	22.18	139.57	545.66	341.20	1,039.30	1,002.02	37.28	27.879		
6,500.00	6,436.81	6,455.01	6,440.98	16.02	22.51	142.44	545.29	340.89	1,049.66	1,011.85	37.81	27.763		
6,600.00	6,535.79	6,550.09	6,536.06	16.22	22.84	143.88	544.79	340.62	1,060.77	1,022.45	38.32	27.680		
6,700.00	6,634.61	6,644.75	6,630.72	16.42	23.17	147.12	544.89	340.83	1,073.68	1,034.83	38.85	27.639		
6,800.00	6,733.38	6,745.88	6,731.85	16.63	23.52	148.10	545.45	341.14	1,087.21	1,047.81	39.40	27.594		
6,900.00	6,832.33	6,847.13	6,833.10	16.83	23.87	154.85	546.27	341.12	1,099.96	1,060.01	39.95	27.534		
7,000.00	6,931.52	6,942.63	6,928.60	17.02	24.21	155.16	546.72	341.16	1,111.56	1,071.09	40.47	27.466		
7,100.00	7,031.09	7,048.84	7,034.80	17.21	24.58	152.14	547.33	341.21	1,119.89	1,078.85	41.04	27.289		
7,200.00	7,131.03	7,147.65	7,133.61	17.42	24.92	106.43	547.78	340.89	1,121.83	1,080.32	41.50	27.029		
7,300.00	7,231.02	7,243.00	7,228.96	17.52	25.25	89.63	548.03	340.93	1,121.97	1,080.07	41.90	26.775		
7,400.00	7,331.02	7,348.50	7,334.46	17.62	25.62	92.84	548.39	340.86	1,121.95	1,079.61	42.34	26.500		
7,429.63	7,360.64	7,375.98	7,361.94	17.65	25.72	95.73	548.52	340.80	1,121.91	1,079.45	42.45	26.427		
7,500.00	7,431.01	7,442.90	7,428.86	17.73	25.95	102.56	548.91	340.87	1,122.06	1,079.33	42.74	26.256		
7,600.00	7,531.00	7,548.05	7,534.01	17.84	26.32	115.88	549.55	340.73	1,122.34	1,079.15	43.19	25.986		
7,700.00	7,631.00	7,643.99	7,629.94	17.95	26.65	133.32	549.93	340.62	1,122.80	1,079.18	43.62	25.741		
7,800.00	7,730.99	7,741.36	7,727.31	18.05	26.99	136.34	550.44	340.92	1,123.88	1,079.81	44.06	25.507		
7,900.00	7,830.99	7,845.25	7,831.20	18.15	27.36	167.54	550.97	340.99	1,124.76	1,080.22	44.53	25.256		
8,000.00	7,930.98	7,945.63	7,931.58	18.22	27.71	-153.05	551.78	340.98	1,125.71	1,080.73	44.98	25.026		
8,100.00	8,030.98	8,044.72	8,030.67	18.24	28.06	-121.19	552.29	340.89	1,126.20	1,080.80	45.40	24.807		
8,200.00	8,130.97	8,145.06	8,131.01	18.25	28.41	-138.25	552.47	340.98	1,127.20	1,081.38	45.82	24.602		
8,300.00	8,230.95	8,247.90	8,233.84	18.57	28.77	40.70	552.61	340.83	1,126.73	1,080.37	46.36	24.304		
8,400.00	8,330.88	8,345.99	8,331.93	18.64	29.10	41.78	552.54	340.61	1,123.74	1,077.03	46.71	24.060		
8,500.00	8,430.83	8,443.78	8,429.73	18.68	29.43	37.04	552.15	340.63	1,121.22	1,074.19	47.03	23.839		
8,600.00	8,530.80	8,539.53	8,525.47	18.71	29.76	27.64	551.55	340.89	1,119.28	1,071.94	47.34	23.641		
8,700.00	8,630.77	8,644.62	8,630.56	18.73	30.12	16.63	551.16	341.24	1,117.64	1,069.95	47.68	23.438		
8,800.00	8,730.76	8,745.47	8,731.41	18.74	30.46	16.59	550.97	341.20	1,116.16	1,068.15	48.01	23.248		
8,900.00	8,830.76	8,847.73	8,833.67	18.74	30.82	-14.00	551.23	341.04	1,115.01	1,066.66	48.35	23.063		
9,000.00	8,930.75	8,949.92	8,935.86	18.72	31.18	-23.53	551.18	340.62	1,113.66	1,064.99	48.67	22.882		
9,100.00	9,030.74	9,044.88	9,030.82	18.70	31.50	-52.20	551.15	340.44	1,112.37	1,063.39	48.98	22.711		
9,148.16	9,078.90	9,093.38	9,079.32	18.69	31.67	-91.96	551.19	340.42	1,112.21	1,063.05	49.16	22.624		
9,200.00	9,130.74	9,145.65	9,131.59	18.68	31.85	-119.88	551.19	340.40	1,112.55	1,063.19	49.35	22.542		
9,300.00	9,230.72	9,246.93	9,232.86	18.68	32.20	-121.56	551.14	340.27	1,113.44	1,063.68	49.75	22.379		
9,400.00	9,330.70	9,349.42	9,335.35	18.68	32.56	-111.70	551.24	339.97	1,114.08	1,063.93	50.16	22.213		
9,500.00	9,430.67	9,448.15	9,434.09	18.67	32.90	-111.15	552.14	339.48	1,114.31	1,063.77	50.54	22.048		
9,600.00	9,530.64	9,549.85	9,535.77	18.66	33.26	-120.40	552.90	339.29	1,115.22	1,064.28	50.94	21.892		
9,700.00	9,630.59	9,648.95	9,634.87	18.67	33.61	-129.18	553.79	338.63	1,116.33	1,064.99	51.35	21.741		
9,800.00	9,730.54	9,756.26	9,742.18	18.69	33.98	-143.05	554.00	338.17	1,118.24	1,066.45	51.79	21.590		
9,900.00	9,830.48	9,857.68	9,843.59	18.74	34.33	-152.59	553.29	336.89	1,119.91	1,067.68	52.23	21.441		
10,000.00	9,930.42	9,957.76	9,943.66	18.80	34.67	-151.80	552.34	335.77	1,121.95	1,069.28	52.67	21.301		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 205H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 179-3_MWD+HRGM													Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Offset Wellbore Centre		Distance				Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
10,100.00	10,030.33	10,050.87	10,036.76	18.85	34.99	-147.34	551.82	334.92	1,124.71	1,071.62	53.09	21.187		
10,200.00	10,130.19	10,150.29	10,136.18	18.91	35.34	-153.22	551.83	334.43	1,128.74	1,075.22	53.53	21.088		
10,300.00	10,229.97	10,255.52	10,241.41	18.99	35.70	-152.60	551.63	333.65	1,133.94	1,079.94	53.99	21.002		
10,400.00	10,329.68	10,365.15	10,351.02	19.05	36.08	-138.46	551.32	331.86	1,138.45	1,083.99	54.46	20.905		
10,500.00	10,429.39	10,449.66	10,435.52	19.09	36.37	-122.12	550.56	330.94	1,142.18	1,087.36	54.82	20.836		
10,600.00	10,529.12	10,564.39	10,550.24	19.11	36.76	-125.13	549.65	329.55	1,144.99	1,089.73	55.26	20.720		
10,700.00	10,628.94	10,673.82	10,659.64	19.14	37.14	-131.13	549.37	327.09	1,146.44	1,090.75	55.70	20.583		
10,800.00	10,728.88	10,777.93	10,763.70	19.17	37.50	-134.54	549.68	323.98	1,145.70	1,089.57	56.13	20.410		
10,900.00	10,828.84	10,879.47	10,865.19	19.23	37.85	-161.32	549.88	320.86	1,144.80	1,088.22	56.58	20.235		
11,000.00	10,928.83	10,977.78	10,963.45	19.32	38.19	-158.66	548.79	317.78	1,143.47	1,086.44	57.02	20.052		
11,100.00	11,028.81	11,077.20	11,062.82	19.44	38.54	-140.51	547.95	314.90	1,141.96	1,084.48	57.48	19.868		
11,200.00	11,128.80	11,173.85	11,159.42	19.56	38.87	-135.45	546.70	312.16	1,140.37	1,082.45	57.92	19.689		
11,291.76	11,220.53	11,254.31	11,239.87	19.67	39.15	-146.14	546.00	310.35	1,139.71	1,081.41	58.30	19.548		
11,300.00	11,228.77	11,261.31	11,246.87	19.68	39.17	-147.04	545.95	310.24	1,139.71	1,081.37	58.34	19.537		
11,400.00	11,328.75	11,359.19	11,344.72	19.79	39.51	-179.97	544.60	309.05	1,140.28	1,081.49	58.78	19.398		
11,500.00	11,428.49	11,468.90	11,472.29	20.94	39.94	-95.01	539.46	306.19	1,139.49	1,078.90	60.59	18.806		
11,600.00	11,525.17	11,587.60	11,572.85	21.69	40.29	-89.95	535.74	302.41	1,136.29	1,074.64	61.65	18.432		
11,700.00	11,617.80	11,687.05	11,672.15	21.72	40.63	-90.17	532.39	298.12	1,131.12	1,069.29	61.83	18.293		
11,800.00	11,705.23	11,773.32	11,758.29	21.90	40.93	-88.97	529.48	294.36	1,125.43	1,063.48	61.95	18.165		
11,900.00	11,783.36	11,860.27	11,845.10	22.16	41.23	-91.84	526.43	290.35	1,119.14	1,057.17	61.97	18.058		
11,930.71	11,805.26	11,881.22	11,866.01	22.23	41.30	-94.38	525.67	289.34	1,118.44	1,056.40	62.04	18.029		
12,000.00	11,851.85	11,926.01	11,910.72	22.38	41.45	-99.36	524.12	287.24	1,121.43	1,059.28	62.15	18.044		
12,100.00	11,909.84	11,981.85	11,966.48	22.67	41.64	-97.95	522.33	284.78	1,134.47	1,072.30	62.17	18.247		
12,200.00	11,951.37	12,022.09	12,006.67	22.90	41.78	-96.73	521.11	283.13	1,150.33	1,088.31	62.02	18.546		
12,300.00	11,975.92	12,049.00	12,033.54	23.11	41.88	-95.60	520.32	282.09	1,173.43	1,111.66	61.77	18.996		
12,400.00	11,985.05	12,058.22	12,042.75	23.37	41.91	-93.68	520.06	281.73	1,207.07	1,145.57	61.50	19.626		
12,500.00	11,987.32	12,062.50	12,047.03	23.67	41.92	-93.90	519.95	281.56	1,248.77	1,187.52	61.25	20.389		
12,600.00	11,990.72	13,380.75	12,712.69	24.08	45.50	-124.19	-366.83	352.78	1,286.19	1,220.16	66.03	19.479		
12,700.00	11,996.12	13,435.90	12,713.00	24.48	45.71	-124.04	-421.97	351.73	1,274.05	1,207.63	66.42	19.180		
12,800.00	12,004.27	13,523.32	12,716.25	24.94	46.05	-124.02	-509.31	349.86	1,263.14	1,196.07	67.06	18.835		
12,900.00	12,012.70	13,609.57	12,720.36	25.44	46.43	-124.18	-595.44	347.97	1,254.26	1,186.50	67.76	18.510		
13,000.00	12,021.18	13,755.00	12,726.48	26.00	47.11	-124.18	-740.69	344.74	1,247.12	1,178.12	69.00	18.073		
13,100.00	12,030.65	13,797.92	12,727.73	26.62	47.34	-124.11	-783.59	344.52	1,240.40	1,170.90	69.50	17.848		
13,200.00	12,040.26	13,887.67	12,730.37	27.28	47.82	-123.90	-873.26	347.11	1,237.90	1,167.44	70.46	17.588		
13,300.00	12,048.54	14,004.77	12,732.58	27.99	48.50	-123.63	-990.33	348.51	1,235.02	1,163.25	71.77	17.207		
13,400.00	12,055.24	14,102.48	12,735.75	28.75	49.10	-123.53	-1,087.98	348.70	1,233.37	1,160.43	72.94	16.910		
13,500.00	12,057.83	14,235.07	12,739.96	29.55	49.96	-123.59	-1,220.48	346.34	1,232.93	1,158.40	74.52	16.545		
13,536.23	12,058.40	14,258.03	12,740.79	29.85	50.11	-123.61	-1,243.42	345.77	1,232.73	1,157.90	74.82	16.475		
13,600.00	12,059.41	14,309.00	12,743.26	30.39	50.46	-123.69	-1,294.32	345.16	1,232.95	1,157.49	75.47	16.338		
13,700.00	12,058.40	14,388.52	12,747.39	31.26	51.03	-123.90	-1,373.74	345.29	1,235.85	1,159.36	76.49	16.158		
13,800.00	12,058.93	14,523.19	12,751.22	32.17	52.03	-124.03	-1,508.34	345.58	1,237.08	1,158.80	78.29	15.802		
13,900.00	12,058.02	14,735.05	12,751.24	33.10	53.67	-124.36	-1,719.59	333.41	1,232.69	1,151.66	81.03	15.213		
14,000.00	12,058.21	14,796.06	12,751.97	35.46	54.16	-124.71	-1,780.35	327.87	1,224.37	1,142.70	81.66	14.993		
14,100.00	12,058.69	14,923.00	12,751.59	36.06	55.20	-125.38	-1,906.69	315.98	1,208.61	1,125.57	83.04	14.555		
14,200.00	12,059.54	14,972.00	12,750.91	36.71	55.62	-125.43	-1,955.56	312.48	1,195.86	1,112.18	83.68	14.291		
14,300.00	12,059.96	15,161.00	12,750.87	37.42	57.28	-125.88	-2,143.97	299.64	1,188.42	1,102.54	85.88	13.838		
14,400.00	12,060.00	15,193.00	12,750.24	38.17	57.57	-125.91	-2,175.82	296.61	1,179.06	1,092.62	86.44	13.640		
14,500.00	12,060.00	15,256.00	12,749.49	38.97	58.14	-125.97	-2,238.75	293.89	1,174.36	1,087.00	87.36	13.442		
14,552.89	12,060.00	15,274.83	12,749.43	39.40	58.32	-125.98	-2,257.58	293.71	1,173.56	1,085.90	87.66	13.387		
14,600.00	12,060.00	15,287.00	12,749.51	39.79	58.43	-125.98	-2,269.74	293.91	1,174.20	1,086.36	87.84	13.367		
14,700.00	12,060.00	15,340.34	12,750.22	40.66	58.94	-125.94	-2,323.00	296.69	1,178.84	1,090.22	88.62	13.302		
14,800.00	12,060.00	15,397.94	12,751.20	41.55	59.49	-125.82	-2,380.28	302.64	1,187.56	1,098.07	89.49	13.271		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 205H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 179-3_MWD+HRGM											Rule Assigned:		Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Offset Wellbore Centre		Distance			Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
14,900.00	12,060.00	15,557.99	12,752.03	42.47	61.07	-125.32	-2,538.96	323.11	1,198.92	1,106.61	92.31	12,989		
15,000.00	12,060.00	15,727.00	12,750.31	43.42	62.77	-125.08	-2,707.62	330.43	1,201.02	1,105.89	95.13	12,625		
15,004.45	12,060.00	15,727.00	12,750.31	43.47	62.77	-125.08	-2,707.62	330.43	1,201.02	1,105.88	95.13	12,624		
15,100.00	12,060.00	15,767.39	12,749.55	44.40	63.19	-125.01	-2,747.94	332.45	1,203.29	1,107.42	95.87	12,551		
15,200.00	12,060.00	15,837.35	12,748.75	45.40	63.92	-124.80	-2,817.55	339.40	1,209.87	1,112.72	97.14	12,454		
15,300.00	12,060.00	15,883.00	12,749.02	46.42	64.40	-124.70	-2,862.97	343.94	1,218.56	1,120.67	97.89	12,448		
15,400.00	12,060.00	15,942.73	12,750.75	47.46	65.04	-124.54	-2,922.02	352.70	1,231.69	1,132.79	98.90	12,453		
15,500.00	12,060.00	16,340.50	12,734.02	48.51	69.39	-123.07	-3,315.91	387.63	1,240.30	1,133.69	106.61	11,634		
15,600.00	12,060.00	16,407.58	12,726.64	49.59	70.13	-122.82	-3,382.56	386.47	1,232.31	1,124.11	108.20	11,389		
15,700.00	12,060.00	16,456.00	12,723.91	50.68	70.67	-122.73	-3,430.90	386.28	1,228.13	1,118.73	109.40	11,226		
15,791.03	12,060.00	16,519.00	12,722.95	51.69	71.38	-122.69	-3,493.88	387.01	1,227.51	1,116.80	110.71	11,088		
15,800.00	12,060.00	16,526.13	12,723.07	51.79	71.46	-122.70	-3,501.01	387.00	1,227.53	1,116.68	110.85	11,074		
15,900.00	12,060.00	16,633.60	12,725.41	52.91	72.68	-122.81	-3,608.46	387.11	1,228.16	1,115.34	112.82	10,886		
16,000.00	12,060.00	16,744.44	12,727.80	54.04	73.94	-122.98	-3,719.25	384.88	1,226.92	1,112.11	114.81	10,687		
16,100.00	12,060.00	16,867.56	12,729.85	55.19	75.36	-123.17	-3,842.30	381.67	1,225.03	1,108.04	116.99	10,471		
16,200.00	12,060.00	16,980.36	12,728.56	56.34	76.66	-123.22	-3,955.04	378.32	1,221.24	1,102.13	119.11	10,253		
16,300.00	12,060.00	17,074.67	12,726.67	57.51	77.77	-123.23	-4,049.30	375.80	1,217.24	1,096.24	121.00	10,060		
16,400.00	12,060.00	17,165.50	12,725.08	58.68	78.83	-123.24	-4,140.09	374.01	1,213.96	1,091.10	122.86	9,881		
16,500.00	12,060.00	17,260.77	12,723.52	59.87	79.97	-123.23	-4,235.34	372.48	1,211.05	1,086.25	124.80	9,704		
16,600.00	12,060.00	17,347.10	12,723.06	61.06	81.00	-123.25	-4,321.66	371.70	1,209.29	1,082.70	126.59	9,553		
16,700.00	12,060.00	17,468.66	12,720.56	62.26	82.46	-123.26	-4,443.15	368.52	1,204.96	1,075.97	128.98	9,342		
16,768.72	12,060.00	17,504.31	12,719.91	63.09	82.89	-123.25	-4,478.79	368.44	1,203.67	1,073.82	129.85	9,270		
16,800.00	12,060.00	17,527.00	12,719.69	63.47	83.16	-123.23	-4,501.48	368.86	1,203.75	1,073.39	130.35	9,234		
16,900.00	12,060.00	17,652.60	12,717.10	64.69	84.70	-123.12	-4,627.03	370.29	1,202.90	1,069.91	132.99	9,045		
17,000.00	12,060.00	17,738.12	12,714.86	65.91	85.75	-123.03	-4,712.52	370.94	1,201.45	1,066.54	134.91	8,905		
17,032.06	12,060.00	17,761.77	12,714.39	66.30	86.04	-123.01	-4,736.17	371.34	1,201.34	1,065.89	135.46	8,869		
17,100.00	12,060.00	17,812.00	12,713.69	67.14	86.66	-122.95	-4,786.37	372.64	1,201.85	1,065.25	136.60	8,799		
17,200.00	12,060.00	17,954.12	12,710.70	68.37	88.42	-122.80	-4,928.44	374.94	1,201.31	1,061.68	139.64	8,603		
17,300.00	12,060.00	18,047.80	12,706.75	69.61	89.59	-122.65	-5,022.02	375.66	1,199.05	1,057.23	141.82	8,455		
17,366.10	12,060.00	18,096.00	12,704.96	70.43	90.20	-122.56	-5,070.18	376.74	1,198.53	1,055.53	143.00	8,381		
17,400.00	12,060.00	18,118.71	12,704.23	70.85	90.49	-122.51	-5,092.86	377.50	1,198.68	1,055.12	143.56	8,350		
17,500.00	12,060.00	18,191.00	12,702.62	72.10	91.40	-122.36	-5,165.03	381.30	1,201.12	1,055.82	145.30	8,266		
17,600.00	12,060.00	18,379.40	12,693.54	73.35	93.78	-121.96	-5,353.12	384.44	1,198.04	1,048.50	149.54	8,012		
17,700.00	12,060.00	18,457.33	12,689.28	74.61	94.77	-121.79	-5,430.93	384.80	1,194.86	1,043.31	151.55	7,884		
17,800.00	12,060.00	18,547.44	12,685.82	75.87	95.92	-121.64	-5,520.97	385.85	1,193.14	1,039.40	153.74	7,761		
17,900.00	12,060.00	18,652.67	12,682.45	77.14	97.27	-121.50	-5,626.15	386.87	1,191.61	1,035.41	156.20	7,629		
18,000.00	12,060.00	18,754.61	12,678.75	78.41	98.57	-121.35	-5,728.01	387.60	1,189.64	1,031.02	158.62	7,500		
18,100.00	12,060.00	18,853.00	12,675.00	79.68	99.84	-121.19	-5,826.33	388.32	1,187.62	1,026.62	161.00	7,377		
18,158.40	12,060.00	18,889.09	12,673.95	80.43	100.31	-121.15	-5,862.40	388.82	1,187.04	1,025.09	161.95	7,330		
18,200.00	12,060.00	18,914.01	12,673.50	80.96	100.63	-121.11	-5,887.31	389.50	1,187.33	1,024.75	162.58	7,303		
18,300.00	12,060.00	19,013.00	12,672.81	82.23	101.91	-121.01	-5,986.21	393.44	1,189.69	1,024.75	164.94	7,213		
18,400.00	12,060.00	19,142.97	12,669.85	83.52	103.60	-120.84	-6,116.10	396.45	1,189.79	1,021.79	167.99	7,082		
18,424.45	12,060.00	19,154.69	12,669.51	83.83	103.76	-120.82	-6,127.82	396.74	1,189.72	1,021.39	168.33	7,068		
18,500.00	12,060.00	19,203.02	12,668.44	84.80	104.39	-120.74	-6,176.11	398.43	1,190.62	1,021.05	169.57	7,021		
18,600.00	12,060.00	19,271.21	12,668.08	86.09	105.28	-120.65	-6,244.19	402.19	1,194.36	1,023.15	171.21	6,976		
18,700.00	12,060.00	19,347.43	12,669.37	87.38	106.29	-120.59	-6,320.21	407.51	1,200.51	1,027.55	172.96	6,941		
18,800.00	12,060.00	19,518.25	12,670.88	88.67	108.54	-120.40	-6,490.61	418.94	1,207.09	1,029.89	177.20	6,812		
18,900.00	12,060.00	19,637.20	12,667.65	89.97	110.11	-120.20	-6,609.43	423.06	1,208.14	1,028.00	180.14	6,707		
19,000.00	12,060.00	19,803.67	12,659.39	91.26	112.30	-119.90	-6,775.65	422.68	1,204.66	1,020.79	183.86	6,552		
19,100.00	12,060.00	19,890.00	12,654.47	92.56	113.44	-119.76	-6,861.82	420.63	1,199.09	1,012.91	186.18	6,441		
19,200.00	12,060.00	19,976.12	12,649.95	93.86	114.57	-119.61	-6,947.81	419.49	1,194.67	1,006.18	188.49	6,338		
19,300.00	12,060.00	20,068.62	12,645.32	95.17	115.80	-119.44	-7,040.19	419.32	1,191.34	1,000.41	190.94	6,240		

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



Legacy Directional Drilling
Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 205H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 179-3_MWD+HRGM											Rule Assigned:		Offset Well Error:	0.00 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset 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	
19,400.00	12,060.00	20,200.48	12,639.27	96.47	117.54	-119.28	-7,171.87	416.67	1,186.54	992.61	193.94	6.118		
19,500.00	12,060.00	20,299.03	12,636.69	97.78	118.84	-119.28	-7,270.31	412.81	1,181.15	984.89	196.26	6.018		
19,600.00	12,060.00	20,406.33	12,636.53	99.09	120.24	-119.45	-7,377.40	406.05	1,174.86	976.41	198.45	5.920		
19,700.00	12,060.00	20,494.98	12,636.05	100.40	121.41	-119.57	-7,465.90	401.09	1,169.03	968.53	200.50	5.831		
19,800.00	12,060.00	20,578.22	12,635.41	101.71	122.51	-119.64	-7,549.07	397.55	1,164.29	961.78	202.51	5.749		
19,900.00	12,060.00	20,649.93	12,634.94	103.02	123.46	-119.68	-7,620.75	395.90	1,161.37	957.02	204.35	5.683		
20,000.00	12,060.00	20,766.00	12,635.04	104.34	125.01	-119.78	-7,736.76	392.72	1,158.20	951.36	206.84	5.600		
20,051.72	12,060.00	20,785.00	12,635.59	105.02	125.26	-119.82	-7,755.75	392.32	1,157.53	950.13	207.40	5.581		
20,100.00	12,060.00	20,805.00	12,636.84	105.65	125.53	-119.88	-7,775.71	392.10	1,158.17	950.36	207.81	5.573		
20,200.00	12,060.00	20,882.28	12,643.92	106.97	126.57	-120.21	-7,852.66	391.85	1,161.75	952.64	209.11	5.556		
20,300.00	12,060.00	21,006.24	12,651.18	108.29	128.25	-120.49	-7,976.37	393.92	1,165.54	953.88	211.67	5.507		
20,400.00	12,060.00	21,179.51	12,649.54	109.61	130.58	-120.47	-8,149.60	393.42	1,163.65	948.17	215.48	5.400		
20,500.00	12,060.00	21,300.00	12,645.41	110.93	132.20	-120.42	-8,269.94	389.21	1,158.08	939.90	218.18	5.308		
20,600.00	12,060.00	21,356.13	12,643.50	112.26	132.95	-120.38	-8,326.02	387.82	1,153.86	933.91	219.95	5.246		
20,624.00	12,060.00	21,367.64	12,643.25	112.57	133.11	-120.37	-8,337.52	387.88	1,153.53	933.23	220.31	5.236		
20,700.00	12,060.00	21,418.18	12,642.53	113.58	133.79	-120.32	-8,388.03	389.26	1,154.09	932.43	221.65	5.207		
20,800.00	12,060.00	21,532.90	12,639.63	114.90	135.35	-120.13	-8,502.66	392.87	1,154.84	930.17	224.67	5.140		
20,900.00	12,060.00	21,753.54	12,638.14	116.23	138.32	-120.34	-8,722.93	383.63	1,150.73	922.56	228.17	5.043		
21,000.00	12,060.00	21,845.15	12,637.09	117.56	139.53	-120.57	-8,813.95	373.41	1,139.91	909.81	230.10	4.954		
21,100.00	12,060.00	21,887.00	12,637.19	118.88	140.08	-120.67	-8,855.67	370.06	1,132.67	900.89	231.78	4.887		
21,183.85	12,060.00	21,919.46	12,637.87	120.00	140.52	-120.73	-8,888.10	369.22	1,130.89	898.11	232.78	4.858		
21,200.00	12,060.00	21,926.72	12,638.05	120.21	140.62	-120.74	-8,895.36	369.20	1,130.96	898.00	232.95	4.855		
21,300.00	12,060.00	21,977.52	12,639.51	121.54	141.32	-120.78	-8,946.13	370.42	1,133.86	899.91	233.95	4.847		
21,400.00	12,060.00	22,055.33	12,642.28	122.87	142.39	-120.78	-9,023.71	375.67	1,140.60	904.98	235.63	4.841		
21,500.00	12,060.00	22,146.00	12,645.23	124.20	143.64	-120.76	-9,114.10	382.07	1,147.68	909.95	237.73	4.828		
21,600.00	12,060.00	22,277.01	12,645.24	125.54	145.45	-120.52	-9,244.67	392.61	1,153.85	912.25	241.59	4.776		
21,700.00	12,060.00	22,474.47	12,636.90	126.87	148.16	-120.03	-9,441.66	399.75	1,153.54	906.44	247.10	4.668		
21,768.12	12,060.00	22,505.00	12,635.26	127.78	148.58	-119.95	-9,472.15	400.35	1,152.41	904.21	248.20	4.643		
21,800.00	12,060.00	22,516.81	12,634.77	128.20	148.74	-119.91	-9,483.94	400.84	1,152.68	904.11	248.57	4.637		
21,900.00	12,060.00	22,562.00	12,633.99	129.54	149.37	-119.81	-9,528.98	404.27	1,157.21	907.61	249.61	4.636		
22,000.00	12,060.00	22,629.44	12,634.68	130.87	150.31	-119.68	-9,596.06	411.19	1,165.67	914.57	251.10	4.642		
22,100.00	12,060.00	22,713.74	12,636.35	132.21	151.48	-119.54	-9,679.82	420.52	1,175.59	922.41	253.17	4.643		
22,200.00	12,060.00	22,815.56	12,639.56	133.54	152.90	-119.42	-9,780.96	431.80	1,186.09	930.18	255.91	4.635		
22,259.99	12,060.00	22,885.32	12,642.16	134.34	153.87	-119.38	-9,850.32	438.84	1,192.05	934.20	257.85	4.623 SF		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 211H - OH - OH														Offset Site Error:	0.00 usft		
Survey Program: 152-3_MWD+HRGM														Offset Well Error:	0.00 usft		
Reference														Rule Assigned:			
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				
0.00	0.00	0.00	0.00	0.00	0.00	23.32	290.00	125.00	315.79								
100.00	100.00	98.94	98.94	1.51	0.15	16.46	290.09	125.21	315.26	313.60	1.66	189.842					
200.00	199.97	198.34	198.34	1.66	0.39	18.73	290.32	125.85	313.68	311.62	2.05	152.681					
300.00	299.93	298.64	298.63	2.21	0.75	26.56	290.35	127.00	311.43	308.48	2.95	105.401					
400.00	399.82	399.08	399.06	2.55	1.11	45.51	290.22	128.10	308.18	304.55	3.64	84.689					
500.00	499.65	497.41	497.39	2.84	1.46	51.73	290.14	129.20	304.72	300.45	4.28	71.275					
600.00	599.45	597.27	597.24	3.18	1.82	69.00	290.30	130.69	302.29	297.36	4.93	61.323					
700.00	698.87	697.24	697.20	3.75	2.18	82.23	290.36	131.96	300.70	295.07	5.62	53.472					
800.00	798.06	796.79	796.74	3.97	2.52	86.37	290.61	132.54	299.96	293.79	6.18	48.544					
859.73	857.36	856.44	856.39	4.10	2.73	88.39	290.99	132.36	299.87	293.36	6.51	46.071					
900.00	897.41	896.25	896.20	4.19	2.87	89.66	291.35	132.05	299.92	293.19	6.73	44.571					
1,000.00	996.75	994.98	994.92	4.43	3.20	93.11	292.66	131.28	300.85	293.58	7.27	41.388					
1,100.00	1,095.77	1,095.30	1,095.23	4.71	3.55	95.61	293.80	130.23	302.27	294.41	7.86	38.479					
1,200.00	1,194.75	1,193.85	1,193.76	5.15	3.89	97.81	294.95	129.20	304.21	295.55	8.66	35.136					
1,300.00	1,293.76	1,292.99	1,292.89	5.43	4.23	100.91	296.15	128.34	306.80	297.49	9.30	32.978					
1,400.00	1,392.81	1,391.93	1,391.83	5.62	4.58	103.25	296.96	127.89	310.05	300.21	9.84	31.510					
1,500.00	1,491.86	1,490.98	1,490.88	5.81	4.93	106.15	297.61	127.72	313.85	303.47	10.38	30.241					
1,600.00	1,590.95	1,590.12	1,590.01	6.00	5.28	108.60	298.53	127.30	318.21	307.30	10.92	29.149					
1,700.00	1,690.07	1,689.98	1,689.85	6.19	5.66	110.24	299.27	125.39	321.76	310.28	11.48	28.023					
1,800.00	1,789.13	1,802.17	1,801.88	6.38	6.02	112.22	300.63	120.11	323.49	311.45	12.03	26.887					
1,900.00	1,888.18	1,904.07	1,903.59	6.57	6.38	113.43	301.75	113.90	324.60	312.02	12.58	25.810					
2,000.00	1,987.20	2,009.85	2,009.08	6.76	6.75	115.86	302.52	106.07	324.76	311.63	13.13	24.734					
2,100.00	2,086.18	2,113.22	2,112.00	6.96	7.12	116.91	302.62	96.43	323.36	309.68	13.68	23.638					
2,200.00	2,185.14	2,213.71	2,212.04	7.15	7.48	118.55	302.72	86.90	322.07	307.84	14.23	22.638					
2,300.00	2,284.09	2,317.37	2,315.14	7.35	7.85	120.67	302.35	76.26	320.23	305.45	14.78	21.667					
2,400.00	2,382.99	2,421.95	2,418.95	7.54	8.23	120.88	302.44	63.60	317.27	301.94	15.33	20.691					
2,500.00	2,481.85	2,523.51	2,519.56	7.74	8.61	120.60	302.82	49.76	313.12	297.23	15.89	19.706					
2,600.00	2,580.66	2,630.49	2,625.33	7.94	9.01	119.90	303.22	33.78	307.68	291.24	16.44	18.710					
2,700.00	2,679.45	2,729.46	2,722.86	8.13	9.39	118.46	304.70	17.00	300.64	283.64	17.01	17.677					
2,800.00	2,778.25	2,828.88	2,820.79	8.33	9.78	115.64	307.03	-0.03	293.08	275.50	17.57	16.678					
2,900.00	2,877.08	2,927.01	2,917.45	8.53	10.16	112.92	309.76	-16.73	284.87	266.73	18.14	15.704					
3,000.00	2,975.87	3,024.99	3,014.02	8.73	10.55	110.93	312.88	-33.00	276.54	257.83	18.71	14.782					
3,100.00	3,074.61	3,123.61	3,111.26	8.93	10.94	109.89	316.24	-49.09	268.13	248.85	19.28	13.909					
3,200.00	3,173.35	3,220.15	3,206.52	9.12	11.32	108.96	320.08	-64.28	260.04	240.20	19.85	13.103					
3,300.00	3,272.11	3,316.07	3,301.30	9.32	11.70	112.36	324.62	-78.28	253.15	232.74	20.41	12.400					
3,400.00	3,370.95	3,412.35	3,396.57	9.52	12.08	113.51	329.69	-91.16	248.21	227.23	20.98	11.832					
3,500.00	3,469.86	3,510.06	3,493.46	9.76	12.46	129.34	335.01	-102.68	245.73	224.14	21.59	11.380					
3,600.00	3,568.72	3,615.39	3,597.81	9.97	12.87	131.18	340.05	-116.08	245.04	222.86	22.18	11.050					
3,700.00	3,667.55	3,716.79	3,698.07	10.18	13.27	128.18	344.33	-130.61	242.17	219.43	22.74	10.649					
3,800.00	3,766.44	3,818.25	3,798.42	10.38	13.68	136.59	348.54	-144.97	239.44	216.14	23.31	10.274					
3,900.00	3,865.32	3,923.11	3,901.92	10.63	14.10	151.90	351.65	-161.49	236.99	213.12	23.87	9.928					
4,000.00	3,964.02	4,025.68	4,002.89	10.84	14.52	149.86	354.65	-179.31	234.93	210.50	24.43	9.618					
4,100.00	4,062.53	4,125.90	4,101.40	11.05	14.94	150.39	357.97	-197.42	233.09	208.09	25.00	9.325					
4,200.00	4,160.91	4,224.60	4,198.44	11.26	15.35	150.12	361.66	-215.09	232.16	206.58	25.58	9.077					
4,300.00	4,259.37	4,322.80	4,295.10	11.48	15.76	151.33	365.42	-231.99	231.59	205.43	26.16	8.854					
4,400.00	4,357.97	4,420.70	4,391.63	11.69	16.16	149.71	368.89	-247.94	231.29	204.56	26.74	8.651					
4,500.00	4,456.67	4,517.24	4,487.00	11.93	16.56	139.13	372.31	-262.50	230.39	203.07	27.32	8.433					
4,600.00	4,555.52	4,611.94	4,580.83	12.14	16.94	132.78	375.39	-274.93	229.02	201.15	27.87	8.217					
4,700.00	4,654.60	4,712.14	4,680.33	12.33	17.33	129.35	377.08	-286.59	226.79	198.38	28.41	7.982					
4,800.00	4,753.79	4,821.31	4,788.43	12.52	17.76	127.16	377.00	-301.79	220.75	191.81	28.93	7.629					
4,900.00	4,853.10	4,921.79	4,887.55	12.70	18.17	128.71	376.39	-318.25	211.42	181.96	29.46	7.177					
5,000.00	4,952.47	5,017.48	4,982.10	12.88	18.56	136.18	375.18	-332.87	203.47	173.47	30.00	6.783					

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 211H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 152-3_MWD+HRGM													Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,051.72	5,117.35	5,080.95	13.07	18.96	146.31	373.68	-347.03	198.74	168.20	30.54	6.508		
5,200.00	5,150.85	5,221.38	5,183.64	13.26	19.39	151.89	374.41	-363.66	194.02	162.93	31.09	6.241		
5,300.00	5,250.23	5,323.42	5,284.07	13.45	19.82	153.38	377.10	-381.50	186.34	154.71	31.63	5.890		
5,400.00	5,349.42	5,423.46	5,382.32	13.64	20.25	151.48	381.10	-399.90	178.91	146.71	32.21	5.555		
5,500.00	5,448.36	5,522.65	5,479.80	13.93	20.67	151.75	385.16	-417.76	173.42	140.55	32.87	5.276		
5,600.00	5,547.22	5,623.35	5,578.77	14.18	21.10	152.29	388.87	-435.99	168.36	134.87	33.49	5.028		
5,700.00	5,646.05	5,723.79	5,677.32	14.39	21.53	149.36	394.02	-454.70	162.59	128.53	34.06	4.774		
5,800.00	5,744.82	5,824.94	5,776.40	14.60	21.97	146.75	400.73	-473.89	156.01	121.39	34.62	4.506		
5,900.00	5,843.58	5,923.80	5,873.17	14.80	22.41	148.47	407.17	-493.05	148.91	113.70	35.21	4.229		
6,000.00	5,942.43	6,024.37	5,971.64	15.00	22.85	152.02	413.58	-512.48	141.72	105.93	35.79	3.960		
6,100.00	6,041.27	6,123.65	6,068.78	15.21	23.29	155.70	419.89	-531.98	134.72	98.33	36.39	3.702		
6,200.00	6,140.02	6,219.32	6,162.72	15.42	23.70	157.54	425.75	-549.11	130.24	93.20	37.04	3.516		
6,300.00	6,238.81	6,318.28	6,260.22	15.62	24.12	162.40	430.96	-565.23	127.61	89.95	37.66	3.389		
6,400.00	6,337.75	6,417.21	6,357.80	15.82	24.53	164.87	435.32	-580.90	125.10	86.82	38.28	3.268		
6,500.00	6,436.81	6,516.58	6,455.89	16.02	24.95	169.90	438.72	-596.41	122.73	83.82	38.91	3.154		
6,600.00	6,535.79	6,616.70	6,554.72	16.22	25.36	173.70	441.92	-612.17	121.18	81.62	39.56	3.063		
6,677.30	6,612.19	6,693.90	6,630.87	16.38	25.69	178.09	444.14	-624.60	120.86	80.79	40.07	3.016		
6,700.00	6,634.61	6,716.29	6,652.97	16.42	25.78	179.33	444.73	-628.20	120.93	80.71	40.22	3.007		
6,800.00	6,733.38	6,815.32	6,750.77	16.63	26.19	-177.50	447.26	-643.55	121.97	81.07	40.89	2.982		
6,900.00	6,832.33	6,915.35	6,849.68	16.83	26.61	-169.83	451.03	-657.99	122.12	80.60	41.52	2.941		
7,000.00	6,931.52	7,015.29	6,948.46	17.02	27.02	-168.47	454.71	-672.68	120.37	78.22	42.15	2.856		
7,100.00	7,031.09	7,114.52	7,046.60	17.21	27.42	-170.03	458.43	-686.87	115.48	72.66	42.82	2.697		
7,200.00	7,131.03	7,213.12	7,144.20	17.42	27.83	147.36	461.73	-700.53	105.45	61.91	43.54	2.422		
7,300.00	7,231.02	7,312.14	7,242.23	17.52	28.23	135.13	464.42	-714.21	94.22	49.98	44.23	2.130		
7,400.00	7,331.02	7,411.04	7,340.16	17.62	28.63	143.84	467.43	-727.68	83.50	38.52	44.98	1.856 Collision Risk Procedures Req.		
7,500.00	7,431.01	7,509.99	7,438.18	17.73	29.03	160.50	470.29	-740.90	74.26	28.46	45.80	1.621 Collision Risk Procedures Req.		
7,600.00	7,531.00	7,608.76	7,536.06	17.84	29.43	-177.87	472.89	-753.86	66.64	19.98	46.66	1.428 Collision Risk Procedures Req.		
7,700.00	7,631.00	7,707.81	7,634.34	17.95	29.82	-151.17	475.33	-765.97	61.20	13.73	47.46	1.289 Collision Risk Procedures Req.		
7,800.00	7,730.99	7,807.30	7,733.11	18.05	30.21	-138.08	477.78	-777.64	57.37	9.22	48.14	1.192 Collision Risk Procedures Req.		
7,900.00	7,830.99	7,906.51	7,831.65	18.15	30.60	-96.27	480.24	-788.89	55.47	6.86	48.61	1.141 Collision Risk Procedures Req.		
7,968.02	7,899.00	7,974.11	7,898.82	18.20	30.86	-65.10	481.71	-796.34	55.11	6.31	48.80	1.129 Collision Risk Procedures Req.		
8,000.00	7,930.98	8,005.91	7,930.43	18.22	30.99	-46.28	482.35	-799.73	55.11	6.25	48.86	1.128 Collision Risk Procedures Req.		
8,100.00	8,030.98	8,105.39	8,029.41	18.24	31.37	-4.56	483.96	-809.62	56.31	7.37	48.94	1.151 Collision Risk Procedures Req.		
8,200.00	8,130.97	8,205.65	8,129.28	18.25	31.74	-13.40	485.67	-818.18	57.63	8.63	49.00	1.176 Collision Risk Procedures Req.		
8,300.00	8,230.95	8,305.57	8,228.94	18.57	32.11	171.82	486.93	-825.34	61.40	12.28	49.12	1.250 Collision Risk Procedures Req.		
8,400.00	8,330.88	8,406.17	8,329.36	18.64	32.47	177.84	488.63	-831.07	67.69	18.45	49.24	1.375 Collision Risk Procedures Req.		
8,500.00	8,430.83	8,506.29	8,429.35	18.68	32.82	176.97	490.66	-835.91	73.16	23.76	49.40	1.481 Collision Risk Procedures Req.		
8,600.00	8,530.80	8,606.69	8,529.65	18.71	33.17	170.72	492.65	-839.82	77.54	27.95	49.59	1.564 Collision Risk Procedures Req.		
8,700.00	8,630.77	8,706.86	8,629.75	18.73	33.51	162.45	494.62	-842.82	80.86	31.06	49.80	1.624 Collision Risk Procedures Req.		
8,800.00	8,730.76	8,806.73	8,729.57	18.74	33.86	164.87	496.53	-845.72	83.70	33.67	50.03	1.673 Collision Risk Procedures Req.		
8,900.00	8,830.76	8,907.10	8,829.89	18.74	34.20	136.30	497.96	-848.12	85.87	35.60	50.27	1.708 Collision Risk Procedures Req.		
9,000.00	8,930.75	9,006.84	8,929.61	18.72	34.53	128.52	499.13	-849.91	87.53	37.00	50.53	1.732 Collision Risk Procedures Req.		
9,100.00	9,030.74	9,106.78	9,029.53	18.70	34.87	101.67	499.99	-851.98	89.66	38.86	50.80	1.765 Collision Risk Procedures Req.		
9,200.00	9,130.74	9,207.17	9,129.90	18.68	35.21	35.49	500.67	-853.61	90.13	39.04	51.10	1.764 Collision Risk Procedures Req.		
9,300.00	9,230.72	9,307.73	9,230.44	18.68	35.54	35.31	501.51	-854.69	89.21	37.80	51.42	1.735 Collision Risk Procedures Req.		
9,400.00	9,330.70	9,407.70	9,330.42	18.68	35.87	46.29	501.60	-855.04	87.92	36.17	51.76	1.699 Collision Risk Procedures Req.		
9,500.00	9,430.67	9,507.85	9,430.56	18.67	36.18	47.53	500.76	-854.94	86.75	34.65	52.10	1.665 Collision Risk Procedures Req.		
9,600.00	9,530.64	9,607.23	9,529.94	18.66	36.49	39.22	500.08	-855.21	85.44	32.98	52.46	1.629 Collision Risk Procedures Req.		
9,700.00	9,630.59	9,707.28	9,629.99	18.67	36.82	31.85	499.85	-855.93	83.68	30.88	52.81	1.585 Collision Risk Procedures Req.		
9,800.00	9,730.54	9,807.30	9,730.00	18.69	37.15	19.59	500.24	-856.90	81.57	28.39	53.17	1.534 Collision Risk Procedures Req.		
9,900.00	9,830.48	9,907.85	9,830.52	18.74	37.49	12.48	502.46	-857.82	78.44	24.92	53.51	1.466 Collision Risk Procedures Req.		
10,000.00	9,930.42	10,007.47	9,930.10	18.80	37.82	15.98	505.11	-858.57	75.00	21.10	53.90	1.391 Collision Risk Procedures Req.		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 211H - OH - OH													Offset Site Error:	0.00 usft		
Survey Program: 152-3_MWD+HRGM													Rule Assigned:		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			
10,100.00	10,030.33	10,106.83	10,029.44	18.85	38.16	23.10	506.75	-859.98	72.01	17.70	54.30	1.326	Collision Risk Procedures Req.			
10,200.00	10,130.19	10,206.74	10,129.34	18.91	38.50	19.75	507.54	-861.28	68.29	13.58	54.71	1.248	Collision Risk Procedures Req.			
10,300.00	10,229.97	10,306.22	10,228.80	18.99	38.83	23.49	508.34	-862.90	63.60	8.46	55.14	1.153	Collision Risk Procedures Req.			
10,400.00	10,329.68	10,406.08	10,328.64	19.05	39.17	41.69	508.31	-864.88	59.27	3.71	55.56	1.067	Collision Risk Procedures Req.			
10,500.00	10,429.39	10,506.00	10,428.55	19.09	39.51	63.40	507.43	-866.42	56.23	0.26	55.97	1.005	Collision Risk Procedures Req.			
10,600.00	10,529.12	10,605.80	10,528.32	19.11	39.84	65.73	505.78	-868.09	54.59	-1.82	56.41	0.968	Collision Risk Procedures Req.			
10,700.00	10,628.94	10,705.79	10,628.29	19.14	40.17	64.20	504.62	-869.71	53.42	-3.45	56.87	0.939	Collision Risk Procedures Req.			
10,776.89	10,705.77	10,782.58	10,705.06	19.16	40.43	64.29	504.10	-870.79	53.03	-4.20	57.23	0.927	Collision Risk Procedures Req.			
10,800.00	10,728.88	10,805.63	10,728.12	19.17	40.50	63.37	504.06	-871.13	53.27	-4.07	57.34	0.929	Collision Risk Procedures Req.			
10,900.00	10,828.84	10,905.52	10,827.99	19.23	40.84	38.42	504.14	-872.71	53.22	-4.59	57.82	0.921	Collision Risk Procedures Req.			
11,000.00	10,928.83	11,005.65	10,928.11	19.32	41.18	-1.63	504.05	-874.31	52.96	-5.32	58.28	0.909	Collision Risk Procedures Req.			
11,100.00	11,028.81	11,105.80	11,028.25	19.44	41.52	-20.88	503.86	-875.63	52.52	-6.20	58.72	0.894	Collision Risk Procedures Req.			
11,200.00	11,128.80	11,205.77	11,128.21	19.56	41.86	-27.56	503.53	-876.84	52.00	-7.16	59.16	0.879	Collision Risk Procedures Req.			
11,300.00	11,228.77	11,305.78	11,228.21	19.68	42.20	-17.55	503.40	-878.01	51.21	-8.39	59.60	0.859	Collision Risk Procedures Req.			
11,400.00	11,328.75	11,405.70	11,328.12	19.79	42.54	15.19	503.67	-879.19	50.47	-9.60	60.07	0.840	Collision Risk Procedures Req.			
11,411.50	11,340.25	11,417.22	11,339.65	19.91	42.58	61.22	503.72	-879.32	50.45	-9.82	60.27	0.837	Collision Risk Procedures Req., CC			
11,500.00	11,428.49	11,505.53	11,427.95	20.94	42.88	106.13	504.07	-880.17	51.56	-10.30	61.86	0.833	Collision Risk Procedures Req., ES, SF			
11,600.00	11,525.17	11,601.75	11,524.16	21.69	43.21	131.90	504.09	-881.59	65.82	2.41	63.40	1.038	Collision Risk Procedures Req.			
11,700.00	11,617.80	11,693.92	11,616.27	21.72	43.53	147.13	503.34	-884.76	97.38	33.19	64.18	1.517	Collision Risk Procedures Req.			
11,800.00	11,705.23	11,782.01	11,704.26	21.90	43.84	158.32	501.96	-888.67	142.43	77.51	64.93	2.194				
11,900.00	11,783.36	11,859.72	11,781.90	22.16	44.11	161.64	500.86	-892.04	202.96	137.36	65.60	3.094				
12,000.00	11,851.85	11,926.85	11,848.96	22.38	44.35	154.34	500.27	-894.97	273.92	207.88	66.03	4.148				
12,100.00	11,909.84	11,983.87	11,905.91	22.67	44.56	159.43	500.02	-897.66	353.32	286.84	66.49	5.314				
12,200.00	11,951.37	12,024.82	11,946.81	22.90	44.70	164.23	499.91	-899.51	443.78	377.05	66.74	6.650				
12,300.00	11,975.92	12,048.65	11,970.62	23.11	44.79	148.62	499.86	-900.54	540.41	473.55	66.86	8.082				
12,400.00	11,985.05	12,057.55	11,979.52	23.37	44.82	102.30	499.85	-900.92	639.60	572.68	66.93	9.557				
12,500.00	11,987.32	12,059.51	11,981.48	23.67	44.82	107.78	499.85	-901.00	739.25	672.28	66.96	11.040				
12,600.00	11,990.72	12,061.97	11,984.88	24.08	44.78	172.11	-347.23	-816.15	788.49	730.62	57.88	13.624				
12,700.00	11,996.12	12,064.43	11,988.28	24.48	44.74	171.52	-435.05	-815.15	781.29	723.21	58.08	13.452				
12,800.00	12,004.27	12,066.89	11,994.73	24.94	44.78	170.79	-532.19	-815.64	772.26	713.93	58.33	13.238				
12,900.00	12,012.70	12,069.35	11,998.16	25.44	44.77	170.16	-629.49	-816.72	762.93	704.31	58.62	13.015				
13,000.00	12,021.18	12,071.81	12,001.59	26.00	44.81	169.64	-729.51	-817.78	753.39	694.43	58.95	12.779				
13,100.00	12,030.65	12,074.27	12,005.02	26.62	44.86	169.18	-841.25	-818.55	741.47	682.09	59.38	12.487				
13,200.00	12,040.26	12,076.73	12,008.45	27.28	44.94	168.93	-932.27	-818.71	729.02	669.29	59.73	12.205				
13,300.00	12,048.54	12,079.19	12,011.88	27.99	45.07	168.65	-1,009.95	-820.78	719.72	659.69	60.03	11.989				
13,400.00	12,055.24	12,081.65	12,015.31	28.75	45.20	168.43	-1,092.87	-822.86	714.58	654.16	60.42	11.828				
13,453.95	12,057.40	12,083.81	12,017.47	29.18	45.27	168.45	-1,143.63	-822.83	714.12	653.46	60.66	11.772				
13,500.00	12,057.83	12,086.07	12,019.63	29.55	45.35	168.51	-1,189.13	-822.95	715.09	654.20	60.88	11.745				
13,600.00	12,059.41	12,088.33	12,021.79	30.39	45.48	168.52	-1,282.34	-823.38	717.34	655.99	61.34	11.694				
13,700.00	12,058.40	12,090.59	12,023.95	31.26	45.61	168.55	-1,374.46	-823.57	723.27	661.45	61.83	11.698				
13,800.00	12,058.93	12,093.11	12,026.11	32.17	45.74	168.59	-1,462.14	-823.20	728.93	666.63	62.30	11.700				
13,900.00	12,058.02	12,095.37	12,028.27	33.10	45.87	168.91	-1,568.50	-821.69	736.52	673.64	62.88	11.713				
14,000.00	12,058.21	12,097.63	12,030.43	35.46	54.89	169.16	-1,685.93	-819.72	741.24	677.46	63.78	11.622				
14,100.00	12,058.69	12,099.89	12,032.59	36.06	55.69	168.78	-1,785.83	-818.05	746.69	682.43	64.26	11.620				
14,200.00	12,059.54	12,102.15	12,034.75	36.71	56.49	168.14	-1,920.46	-815.71	747.47	682.75	64.72	11.549				
14,300.00	12,059.96	12,104.41	12,036.91	37.42	57.29	167.98	-2,018.63	-813.67	746.78	681.53	65.25	11.445				
14,400.00	12,060.00	12,106.67	12,039.07	38.17	58.09	168.21	-2,124.36	-809.52	745.98	680.21	65.77	11.342				
14,500.00	12,060.00	12,108.93	12,041.23	38.97	58.89	168.44	-2,219.94	-805.55	744.62	678.31	66.31	11.229				
14,600.00	12,060.00	12,111.19	12,043.39	39.79	59.69	168.73	-2,331.43	-800.64	743.26	676.38	66.88	11.114				
14,700.00	12,060.00	12,113.45	12,045.55	40.66	60.49	168.84	-2,418.56	-798.25	741.68	674.23	67.45	10.997				
14,800.00	12,060.00	12,115.71	12,047.71	41.55	61.29	168.88	-2,518.59	-796.83	741.06	673.00	68.06	10.889				
14,900.00	12,060.00	12,117.97	12,049.87	42.47	62.09	168.49	-2,625.85	-800.60	739.67	670.92	68.75	10.759				

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



Legacy Directional Drilling Anticollision Report

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Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 211H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 152-3_MWD+HRGM											Rule Assigned:		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	
14,977.43	12,060.00	15,801.56	12,783.52	43.21	63.83	168.24	-2,690.88	-803.12	739.03	669.76	69.27	10.668		
15,000.00	12,060.00	15,820.00	12,783.50	43.42	64.01	168.22	-2,709.32	-803.29	739.08	669.66	69.42	10.647		
15,100.00	12,060.00	15,917.47	12,784.00	44.40	64.99	168.16	-2,806.78	-803.43	739.77	669.67	70.10	10.553		
15,200.00	12,060.00	16,019.32	12,785.25	45.40	66.02	168.27	-2,908.60	-801.40	740.74	669.95	70.79	10.465		
15,300.00	12,060.00	16,139.42	12,783.49	46.42	67.27	168.21	-3,028.67	-800.81	739.23	667.67	71.56	10.330		
15,400.00	12,060.00	16,232.27	12,782.18	47.46	68.24	168.23	-3,121.50	-799.64	737.75	665.49	72.27	10.209		
15,500.00	12,060.00	16,348.42	12,781.41	48.51	69.47	168.59	-3,237.49	-793.82	736.37	663.37	73.00	10.088		
15,600.00	12,060.00	16,473.65	12,775.66	49.59	70.83	168.89	-3,362.44	-787.73	730.99	657.19	73.80	9.905		
15,700.00	12,060.00	16,565.01	12,770.49	50.68	71.84	169.07	-3,453.56	-783.70	724.74	650.25	74.49	9.729		
15,800.00	12,060.00	16,644.57	12,767.23	51.79	72.72	169.09	-3,533.03	-782.12	720.52	645.34	75.18	9.585		
15,900.00	12,060.00	16,734.02	12,765.23	52.91	73.71	168.89	-3,622.44	-783.53	718.75	642.78	75.97	9.461		
15,980.74	12,060.00	16,805.69	12,764.18	53.82	74.51	168.68	-3,694.08	-785.43	718.14	641.49	76.64	9.370		
16,000.00	12,060.00	16,822.08	12,764.09	54.04	74.70	168.63	-3,710.46	-785.91	718.18	641.37	76.80	9.351		
16,100.00	12,060.00	16,926.77	12,763.97	55.19	75.88	168.33	-3,815.11	-788.97	718.83	641.09	77.75	9.246		
16,187.81	12,060.00	17,012.95	12,763.06	56.20	76.86	168.13	-3,901.27	-790.69	718.44	639.89	78.55	9.146		
16,200.00	12,060.00	17,024.07	12,763.03	56.34	76.99	168.11	-3,912.38	-790.82	718.45	639.79	78.66	9.134		
16,300.00	12,060.00	17,121.77	12,763.14	57.51	78.11	168.00	-4,010.08	-791.47	718.87	639.32	79.55	9.037		
16,400.00	12,060.00	17,223.23	12,763.08	58.68	79.29	167.83	-4,111.53	-792.79	719.25	638.75	80.50	8.935		
16,500.00	12,060.00	17,323.06	12,762.76	59.87	80.45	167.62	-4,211.34	-794.69	719.51	638.03	81.48	8.830		
16,600.00	12,060.00	17,426.93	12,762.34	61.06	81.67	167.44	-4,315.21	-795.98	719.56	637.07	82.48	8.724		
16,624.00	12,060.00	17,449.23	12,762.24	61.35	81.94	167.42	-4,337.50	-796.14	719.53	636.82	82.71	8.700		
16,700.00	12,060.00	17,521.00	12,762.42	62.26	82.79	167.39	-4,409.27	-795.89	719.79	636.39	83.40	8.630		
16,800.00	12,060.00	17,618.67	12,763.32	63.47	83.95	167.42	-4,506.93	-795.00	720.66	636.34	84.31	8.547		
16,900.00	12,060.00	17,749.05	12,760.49	64.69	85.52	167.25	-4,637.26	-795.48	718.60	633.10	85.50	8.405		
17,000.00	12,060.00	17,846.38	12,756.96	65.91	86.70	167.06	-4,734.53	-796.26	715.42	628.88	86.54	8.267		
17,100.00	12,060.00	17,945.12	12,753.26	67.14	87.90	166.68	-4,833.15	-799.49	712.69	624.98	87.72	8.125		
17,200.00	12,060.00	18,047.37	12,749.01	68.37	89.15	166.22	-4,935.23	-803.56	709.76	620.78	88.99	7.976		
17,300.00	12,060.00	18,143.64	12,744.97	69.61	90.33	165.79	-5,031.33	-807.26	706.82	616.56	90.25	7.831		
17,393.03	12,060.00	18,218.98	12,742.87	70.76	91.26	165.51	-5,106.60	-809.72	705.31	613.99	91.32	7.723		
17,400.00	12,060.00	18,223.89	12,742.83	70.85	91.32	165.49	-5,111.52	-809.83	705.32	613.93	91.39	7.718		
17,500.00	12,060.00	18,298.40	12,744.30	72.10	92.24	165.41	-5,185.99	-810.69	707.64	615.28	92.36	7.662		
17,600.00	12,060.00	18,392.54	12,748.53	73.35	93.42	165.41	-5,280.04	-811.04	712.27	618.89	93.38	7.628		
17,700.00	12,060.00	18,514.41	12,752.64	74.61	94.95	165.57	-5,401.81	-809.13	715.32	620.86	94.46	7.573		
17,800.00	12,060.00	18,654.24	12,752.06	75.87	96.70	165.67	-5,541.60	-806.48	714.83	619.19	95.65	7.474		
17,900.00	12,060.00	18,764.88	12,746.54	77.14	98.10	165.60	-5,652.09	-805.09	709.85	613.03	96.81	7.332		
18,000.00	12,060.00	18,851.69	12,743.09	78.41	99.21	165.69	-5,738.78	-802.45	705.43	607.66	97.78	7.215		
18,100.00	12,060.00	18,965.75	12,738.36	79.68	100.66	165.78	-5,852.69	-799.17	700.91	602.06	98.85	7.091		
18,200.00	12,060.00	19,076.05	12,731.31	80.96	102.07	165.78	-5,962.73	-796.43	694.27	594.29	99.97	6.944		
18,300.00	12,060.00	19,176.24	12,724.57	82.23	103.36	165.84	-6,062.64	-793.16	687.14	586.12	101.02	6.802		
18,400.00	12,060.00	19,273.92	12,718.10	83.52	104.62	165.93	-6,160.04	-789.72	680.05	578.01	102.05	6.664		
18,500.00	12,060.00	19,359.94	12,712.80	84.80	105.73	165.89	-6,245.88	-788.19	673.89	570.76	103.14	6.534		
18,600.00	12,060.00	19,440.25	12,710.12	86.09	106.77	165.83	-6,326.15	-787.63	670.65	566.44	104.22	6.435		
18,700.00	12,060.00	19,532.02	12,709.16	87.38	107.96	165.75	-6,417.91	-787.54	669.77	564.41	105.36	6.357		
18,800.00	12,060.00	19,639.38	12,707.20	88.67	109.35	165.65	-6,525.25	-787.36	668.13	561.49	106.64	6.265		
18,900.00	12,060.00	19,729.93	12,705.67	89.97	110.53	165.49	-6,615.78	-788.20	666.94	559.05	107.89	6.182		
18,916.80	12,060.00	19,744.40	12,705.55	90.18	110.71	165.46	-6,630.25	-788.44	666.91	558.81	108.10	6.169		
19,000.00	12,060.00	19,818.18	12,705.60	91.26	111.67	165.28	-6,704.01	-790.04	667.58	558.40	109.18	6.114		
19,100.00	12,060.00	19,909.90	12,706.35	92.56	112.87	164.95	-6,795.66	-793.51	669.55	558.91	110.64	6.052		
19,200.00	12,060.00	20,001.15	12,708.08	93.86	114.05	164.52	-6,886.76	-798.48	673.02	560.78	112.24	5.996		
19,300.00	12,060.00	20,104.35	12,710.39	95.17	115.40	164.02	-6,989.76	-804.38	676.95	562.89	114.06	5.935		
19,400.00	12,060.00	20,211.76	12,712.33	96.47	116.81	163.73	-7,097.10	-807.67	679.75	564.05	115.70	5.875		
19,500.00	12,060.00	20,321.53	12,714.07	97.78	118.25	163.63	-7,206.85	-808.47	681.73	564.61	117.11	5.821		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 211H - OH - OH													Offset Site Error:
Survey Program: 152-3_MWD+HRGM													Offset Well Error:
Reference													Warning
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
19,600.00	12,060.00	20,428.21	12,714.32	99.09	119.66	163.61	-7,313.53	-807.98	682.04	563.62	118.42	5.760	
19,700.00	12,060.00	20,556.11	12,710.96	100.40	121.35	163.42	-7,441.36	-808.35	679.77	559.74	120.03	5.663	
19,800.00	12,060.00	20,634.00	12,707.95	101.71	122.39	163.19	-7,519.17	-809.65	676.90	555.40	121.49	5.572	
19,869.49	12,060.00	20,698.00	12,706.97	102.62	123.24	163.08	-7,583.16	-810.24	676.26	553.77	122.49	5.521	
19,900.00	12,060.00	20,728.00	12,707.04	103.02	123.63	163.06	-7,613.16	-810.22	676.39	553.50	122.89	5.504	
20,000.00	12,060.00	20,815.06	12,708.30	104.34	124.79	163.08	-7,700.21	-809.70	677.78	553.74	124.04	5.464	
20,100.00	12,060.00	20,902.23	12,711.17	105.65	125.96	163.21	-7,787.31	-808.22	680.68	555.69	124.99	5.446	
20,200.00	12,060.00	20,993.60	12,716.12	106.97	127.18	163.49	-7,878.51	-805.45	685.23	559.49	125.74	5.450	
20,300.00	12,060.00	21,106.84	12,722.42	108.29	128.71	163.94	-7,991.47	-800.75	689.66	563.20	126.47	5.453	
20,400.00	12,060.00	21,213.98	12,726.65	109.61	130.15	164.35	-8,098.42	-796.04	692.49	565.29	127.20	5.444	
20,500.00	12,060.00	21,335.05	12,729.00	110.93	131.78	164.81	-8,219.31	-789.96	693.25	565.30	127.95	5.418	
20,600.00	12,060.00	21,453.67	12,728.17	112.26	133.38	165.39	-8,337.61	-781.49	690.91	562.43	128.48	5.378	
20,700.00	12,060.00	21,582.10	12,721.80	113.58	135.11	165.50	-8,465.80	-777.47	685.59	555.94	129.64	5.288	
20,800.00	12,060.00	21,669.00	12,715.63	114.90	136.29	165.45	-8,552.46	-775.75	678.47	547.56	130.91	5.183	
20,900.00	12,060.00	21,762.00	12,711.07	116.23	137.55	165.38	-8,645.33	-774.67	673.60	541.38	132.22	5.095	
21,000.00	12,060.00	21,858.91	12,708.50	117.56	138.86	165.62	-8,742.10	-770.38	670.10	536.99	133.11	5.034	
21,100.00	12,060.00	21,951.01	12,706.75	118.88	140.11	166.15	-8,833.87	-762.79	666.43	532.91	133.52	4.991	
21,200.00	12,060.00	22,053.53	12,705.18	120.21	141.51	166.82	-8,935.97	-753.60	663.02	529.20	133.82	4.955	
21,300.00	12,060.00	22,139.00	12,704.28	121.54	142.67	167.17	-9,021.27	-748.55	660.82	526.39	134.42	4.916	
21,400.00	12,060.00	22,233.00	12,703.74	122.87	143.95	167.18	-9,115.25	-747.59	660.20	524.63	135.57	4.870	
21,412.11	12,060.00	22,243.07	12,703.66	123.03	144.08	167.15	-9,125.32	-747.80	660.18	524.45	135.73	4.864	
21,500.00	12,060.00	22,317.76	12,703.71	124.20	145.09	166.89	-9,199.97	-750.31	661.06	524.04	137.02	4.824	
21,600.00	12,060.00	22,422.00	12,703.22	125.54	146.49	166.22	-9,303.95	-757.32	662.34	523.01	139.33	4.754	
21,700.00	12,060.00	22,501.14	12,703.62	126.87	147.56	165.71	-9,382.88	-762.84	664.86	523.75	141.10	4.712	
21,800.00	12,060.00	22,600.78	12,707.52	128.20	148.91	165.39	-9,482.36	-766.93	669.87	526.97	142.90	4.688	
21,900.00	12,060.00	22,698.50	12,710.86	129.54	150.24	165.02	-9,579.92	-771.57	674.60	529.82	144.78	4.659	
22,000.00	12,060.00	22,791.66	12,714.58	130.87	151.50	164.64	-9,672.87	-776.50	680.05	533.41	146.64	4.638	
22,100.00	12,060.00	22,887.89	12,719.25	132.21	152.81	164.28	-9,768.86	-781.41	686.31	537.79	148.52	4.621	
22,200.00	12,060.00	22,984.38	12,724.14	133.54	154.12	163.87	-9,865.06	-787.18	693.06	542.52	150.54	4.604	
22,259.99	12,060.00	23,040.19	12,727.25	134.34	154.88	163.62	-9,920.66	-790.83	697.50	545.75	151.75	4.596	

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 221H - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 146-3_MWD+HRGM														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)					
0.00	0.00	1.97	-0.03	0.00	0.00	0.00	290.00	0.00	290.00						
100.00	100.00	100.56	98.56	1.51	0.15	-6.99	290.25	-0.28	289.53	287.87	1.66	174.339			
200.00	199.97	198.94	196.93	1.66	0.40	-5.14	290.99	-1.04	288.16	286.09	2.07	139.468			
300.00	299.93	299.17	297.16	2.21	0.76	2.12	292.14	-1.83	286.35	283.38	2.97	96.494			
400.00	399.82	401.03	399.01	2.55	1.12	20.53	292.80	-2.01	282.53	278.86	3.66	77.105			
500.00	499.65	502.92	500.90	2.84	1.47	26.27	292.71	-1.84	277.12	272.82	4.30	64.407			
600.00	599.45	603.50	601.48	3.18	1.81	43.10	292.08	-1.69	271.19	266.23	4.96	54.675			
700.00	698.87	701.68	699.66	3.75	2.15	56.05	291.59	-1.75	264.11	258.39	5.72	46.186			
800.00	798.06	800.85	798.83	3.97	2.49	60.24	291.29	-1.06	257.13	250.86	6.27	41.001			
900.00	897.41	900.67	898.63	4.19	2.84	63.99	290.66	-0.07	251.28	244.45	6.82	36.830			
1,000.00	996.75	998.55	996.51	4.43	3.19	68.21	290.31	0.97	246.41	239.04	7.37	33.447			
1,100.00	1,095.77	1,096.79	1,094.75	4.71	3.53	71.69	290.40	2.11	241.99	234.04	7.95	30.458			
1,200.00	1,194.75	1,195.82	1,193.77	5.15	3.88	74.97	290.57	3.07	238.28	229.54	8.74	27.274			
1,300.00	1,293.76	1,294.05	1,291.99	5.43	4.23	79.08	290.94	3.57	235.57	226.21	9.37	25.148			
1,400.00	1,392.81	1,393.02	1,390.94	5.62	4.57	81.98	292.38	2.28	234.22	224.33	9.89	23.683			
1,500.00	1,491.86	1,495.75	1,493.49	5.81	4.93	84.54	295.04	-3.01	232.77	222.34	10.43	22.323			
1,600.00	1,590.95	1,594.48	1,591.88	6.00	5.27	86.11	297.98	-10.63	230.96	220.01	10.96	21.076			
1,700.00	1,690.07	1,693.47	1,690.52	6.19	5.62	86.87	301.56	-18.14	229.88	218.39	11.49	20.000			
1,800.00	1,789.13	1,797.00	1,793.61	6.38	5.99	88.40	305.20	-27.03	228.27	216.22	12.05	18.949			
1,900.00	1,888.18	1,899.61	1,895.55	6.57	6.36	88.85	308.38	-38.23	225.27	212.67	12.60	17.876			
2,000.00	1,987.20	2,000.11	1,995.16	6.76	6.73	90.12	311.72	-51.12	221.60	208.43	13.16	16.837			
2,100.00	2,086.18	2,098.11	2,092.07	6.96	7.09	89.72	316.06	-65.03	218.28	204.55	13.73	15.903			
2,200.00	2,185.14	2,194.56	2,187.20	7.15	7.46	89.48	322.47	-79.54	216.44	202.14	14.30	15.141			
2,300.00	2,284.09	2,293.22	2,284.40	7.35	7.84	89.48	330.28	-94.55	215.80	200.93	14.88	14.505			
2,400.00	2,382.99	2,392.44	2,382.20	7.54	8.23	87.87	338.42	-109.18	215.60	200.13	15.47	13.939			
2,500.00	2,481.85	2,493.73	2,481.96	7.74	8.63	85.82	347.00	-124.45	215.18	199.11	16.07	13.387			
2,600.00	2,580.66	2,596.50	2,582.77	7.94	9.04	82.73	355.48	-142.52	212.94	196.24	16.70	12.751			
2,700.00	2,679.45	2,695.28	2,679.48	8.13	9.45	79.02	363.54	-160.95	209.73	192.40	17.32	12.107			
2,800.00	2,778.25	2,795.49	2,777.80	8.33	9.86	74.12	372.03	-178.39	206.58	188.63	17.95	11.508			
2,900.00	2,877.08	2,897.09	2,877.70	8.53	10.28	69.43	379.23	-195.44	201.59	183.01	18.58	10.849			
3,000.00	2,975.87	2,996.33	2,975.31	8.73	10.69	65.32	385.91	-212.05	195.43	176.22	19.20	10.176			
3,100.00	3,074.61	3,095.11	3,072.58	8.93	11.09	62.15	392.77	-227.80	189.03	169.20	19.83	9.534			
3,200.00	3,173.35	3,196.62	3,172.64	9.12	11.51	59.05	399.54	-243.50	182.07	161.61	20.45	8.901			
3,300.00	3,272.11	3,295.80	3,270.54	9.32	11.92	60.47	405.34	-258.32	174.44	153.36	21.07	8.278			
3,400.00	3,370.95	3,393.88	3,367.42	9.52	12.31	59.85	411.57	-272.24	168.47	146.79	21.68	7.771			
3,500.00	3,469.86	3,495.15	3,467.51	9.76	12.73	74.16	418.04	-286.26	163.98	141.59	22.39	7.323			
3,600.00	3,568.72	3,596.71	3,567.71	9.97	13.14	74.68	423.84	-301.77	161.35	138.31	23.04	7.003			
3,700.00	3,667.55	3,695.22	3,664.64	10.18	13.56	69.63	430.01	-318.17	157.93	134.27	23.66	6.674			
3,800.00	3,766.44	3,795.46	3,763.35	10.38	13.98	76.05	436.47	-334.43	155.30	131.00	24.30	6.391			
3,846.13	3,812.07	3,841.96	3,809.21	10.50	14.17	82.86	439.24	-341.58	154.95	130.34	24.61	6.296			
3,900.00	3,865.32	3,896.25	3,862.82	10.63	14.39	90.46	442.24	-349.62	155.38	130.41	24.97	6.222			
4,000.00	3,964.02	3,997.04	3,962.40	10.84	14.81	88.52	447.36	-364.28	156.58	131.00	25.59	6.119			
4,100.00	4,062.53	4,097.70	4,061.83	11.05	15.22	89.41	452.01	-379.26	156.99	130.78	26.21	5.990			
4,200.00	4,160.91	4,197.79	4,160.71	11.26	15.63	89.80	456.39	-394.15	157.09	130.25	26.83	5.854			
4,300.00	4,259.37	4,298.25	4,260.09	11.48	16.04	91.88	460.47	-408.28	157.27	129.81	27.45	5.728			
4,400.00	4,357.97	4,398.36	4,358.98	11.69	16.45	90.53	464.41	-423.35	157.30	129.22	28.08	5.601			
4,500.00	4,456.67	4,497.76	4,457.14	11.93	16.86	79.41	468.62	-438.39	155.29	126.56	28.73	5.405			
4,600.00	4,555.52	4,597.57	4,556.07	12.14	17.25	72.44	472.37	-451.06	151.18	121.84	29.34	5.153			
4,700.00	4,654.60	4,696.73	4,654.58	12.33	17.64	67.83	475.70	-461.96	146.30	116.38	29.92	4.890			
4,800.00	4,753.79	4,796.86	4,753.99	12.52	18.03	63.23	479.48	-473.29	141.02	110.52	30.50	4.624			
4,900.00	4,853.10	4,897.34	4,853.74	12.70	18.43	61.91	482.93	-484.93	135.12	104.05	31.07	4.349			
5,000.00	4,952.47	4,997.47	4,953.33	12.88	18.81	67.10	485.48	-494.92	129.64	98.01	31.63	4.099			

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 221H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 146-3_MWD+HRGM													Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,051.72	5,098.20	5,053.59	13.07	19.19	75.80	487.40	-504.38	124.60	92.41	32.18	3.871		
5,200.00	5,150.85	5,197.01	5,151.79	13.26	19.58	80.48	489.62	-515.13	120.64	87.89	32.75	3.683		
5,300.00	5,250.23	5,294.37	5,248.33	13.45	19.96	80.22	494.17	-526.86	119.33	86.00	33.33	3.580		
5,400.00	5,349.42	5,394.16	5,347.26	13.64	20.36	77.19	499.89	-538.58	118.61	84.69	33.92	3.497		
5,500.00	5,448.36	5,494.66	5,447.03	13.93	20.75	77.33	505.17	-549.46	116.90	82.30	34.60	3.379		
5,600.00	5,547.22	5,595.19	5,546.88	14.18	21.15	77.78	509.80	-560.27	114.29	79.06	35.22	3.245		
5,700.00	5,646.05	5,695.20	5,646.23	14.39	21.54	75.13	514.07	-570.86	110.94	75.14	35.80	3.099		
5,800.00	5,744.82	5,795.10	5,745.56	14.60	21.92	73.22	517.94	-580.78	106.02	69.66	36.36	2.916		
5,900.00	5,843.58	5,895.08	5,845.04	14.80	22.30	75.84	521.42	-590.18	100.65	63.74	36.91	2.727		
6,000.00	5,942.43	5,995.15	5,944.67	15.00	22.68	80.71	524.23	-599.10	95.58	58.16	37.42	2.554		
6,100.00	6,041.27	6,095.04	6,044.15	15.21	23.06	86.39	526.57	-607.78	91.06	53.14	37.91	2.402		
6,200.00	6,140.02	6,194.82	6,143.54	15.42	23.43	91.05	528.63	-616.41	87.08	48.72	38.37	2.270		
6,300.00	6,238.81	6,293.87	6,242.24	15.62	23.80	99.03	530.46	-624.48	84.15	45.37	38.78	2.170		
6,380.67	6,318.62	6,373.21	6,321.35	15.78	24.09	103.29	532.32	-630.22	83.39	44.29	39.09	2.133	CC, ES	
6,400.00	6,337.75	6,392.17	6,340.26	15.82	24.16	104.34	532.77	-631.36	83.48	44.32	39.16	2.132	SF	
6,500.00	6,436.81	6,490.66	6,438.62	16.02	24.51	112.37	534.89	-638.05	85.24	45.74	39.50	2.158		
6,600.00	6,535.79	6,590.02	6,537.91	16.22	24.86	119.51	536.71	-639.62	89.31	49.48	39.83	2.242		
6,700.00	6,634.61	6,688.54	6,636.36	16.42	25.20	128.35	538.36	-642.68	95.81	55.65	40.16	2.386		
6,800.00	6,733.38	6,786.81	6,734.60	16.63	25.54	134.55	539.55	-644.64	104.66	64.15	40.51	2.584		
6,900.00	6,832.33	6,885.75	6,833.53	16.83	25.88	145.16	540.40	-645.97	114.68	73.76	40.92	2.802		
7,000.00	6,931.52	6,984.85	6,932.62	17.02	26.21	148.16	541.07	-647.06	124.37	83.00	41.38	3.006		
7,100.00	7,031.09	7,084.40	7,032.16	17.21	26.54	146.84	541.51	-648.00	131.31	89.44	41.86	3.137		
7,200.00	7,131.03	7,183.96	7,131.72	17.42	26.88	101.76	541.89	-648.68	132.73	90.43	42.30	3.138		
7,300.00	7,231.02	7,283.96	7,231.72	17.52	27.22	85.18	542.40	-649.24	132.23	89.52	42.71	3.096		
7,400.00	7,331.02	7,384.11	7,331.87	17.62	27.55	88.52	543.01	-649.89	131.60	88.48	43.12	3.052		
7,500.00	7,431.01	7,484.21	7,431.96	17.73	27.89	98.45	543.66	-650.64	130.92	87.39	43.53	3.007		
7,600.00	7,531.00	7,584.43	7,532.17	17.84	28.23	111.88	544.32	-651.49	130.48	86.51	43.96	2.968		
7,700.00	7,631.00	7,684.81	7,632.55	17.95	28.57	129.49	544.76	-652.58	129.93	85.52	44.41	2.926		
7,800.00	7,730.99	7,785.11	7,732.84	18.05	28.92	132.59	545.12	-653.93	129.32	84.46	44.87	2.882		
7,900.00	7,830.99	7,885.14	7,832.85	18.15	29.26	163.79	545.65	-655.45	128.63	83.31	45.32	2.838		
8,000.00	7,930.98	7,984.78	7,932.49	18.22	29.60	-157.12	546.31	-656.85	128.24	82.48	45.76	2.803		
8,100.00	8,030.98	8,084.81	8,032.51	18.24	29.94	-125.64	546.55	-658.02	127.71	81.53	46.18	2.766		
8,200.00	8,130.97	8,185.01	8,132.70	18.25	30.28	-143.09	546.36	-659.29	127.43	80.83	46.60	2.734		
8,300.00	8,230.95	8,284.60	8,232.29	18.57	30.62	36.08	546.04	-660.49	125.85	78.75	47.10	2.672		
8,400.00	8,330.88	8,383.81	8,331.49	18.64	30.95	38.17	545.73	-661.24	122.14	74.71	47.43	2.575		
8,500.00	8,430.83	8,483.45	8,431.13	18.68	31.28	34.44	545.26	-661.58	119.12	71.36	47.76	2.494		
8,600.00	8,530.80	8,583.11	8,530.78	18.71	31.59	25.95	544.50	-661.64	116.77	68.71	48.07	2.429		
8,700.00	8,630.77	8,683.23	8,630.90	18.73	31.91	15.65	543.72	-661.66	114.73	66.35	48.38	2.371		
8,800.00	8,730.76	8,783.38	8,731.05	18.74	32.24	16.12	543.07	-661.82	113.12	64.42	48.70	2.323		
8,900.00	8,830.76	8,883.59	8,831.26	18.74	32.57	-14.12	542.43	-662.17	111.76	62.74	49.02	2.280		
9,000.00	8,930.75	8,983.61	8,931.27	18.72	32.89	-23.43	541.69	-662.65	110.33	61.00	49.33	2.237		
9,100.00	9,030.74	9,083.57	9,031.23	18.70	33.22	-52.01	540.96	-663.07	108.81	59.16	49.65	2.191		
9,174.23	9,104.96	9,157.76	9,105.41	18.69	33.47	-108.47	540.50	-663.42	108.37	58.44	49.92	2.171		
9,200.00	9,130.74	9,183.40	9,131.06	18.68	33.55	-119.90	540.33	-663.51	108.59	58.57	50.02	2.171		
9,300.00	9,230.72	9,283.32	9,230.97	18.68	33.88	-121.90	539.55	-663.67	109.44	59.03	50.41	2.171		
9,400.00	9,330.70	9,383.27	9,330.92	18.68	34.21	-112.57	538.91	-663.94	110.10	59.31	50.79	2.168		
9,500.00	9,430.67	9,482.52	9,430.17	18.67	34.53	-112.57	538.27	-663.86	110.90	59.75	51.15	2.168		
9,600.00	9,530.64	9,581.49	9,529.13	18.66	34.84	-122.53	537.79	-662.95	112.95	61.45	51.50	2.193		
9,700.00	9,630.59	9,682.23	9,629.87	18.67	35.17	-132.28	537.69	-661.84	115.92	64.00	51.92	2.233		
9,800.00	9,730.54	9,781.91	9,729.54	18.69	35.49	-147.24	538.13	-661.20	119.05	66.73	52.32	2.275		
9,900.00	9,830.48	9,882.35	9,829.98	18.74	35.82	-157.76	538.82	-660.63	122.77	70.01	52.77	2.327		
10,000.00	9,930.42	9,982.81	9,930.43	18.80	36.16	-157.89	539.62	-660.54	126.29	73.07	53.22	2.373		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 221H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 146-3_MWD+HRGM													Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.00	10,030.33	10,083.08	10,030.70	18.85	36.50	-154.42	540.25	-660.73	130.09	76.41	53.68	2.424		
10,200.00	10,130.19	10,184.46	10,132.08	18.91	36.85	-161.22	540.53	-661.57	134.15	80.00	54.16	2.477		
10,300.00	10,229.97	10,285.74	10,233.34	18.99	37.20	-161.40	540.22	-663.80	138.25	83.61	54.64	2.530		
10,400.00	10,329.68	10,384.23	10,331.80	19.05	37.54	-148.05	539.25	-665.52	143.11	88.05	55.06	2.599		
10,500.00	10,429.39	10,482.29	10,429.86	19.09	37.87	-133.40	539.05	-666.54	147.89	92.42	55.47	2.666		
10,600.00	10,529.12	10,580.57	10,528.13	19.11	38.21	-138.37	540.07	-666.29	153.68	97.81	55.87	2.751		
10,700.00	10,628.94	10,682.60	10,630.15	19.14	38.55	-145.90	541.07	-666.50	158.50	102.18	56.33	2.814		
10,800.00	10,728.88	10,785.41	10,732.94	19.17	38.91	-150.24	541.45	-668.50	159.63	102.82	56.81	2.810		
10,900.00	10,828.84	10,886.44	10,833.92	19.23	39.27	-177.29	540.70	-671.48	159.02	101.76	57.26	2.777		
11,000.00	10,928.83	10,986.84	10,934.27	19.32	39.62	-142.89	539.51	-674.58	157.49	99.79	57.70	2.729		
11,100.00	11,028.81	11,087.19	11,034.54	19.44	39.97	-125.45	537.51	-677.71	155.04	96.90	58.14	2.667		
11,200.00	11,128.80	11,186.38	11,133.66	19.56	40.31	-121.37	535.12	-680.61	152.48	93.92	58.57	2.604		
11,277.72	11,206.50	11,261.29	11,208.55	19.66	40.57	-131.19	533.84	-682.10	151.54	92.68	58.87	2.574		
11,300.00	11,228.77	11,282.63	11,229.89	19.68	40.64	-133.87	533.59	-682.26	151.58	92.63	58.95	2.571		
11,400.00	11,328.75	11,377.75	11,325.00	19.79	40.95	-167.15	533.62	-681.46	154.07	94.76	59.31	2.598		
11,500.00	11,428.49	11,477.44	11,424.65	20.94	41.28	-109.11	535.36	-679.27	159.36	98.37	60.99	2.613		
11,600.00	11,525.17	11,580.31	11,527.51	21.69	41.62	-110.58	536.32	-678.94	168.58	106.47	62.11	2.714		
11,700.00	11,617.80	11,673.25	11,620.43	21.72	41.95	-118.74	536.75	-680.79	183.57	121.22	62.35	2.944		
11,800.00	11,705.23	11,758.42	11,705.55	21.90	42.25	-123.95	538.13	-683.10	210.76	148.08	62.68	3.363		
11,900.00	11,783.36	11,835.74	11,782.82	22.16	42.53	-130.75	539.77	-685.37	254.35	191.20	63.14	4.028		
12,000.00	11,851.85	11,908.18	11,855.21	22.38	42.79	-146.16	540.71	-687.76	315.85	252.27	63.58	4.968		
12,100.00	11,909.84	11,975.36	11,922.34	22.67	43.02	-141.81	540.02	-690.24	389.67	325.62	64.06	6.083		
12,200.00	11,951.37	12,029.13	11,976.05	22.90	43.21	-135.40	538.09	-691.97	472.25	407.91	64.34	7.340		
12,300.00	11,975.92	12,064.80	12,011.65	23.11	43.33	-125.62	536.11	-692.87	562.16	497.67	64.49	8.717		
12,400.00	11,985.05	12,082.60	12,029.41	23.37	43.39	-112.78	534.97	-693.20	657.46	592.92	64.54	10.187		
12,500.00	11,987.32	12,091.07	12,037.87	23.67	43.42	-114.32	534.41	-693.32	754.64	690.09	64.55	11.691		
12,600.00	11,990.72	12,100.89	12,047.66	24.08	43.45	-132.40	533.76	-693.47	852.71	788.14	64.57	13.206		
12,700.00	11,996.12	12,112.84	12,059.58	24.48	43.49	-145.21	532.96	-693.62	951.44	886.84	64.60	14.729		
12,800.00	12,004.27	12,127.60	12,074.31	24.94	43.54	-155.04	531.98	-693.80	1,049.99	985.35	64.64	16.244		
12,900.00	12,012.70	12,142.73	12,089.40	25.44	43.59	-163.51	530.97	-693.95	1,148.67	1,083.99	64.68	17.759		
13,000.00	12,021.18	12,158.44	12,109.93	26.00	43.66	-171.02	529.97	-695.49	1,247.79	1,183.50	62.29	18.347		
13,100.00	12,030.65	12,174.00	12,126.32	26.62	43.75	-171.09	528.53	-696.43	1,347.23	1,283.67	62.57	18.997		
13,200.00	12,040.26	12,189.47	12,143.87	27.28	43.85	-171.10	527.09	-697.37	1,447.18	1,383.74	62.98	19.731		
13,300.00	12,048.54	12,204.84	12,161.20	27.99	43.94	-171.13	525.65	-698.30	1,547.13	1,483.81	63.49	20.547		
13,400.00	12,055.24	12,220.21	12,178.53	28.75	44.03	-171.16	524.21	-699.23	1,647.08	1,583.88	64.06	21.453		
13,494.93	12,058.48	12,235.58	12,195.86	29.51	44.12	-171.19	522.77	-700.16	1,750.93	1,683.95	64.63	22.459		
13,500.00	12,057.83	12,241.00	12,213.19	29.55	44.13	-171.32	521.33	-701.09	1,854.78	1,784.02	65.21	23.565		
13,600.00	12,059.41	12,246.41	12,230.52	30.39	44.22	-171.38	519.89	-702.02	1,958.63	1,884.09	65.79	24.771		
13,700.00	12,058.40	12,251.82	12,247.85	31.26	44.31	-171.54	518.39	-702.95	2,062.48	1,984.16	66.37	26.077		
13,800.00	12,058.93	12,257.23	12,265.18	32.17	44.40	-171.65	516.89	-703.88	2,166.33	2,084.23	66.95	27.483		
13,900.00	12,058.02	12,262.64	12,282.51	33.10	44.49	-171.67	515.39	-704.81	2,270.18	2,184.30	67.53	28.989		
14,000.00	12,058.21	12,268.05	12,300.00	34.06	44.58	-171.82	513.89	-705.74	2,374.03	2,284.37	68.11	30.595		
14,100.00	12,058.69	12,273.46	12,317.49	35.06	44.67	-172.42	512.39	-706.67	2,477.88	2,384.44	68.69	32.301		
14,200.00	12,059.54	12,278.87	12,334.98	36.11	44.76	-172.80	510.89	-707.60	2,581.73	2,484.51	69.27	34.107		
14,291.22	12,059.94	12,284.28	12,352.47	37.36	44.85	-172.99	509.39	-708.53	2,685.58	2,584.58	69.85	36.013		
14,300.00	12,059.96	12,289.69	12,370.00	37.42	44.86	-173.01	507.89	-709.46	2,789.43	2,684.65	70.43	38.019		
14,400.00	12,060.00	12,295.10	12,387.49	38.17	44.95	-173.18	506.39	-710.39	2,893.28	2,784.72	71.01	40.125		
14,500.00	12,060.00	12,300.51	12,404.98	38.97	45.04	-173.38	504.89	-711.32	2,997.13	2,884.79	71.59	42.331		
14,600.00	12,060.00	12,306.00	12,422.47	39.79	45.13	-173.54	503.39	-712.25	3,100.98	2,984.86	72.17	44.637		
14,700.00	12,060.00	12,311.49	12,440.00	40.66	45.22	-173.70	501.89	-713.18	3,204.83	3,084.93	72.75	47.043		
14,800.00	12,060.00	12,316.98	12,457.49	41.55	45.31	-173.84	500.39	-714.11	3,308.68	3,185.00	73.33	49.549		
14,900.00	12,060.00	12,322.47	12,475.00	42.47	45.40	-173.99	498.89	-715.04	3,412.53	3,285.07	73.91	52.155		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 221H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 146-3_MWD+HRGM											Rule Assigned:		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	
15,000.00	12,060.00	16,192.76	13,183.50	43.42	64.00	-174.09	-2,688.24	-536.31	1,129.74	1,058.03	71.71	15.754		
15,100.00	12,060.00	16,297.00	13,185.07	44.40	65.05	-174.07	-2,792.45	-534.84	1,131.28	1,058.92	72.36	15.633		
15,200.00	12,060.00	16,391.00	13,186.62	45.40	66.01	-173.95	-2,886.38	-531.62	1,133.20	1,060.23	72.97	15.530		
15,300.00	12,060.00	16,486.00	13,188.66	46.42	67.00	-173.81	-2,981.28	-527.77	1,135.68	1,062.07	73.60	15.430		
15,400.00	12,060.00	16,580.00	13,191.03	47.46	67.99	-173.66	-3,075.16	-523.82	1,138.56	1,064.32	74.25	15.335		
15,500.00	12,060.00	16,658.42	13,193.96	48.51	68.83	-173.51	-3,153.42	-519.79	1,142.74	1,067.99	74.75	15.287		
15,600.00	12,060.00	16,798.78	13,197.97	49.59	70.35	-173.19	-3,293.50	-511.87	1,146.18	1,070.23	75.96	15.090		
15,700.00	12,060.00	16,909.04	13,198.50	50.68	71.55	-172.99	-3,403.63	-506.82	1,147.10	1,070.25	76.85	14.927		
15,800.00	12,060.00	17,015.18	13,198.56	51.79	72.72	-172.81	-3,509.68	-502.36	1,147.59	1,069.88	77.70	14.769		
15,900.00	12,060.00	17,122.73	13,197.82	52.91	73.92	-172.62	-3,617.13	-497.82	1,147.34	1,068.73	78.60	14.597		
15,986.88	12,060.00	17,203.55	13,197.18	53.89	74.84	-172.50	-3,697.89	-494.80	1,146.99	1,067.76	79.24	14.476		
16,000.00	12,060.00	17,215.14	13,197.15	54.04	74.97	-172.48	-3,709.47	-494.37	1,147.00	1,067.68	79.32	14.460		
16,100.00	12,060.00	17,312.52	13,197.10	55.19	76.08	-172.33	-3,806.78	-490.53	1,147.37	1,067.24	80.12	14.320		
16,200.00	12,060.00	17,408.78	13,197.10	56.34	77.18	-172.16	-3,902.94	-486.30	1,147.85	1,066.92	80.93	14.183		
16,300.00	12,060.00	17,562.40	13,194.01	57.51	78.97	-171.92	-4,056.40	-480.55	1,146.29	1,063.78	82.52	13.892		
16,400.00	12,060.00	17,661.24	13,189.40	58.68	80.13	-171.81	-4,155.11	-478.32	1,141.89	1,058.52	83.36	13.697		
16,500.00	12,060.00	17,743.59	13,186.61	59.87	81.11	-171.67	-4,237.35	-475.27	1,138.92	1,054.89	84.03	13.554		
16,600.00	12,060.00	17,856.03	13,183.39	61.06	82.45	-171.45	-4,349.63	-470.34	1,136.68	1,051.53	85.15	13.349		
16,700.00	12,060.00	17,948.80	13,179.00	62.26	83.56	-171.23	-4,442.19	-465.95	1,132.66	1,046.64	86.02	13.167		
16,800.00	12,060.00	18,022.69	13,177.62	63.47	84.45	-171.04	-4,515.95	-461.67	1,131.44	1,044.81	86.63	13.060		
16,900.00	12,060.00	18,244.07	13,161.60	64.69	87.14	-170.81	-4,736.47	-457.93	1,122.99	1,033.69	89.30	12.576		
17,000.00	12,060.00	18,323.65	13,153.52	65.91	88.11	-170.95	-4,815.57	-461.25	1,112.26	1,022.43	89.83	12.381		
17,100.00	12,060.00	18,392.10	13,148.65	67.14	88.94	-171.08	-4,883.78	-464.19	1,104.38	1,014.17	90.21	12.242		
17,200.00	12,060.00	18,473.00	13,144.47	68.37	89.92	-171.32	-4,964.45	-468.69	1,098.36	1,007.67	90.69	12.111		
17,300.00	12,060.00	18,545.00	13,142.28	69.61	90.80	-171.53	-5,036.31	-472.55	1,094.52	1,003.47	91.05	12.021		
17,400.00	12,060.00	18,666.36	13,139.86	70.85	92.29	-171.79	-5,157.56	-477.06	1,092.03	999.91	92.12	11.855		
17,500.00	12,060.00	18,737.31	13,138.31	72.10	93.17	-171.95	-5,228.44	-479.66	1,089.19	996.70	92.50	11.776		
17,600.00	12,060.00	18,824.11	13,138.06	73.35	94.24	-172.12	-5,315.20	-482.26	1,088.35	995.25	93.10	11.690		
17,638.65	12,060.00	18,858.50	13,138.13	73.84	94.67	-172.18	-5,349.58	-483.08	1,088.27	994.91	93.36	11.657		
17,700.00	12,060.00	18,908.89	13,138.58	74.61	95.30	-172.25	-5,399.96	-484.06	1,088.58	994.88	93.70	11.618		
17,800.00	12,060.00	19,008.15	13,140.29	75.87	96.54	-172.38	-5,499.19	-485.60	1,089.97	995.43	94.54	11.529		
17,900.00	12,060.00	19,123.53	13,141.21	77.14	97.99	-172.56	-5,614.54	-487.99	1,090.39	994.77	95.62	11.404		
17,926.80	12,060.00	19,146.40	13,141.21	77.48	98.28	-172.59	-5,637.41	-488.35	1,090.32	994.53	95.79	11.382		
18,000.00	12,060.00	19,198.95	13,141.82	78.41	98.94	-172.63	-5,689.95	-488.61	1,091.04	994.93	96.11	11.352		
18,100.00	12,060.00	19,300.72	13,144.22	79.68	100.24	-172.62	-5,791.69	-487.30	1,093.44	996.34	97.10	11.261		
18,200.00	12,060.00	19,395.68	13,145.75	80.96	101.46	-172.57	-5,886.61	-485.32	1,095.22	997.21	98.01	11.175		
18,300.00	12,060.00	19,495.57	13,147.89	82.23	102.74	-172.49	-5,986.44	-482.79	1,097.57	998.55	99.03	11.084		
18,400.00	12,060.00	19,574.72	13,150.04	83.52	103.76	-172.42	-6,065.53	-480.43	1,100.59	1,000.91	99.68	11.042		
18,500.00	12,060.00	19,675.94	13,154.29	84.80	105.07	-172.30	-6,166.59	-476.69	1,105.14	1,004.38	100.77	10.967		
18,600.00	12,060.00	19,810.61	13,157.23	86.09	106.82	-172.12	-6,301.14	-471.75	1,107.73	1,005.21	102.52	10.805		
18,700.00	12,060.00	19,936.35	13,156.95	87.38	108.45	-171.97	-6,426.81	-467.89	1,107.92	1,003.84	104.09	10.644		
18,800.00	12,060.00	20,047.46	13,153.92	88.67	109.90	-171.84	-6,537.84	-464.90	1,105.43	1,000.04	105.39	10.489		
18,900.00	12,060.00	20,121.80	13,152.39	89.97	110.88	-171.72	-6,612.11	-462.23	1,103.89	997.83	106.05	10.409		
18,904.45	12,060.00	20,124.73	13,152.37	90.02	110.92	-171.72	-6,615.04	-462.10	1,103.89	997.81	106.08	10.406		
19,000.00	12,060.00	20,229.05	13,152.64	91.26	112.29	-171.50	-6,719.22	-456.93	1,104.82	997.42	107.40	10.287		
19,100.00	12,060.00	20,367.97	13,147.84	92.56	114.12	-171.27	-6,857.97	-452.08	1,101.61	992.30	109.31	10.078		
19,200.00	12,060.00	20,466.52	13,143.53	93.86	115.41	-171.21	-6,956.41	-450.78	1,097.37	986.98	110.39	9.941		
19,300.00	12,060.00	20,558.44	13,139.83	95.17	116.63	-171.17	-7,048.26	-449.97	1,093.42	982.09	111.33	9.822		
19,400.00	12,060.00	20,638.00	13,137.98	96.47	117.68	-171.10	-7,127.77	-448.27	1,091.24	979.16	112.08	9.736		
19,500.00	12,060.00	20,756.33	13,135.28	97.78	119.25	-170.96	-7,246.02	-444.91	1,089.39	975.77	113.62	9.588		
19,600.00	12,060.00	20,852.37	13,131.03	99.09	120.52	-170.83	-7,341.94	-442.46	1,085.34	970.60	114.74	9.459		
19,666.05	12,060.00	20,887.24	13,130.27	99.95	120.99	-170.75	-7,376.74	-440.63	1,084.38	969.44	114.95	9.434		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 221H - OH - OH													Offset Site Error:
Survey Program: 146-3_MWD+HRGM													Offset Well Error:
Reference													Warning
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
		Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
19,700.00	12,060.00	20,921.00	13,130.37	100.40	121.44	-170.63	-7,410.41	-438.04	1,084.86	969.42	115.43	9.398	
19,800.00	12,060.00	21,026.22	13,130.47	101.71	122.85	-170.22	-7,515.27	-429.41	1,086.27	969.22	117.05	9.281	
19,900.00	12,060.00	21,133.45	13,127.21	103.02	124.28	-170.12	-7,622.39	-427.11	1,083.35	964.96	118.39	9.150	
19,918.67	12,060.00	21,140.32	13,127.16	103.27	124.37	-170.11	-7,629.26	-427.01	1,083.25	964.88	118.37	9.152	
20,000.00	12,060.00	21,196.85	13,128.30	104.34	125.13	-170.07	-7,685.75	-425.50	1,084.84	966.04	118.80	9.132	
20,100.00	12,060.00	21,367.32	13,126.12	105.65	127.38	-170.44	-7,856.03	-431.66	1,082.08	961.22	120.85	8.954	
20,200.00	12,060.00	21,500.93	13,118.93	106.97	129.13	-171.15	-7,988.71	-445.20	1,074.53	952.80	121.73	8.827	
20,300.00	12,060.00	21,568.50	13,116.06	108.29	130.01	-171.48	-8,055.93	-451.40	1,068.79	946.88	121.91	8.767	
20,400.00	12,060.00	21,656.63	13,113.00	109.61	131.17	-171.95	-8,143.58	-459.95	1,063.98	941.69	122.29	8.701	
20,448.99	12,060.00	21,673.00	13,113.01	110.26	131.38	-172.04	-8,159.88	-461.42	1,063.26	941.17	122.10	8.708	
20,500.00	12,060.00	21,690.18	13,113.50	110.93	131.61	-172.11	-8,177.01	-462.57	1,064.12	942.26	121.86	8.732	
20,600.00	12,060.00	21,744.00	13,117.02	112.26	132.33	-172.24	-8,230.68	-464.12	1,069.80	948.06	121.74	8.788	
20,700.00	12,060.00	21,871.71	13,124.89	113.58	134.06	-172.28	-8,358.12	-462.80	1,075.93	952.48	123.45	8.715	
20,800.00	12,060.00	22,000.35	13,129.47	114.90	135.80	-172.09	-8,486.55	-457.50	1,080.02	954.63	125.39	8.613	
20,900.00	12,060.00	22,152.28	13,129.66	116.23	137.86	-172.06	-8,638.45	-455.65	1,080.37	952.79	127.58	8.468	
21,000.00	12,060.00	22,274.22	13,123.40	117.56	139.51	-171.93	-8,760.20	-453.09	1,075.18	945.94	129.24	8.320	
21,100.00	12,060.00	22,332.00	13,121.46	118.88	140.30	-171.83	-8,817.91	-451.12	1,072.36	942.72	129.65	8.271	
21,200.00	12,060.00	22,427.00	13,120.37	120.21	141.59	-171.63	-8,912.80	-446.69	1,071.79	940.89	130.89	8.188	
21,204.45	12,060.00	22,427.94	13,120.36	120.27	141.61	-171.63	-8,913.74	-446.64	1,071.79	940.92	130.87	8.190	
21,300.00	12,060.00	22,523.93	13,119.92	121.54	142.92	-171.40	-9,009.60	-441.73	1,071.96	939.74	132.22	8.108	
21,400.00	12,060.00	22,683.54	13,114.87	122.87	145.09	-171.20	-9,169.05	-437.33	1,069.03	934.28	134.76	7.933	
21,500.00	12,060.00	22,759.39	13,110.96	124.20	146.12	-171.17	-9,244.79	-436.71	1,064.12	928.64	135.49	7.854	
21,600.00	12,060.00	22,828.94	13,109.90	125.54	147.07	-171.12	-9,314.31	-435.45	1,062.65	926.58	136.07	7.810	
21,650.36	12,060.00	22,875.70	13,109.76	126.21	147.71	-171.10	-9,361.07	-434.71	1,062.56	925.97	136.59	7.779	
21,700.00	12,060.00	22,917.78	13,109.85	126.87	148.29	-171.09	-9,403.14	-434.23	1,062.69	925.69	137.00	7.757	
21,800.00	12,060.00	22,992.00	13,111.11	128.20	149.30	-171.08	-9,477.35	-433.30	1,064.48	926.93	137.56	7.738	
21,900.00	12,060.00	23,067.70	13,114.15	129.54	150.34	-171.08	-9,552.97	-432.13	1,068.62	930.51	138.11	7.738	
22,000.00	12,060.00	23,157.81	13,119.47	130.87	151.58	-171.05	-9,642.91	-429.99	1,074.67	935.63	139.04	7.729	
22,100.00	12,060.00	23,246.12	13,125.09	132.21	152.79	-170.96	-9,730.97	-426.67	1,081.43	941.42	140.01	7.724	
22,200.00	12,060.00	23,327.09	13,131.29	133.54	153.91	-170.85	-9,811.62	-423.06	1,089.59	948.81	140.78	7.740	
22,259.99	12,060.00	23,368.00	13,134.97	134.34	154.48	-170.79	-9,852.31	-420.93	1,095.41	954.40	141.01	7.768	

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 222H - OH - OH														Offset Site Error:	0.00 usft				
Survey Program: 146-3_MWD+HRGM														Offset Well Error:	0.00 usft				
Reference														Rule Assigned:					
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						
0.00	0.00	2.01	0.01	0.00	0.00	0.00	265.00	0.00	265.00	265.00	1.66	158.853							
100.00	100.00	102.26	100.26	1.51	0.15	-6.93	264.95	0.06	264.23	262.56	2.07	126.370							
200.00	199.97	202.44	200.44	1.66	0.41	-4.92	264.81	0.08	261.95	259.88	2.97	87.251							
300.00	299.93	302.72	300.72	2.21	0.76	2.36	264.57	-0.52	258.76	255.80	3.65	69.611							
400.00	399.82	401.39	399.39	2.55	1.10	20.76	264.42	-0.88	254.15	250.50	4.28	58.130							
500.00	499.65	501.25	499.24	2.84	1.45	26.61	264.65	-0.47	249.07	244.79	4.95	49.257							
600.00	599.45	601.55	599.54	3.18	1.80	43.70	264.70	0.47	243.85	238.90	5.71	41.574							
700.00	698.87	700.31	698.29	3.75	2.15	57.15	264.72	1.64	237.48	231.77	6.27	36.955							
800.00	798.06	798.52	796.50	3.97	2.50	61.59	265.19	2.29	231.53	225.26	6.82	33.296							
900.00	897.41	897.81	895.79	4.19	2.85	65.55	265.65	3.04	227.01	220.20	7.36	30.385							
1,000.00	996.75	995.77	993.74	4.43	3.19	69.93	266.63	3.78	223.77	216.40	7.94	27.805							
1,100.00	1,095.77	1,094.26	1,092.22	4.71	3.54	73.57	267.91	4.49	220.88	212.93	8.74	25.066							
1,200.00	1,194.75	1,193.11	1,191.05	5.15	3.89	77.04	269.50	5.28	219.00	210.27	9.38	23.227							
1,300.00	1,293.76	1,292.60	1,290.53	5.43	4.25	81.41	270.85	5.79	217.78	208.40	9.61	22.655 CC							
1,343.99	1,337.32	1,335.73	1,333.66	5.52	4.40	83.00	271.45	6.11	217.64	208.04	9.90	21.999 ES							
1,400.00	1,392.81	1,391.21	1,389.13	5.62	4.60	85.06	272.24	6.68	217.87	207.97	10.44	20.956							
1,500.00	1,491.86	1,491.07	1,488.97	5.81	4.95	89.38	273.33	7.95	218.73	208.29	10.97	20.053							
1,600.00	1,590.95	1,591.74	1,589.64	6.00	5.31	93.37	273.86	8.95	220.07	209.09	11.51	19.259							
1,700.00	1,690.07	1,691.33	1,689.22	6.19	5.67	96.36	274.12	9.25	221.61	210.10	12.04	18.596							
1,800.00	1,789.13	1,790.92	1,788.81	6.38	6.01	100.12	274.55	9.20	223.87	211.83	12.57	18.034							
1,900.00	1,888.18	1,891.01	1,888.90	6.57	6.36	103.36	274.31	9.37	226.65	214.08	13.09	17.583							
2,000.00	1,987.20	1,989.12	1,987.01	6.76	6.69	107.69	273.98	9.38	230.19	217.09	13.63	17.255							
2,100.00	2,086.18	2,087.80	2,085.68	6.96	7.04	110.84	273.38	10.14	235.13	221.50	14.16	17.050							
2,200.00	2,185.14	2,184.20	2,182.08	7.15	7.38	114.36	273.27	11.05	241.40	227.24	14.69	17.015							
2,300.00	2,284.09	2,279.30	2,277.16	7.35	7.72	118.08	273.83	12.95	249.88	235.19	15.23	17.070							
2,400.00	2,382.99	2,377.75	2,375.55	7.54	8.07	120.20	273.96	16.14	260.02	244.79	15.72	17.320							
2,500.00	2,481.85	2,467.13	2,464.84	7.74	8.39	121.55	274.56	20.34	272.34	256.61	16.18	17.843							
2,600.00	2,580.66	2,553.88	2,551.28	7.94	8.70	122.01	277.05	27.02	288.72	272.53	16.68	18.491							
2,700.00	2,679.45	2,645.75	2,642.57	8.13	9.03	121.98	281.02	36.60	308.34	291.67	17.14	19.215							
2,800.00	2,778.25	2,735.21	2,731.27	8.33	9.36	120.44	284.90	47.56	329.43	312.28	17.59	20.049							
2,900.00	2,877.08	2,822.58	2,817.57	8.53	9.68	118.78	289.03	60.51	352.59	335.00	18.06	20.916							
3,000.00	2,975.87	2,912.99	2,906.52	8.73	10.02	117.61	293.68	75.96	377.77	359.71	18.68	21.586							
3,100.00	3,074.61	3,015.56	3,007.43	8.93	10.41	117.46	298.33	93.80	403.14	384.47	19.27	22.118							
3,200.00	3,173.35	3,117.17	3,107.76	9.12	10.80	117.33	301.61	109.50	426.31	407.04	19.87	22.589							
3,300.00	3,272.11	3,218.70	3,208.15	9.32	11.19	121.36	305.55	124.16	448.78	428.92	20.41	23.096							
3,400.00	3,370.95	3,314.63	3,303.03	9.52	11.55	122.69	310.90	137.21	471.31	450.90	20.92	23.686							
3,500.00	3,469.86	3,403.88	3,391.16	9.76	11.90	138.77	316.79	150.03	495.49	474.57	21.46	24.377							
3,600.00	3,568.72	3,498.86	3,484.83	9.97	12.27	140.49	322.07	164.82	523.22	501.76	22.18	24.762							
3,700.00	3,667.55	3,615.19	3,599.91	10.18	12.72	137.52	325.88	181.32	549.15	526.97	22.87	24.959							
3,800.00	3,766.44	3,732.04	3,716.14	10.38	13.16	146.36	328.73	192.94	570.71	547.84	23.43	25.304							
3,900.00	3,865.32	3,831.58	3,815.26	10.63	13.54	162.05	331.75	201.49	592.80	569.37	24.01	25.647							
4,000.00	3,964.02	3,935.65	3,918.99	10.84	13.92	160.00	334.64	209.46	615.73	591.72	24.52	26.064							
4,100.00	4,062.53	4,027.81	4,010.86	11.05	14.27	160.53	337.61	216.00	639.09	614.57	24.96	26.650							
4,200.00	4,160.91	4,107.83	4,090.44	11.26	14.57	160.08	341.85	223.17	665.07	640.11	25.38	27.316							
4,300.00	4,259.37	4,187.89	4,169.82	11.48	14.88	161.27	346.33	232.56	693.32	667.94	25.93	27.815							
4,400.00	4,357.97	4,285.23	4,266.31	11.69	15.26	159.51	351.42	244.41	721.37	695.43	26.34	28.466							
4,500.00	4,456.67	4,362.00	4,342.18	11.93	15.56	148.00	356.12	255.13	749.70	723.37	26.94	28.839							
4,600.00	4,555.52	4,464.77	4,443.60	12.14	15.97	140.66	362.83	270.25	776.79	749.86	27.39	29.269							
4,700.00	4,654.60	4,550.00	4,527.78	12.33	16.31	135.88	367.83	282.65	801.66	774.27	27.83	29.699							
4,800.00	4,753.79	4,634.72	4,611.30	12.52	16.65	131.78	371.90	296.25	826.58	798.74	28.29	30.112							
4,900.00	4,853.10	4,722.54	4,697.67	12.70	17.01	131.65	375.31	311.78	851.99	823.69	29.02	30.219							
5,000.00	4,952.47	4,842.80	4,816.07	12.88	17.50	137.42	379.81	332.29	876.87	847.86									

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 222H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 146-3_MWD+HRGM											Rule Assigned:		Offset Well Error:	0.00 usft
Measured Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Depth (usft)	Vertical Depth (usft)	Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.00	5,051.72	4,926.00	4,898.08	13.07	17.83	145.43	382.13	346.14	902.95	873.49	29.46	30.653		
5,200.00	5,150.85	5,005.37	4,976.14	13.26	18.16	149.79	383.59	360.43	931.87	901.99	29.88	31.189		
5,300.00	5,250.23	5,152.01	5,120.67	13.45	18.75	150.85	386.70	384.92	958.44	927.65	30.79	31.126		
5,400.00	5,349.42	5,298.30	5,266.04	13.64	19.32	148.09	391.93	400.20	979.42	947.77	31.64	30.950		
5,500.00	5,448.36	5,415.49	5,382.75	13.93	19.76	147.24	398.06	408.82	999.01	966.63	32.39	30.847		
5,600.00	5,547.22	5,512.18	5,479.08	14.18	20.12	146.24	403.57	415.19	1,018.24	985.26	32.98	30.876		
5,700.00	5,646.05	5,609.87	5,576.38	14.39	20.48	141.90	409.14	421.83	1,037.46	1,003.93	33.53	30.942		
5,800.00	5,744.82	5,714.12	5,680.25	14.60	20.87	137.80	415.01	428.44	1,055.67	1,021.55	34.11	30.945		
5,900.00	5,843.58	5,805.66	5,771.44	14.80	21.21	137.82	420.71	434.16	1,073.48	1,038.84	34.64	30.993		
6,000.00	5,942.43	5,890.00	5,855.37	15.00	21.52	139.60	425.86	440.55	1,092.31	1,057.19	35.12	31.102		
6,100.00	6,041.27	5,989.46	5,954.35	15.21	21.90	141.39	431.61	448.54	1,112.03	1,076.35	35.68	31.163		
6,200.00	6,140.02	6,084.36	6,048.81	15.42	22.26	141.29	436.96	455.89	1,132.02	1,095.79	36.23	31.248		
6,300.00	6,238.81	6,165.90	6,129.84	15.62	22.57	144.06	442.17	463.30	1,153.18	1,116.48	36.70	31.425		
6,400.00	6,337.75	6,267.88	6,231.15	15.82	22.96	144.28	448.98	472.83	1,174.10	1,136.83	37.27	31.499		
6,500.00	6,436.81	6,367.54	6,330.16	16.02	23.34	146.74	455.54	482.10	1,194.51	1,156.67	37.83	31.572		
6,600.00	6,535.79	6,458.51	6,420.59	16.22	23.69	147.73	461.43	490.13	1,215.12	1,176.77	38.35	31.684		
6,700.00	6,634.61	6,525.00	6,486.55	16.42	23.95	150.62	465.16	497.53	1,239.08	1,200.35	38.73	31.992		
6,800.00	6,733.38	6,620.76	6,581.42	16.63	24.33	151.26	470.58	509.41	1,264.80	1,225.52	39.28	32.197		
6,900.00	6,832.33	6,716.64	6,676.43	16.83	24.71	157.87	475.91	521.14	1,289.78	1,249.95	39.83	32.381		
7,000.00	6,931.52	6,817.99	6,776.94	17.02	25.11	157.99	480.22	533.36	1,313.34	1,272.93	40.41	32.504		
7,100.00	7,031.09	6,916.82	6,875.00	17.21	25.50	154.86	484.08	545.05	1,333.41	1,292.44	40.97	32.549		
7,200.00	7,131.03	7,010.97	6,968.39	17.42	25.87	109.04	488.13	556.32	1,347.56	1,306.13	41.43	32.524		
7,300.00	7,231.02	7,098.63	7,055.29	17.52	26.21	92.13	490.97	567.39	1,360.25	1,318.44	41.80	32.539		
7,400.00	7,331.02	7,199.12	7,154.90	17.62	26.61	95.20	493.91	580.44	1,373.23	1,330.98	42.25	32.506		
7,500.00	7,431.01	7,310.70	7,265.54	17.73	27.05	104.80	497.16	594.46	1,385.90	1,343.14	42.76	32.412		
7,600.00	7,531.00	7,423.34	7,377.37	17.84	27.49	117.96	501.41	607.25	1,397.58	1,354.30	43.29	32.288		
7,700.00	7,631.00	7,535.17	7,488.48	17.95	27.92	135.25	505.47	619.31	1,408.90	1,365.09	43.81	32.156		
7,800.00	7,730.99	7,634.64	7,587.37	18.05	28.31	138.13	509.41	629.29	1,419.64	1,375.35	44.28	32.057		
7,900.00	7,830.99	7,743.21	7,695.28	18.15	28.73	169.17	514.24	640.10	1,430.37	1,385.57	44.80	31.927		
8,000.00	7,930.98	7,838.94	7,790.46	18.22	29.09	-151.53	518.71	649.34	1,440.91	1,395.66	45.24	31.848		
8,100.00	8,030.98	7,917.53	7,868.56	18.24	29.40	-119.71	521.67	657.58	1,451.92	1,406.35	45.57	31.860		
8,200.00	8,130.97	8,010.47	7,960.85	18.25	29.76	-136.85	524.20	668.30	1,464.30	1,418.33	45.97	31.852		
8,300.00	8,230.95	8,115.91	8,065.57	18.57	30.17	41.82	526.13	680.39	1,475.44	1,428.88	46.56	31.690		
8,400.00	8,330.88	8,241.84	8,190.81	18.64	30.65	42.77	528.46	693.37	1,483.03	1,435.96	47.07	31.509		
8,500.00	8,430.83	8,363.40	8,311.89	18.68	31.11	37.99	529.74	704.07	1,489.35	1,441.83	47.53	31.338		
8,600.00	8,530.80	8,479.37	8,427.54	18.71	31.54	28.53	531.20	712.57	1,494.48	1,446.54	47.94	31.172		
8,700.00	8,630.77	8,587.33	8,535.24	18.73	31.94	17.44	533.25	719.74	1,499.15	1,450.84	48.32	31.028		
8,800.00	8,730.76	8,688.01	8,635.70	18.74	32.31	17.31	535.08	726.12	1,504.06	1,455.40	48.66	30.911		
8,900.00	8,830.76	8,813.14	8,760.64	18.74	32.76	-13.28	536.00	732.84	1,508.40	1,459.31	49.09	30.729		
9,000.00	8,930.75	8,919.96	8,867.36	18.72	33.14	-22.82	536.41	737.51	1,511.83	1,462.39	49.44	30.580		
9,100.00	9,030.74	9,039.84	8,987.15	18.70	33.56	-51.54	538.01	742.03	1,514.53	1,464.69	49.84	30.387		
9,200.00	9,130.74	9,160.17	9,107.44	18.68	33.98	-119.24	539.10	744.58	1,516.85	1,466.57	50.28	30.168		
9,300.00	9,230.72	9,255.00	9,202.25	18.68	34.31	-120.93	539.90	746.32	1,519.68	1,469.01	50.67	29.992		
9,400.00	9,330.70	9,363.54	9,310.77	18.68	34.69	-111.07	540.80	748.07	1,522.21	1,471.11	51.09	29.793		
9,500.00	9,430.67	9,455.28	9,402.49	18.67	35.00	-110.48	541.84	749.55	1,524.50	1,473.04	51.46	29.625		
9,600.00	9,530.64	9,560.61	9,507.79	18.66	35.37	-119.72	543.58	751.45	1,527.38	1,475.51	51.87	29.446		
9,700.00	9,630.59	9,681.97	9,629.14	18.67	35.78	-128.51	545.28	752.21	1,529.72	1,477.39	52.33	29.232		
9,800.00	9,730.54	9,787.49	9,734.65	18.69	36.13	-142.37	546.24	752.06	1,531.87	1,479.11	52.76	29.037		
9,900.00	9,830.48	9,888.90	9,836.04	18.74	36.47	-151.99	548.11	751.70	1,534.46	1,481.27	53.19	28.851		
10,000.00	9,930.42	9,997.06	9,944.18	18.80	36.82	-151.31	550.24	751.05	1,537.07	1,483.43	53.64	28.657		
10,100.00	10,030.33	10,102.14	10,049.23	18.85	37.17	-146.94	552.07	749.78	1,539.55	1,485.48	54.08	28.470		
10,200.00	10,130.19	10,198.86	10,145.94	18.91	37.48	-152.81	553.15	748.70	1,542.97	1,488.48	54.49	28.314		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 222H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 146-3_MWD+HRGM													Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Offset Wellbore Centre		Distance				Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
10,300.00	10,229.97	10,296.35	10,243.43	18.99	37.79	-152.18	553.76	747.73	1,547.92	1,493.00	54.92	28.185		
10,400.00	10,329.68	10,405.86	10,352.93	19.05	38.14	-138.00	554.28	746.69	1,553.14	1,497.79	55.36	28.057		
10,500.00	10,429.39	10,513.45	10,460.50	19.09	38.48	-121.69	554.11	744.60	1,555.99	1,500.24	55.76	27.906		
10,600.00	10,529.12	10,614.01	10,561.04	19.11	38.79	-124.60	553.90	742.59	1,558.00	1,501.87	56.13	27.756		
10,700.00	10,628.94	10,714.88	10,661.88	19.14	39.11	-130.54	554.03	740.48	1,559.58	1,503.06	56.52	27.594		
10,800.00	10,728.88	10,809.47	10,756.46	19.17	39.41	-133.91	554.39	738.61	1,559.83	1,502.92	56.91	27.409		
10,804.45	10,733.33	10,813.64	10,760.63	19.17	39.42	-134.98	554.41	738.53	1,559.83	1,502.90	56.93	27.401		
10,900.00	10,828.84	10,904.15	10,851.12	19.23	39.71	-160.69	555.00	737.07	1,560.36	1,503.05	57.32	27.224		
11,000.00	10,928.83	10,999.98	10,946.94	19.32	40.02	159.22	555.36	735.82	1,560.93	1,503.19	57.74	27.033		
11,100.00	11,028.81	11,095.68	11,042.64	19.44	40.32	141.03	554.82	734.86	1,561.35	1,503.18	58.17	26.842		
11,200.00	11,128.80	11,188.21	11,135.15	19.56	40.61	135.94	553.62	734.30	1,562.00	1,503.41	58.59	26.661		
11,300.00	11,228.77	11,282.95	11,229.88	19.68	40.92	147.54	551.99	734.15	1,563.34	1,504.33	59.02	26.489		
11,400.00	11,328.75	11,382.61	11,329.53	19.79	41.24	-179.52	550.05	734.18	1,565.16	1,505.70	59.46	26.322		
11,500.00	11,428.49	11,552.79	11,499.59	20.94	41.77	-94.60	545.77	730.08	1,564.05	1,502.75	61.31	25.512		
11,600.00	11,525.17	11,637.49	11,584.19	21.69	42.04	-89.22	544.13	726.32	1,560.09	1,497.78	62.31	25.036		
11,700.00	11,617.80	11,710.09	11,656.74	21.72	42.27	-88.67	544.60	724.05	1,555.72	1,493.29	62.43	24.920		
11,800.00	11,705.23	11,783.16	11,729.80	21.90	42.51	-86.66	544.85	722.56	1,551.31	1,488.79	62.52	24.813		
11,900.00	11,783.36	11,853.49	11,800.12	22.16	42.73	-88.38	544.20	721.70	1,545.85	1,483.34	62.50	24.732		
11,932.92	11,806.82	11,878.38	11,825.01	22.23	42.81	-90.95	543.74	721.50	1,545.16	1,482.58	62.58	24.690		
12,000.00	11,851.85	11,930.23	11,876.84	22.38	42.98	-95.57	542.54	720.99	1,547.34	1,484.61	62.73	24.667		
12,100.00	11,909.84	11,994.67	11,941.25	22.67	43.18	-94.23	540.76	720.16	1,556.84	1,494.03	62.81	24.787		
12,200.00	11,951.37	12,039.72	11,986.28	22.90	43.33	-93.37	539.63	719.48	1,566.01	1,503.28	62.73	24.966		
12,300.00	11,975.92	12,065.59	12,012.14	23.11	43.41	-92.93	539.02	719.06	1,579.51	1,516.97	62.54	25.256		
12,400.00	11,985.05	12,076.10	12,022.65	23.37	43.44	-91.85	538.78	718.90	1,601.33	1,538.97	62.35	25.681		
12,500.00	11,987.32	12,080.17	12,026.71	23.67	43.46	-92.00	538.69	718.84	1,629.77	1,567.60	62.18	26.213		
12,600.00	11,990.72	12,085.34	12,031.88	24.08	43.47	-92.60	538.57	718.76	1,666.20	1,604.02	62.18	26.796		
12,700.00	11,996.12	12,092.47	12,039.01	24.48	43.50	-93.85	538.40	718.65	1,711.76	1,649.65	62.12	27.557		
12,800.00	12,004.27	12,102.20	12,048.74	24.94	43.53	-94.99	538.18	718.51	1,762.47	1,700.37	62.10	28.381		
12,900.00	12,012.70	12,112.22	12,058.75	25.44	43.56	-95.22	537.95	718.37	1,818.76	1,756.63	62.13	29.275		
13,000.00	12,021.18	12,122.30	12,068.83	26.00	43.59	-96.16	537.72	718.23	1,880.29	1,818.11	62.18	30.240		
13,100.00	12,030.65	12,132.30	12,078.91	26.62	43.62	-126.38	-819.55	824.67	1,875.06	1,805.18	69.87	26.836		
13,200.00	12,040.26	12,142.30	12,089.00	27.28	43.65	-126.26	-921.74	823.48	1,867.94	1,797.08	70.86	26.360		
13,300.00	12,048.54	12,152.30	12,099.09	27.99	43.68	-126.16	-1,026.16	822.08	1,862.29	1,790.36	71.94	25.888		
13,400.00	12,055.24	12,162.30	12,109.18	28.75	43.71	-126.10	-1,128.22	820.48	1,857.67	1,784.62	73.06	25.427		
13,495.15	12,058.48	12,172.30	12,119.27	29.51	43.74	-126.10	-1,195.31	819.53	1,856.14	1,782.19	73.95	25.099		
13,500.00	12,057.83	12,182.30	12,129.36	29.55	43.77	-126.12	-1,198.60	819.49	1,856.91	1,782.91	73.99	25.095		
13,600.00	12,059.41	12,192.30	12,139.45	30.39	43.80	-126.13	-1,268.06	819.16	1,857.54	1,782.60	74.94	24.788		
13,700.00	12,058.40	12,202.30	12,149.54	31.26	43.83	-126.25	-1,347.41	819.60	1,860.76	1,784.79	75.97	24.494		
13,800.00	12,058.93	12,212.30	12,159.63	32.17	43.86	-126.35	-1,449.38	820.25	1,863.44	1,786.20	77.24	24.124		
13,900.00	12,058.02	12,222.30	12,169.72	33.10	43.89	-126.46	-1,528.07	820.86	1,868.54	1,790.20	78.34	23.850		
14,000.00	12,058.21	12,232.30	12,179.81	35.46	43.92	-126.55	-1,623.46	822.42	1,872.00	1,792.34	79.67	23.498		
14,100.00	12,058.69	12,242.30	12,189.90	36.06	43.95	-126.80	-1,756.57	825.25	1,867.92	1,786.93	81.00	23.061		
14,200.00	12,059.54	12,252.30	12,199.99	36.71	43.98	-126.90	-1,922.26	827.94	1,862.69	1,779.99	82.70	22.522		
14,300.00	12,059.96	12,262.30	12,209.08	37.42	44.01	-126.86	-2,002.09	829.18	1,859.19	1,775.37	83.82	22.180		
14,349.72	12,060.03	12,272.30	12,219.17	37.79	44.04	-126.84	-2,037.82	830.02	1,858.84	1,774.48	84.36	22.035		
14,400.00	12,060.00	12,282.30	12,229.26	38.17	44.07	-126.82	-2,079.80	831.23	1,859.58	1,774.62	84.96	21.888		
14,500.00	12,060.00	12,292.30	12,239.35	38.97	44.10	-126.80	-2,128.80	833.07	1,862.16	1,776.28	85.88	21.684		
14,600.00	12,060.00	12,302.30	12,249.44	39.79	44.13	-126.79	-2,185.63	835.92	1,867.24	1,780.37	86.87	21.495		
14,700.00	12,060.00	12,312.30	12,259.53	40.66	44.16	-126.80	-2,268.44	840.93	1,873.92	1,785.79	88.13	21.263		
14,800.00	12,060.00	12,322.30	12,269.62	41.55	44.19	-126.62	-2,523.89	850.75	1,874.85	1,783.67	91.18	20.562		
14,900.00	12,060.00	12,332.30	12,279.71	42.47	44.22	-126.63	-2,666.77	847.96	1,871.12	1,778.04	93.09	20.101		
15,000.00	12,060.00	12,342.30	12,289.80	43.42	44.25	-126.60	-2,740.02	847.73	1,868.73	1,774.31	94.42	19.791		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 222H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 146-3_MWD+HRGM											Rule Assigned:		Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Offset Wellbore Centre		Distance			Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
15,100.00	12,060.00	16,287.00	13,171.36	44.40	65.97	-126.55	-2,833.98	847.96	1,866.60	1,770.60	96.00	19.444		
15,180.06	12,060.00	16,333.32	13,170.69	45.20	66.44	-126.54	-2,880.29	847.86	1,865.52	1,768.54	96.98	19.236		
15,200.00	12,060.00	16,341.78	13,170.81	45.40	66.53	-126.54	-2,888.75	847.87	1,865.58	1,768.39	97.19	19.196		
15,300.00	12,060.00	16,591.48	13,168.40	46.42	69.09	-126.65	-3,138.12	840.92	1,862.03	1,761.82	100.20	18.583		
15,400.00	12,060.00	16,728.02	13,162.64	47.46	70.50	-126.70	-3,274.20	831.55	1,853.26	1,751.09	102.17	18.139		
15,500.00	12,060.00	16,809.00	13,161.02	48.51	71.33	-126.80	-3,354.85	824.47	1,844.41	1,740.77	103.65	17.795		
15,600.00	12,060.00	16,863.12	13,162.28	49.59	71.90	-126.94	-3,408.70	819.29	1,837.40	1,732.53	104.87	17.521		
15,700.00	12,060.00	16,917.00	13,164.88	50.68	72.47	-127.10	-3,462.33	814.84	1,832.91	1,726.85	106.06	17.282		
15,800.00	12,060.00	17,026.82	13,172.29	51.79	73.65	-127.45	-3,571.60	806.78	1,830.63	1,722.97	107.67	17.003		
15,900.00	12,060.00	17,135.11	13,177.55	52.91	74.82	-127.76	-3,679.42	798.21	1,826.68	1,717.39	109.29	16.713		
16,000.00	12,060.00	17,188.20	13,180.01	54.04	75.40	-127.90	-3,732.33	794.56	1,823.55	1,713.06	110.49	16.504		
16,051.51	12,060.00	17,212.87	13,181.54	54.63	75.67	-127.97	-3,756.92	793.26	1,823.04	1,711.97	111.07	16.413		
16,100.00	12,060.00	17,240.62	13,183.57	55.19	75.98	-128.04	-3,784.57	792.06	1,823.24	1,711.59	111.65	16.331		
16,200.00	12,060.00	17,338.44	13,190.85	56.34	77.09	-128.31	-3,882.04	788.21	1,824.12	1,710.90	113.22	16.111		
16,300.00	12,060.00	17,421.00	13,196.93	57.51	78.03	-128.52	-3,964.34	785.77	1,825.74	1,711.07	114.67	15.921		
16,400.00	12,060.00	17,516.00	13,201.40	58.68	79.12	-128.65	-4,059.21	785.69	1,827.98	1,711.63	116.36	15.710		
16,500.00	12,060.00	17,611.00	13,198.85	59.87	80.24	-128.51	-4,154.03	790.60	1,829.76	1,711.46	118.30	15.467		
16,600.00	12,060.00	17,687.69	13,196.95	61.06	81.15	-128.38	-4,230.54	795.42	1,832.62	1,712.60	120.02	15.270		
16,700.00	12,060.00	17,750.43	13,196.63	62.26	81.90	-128.29	-4,293.12	800.01	1,837.43	1,715.94	121.49	15.124		
16,800.00	12,060.00	18,117.49	13,178.75	63.47	86.31	-127.63	-4,658.91	814.37	1,839.13	1,711.93	127.19	14.459		
16,900.00	12,060.00	18,180.00	13,172.98	64.69	87.07	-127.52	-4,721.14	813.41	1,831.60	1,702.67	128.93	14.206		
17,000.00	12,060.00	18,298.14	13,161.56	65.91	88.50	-127.28	-4,838.70	811.67	1,823.79	1,692.48	131.32	13.889		
17,100.00	12,060.00	18,347.56	13,158.71	67.14	89.09	-127.24	-4,888.02	810.31	1,817.54	1,684.68	132.86	13.680		
17,200.00	12,060.00	18,440.16	13,158.06	68.37	90.21	-127.30	-4,980.57	807.46	1,813.95	1,679.22	134.73	13.464		
17,300.00	12,060.00	18,521.00	13,155.78	69.61	91.19	-127.29	-5,061.34	805.26	1,809.56	1,673.02	136.54	13.253		
17,400.00	12,060.00	18,598.61	13,155.84	70.85	92.14	-127.33	-5,138.93	803.84	1,807.36	1,669.10	138.26	13.072		
17,500.00	12,060.00	18,699.00	13,152.31	72.10	93.38	-127.26	-5,239.26	803.77	1,804.53	1,664.14	140.38	12.854		
17,600.00	12,060.00	18,774.57	13,149.63	73.35	94.33	-127.19	-5,314.78	804.77	1,802.87	1,660.64	142.22	12.676		
17,700.00	12,060.00	19,003.87	13,135.01	74.61	97.20	-126.79	-5,543.49	808.08	1,800.87	1,654.73	146.14	12.323		
17,800.00	12,060.00	19,053.55	13,130.72	75.87	97.83	-126.70	-5,592.98	807.41	1,794.15	1,646.30	147.85	12.135		
17,900.00	12,060.00	19,106.85	13,128.28	77.14	98.50	-126.64	-5,646.22	807.35	1,790.51	1,641.01	149.49	11.977		
18,000.00	12,060.00	19,180.00	13,126.53	78.41	99.42	-126.60	-5,719.35	807.98	1,789.02	1,637.70	151.32	11.822		
18,100.00	12,060.00	19,299.81	13,124.77	79.68	100.94	-126.54	-5,839.13	809.36	1,788.63	1,634.88	153.74	11.634		
18,200.00	12,060.00	19,435.16	13,121.50	80.96	102.65	-126.54	-5,974.40	806.40	1,784.54	1,628.28	156.26	11.420		
18,300.00	12,060.00	19,533.55	13,118.84	82.23	103.90	-126.53	-6,072.73	804.02	1,780.35	1,621.98	158.37	11.241		
18,400.00	12,060.00	19,620.35	13,116.67	83.52	105.00	-126.52	-6,159.49	802.44	1,776.74	1,616.37	160.37	11.079		
18,500.00	12,060.00	19,704.72	13,114.90	84.80	106.08	-126.51	-6,243.83	801.11	1,773.63	1,611.29	162.34	10.926		
18,600.00	12,060.00	19,763.59	13,114.75	86.09	106.83	-126.52	-6,302.70	800.96	1,772.51	1,608.57	163.95	10.812		
18,700.00	12,060.00	19,893.79	13,113.56	87.38	108.51	-126.49	-6,432.88	801.65	1,771.81	1,605.29	166.52	10.640		
18,800.00	12,060.00	19,974.00	13,111.77	88.67	109.55	-126.45	-6,513.07	802.35	1,770.55	1,602.06	168.49	10.508		
18,858.45	12,060.00	20,020.05	13,110.97	89.43	110.15	-126.42	-6,559.11	803.01	1,770.26	1,600.63	169.63	10.436		
18,900.00	12,060.00	20,049.35	13,110.62	89.97	110.53	-126.40	-6,588.40	803.62	1,770.40	1,600.02	170.38	10.391		
19,000.00	12,060.00	20,119.96	13,110.34	91.26	111.46	-126.37	-6,658.97	805.73	1,771.93	1,599.75	172.18	10.291		
19,100.00	12,060.00	20,231.94	13,110.50	92.56	112.93	-126.30	-6,770.87	810.15	1,774.62	1,599.99	174.63	10.162		
19,200.00	12,060.00	20,331.15	13,109.08	93.86	114.23	-126.21	-6,870.00	813.74	1,776.05	1,599.11	176.95	10.037		
19,300.00	12,060.00	20,421.71	13,107.63	95.17	115.43	-126.11	-6,960.46	817.78	1,778.06	1,598.91	179.15	9.925		
19,400.00	12,060.00	20,489.00	13,107.60	96.47	116.32	-126.06	-7,027.68	820.84	1,781.12	1,600.22	180.90	9.846		
19,500.00	12,060.00	20,596.34	13,109.57	97.78	117.74	-126.03	-7,134.87	826.12	1,785.57	1,602.29	183.28	9.742		
19,600.00	12,060.00	20,718.11	13,111.03	99.09	119.36	-126.01	-7,256.56	830.40	1,788.43	1,602.54	185.89	9.621		
19,700.00	12,060.00	20,838.78	13,111.30	100.40	120.96	-125.96	-7,377.17	833.90	1,790.25	1,601.76	188.49	9.498		
19,800.00	12,060.00	20,936.99	13,111.48	101.71	122.27	-125.95	-7,475.36	835.95	1,791.41	1,600.69	190.72	9.393		
19,900.00	12,060.00	21,006.00	13,112.20	103.02	123.18	-125.94	-7,544.34	837.68	1,793.48	1,601.02	192.46	9.319		

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



Legacy Directional Drilling
Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - (O) Talco State Federal Com 222H - OH - OH											Offset Site Error:	0.00 usft
Survey Program: 146-3_MWD+HRGM											Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Offset Wellbore Centre		Distance			Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	
20,000.00	12,060.00	21,100.00	13,114.01	104.34	124.44	-125.94	-7,638.26	841.07	1,796.88	1,602.28	194.60	9.234
20,100.00	12,060.00	21,230.28	13,115.30	105.65	126.19	-125.89	-7,768.43	846.32	1,800.25	1,602.85	197.40	9.120
20,200.00	12,060.00	21,360.66	13,112.73	106.97	127.94	-125.78	-7,898.73	849.92	1,800.54	1,600.26	200.28	8.990
20,300.00	12,060.00	21,476.41	13,109.81	108.29	129.49	-125.67	-8,014.41	852.59	1,800.30	1,597.37	202.93	8.872
20,372.98	12,060.00	21,535.38	13,107.79	109.25	130.28	-125.60	-8,073.32	854.22	1,800.01	1,595.50	204.51	8.801
20,400.00	12,060.00	21,557.14	13,107.09	109.61	130.58	-125.57	-8,095.06	854.94	1,800.05	1,594.96	205.10	8.777
20,500.00	12,060.00	21,664.00	13,103.80	110.93	132.02	-125.45	-8,201.82	857.93	1,799.88	1,592.20	207.67	8.667
20,537.94	12,060.00	21,700.45	13,102.84	111.43	132.51	-125.41	-8,238.26	858.69	1,799.70	1,591.13	208.57	8.629
20,600.00	12,060.00	21,742.51	13,102.12	112.26	133.08	-125.38	-8,280.29	859.83	1,800.04	1,590.30	209.75	8.582
20,700.00	12,060.00	21,852.00	13,100.18	113.58	134.55	-125.29	-8,389.72	862.70	1,800.48	1,588.16	212.31	8.480
20,800.00	12,060.00	21,924.45	13,099.79	114.90	135.53	-125.27	-8,462.15	864.12	1,801.30	1,587.09	214.21	8.409
20,900.00	12,060.00	22,005.35	13,102.25	116.23	136.63	-125.31	-8,543.00	865.94	1,804.19	1,588.10	216.09	8.349
21,000.00	12,060.00	22,101.05	13,105.75	117.56	137.93	-125.37	-8,638.61	868.10	1,807.49	1,589.32	218.17	8.285
21,100.00	12,060.00	22,211.04	13,110.24	118.88	139.42	-125.47	-8,748.48	870.18	1,810.76	1,590.32	220.44	8.214
21,200.00	12,060.00	22,364.26	13,111.41	120.21	141.50	-125.47	-8,901.65	873.06	1,812.04	1,588.51	223.54	8.106
21,289.14	12,060.00	22,451.98	13,110.00	121.40	142.69	-125.42	-8,989.35	874.37	1,811.72	1,586.08	225.64	8.029
21,300.00	12,060.00	22,459.95	13,109.88	121.54	142.80	-125.41	-8,997.32	874.52	1,811.73	1,585.87	225.86	8.022
21,400.00	12,060.00	22,532.29	13,109.19	122.87	143.78	-125.37	-9,069.63	876.39	1,812.64	1,584.82	227.81	7.957
21,500.00	12,060.00	22,607.00	13,109.38	124.20	144.80	-125.34	-9,144.29	879.21	1,815.17	1,585.41	229.76	7.900
21,600.00	12,060.00	22,711.05	13,110.06	125.54	146.23	-125.29	-9,248.25	883.60	1,818.34	1,586.12	232.22	7.830
21,700.00	12,060.00	22,827.06	13,108.45	126.87	147.82	-125.16	-9,364.10	889.23	1,820.87	1,585.83	235.04	7.747
21,800.00	12,060.00	22,944.25	13,104.80	128.20	149.43	-124.99	-9,481.11	894.63	1,822.16	1,584.19	237.97	7.657
21,900.00	12,060.00	23,026.07	13,101.70	129.54	150.56	-124.85	-9,562.76	898.72	1,823.49	1,583.20	240.29	7.589
22,000.00	12,060.00	23,104.51	13,099.35	130.87	151.64	-124.71	-9,641.01	903.72	1,826.31	1,583.78	242.53	7.530
22,100.00	12,060.00	23,200.89	13,096.17	132.21	152.97	-124.52	-9,737.10	910.42	1,829.52	1,584.33	245.19	7.462
22,200.00	12,060.00	23,285.62	13,093.20	133.54	154.15	-124.34	-9,821.51	917.13	1,833.40	1,585.78	247.62	7.404
22,259.99	12,060.00	23,340.07	13,091.07	134.34	154.91	-124.20	-9,875.71	921.93	1,836.07	1,586.87	249.20	7.368 SF

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - Talco State Fed Com 151H - OH - OH													Offset Site Error:	0.00 usft		
Survey Program: 173-MWD+HRGM+SAG+FDIR (rev.5)													Offset Well Error:	0.00 usft		
Reference													Rule Assigned:			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
13,950.00	12,058.02	13,950.00	12,058.21	15.11	5.73	109.43	-1,663.08	-680.16	0.55	-0.33	0.87	0.628	Collision Risk Procedures Req., CC, SI			
14,000.00	12,058.21	13,999.95	12,057.35	30.22	21.63	58.92	-1,713.02	-680.16	1.66	-0.85	2.52	0.661	Collision Risk Procedures Req., ES			
14,100.00	12,058.69	14,099.30	12,053.35	30.43	30.39	64.60	-1,812.28	-681.10	12.50	7.80	4.70	2.658				
14,200.00	12,059.54	14,199.46	12,052.85	30.65	30.60	71.71	-1,912.40	-682.60	21.35	14.47	6.89	3.101				
14,300.00	12,059.96	14,299.55	12,058.34	30.86	30.82	86.28	-2,012.34	-683.07	24.82	15.12	9.71	2.557				
14,400.00	12,060.00	14,399.54	12,066.38	31.08	31.05	104.14	-2,112.00	-682.51	26.12	13.96	12.16	2.148				
14,500.00	12,060.00	14,407.00	12,067.10	31.29	31.07	105.69	-2,119.43	-682.40	96.67	36.23	60.44	1.599	Collision Risk Procedures Req.			
14,600.00	12,060.00	14,407.00	12,067.10	31.51	31.07	105.69	-2,119.43	-682.40	194.81	132.64	62.18	3.133				
14,700.00	12,060.00	14,407.00	12,067.10	31.72	31.07	105.69	-2,119.43	-682.40	294.21	231.57	62.64	4.697				
14,800.00	12,060.00	14,407.00	12,067.10	31.94	31.07	105.69	-2,119.43	-682.40	393.91	330.98	62.93	6.260				
14,900.00	12,060.00	14,407.00	12,067.10	32.15	31.07	105.69	-2,119.43	-682.40	493.73	430.56	63.17	7.816				
15,000.00	12,060.00	14,407.00	12,067.10	32.37	31.07	105.69	-2,119.43	-682.40	593.62	530.21	63.40	9.363				
15,100.00	12,060.00	14,407.00	12,067.10	32.58	31.07	105.69	-2,119.43	-682.40	693.53	629.91	63.62	10.901				
15,200.00	12,060.00	14,407.00	12,067.10	32.80	31.07	105.69	-2,119.43	-682.40	793.47	729.63	63.84	12.429				
15,300.00	12,060.00	14,407.00	12,067.10	33.01	31.07	105.69	-2,119.43	-682.40	893.42	829.36	64.06	13.947				
15,400.00	12,060.00	14,407.00	12,067.10	33.23	31.07	105.69	-2,119.43	-682.40	993.38	929.11	64.27	15.456				
15,500.00	12,060.00	14,407.00	12,067.10	33.45	31.07	105.69	-2,119.43	-682.40	1,093.35	1,028.86	64.49	16.954				
15,600.00	12,060.00	14,407.00	12,067.10	33.66	31.07	105.69	-2,119.43	-682.40	1,193.32	1,128.62	64.70	18.443				
15,700.00	12,060.00	14,407.00	12,067.10	33.88	31.07	105.69	-2,119.43	-682.40	1,293.30	1,228.38	64.92	19.922				
15,800.00	12,060.00	14,407.00	12,067.10	34.10	31.07	105.69	-2,119.43	-682.40	1,393.28	1,328.15	65.13	21.391				
15,900.00	12,060.00	14,407.00	12,067.10	34.32	31.07	105.69	-2,119.43	-682.40	1,493.27	1,427.92	65.35	22.851				
16,000.00	12,060.00	14,407.00	12,067.10	34.54	31.07	105.69	-2,119.43	-682.40	1,593.25	1,527.69	65.56	24.302				
16,100.00	12,060.00	14,407.00	12,067.10	34.77	31.07	105.69	-2,119.43	-682.40	1,693.24	1,627.46	65.78	25.743				
16,200.00	12,060.00	14,407.00	12,067.10	35.00	31.07	105.69	-2,119.43	-682.40	1,793.23	1,727.24	65.99	27.174				
16,300.00	12,060.00	14,407.00	12,067.10	35.25	31.07	105.69	-2,119.43	-682.40	1,893.22	1,827.01	66.20	28.596				
16,400.00	12,060.00	14,407.00	12,067.10	35.52	31.07	105.69	-2,119.43	-682.40	1,993.21	1,926.79	66.42	30.010				
16,500.00	12,060.00	14,407.00	12,067.10	35.90	31.07	105.69	-2,119.43	-682.40	2,093.20	2,026.57	66.63	31.414				
16,600.00	12,060.00	14,407.00	12,067.10	36.62	31.07	105.69	-2,119.43	-682.40	2,193.19	2,126.34	66.85	32.809				
16,700.00	12,060.00	14,407.00	12,067.10	37.77	31.07	105.69	-2,119.43	-682.40	2,293.19	2,226.12	67.06	34.195				
16,800.00	12,060.00	14,407.00	12,067.10	39.06	31.07	105.69	-2,119.43	-682.40	2,393.18	2,325.90	67.28	35.572				

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



Legacy Directional Drilling
Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - Talco State Fed Com 151H - ST01 - ST01													Offset Site Error:	0.00 usft
Survey Program: Reference													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
13,932.00	12,058.02	13,932.00	12,058.15	9.67	0.00	124.26	-1,645.08	-680.23	0.23	-0.24	0.47	0.497	Collision Risk Procedures Req., CC, E	
14,000.00	12,058.21	13,932.00	12,058.15	30.22	0.00	-88.93	-1,645.08	-680.23	67.99	37.79	30.20	2.251		
14,100.00	12,058.69	13,932.00	12,058.15	30.43	0.00	-104.23	-1,645.08	-680.23	167.89	137.46	30.43	5.517		
14,200.00	12,059.54	13,932.00	12,058.15	30.65	0.00	97.13	-1,645.08	-680.23	267.88	237.23	30.65	8.741		
14,300.00	12,059.96	13,932.00	12,058.15	30.86	0.00	85.35	-1,645.08	-680.23	367.85	336.98	30.86	11.919		
14,400.00	12,060.00	13,932.00	12,058.15	31.08	0.00	84.55	-1,645.08	-680.23	467.75	436.67	31.08	15.051		
14,500.00	12,060.00	13,932.00	12,058.15	31.29	0.00	84.55	-1,645.08	-680.23	567.68	536.39	31.29	18.143		
14,600.00	12,060.00	13,932.00	12,058.15	31.51	0.00	84.55	-1,645.08	-680.23	667.63	636.13	31.50	21.193		
14,700.00	12,060.00	13,932.00	12,058.15	31.72	0.00	84.55	-1,645.08	-680.23	767.59	735.88	31.71	24.203		
14,800.00	12,060.00	13,932.00	12,058.15	31.94	0.00	84.55	-1,645.08	-680.23	867.57	835.64	31.93	27.173		
14,900.00	12,060.00	13,932.00	12,058.15	32.15	0.00	84.55	-1,645.08	-680.23	967.54	935.40	32.14	30.104		
15,000.00	12,060.00	13,932.00	12,058.15	32.37	0.00	84.55	-1,645.08	-680.23	1,067.53	1,035.17	32.35	32.996		
15,100.00	12,060.00	13,932.00	12,058.15	32.58	0.00	84.55	-1,645.08	-680.23	1,167.51	1,134.94	32.57	35.850		
15,200.00	12,060.00	13,932.00	12,058.15	32.80	0.00	84.55	-1,645.08	-680.23	1,267.50	1,234.72	32.78	38.667		
15,300.00	12,060.00	13,932.00	12,058.15	33.01	0.00	84.55	-1,645.08	-680.23	1,367.49	1,334.49	32.99	41.447		
15,400.00	12,060.00	13,932.00	12,058.15	33.23	0.00	84.55	-1,645.08	-680.23	1,467.48	1,434.27	33.21	44.191		
15,500.00	12,060.00	13,932.00	12,058.15	33.45	0.00	84.55	-1,645.08	-680.23	1,567.47	1,534.05	33.42	46.900		
15,600.00	12,060.00	13,932.00	12,058.15	33.67	0.00	84.55	-1,645.08	-680.23	1,667.46	1,633.83	33.64	49.575		
15,700.00	12,060.00	13,932.00	12,058.15	33.88	0.00	84.55	-1,645.08	-680.23	1,767.46	1,733.61	33.85	52.215		
15,800.00	12,060.00	13,932.00	12,058.15	34.10	0.00	84.55	-1,645.08	-680.23	1,867.45	1,833.39	34.06	54.823		
15,900.00	12,060.00	13,932.00	12,058.15	34.32	0.00	84.55	-1,645.08	-680.23	1,967.44	1,933.17	34.28	57.397		
16,000.00	12,060.00	13,932.00	12,058.15	34.55	0.00	84.55	-1,645.08	-680.23	2,067.44	2,032.95	34.49	59.940		
16,100.00	12,060.00	13,932.00	12,058.15	34.77	0.00	84.55	-1,645.08	-680.23	2,167.44	2,132.73	34.71	62.451		
16,200.00	12,060.00	13,932.00	12,058.15	35.00	0.00	84.55	-1,645.08	-680.23	2,267.43	2,232.51	34.92	64.931		
16,300.00	12,060.00	13,932.00	12,058.15	35.25	0.00	84.55	-1,645.08	-680.23	2,367.43	2,332.29	35.13	67.381		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - Talco State Fed Com 152H - OH - OH													Offset Site Error:	0.00 usft	
Survey Program: 176-MWD+IFR1+FDIR													Offset Well Error:	0.00 usft	
Reference				Offset			Semi Major Axis		Highside		Distance		Rule Assigned:		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)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	25.00	25.00				
100.00	100.00	100.04	100.04	1.51	0.15	84.02	0.32	24.92	24.83	23.17	1.66	14.923			
200.00	199.97	200.04	200.04	1.66	0.36	88.85	1.28	24.68	24.40	22.39	2.01	12.120			
233.76	233.72	233.76	233.75	1.85	0.48	92.75	1.79	24.66	24.35	22.04	2.31	10.522 CC			
300.00	299.93	299.93	299.90	2.21	0.71	98.88	3.12	24.77	24.50	21.60	2.90	8.436 ES			
400.00	399.82	399.39	399.31	2.55	1.07	119.90	5.90	26.09	27.22	23.66	3.57	7.630			
500.00	499.65	498.37	498.12	2.84	1.43	125.23	10.12	30.02	33.50	29.30	4.20	7.975			
600.00	599.45	596.88	596.24	3.18	1.79	138.53	15.74	36.76	43.69	38.81	4.88	8.958			
700.00	698.87	694.23	692.92	3.75	2.14	147.34	22.64	45.77	60.87	55.15	5.72	10.640			
800.00	798.06	790.45	788.10	3.97	2.49	146.99	31.06	57.01	82.58	76.32	6.27	13.181			
900.00	897.41	889.06	885.49	4.19	2.85	146.09	40.57	69.26	104.14	97.32	6.82	15.261			
1,000.00	996.75	990.97	986.43	4.43	3.22	145.77	50.72	78.89	123.14	115.72	7.42	16.597			
1,100.00	1,095.77	1,090.05	1,084.72	4.71	3.58	144.99	60.62	86.44	142.56	134.51	8.05	17.718			
1,200.00	1,194.75	1,186.76	1,180.70	5.15	3.94	144.44	69.96	93.78	162.20	153.37	8.83	18.376			
1,300.00	1,293.76	1,280.39	1,273.50	5.43	4.28	144.97	78.92	102.42	183.27	173.84	9.44	19.424			
1,400.00	1,392.81	1,374.55	1,366.50	5.62	4.63	144.51	88.61	113.54	206.81	196.86	9.94	20.796			
1,500.00	1,491.86	1,472.98	1,463.73	5.81	4.99	144.77	98.47	125.16	230.30	219.81	10.49	21.952			
1,600.00	1,590.95	1,570.66	1,560.29	6.00	5.35	144.78	108.18	136.37	253.31	242.28	11.03	22.963			
1,700.00	1,690.07	1,667.54	1,656.04	6.19	5.71	144.01	117.79	147.48	276.22	264.65	11.57	23.883			
1,800.00	1,789.13	1,764.53	1,751.89	6.38	6.07	144.22	127.28	158.85	299.59	287.48	12.10	24.751			
1,900.00	1,888.18	1,863.51	1,849.72	6.57	6.44	143.77	137.09	170.23	322.91	310.26	12.66	25.512			
2,000.00	1,987.20	1,960.56	1,945.44	6.76	6.80	144.14	149.33	180.63	345.91	332.71	13.20	26.212			
2,100.00	2,086.18	2,057.51	2,041.00	6.96	7.16	143.26	161.64	191.40	369.61	355.87	13.74	26.905			
2,200.00	2,185.14	2,161.08	2,143.27	7.15	7.54	143.22	173.83	202.26	392.73	378.41	14.32	27.420			
2,300.00	2,284.09	2,257.63	2,238.82	7.35	7.90	143.75	184.36	211.23	414.75	399.89	14.86	27.907			
2,400.00	2,382.99	2,354.55	2,334.65	7.54	8.26	142.49	195.17	220.90	437.67	422.26	15.41	28.409			
2,500.00	2,481.85	2,450.83	2,429.80	7.74	8.61	140.84	206.43	230.36	460.51	444.57	15.95	28.878			
2,600.00	2,580.66	2,550.86	2,528.64	7.94	8.98	138.73	218.31	240.21	483.37	466.86	16.51	29.271			
2,700.00	2,679.45	2,651.85	2,628.50	8.13	9.36	136.30	230.24	249.38	505.24	488.16	17.09	29.571			
2,800.00	2,778.25	2,747.83	2,723.43	8.33	9.71	132.58	241.57	257.88	526.26	508.63	17.63	29.854			
2,900.00	2,877.08	2,847.40	2,822.01	8.53	10.08	129.14	252.14	266.98	546.55	528.36	18.19	30.046			
3,000.00	2,975.87	2,939.14	2,912.87	8.73	10.42	126.34	261.47	275.67	566.59	547.88	18.71	30.286			
3,100.00	3,074.61	3,042.16	3,014.83	8.93	10.80	124.44	272.16	285.73	586.60	567.30	19.29	30.403			
3,200.00	3,173.35	3,147.74	3,119.48	9.12	11.19	122.70	282.86	294.75	604.94	585.05	19.89	30.412			
3,300.00	3,272.11	3,241.74	3,212.65	9.32	11.54	125.34	292.63	302.54	622.83	602.41	20.42	30.496			
3,400.00	3,370.95	3,331.00	3,301.00	9.52	11.87	125.71	302.25	310.76	642.00	621.07	20.93	30.678			
3,500.00	3,469.86	3,426.00	3,394.93	9.76	12.22	141.10	312.56	320.60	662.88	641.38	21.50	30.839			
3,600.00	3,568.72	3,530.15	3,497.95	9.97	12.60	142.14	323.53	331.24	685.98	663.88	22.10	31.044			
3,700.00	3,667.55	3,632.12	3,598.97	10.18	12.98	138.16	334.04	340.37	707.48	684.80	22.67	31.202			
3,800.00	3,766.44	3,717.73	3,683.69	10.38	13.30	146.03	342.99	348.70	729.58	706.42	23.16	31.504			
3,900.00	3,865.32	3,812.53	3,777.46	10.63	13.65	161.16	352.63	358.82	754.26	730.56	23.70	31.829			
4,000.00	3,964.02	3,908.76	3,872.70	10.84	14.00	158.59	361.47	369.33	780.87	756.63	24.24	32.216			
4,100.00	4,062.53	4,008.24	3,971.21	11.05	14.37	158.72	370.27	380.01	808.15	783.35	24.80	32.585			
4,200.00	4,160.91	4,108.28	4,070.33	11.26	14.74	158.09	379.06	390.34	835.69	810.32	25.37	32.940			
4,300.00	4,259.37	4,208.25	4,169.33	11.48	15.11	159.03	389.08	399.97	862.33	836.39	25.94	33.248			
4,400.00	4,357.97	4,301.54	4,261.55	11.69	15.46	156.91	400.01	408.86	888.43	861.96	26.47	33.568			
4,500.00	4,456.67	4,396.00	4,354.91	11.93	15.81	145.18	410.93	418.17	913.29	886.28	27.01	33.812			
4,600.00	4,555.52	4,489.80	4,447.64	12.14	16.16	137.60	421.43	427.67	936.23	908.68	27.54	33.989			
4,700.00	4,654.60	4,575.97	4,532.75	12.33	16.48	132.56	431.00	437.12	957.88	929.86	28.03	34.179			
4,800.00	4,753.79	4,661.00	4,616.62	12.52	16.79	128.19	439.99	447.85	979.64	951.15	28.49	34.383			
4,900.00	4,853.10	4,791.93	4,745.99	12.70	17.28	127.75	452.95	463.22	999.55	970.32	29.22	34.203			
5,000.00	4,952.47	4,901.61	4,854.72	12.88	17.68	133.06	463.78	472.55	1,016.14	986.32	29.82	34.074			

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - Talco State Fed Com 152H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 176-MWD+IFR1+FDIR											Rule Assigned:		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	
5,100.00	5,051.72	4,984.17	4,936.58	13.07	17.99	140.78	471.16	480.36	1,035.41	1,005.13	30.28	34.191		
5,200.00	5,150.85	5,073.39	5,024.97	13.26	18.32	144.85	478.28	490.24	1,057.67	1,026.88	30.79	34.351		
5,300.00	5,250.23	5,192.21	5,142.71	13.45	18.76	145.48	488.52	502.43	1,077.91	1,046.47	31.45	34.278		
5,400.00	5,349.42	5,302.37	5,251.98	13.64	19.16	142.38	499.31	511.47	1,097.22	1,065.15	32.06	34.223		
5,500.00	5,448.36	5,403.63	5,352.49	13.93	19.53	141.38	508.70	519.34	1,117.34	1,084.62	32.72	34.150		
5,600.00	5,547.22	5,503.74	5,451.89	14.18	19.90	140.30	517.79	526.92	1,137.52	1,104.19	33.33	34.132		
5,700.00	5,646.05	5,619.65	5,567.07	14.39	20.32	135.90	528.07	534.98	1,156.85	1,122.89	33.96	34.065		
5,800.00	5,744.82	5,730.51	5,677.44	14.60	20.72	131.80	536.52	540.95	1,173.75	1,139.19	34.56	33.958		
5,900.00	5,843.58	5,855.00	5,801.52	14.80	21.17	131.90	545.44	545.82	1,188.79	1,153.58	35.21	33.761		
6,000.00	5,942.43	5,959.33	5,905.58	15.00	21.54	133.74	552.15	548.81	1,202.58	1,166.80	35.78	33.614		
6,100.00	6,041.27	6,077.93	6,024.09	15.21	21.96	135.78	555.92	550.97	1,215.45	1,179.06	36.38	33.407		
6,200.00	6,140.02	6,181.07	6,127.22	15.42	22.32	135.96	557.22	552.03	1,227.97	1,191.03	36.94	33.245		
6,300.00	6,238.81	6,278.98	6,225.11	15.62	22.66	138.99	558.27	552.99	1,240.46	1,202.98	37.47	33.102		
6,400.00	6,337.75	6,375.59	6,321.71	15.82	23.00	139.49	559.12	554.07	1,252.69	1,214.69	38.00	32.964		
6,500.00	6,436.81	6,473.28	6,419.39	16.02	23.33	142.23	559.69	555.36	1,264.71	1,226.18	38.53	32.825		
6,600.00	6,535.79	6,571.71	6,517.82	16.22	23.67	143.56	560.18	556.71	1,277.47	1,238.41	39.06	32.704		
6,700.00	6,634.61	6,671.50	6,617.60	16.42	24.02	146.74	560.68	558.06	1,291.49	1,251.88	39.60	32.610		
6,800.00	6,733.38	6,769.56	6,715.65	16.63	24.36	147.64	561.37	559.33	1,305.94	1,265.79	40.14	32.532		
6,900.00	6,832.33	6,867.04	6,813.11	16.83	24.70	154.35	562.22	560.67	1,320.02	1,279.35	40.68	32.453		
7,000.00	6,931.52	6,966.18	6,932.24	17.02	25.10	154.70	562.33	561.64	1,332.36	1,291.10	41.26	32.293		
7,100.00	7,031.09	7,081.67	7,027.73	17.21	25.40	151.71	561.19	561.82	1,340.75	1,298.99	41.76	32.108		
7,200.00	7,131.03	7,177.61	7,123.65	17.42	25.71	106.07	559.76	562.25	1,343.40	1,301.20	42.19	31.838		
7,300.00	7,231.02	7,277.68	7,223.71	17.52	26.03	89.35	558.17	562.83	1,344.04	1,301.45	42.59	31.557		
7,400.00	7,331.02	7,377.93	7,323.95	17.62	26.35	92.63	556.60	563.38	1,344.58	1,301.60	42.98	31.281		
7,500.00	7,431.01	7,476.12	7,422.13	17.73	26.67	102.43	555.13	564.01	1,345.31	1,301.93	43.38	31.013		
7,600.00	7,531.00	7,586.85	7,532.84	17.84	27.03	115.85	553.51	564.58	1,346.23	1,302.40	43.82	30.720		
7,700.00	7,631.00	7,702.63	7,648.62	17.95	27.40	133.32	553.11	563.43	1,345.75	1,301.47	44.28	30.390		
7,800.00	7,730.99	7,800.18	7,746.15	18.05	27.72	136.37	552.85	562.20	1,345.24	1,300.54	44.70	30.094		
7,874.54	7,805.53	7,871.32	7,817.29	18.13	27.94	159.86	552.42	561.49	1,345.12	1,300.11	45.01	29.883		
7,900.00	7,830.99	7,895.58	7,841.55	18.15	28.02	167.61	552.28	561.29	1,345.10	1,299.98	45.12	29.813		
8,000.00	7,930.98	7,982.60	7,928.57	18.22	28.31	-152.92	551.96	560.92	1,345.63	1,300.12	45.51	29.568		
8,100.00	8,030.98	8,075.62	8,021.59	18.24	28.62	-121.03	551.90	561.54	1,346.85	1,300.95	45.90	29.343		
8,200.00	8,130.97	8,197.67	8,143.63	18.25	29.03	-138.07	551.71	561.67	1,347.91	1,301.54	46.37	29.070		
8,300.00	8,230.95	8,317.82	8,263.76	18.57	29.43	40.93	551.49	559.57	1,345.82	1,298.90	46.93	28.679		
8,400.00	8,330.88	8,414.81	8,360.72	18.64	29.74	42.01	551.03	557.32	1,340.74	1,293.48	47.26	28.371		
8,500.00	8,430.83	8,500.00	8,445.90	18.68	30.02	37.23	550.46	555.82	1,336.46	1,288.92	47.54	28.110		
8,600.00	8,530.80	8,595.00	8,540.90	18.71	30.33	27.82	549.75	554.86	1,333.25	1,285.40	47.84	27.866		
8,700.00	8,630.77	8,691.65	8,637.54	18.73	30.64	16.81	549.17	554.25	1,330.65	1,282.51	48.14	27.640		
8,800.00	8,730.76	8,794.95	8,740.84	18.74	30.98	16.77	548.80	553.60	1,328.58	1,280.12	48.46	27.417		
8,900.00	8,830.76	8,896.74	8,842.62	18.74	31.31	-13.80	548.56	552.73	1,326.72	1,277.95	48.77	27.204		
9,000.00	8,930.75	8,994.08	8,939.97	18.72	31.64	-23.32	548.31	551.97	1,325.01	1,275.94	49.06	27.005		
9,100.00	9,030.74	9,093.38	9,039.26	18.70	31.97	-51.98	548.15	551.29	1,323.22	1,273.85	49.38	26.798		
9,180.30	9,111.03	9,171.72	9,117.60	18.69	32.23	-111.38	548.10	550.85	1,322.70	1,273.04	49.66	26.635		
9,200.00	9,130.74	9,191.07	9,136.95	18.68	32.29	-119.65	548.10	550.75	1,322.89	1,273.16	49.73	26.601		
9,300.00	9,230.72	9,288.78	9,234.65	18.68	32.62	-121.32	548.23	550.36	1,323.50	1,273.39	50.11	26.410		
9,400.00	9,330.70	9,385.04	9,330.92	18.68	32.95	-111.45	548.50	550.20	1,324.26	1,273.77	50.49	26.226		
9,500.00	9,430.67	9,480.25	9,426.13	18.67	33.29	-110.85	548.84	550.34	1,325.11	1,274.24	50.87	26.050		
9,600.00	9,530.64	9,583.16	9,529.03	18.66	33.65	-120.08	549.69	550.80	1,326.64	1,275.37	51.27	25.876		
9,700.00	9,630.59	9,694.71	9,640.57	18.67	34.02	-128.78	549.01	550.27	1,327.87	1,276.18	51.69	25.688		
9,800.00	9,730.54	9,791.43	9,737.27	18.69	34.34	-142.52	546.94	549.61	1,329.46	1,277.37	52.09	25.522		
9,900.00	9,830.48	9,885.08	9,830.90	18.74	34.65	-151.98	544.77	549.40	1,332.12	1,279.62	52.50	25.374		
10,000.00	9,930.42	9,986.43	9,932.20	18.80	34.98	-151.10	542.07	549.47	1,335.33	1,282.39	52.94	25.226		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - Talco State Fed Com 152H - OH - OH													Offset Site Error:	0.00 usft		
Survey Program: 176-MWD+IFR1+FDIR													Offset Well Error:	0.00 usft		
Reference													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				
10,100.00	10,030.33	10,092.00	10,037.73	18.85	35.33	-146.53	538.79	549.14	1,338.62	1,285.24	53.38	25.078				
10,200.00	10,130.19	10,197.77	10,143.44	18.91	35.68	-152.25	535.29	548.38	1,342.35	1,288.52	53.83	24.939				
10,300.00	10,229.97	10,300.43	10,246.04	18.99	36.02	-151.48	532.02	547.29	1,347.13	1,292.86	54.27	24.823				
10,400.00	10,329.68	10,408.22	10,353.78	19.05	36.38	-137.20	529.36	545.72	1,351.73	1,297.01	54.71	24.706				
10,500.00	10,429.39	10,510.10	10,455.61	19.09	36.72	-120.80	526.60	543.79	1,354.51	1,299.39	55.12	24.575				
10,600.00	10,529.12	10,601.26	10,546.72	19.11	37.02	-123.62	523.92	542.47	1,356.90	1,301.42	55.48	24.456				
10,700.00	10,628.94	10,722.57	10,667.97	19.14	37.43	-129.50	521.11	539.94	1,358.35	1,302.42	55.93	24.287				
10,800.00	10,728.88	10,833.47	10,778.79	19.17	37.80	-132.78	518.95	536.24	1,357.12	1,300.76	56.36	24.079				
10,900.00	10,828.84	10,932.50	10,877.73	19.23	38.13	-159.46	517.05	532.59	1,355.49	1,298.71	56.78	23.872				
11,000.00	10,928.83	11,025.43	10,970.58	19.32	38.45	-160.56	514.91	529.49	1,353.98	1,296.77	57.21	23.666				
11,100.00	11,028.81	11,118.23	11,063.31	19.44	38.76	-142.47	512.28	526.95	1,352.64	1,295.00	57.64	23.465				
11,200.00	11,128.80	11,205.36	11,150.38	19.56	39.05	-137.46	509.49	525.07	1,351.80	1,293.74	58.06	23.282				
11,209.51	11,138.30	11,213.12	11,158.12	19.57	39.08	-138.64	509.21	524.95	1,351.79	1,293.69	58.10	23.267				
11,300.00	11,228.77	11,298.36	11,243.30	19.68	39.36	-149.16	505.86	524.14	1,352.33	1,293.84	58.49	23.119				
11,400.00	11,328.75	11,429.73	11,374.43	19.79	39.80	-177.69	499.10	520.85	1,351.57	1,292.55	59.02	22.902				
11,500.00	11,428.49	11,516.31	11,460.17	20.94	40.08	-92.33	488.39	517.64	1,349.29	1,288.59	60.70	22.228				
11,600.00	11,525.17	11,571.24	11,513.15	21.69	40.25	-85.97	473.94	517.19	1,347.82	1,286.17	61.65	21.862				
11,700.00	11,617.80	11,634.00	11,572.17	21.72	40.44	-84.31	452.78	519.37	1,347.03	1,285.28	61.74	21.817				
11,800.00	11,705.23	11,670.85	11,605.82	21.90	40.54	-80.82	438.03	522.03	1,346.57	1,284.84	61.73	21.815				
11,900.00	11,783.36	11,729.00	11,656.80	22.16	40.70	-81.02	410.80	528.28	1,344.76	1,283.06	61.70	21.796				
11,911.90	11,791.92	11,729.00	11,656.80	22.19	40.70	-81.73	410.80	528.28	1,344.65	1,282.95	61.70	21.794				
12,000.00	11,851.85	11,762.27	11,684.39	22.38	40.77	-86.33	392.87	533.17	1,349.02	1,287.23	61.78	21.834				
12,100.00	11,909.84	11,824.00	11,731.13	22.67	40.91	-83.73	354.55	545.34	1,360.69	1,298.80	61.88	21.987				
12,200.00	11,951.37	11,899.29	11,779.85	22.90	41.05	-82.75	299.42	560.90	1,365.88	1,303.94	61.94	22.052				
12,300.00	11,975.92	12,043.67	11,859.98	23.11	41.32	-84.91	182.54	587.17	1,364.78	1,302.53	62.24	21.926				
12,400.00	11,985.05	12,156.41	11,913.08	23.37	41.53	-86.96	84.89	605.76	1,363.54	1,301.03	62.51	21.813				
12,500.00	11,987.32	12,422.05	11,984.58	23.67	41.93	-89.65	-168.62	626.69	1,351.73	1,288.22	63.50	21.285				
12,600.00	11,990.72	12,528.72	12,006.10	24.08	42.10	-90.52	-273.04	630.01	1,341.30	1,277.21	64.10	20.927				
12,700.00	11,996.12	12,606.00	12,018.35	24.48	42.22	-90.81	-349.28	632.79	1,336.15	1,271.65	64.49	20.718				
12,800.00	12,004.27	12,682.28	12,026.40	24.94	42.34	-90.92	-425.01	636.93	1,333.68	1,268.73	64.95	20.535				
12,820.91	12,006.13	12,701.00	12,027.81	25.04	42.37	-90.93	-443.63	638.23	1,333.65	1,268.57	65.07	20.495				
12,900.00	12,012.70	12,792.04	12,034.05	25.44	42.52	-90.97	-534.26	644.23	1,334.25	1,268.59	65.67	20.318				
13,000.00	12,021.18	12,953.10	12,032.73	26.00	42.80	-90.41	-695.11	648.67	1,332.32	1,265.55	66.78	19.952				
13,083.57	12,028.94	13,028.93	12,028.70	26.51	42.94	-89.99	-770.82	649.99	1,331.59	1,264.16	67.43	19.748				
13,100.00	12,030.65	13,043.55	12,027.93	26.62	42.97	-89.90	-785.42	650.30	1,331.63	1,264.07	67.56	19.711				
13,200.00	12,040.26	13,152.64	12,024.42	27.28	43.20	-89.36	-894.40	652.56	1,332.58	1,264.06	68.52	19.448				
13,300.00	12,048.54	13,302.34	12,028.45	27.99	43.53	-89.04	-1,044.03	651.55	1,331.57	1,261.76	69.81	19.074				
13,400.00	12,055.24	13,414.65	12,031.32	28.75	43.79	-88.90	-1,156.28	648.92	1,329.47	1,258.54	70.93	18.743				
13,500.00	12,057.83	13,554.31	12,034.60	29.55	44.15	-88.93	-1,295.72	642.27	1,325.73	1,253.44	72.28	18.340				
13,600.00	12,059.41	13,676.55	12,043.89	30.39	44.50	-89.32	-1,417.30	633.85	1,318.67	1,245.06	73.61	17.915				
13,700.00	12,058.40	13,782.91	12,053.03	31.26	44.82	-89.77	-1,522.88	624.81	1,309.36	1,234.47	74.89	17.484				
13,800.00	12,058.93	13,861.00	12,061.19	32.17	45.07	-90.12	-1,600.32	618.94	1,301.52	1,225.49	76.03	17.119				
13,900.00	12,058.02	13,937.00	12,069.74	33.10	45.32	-90.52	-1,675.71	614.54	1,296.42	1,219.24	77.18	16.797				
14,000.00	12,058.21	14,014.65	12,078.81	35.46	45.60	-90.92	-1,752.76	611.37	1,290.88	1,212.61	78.26	16.494				
14,100.00	12,058.69	14,099.71	12,088.87	36.06	45.91	-91.29	-1,837.19	609.13	1,279.53	1,200.25	79.28	16.139				
14,200.00	12,059.54	14,164.47	12,095.55	36.71	46.15	-91.61	-1,901.60	608.34	1,271.22	1,191.05	80.16	15.858				
14,264.11	12,059.86	14,199.61	12,098.14	37.17	46.28	-91.73	-1,936.64	608.96	1,269.50	1,188.82	80.69	15.734				
14,300.00	12,059.96	14,222.00	12,099.37	37.42	46.36	-91.78	-1,958.97	609.78	1,269.81	1,188.81	81.00	15.677				
14,400.00	12,060.00	14,334.49	12,100.34	38.17	46.78	-91.82	-2,071.37	613.64	1,272.12	1,189.75	82.37	15.443				
14,500.00	12,060.00	14,412.00	12,099.62	38.97	47.07	-91.78	-2,148.78	617.30	1,275.87	1,192.43	83.44	15.290				
14,600.00	12,060.00	14,509.85	12,099.21	39.79	47.45	-91.76	-2,246.47	622.83	1,280.70	1,195.95	84.75	15.111				
14,700.00	12,060.00	14,595.60	12,099.16	40.66	47.80	-91.75	-2,332.08	627.75	1,285.63	1,199.65	85.97	14.954				

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - Talco State Fed Com 152H - OH - OH													Offset Site Error:	0.00 usft			
Survey Program: 176-MWD+IFR1+FDIR											Rule Assigned:		Offset Well Error:	0.00 usft			
Reference				Offset			Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum Separation		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
14,800.00	12,060.00	14,724.00	12,098.56	41.55	48.33	-91.71	-2,460.30	634.48	1,290.08	1,202.40	87.68	14.714					
14,900.00	12,060.00	14,859.49	12,095.45	42.47	48.91	-91.57	-2,595.69	638.24	1,292.00	1,202.51	89.49	14.437					
15,000.00	12,060.00	14,952.56	12,091.77	43.42	49.33	-91.41	-2,688.65	639.43	1,292.41	1,201.49	90.91	14.216					
15,100.00	12,060.00	15,037.62	12,095.60	44.40	49.72	-91.58	-2,773.59	641.42	1,294.06	1,201.79	92.27	14.025					
15,200.00	12,060.00	15,125.61	12,101.93	45.40	50.15	-91.85	-2,861.30	644.28	1,296.73	1,203.06	93.67	13.843					
15,300.00	12,060.00	15,225.27	12,110.07	46.42	50.63	-92.21	-2,960.55	648.14	1,300.10	1,204.88	95.23	13.653					
15,400.00	12,060.00	15,340.02	12,114.80	47.46	51.20	-92.41	-3,075.13	651.91	1,302.76	1,205.79	96.97	13.435					
15,500.00	12,060.00	15,452.93	12,116.00	48.51	51.76	-92.46	-3,188.01	654.49	1,304.28	1,205.57	98.71	13.213					
15,600.00	12,060.00	15,530.11	12,116.24	49.59	52.14	-92.47	-3,265.15	656.54	1,306.17	1,206.07	100.09	13.050					
15,700.00	12,060.00	15,605.67	12,117.89	50.68	52.53	-92.54	-3,340.62	659.89	1,309.90	1,208.44	101.46	12.911					
15,800.00	12,060.00	15,704.22	12,118.50	51.79	53.04	-92.55	-3,438.98	665.79	1,315.10	1,211.99	103.11	12.755					
15,900.00	12,060.00	15,797.05	12,116.24	52.91	53.53	-92.45	-3,531.64	670.93	1,319.76	1,215.04	104.72	12.603					
16,000.00	12,060.00	16,006.59	12,104.96	54.04	54.66	-91.95	-3,740.61	674.68	1,320.12	1,212.48	107.64	12.264					
16,100.00	12,060.00	16,116.78	12,100.87	55.19	55.26	-91.78	-3,850.70	672.09	1,316.85	1,207.38	109.47	12.029					
16,200.00	12,060.00	16,218.00	12,097.36	56.34	55.82	-91.63	-3,951.80	668.86	1,312.75	1,201.52	111.23	11.802					
16,300.00	12,060.00	16,313.00	12,096.77	57.51	56.36	-91.61	-4,046.75	666.27	1,309.21	1,196.26	112.95	11.591					
16,400.00	12,060.00	16,380.49	12,099.99	58.68	56.75	-91.75	-4,114.15	665.51	1,307.29	1,192.87	114.42	11.425					
16,500.00	12,060.00	16,499.64	12,105.38	59.87	57.45	-91.99	-4,233.12	664.91	1,306.23	1,189.84	116.39	11.223					
16,600.00	12,060.00	16,570.28	12,105.42	61.06	57.86	-91.99	-4,303.76	664.50	1,304.88	1,186.99	117.90	11.068					
16,606.50	12,060.00	16,574.75	12,105.49	61.14	57.88	-92.00	-4,308.24	664.53	1,304.88	1,186.88	117.99	11.059					
16,700.00	12,060.00	16,642.00	12,106.89	62.26	58.28	-92.06	-4,375.45	665.73	1,305.85	1,186.47	119.39	10.938					
16,800.00	12,060.00	16,719.72	12,107.51	63.47	58.74	-92.08	-4,453.11	668.67	1,308.83	1,187.89	120.94	10.822					
16,900.00	12,060.00	16,805.60	12,105.76	64.69	59.26	-92.00	-4,538.87	673.04	1,313.05	1,190.45	122.60	10.710					
17,000.00	12,060.00	16,901.06	12,102.73	65.91	59.84	-91.86	-4,634.08	679.11	1,318.47	1,194.07	124.40	10.599					
17,100.00	12,060.00	17,074.10	12,092.91	67.14	60.91	-91.43	-4,806.75	683.56	1,319.54	1,192.35	127.19	10.375					
17,200.00	12,060.00	17,203.17	12,083.15	68.37	61.71	-91.01	-4,935.44	682.29	1,317.46	1,188.08	129.38	10.183					
17,300.00	12,060.00	17,285.52	12,081.58	69.61	62.23	-90.94	-5,017.75	681.27	1,315.41	1,184.32	131.09	10.034					
17,352.32	12,060.00	17,321.72	12,081.60	70.26	62.45	-90.94	-5,053.95	681.33	1,315.09	1,183.17	131.92	9.969					
17,400.00	12,060.00	17,359.00	12,081.64	70.85	62.69	-90.94	-5,091.23	681.87	1,315.37	1,182.66	132.70	9.912					
17,500.00	12,060.00	17,447.20	12,080.09	72.10	63.25	-90.87	-5,179.39	683.90	1,316.81	1,182.34	134.47	9.793					
17,600.00	12,060.00	17,522.34	12,077.76	73.35	63.73	-90.77	-5,254.44	686.46	1,319.39	1,183.32	136.08	9.696					
17,700.00	12,060.00	17,612.26	12,076.23	74.61	64.31	-90.70	-5,344.23	690.97	1,323.57	1,185.70	137.86	9.601					
17,800.00	12,060.00	17,738.75	12,071.92	75.87	65.13	-90.51	-5,470.52	696.57	1,327.23	1,187.08	140.15	9.470					
17,900.00	12,060.00	17,916.14	12,064.52	77.14	66.30	-90.20	-5,647.71	699.02	1,328.65	1,185.75	142.90	9.298					
18,000.00	12,060.00	18,036.79	12,061.30	78.41	67.09	-90.06	-5,768.22	694.35	1,323.89	1,178.89	145.00	9.130					
18,100.00	12,060.00	18,119.00	12,060.12	79.68	67.63	-90.01	-5,850.37	691.30	1,319.40	1,172.58	146.82	8.987					
18,200.00	12,060.00	18,214.00	12,060.92	80.96	68.27	-90.04	-5,945.32	688.77	1,315.94	1,167.20	148.74	8.847					
18,300.00	12,060.00	18,309.00	12,061.27	82.23	68.91	-90.06	-6,040.27	686.18	1,312.43	1,161.77	150.66	8.711					
18,400.00	12,060.00	18,404.00	12,060.86	83.52	69.55	-90.04	-6,135.24	684.33	1,309.68	1,157.10	152.59	8.583					
18,500.00	12,060.00	18,474.18	12,061.90	84.80	70.03	-90.08	-6,205.41	684.31	1,308.68	1,154.41	154.27	8.483					
18,520.30	12,060.00	18,491.10	12,062.11	85.06	70.14	-90.09	-6,222.33	684.42	1,308.65	1,154.01	154.64	8.463					
18,600.00	12,060.00	18,547.84	12,063.00	86.09	70.53	-90.13	-6,279.06	685.32	1,309.29	1,153.34	155.95	8.396					
18,700.00	12,060.00	18,635.19	12,065.30	87.38	71.14	-90.23	-6,366.32	688.36	1,311.92	1,154.15	157.77	8.315					
18,800.00	12,060.00	18,736.60	12,066.25	88.67	71.84	-90.27	-6,467.67	691.59	1,314.30	1,154.52	159.79	8.225					
18,900.00	12,060.00	18,833.30	12,063.70	89.97	72.52	-90.16	-6,564.27	695.12	1,317.14	1,155.39	161.75	8.143					
19,000.00	12,060.00	18,960.55	12,058.67	91.26	73.41	-89.94	-6,691.36	698.80	1,319.31	1,155.20	164.11	8.039					
19,100.00	12,060.00	19,058.79	12,054.70	92.56	74.10	-89.77	-6,789.51	700.28	1,320.03	1,153.92	166.11	7.947					
19,200.00	12,060.00	19,144.17	12,052.22	93.86	74.70	-89.66	-6,874.83	702.18	1,321.47	1,153.51	167.95	7.868					
19,300.00	12,060.00	19,226.78	12,051.49	95.17	75.29	-89.63	-6,957.39	705.03	1,324.13	1,154.39	169.74	7.801					
19,400.00	12,060.00	19,334.54	12,052.62	96.47	76.06	-89.68	-7,065.05	709.53	1,327.52	1,155.65	171.87	7.724					
19,500.00	12,060.00	19,436.42	12,051.81	97.78	76.79	-89.65	-7,166.86	712.95	1,330.08	1,156.15	173.93	7.647					
19,600.00	12,060.00	19,563.89	12,049.25	99.09	77.70	-89.54	-7,294.27	715.89	1,331.60	1,155.28	176.31	7.552					

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



Legacy Directional Drilling
Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - Talco State Fed Com 152H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 176-MWD+IFR1+FDIR											Rule Assigned:		Offset Well Error:	0.00 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset 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	
19,700.00	12,060.00	19,664.41	12,043.99	100.40	78.42	-89.31	-7,394.64	717.03	1,331.98	1,153.61	178.37	7.468		
19,800.00	12,060.00	19,764.57	12,037.86	101.71	79.15	-89.05	-7,494.60	718.58	1,332.81	1,152.39	180.42	7.387		
19,900.00	12,060.00	19,890.45	12,029.24	103.02	80.06	-88.68	-7,620.18	718.67	1,332.19	1,149.45	182.74	7.290		
20,000.00	12,060.00	20,000.11	12,019.74	104.34	80.86	-88.27	-7,729.42	717.30	1,330.36	1,145.48	184.88	7.196		
20,100.00	12,060.00	20,106.12	12,012.51	105.65	81.63	-87.95	-7,835.16	715.45	1,328.04	1,141.06	186.98	7.103		
20,200.00	12,060.00	20,218.30	12,010.52	106.97	82.45	-87.86	-7,947.27	712.81	1,324.94	1,135.82	189.12	7.006		
20,300.00	12,060.00	20,303.76	12,011.93	108.29	83.08	-87.92	-8,032.70	711.07	1,322.04	1,130.97	191.07	6.919		
20,400.00	12,060.00	20,425.59	12,014.02	109.61	83.98	-88.00	-8,154.47	707.85	1,318.47	1,125.18	193.29	6.821		
20,500.00	12,060.00	20,588.13	12,014.44	110.93	85.17	-88.01	-8,316.80	700.87	1,314.18	1,118.63	195.55	6.720		
20,600.00	12,060.00	20,683.00	12,011.47	112.26	85.86	-87.86	-8,411.34	693.53	1,305.75	1,108.15	197.60	6.608		
20,700.00	12,060.00	20,751.92	12,009.61	113.58	86.37	-87.77	-8,480.10	689.14	1,298.64	1,099.04	199.60	6.506		
20,800.00	12,060.00	20,843.49	12,006.10	114.90	87.05	-87.61	-8,571.48	684.77	1,293.19	1,091.56	201.63	6.414		
20,900.00	12,060.00	20,932.67	12,002.41	116.23	87.71	-87.43	-8,660.50	680.74	1,288.07	1,084.42	203.65	6.325		
21,000.00	12,060.00	21,020.22	12,001.30	117.56	88.36	-87.38	-8,747.99	677.87	1,284.04	1,078.39	205.65	6.244		
21,100.00	12,060.00	21,113.02	12,002.38	118.88	89.06	-87.42	-8,840.75	675.63	1,280.77	1,073.09	207.69	6.167		
21,200.00	12,060.00	21,203.63	12,001.70	120.21	89.74	-87.38	-8,931.35	673.81	1,278.01	1,068.31	209.70	6.094		
21,300.00	12,060.00	21,288.73	12,003.80	121.54	90.39	-87.48	-9,016.41	673.08	1,276.26	1,064.59	211.66	6.030		
21,388.88	12,060.00	21,363.13	12,007.62	122.72	90.96	-87.65	-9,090.71	673.42	1,275.76	1,062.37	213.38	5.979		
21,400.00	12,060.00	21,372.62	12,008.16	122.87	91.03	-87.67	-9,100.18	673.53	1,275.76	1,062.16	213.60	5.973		
21,500.00	12,060.00	21,458.33	12,012.55	124.20	91.69	-87.87	-9,185.77	674.99	1,276.47	1,060.94	215.53	5.922		
21,600.00	12,060.00	21,546.36	12,016.88	125.54	92.37	-88.07	-9,273.66	677.39	1,278.22	1,060.74	217.48	5.877		
21,700.00	12,060.00	21,640.74	12,021.29	126.87	93.10	-88.27	-9,367.88	680.57	1,280.64	1,061.13	219.51	5.834		
21,800.00	12,060.00	21,733.65	12,023.49	128.20	93.82	-88.37	-9,460.69	684.09	1,283.56	1,062.06	221.50	5.795		
21,900.00	12,060.00	21,826.71	12,021.37	129.54	94.54	-88.28	-9,553.64	688.00	1,287.03	1,063.54	223.50	5.759		
22,000.00	12,060.00	21,919.00	12,015.96	130.87	95.24	-88.04	-9,645.67	692.22	1,291.00	1,065.53	225.47	5.726		
22,100.00	12,060.00	22,014.00	12,008.85	132.21	95.98	-87.73	-9,740.28	696.96	1,295.48	1,068.00	227.48	5.695		
22,200.00	12,060.00	22,108.44	12,001.70	133.54	96.71	-87.43	-9,834.30	702.17	1,300.52	1,071.05	229.47	5.667 SF		
22,259.99	12,060.00	22,135.00	11,999.75	134.34	96.91	-87.34	-9,860.75	703.67	1,304.06	1,074.02	230.04	5.669		

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



Legacy Directional Drilling
Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - Talco State Fed Com 152H - OH - Plan 2														Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)														Offset Well Error:	0.00 usft
Rule Assigned:															
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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	25.00	25.00						
100.00	100.00	100.00	100.00	1.51	0.84	84.74	0.00	25.00	24.92	22.57	2.36	10.581			
185.29	185.27	185.27	185.27	1.64	1.39	90.48	0.00	25.00	24.86	21.84	3.02	8.226			
200.00	199.97	199.97	199.97	1.66	1.48	91.74	0.00	25.00	24.83	21.69	3.14	7.915 CC			
300.00	299.93	299.93	299.93	2.21	1.92	105.86	0.00	25.00	25.26	21.15	4.11	6.147 ES			
400.00	399.82	399.53	399.51	2.55	2.36	129.97	0.94	25.90	28.26	23.46	4.80	5.891			
500.00	499.65	499.05	498.96	2.84	2.74	136.46	3.75	28.58	33.73	28.33	5.40	6.249			
600.00	599.45	598.32	598.02	3.18	3.08	149.40	8.42	33.04	41.50	35.47	6.03	6.882			
700.00	698.87	696.68	695.97	3.75	3.39	156.22	14.89	39.21	55.40	48.56	6.84	8.098			
800.00	798.06	794.12	792.74	3.97	3.68	153.93	23.09	47.04	73.12	65.81	7.31	10.004			
900.00	897.41	891.34	889.00	4.19	3.84	151.09	32.99	56.49	91.48	83.83	7.66	11.944			
1,000.00	996.75	989.28	985.86	4.43	4.06	149.38	43.46	66.48	110.91	102.80	8.10	13.685			
1,100.00	1,095.77	1,086.81	1,082.31	4.71	4.28	147.68	53.89	76.44	132.72	124.12	8.60	15.433			
1,200.00	1,194.75	1,184.28	1,178.71	5.15	4.50	146.37	64.31	86.39	154.88	145.63	9.26	16.734			
1,300.00	1,293.76	1,281.79	1,275.15	5.43	4.72	146.28	74.74	96.34	176.91	167.15	9.76	18.126			
1,400.00	1,392.81	1,379.31	1,371.60	5.62	4.94	145.51	85.16	106.29	198.87	188.71	10.16	19.573			
1,500.00	1,491.86	1,476.85	1,468.07	5.81	5.15	145.46	95.59	116.25	220.81	210.25	10.56	20.912			
1,600.00	1,590.95	1,574.41	1,564.56	6.00	5.36	145.19	106.03	126.21	242.61	231.65	10.96	22.145			
1,700.00	1,690.07	1,672.00	1,661.08	6.19	5.57	144.19	116.46	136.17	264.33	252.98	11.35	23.287			
1,800.00	1,789.13	1,769.54	1,757.55	6.38	5.79	144.18	126.89	146.12	286.29	274.55	11.75	24.374			
1,900.00	1,888.18	1,867.05	1,853.98	6.57	5.99	143.56	137.32	156.07	308.42	296.28	12.14	25.404			
2,000.00	1,987.20	1,964.51	1,950.38	6.76	6.20	144.25	147.74	166.02	330.74	318.21	12.53	26.386			
2,100.00	2,086.18	2,061.91	2,046.71	6.96	6.41	143.64	158.15	175.96	353.36	340.43	12.93	27.331			
2,200.00	2,185.14	2,159.29	2,143.02	7.15	6.62	143.75	168.56	185.90	376.07	362.75	13.32	28.229			
2,300.00	2,284.09	2,256.64	2,239.29	7.35	6.82	144.29	178.97	195.84	398.94	385.22	13.72	29.087			
2,400.00	2,382.99	2,353.93	2,335.52	7.54	7.03	143.05	189.38	205.77	422.02	407.91	14.11	29.911			
2,500.00	2,481.85	2,451.23	2,431.74	7.74	7.23	141.50	199.78	215.70	445.12	430.62	14.50	30.691			
2,600.00	2,580.66	2,548.53	2,527.98	7.94	7.44	139.51	210.18	225.63	468.19	453.29	14.90	31.424			
2,700.00	2,679.45	2,645.88	2,624.26	8.13	7.64	137.18	220.59	235.57	491.03	475.74	15.29	32.104			
2,800.00	2,778.25	2,743.37	2,720.68	8.33	7.84	133.56	231.02	245.52	513.25	497.56	15.69	32.711			
2,900.00	2,877.08	2,841.05	2,817.28	8.53	8.05	130.08	241.46	255.49	534.62	518.53	16.09	33.235			
3,000.00	2,975.87	2,938.82	2,913.98	8.73	8.25	127.22	251.92	265.47	555.47	538.99	16.48	33.700			
3,100.00	3,074.61	3,036.65	3,010.73	8.93	8.45	125.25	262.38	275.45	575.99	559.11	16.88	34.122			
3,200.00	3,173.35	3,134.56	3,107.57	9.12	8.66	123.42	272.84	285.44	596.07	578.79	17.28	34.500			
3,300.00	3,272.11	3,232.52	3,204.45	9.32	8.86	126.05	283.32	295.44	615.91	598.24	17.67	34.847			
3,400.00	3,370.95	3,330.44	3,301.30	9.52	9.07	126.44	293.79	305.44	636.08	618.01	18.07	35.200			
3,500.00	3,469.86	3,428.25	3,398.04	9.76	9.27	141.82	304.25	315.42	656.81	638.31	18.49	35.513			
3,600.00	3,568.72	3,525.54	3,494.26	9.97	9.47	142.83	314.65	325.35	679.89	661.00	18.90	35.979			
3,700.00	3,667.55	3,622.92	3,590.56	10.18	9.68	138.79	325.06	335.29	702.65	683.36	19.29	36.425			
3,800.00	3,766.44	3,720.33	3,686.90	10.38	9.88	146.63	335.48	345.23	725.24	705.56	19.68	36.844			
3,900.00	3,865.32	3,817.28	3,782.79	10.63	10.08	161.69	345.85	355.13	749.48	729.40	20.08	37.332			
4,000.00	3,964.02	3,913.74	3,878.19	10.84	10.28	158.98	356.16	364.97	775.50	755.04	20.46	37.902			
4,100.00	4,062.53	4,009.98	3,973.38	11.05	10.48	158.98	366.45	374.79	802.42	781.57	20.85	38.490			
4,200.00	4,160.91	4,106.05	4,068.39	11.26	10.68	158.21	376.72	384.60	830.02	808.78	21.24	39.085			
4,300.00	4,259.37	4,202.21	4,163.49	11.48	10.88	159.11	387.00	394.41	857.27	835.65	21.62	39.645			
4,400.00	4,357.97	4,298.53	4,258.75	11.69	11.08	157.05	397.30	404.24	883.91	861.90	22.01	40.157			
4,500.00	4,456.67	4,395.30	4,354.46	11.93	11.28	145.36	407.65	414.12	909.02	886.61	22.41	40.567			
4,600.00	4,555.52	4,492.63	4,450.72	12.14	11.49	137.80	418.06	424.06	931.98	909.18	22.80	40.877			
4,700.00	4,654.60	4,590.43	4,547.44	12.33	11.69	132.78	428.51	434.04	952.84	929.65	23.18	41.097			
4,800.00	4,753.79	4,688.52	4,644.46	12.52	11.89	128.38	439.00	444.05	972.27	948.71	23.57	41.259			
4,900.00	4,853.10	4,786.82	4,741.68	12.70	12.10	127.87	449.51	454.08	990.65	966.71	23.94	41.379			
5,000.00	4,952.47	4,885.10	4,838.88	12.88	12.30	133.14	460.02	464.11	1,009.07	984.75	24.32	41.496			

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - Talco State Fed Com 152H - OH - Plan 2													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)													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)				
5,100.00	5,051.72	4,983.03	4,935.74	13.07	12.51	140.77	470.49	474.11	1,029.25	1,004.55	24.70	41.670		
5,200.00	5,150.85	5,080.63	5,032.26	13.26	12.71	144.69	480.93	484.07	1,050.98	1,025.89	25.09	41.883		
5,300.00	5,250.23	5,178.47	5,129.03	13.45	12.91	145.23	491.39	494.06	1,071.38	1,045.90	25.47	42.057		
5,400.00	5,349.42	5,276.13	5,225.61	13.64	13.12	142.08	501.83	504.02	1,092.78	1,066.91	25.87	42.246		
5,500.00	5,448.36	5,373.53	5,321.94	13.93	13.32	141.01	512.25	513.96	1,115.42	1,089.08	26.35	42.337		
5,600.00	5,547.22	5,479.20	5,426.48	14.18	13.51	139.87	523.42	524.63	1,138.25	1,111.46	26.79	42.491		
5,700.00	5,646.05	5,606.28	5,552.61	14.39	13.76	135.50	534.63	535.32	1,158.95	1,131.68	27.27	42.501		
5,800.00	5,744.82	5,734.53	5,680.34	14.60	13.99	131.52	542.85	543.17	1,176.44	1,148.71	27.72	42.437		
5,900.00	5,843.58	5,863.50	5,809.11	14.80	14.20	131.83	547.98	548.08	1,191.04	1,162.90	28.14	42.327		
6,000.00	5,942.43	5,992.95	5,938.53	15.00	14.38	134.02	549.97	549.98	1,202.98	1,174.49	28.49	42.219		
6,100.00	6,041.27	6,095.69	6,041.27	15.21	14.46	136.14	550.00	550.00	1,213.87	1,185.11	28.76	42.208		
6,200.00	6,140.02	6,194.44	6,140.02	15.42	14.53	136.35	550.00	550.00	1,225.34	1,196.32	29.02	42.220		
6,300.00	6,238.81	6,293.23	6,238.81	15.62	14.61	139.42	550.00	550.00	1,236.84	1,207.56	29.29	42.233		
6,400.00	6,337.75	6,392.18	6,337.75	15.82	14.68	139.96	550.00	550.00	1,247.98	1,218.43	29.55	42.239		
6,500.00	6,436.81	6,491.23	6,436.81	16.02	14.75	142.72	550.00	550.00	1,258.72	1,228.92	29.80	42.237		
6,600.00	6,535.79	6,590.21	6,535.79	16.22	14.82	144.08	550.00	550.00	1,270.17	1,240.11	30.06	42.254		
6,700.00	6,634.61	6,689.03	6,634.61	16.42	14.90	147.27	550.00	550.00	1,282.89	1,252.57	30.32	42.305		
6,800.00	6,733.38	6,787.80	6,733.38	16.63	14.97	148.19	550.00	550.00	1,296.11	1,265.52	30.59	42.371		
6,900.00	6,832.33	6,886.75	6,832.33	16.83	15.04	154.92	550.00	550.00	1,308.87	1,278.02	30.85	42.426		
7,000.00	6,931.52	6,985.94	6,931.52	17.02	15.12	155.22	550.00	550.00	1,320.42	1,289.31	31.11	42.446		
7,100.00	7,031.09	7,085.51	7,031.09	17.21	15.19	152.18	550.00	550.00	1,328.69	1,297.32	31.37	42.357		
7,200.00	7,131.03	7,185.45	7,131.03	17.42	15.26	106.48	550.00	550.00	1,330.94	1,299.38	31.56	42.169		
7,300.00	7,231.02	7,285.44	7,231.02	17.52	15.34	89.69	550.00	550.00	1,331.04	1,299.34	31.70	41.986		
7,308.98	7,240.00	7,294.42	7,240.00	17.53	15.34	90.00	550.00	550.00	1,331.04	1,299.33	31.71	41.970		
7,400.00	7,331.02	7,385.44	7,331.02	17.62	15.41	92.90	550.00	550.00	1,331.08	1,299.24	31.84	41.811		
7,500.00	7,431.01	7,485.43	7,431.01	17.73	15.49	102.65	550.00	550.00	1,331.19	1,299.21	31.98	41.629		
7,600.00	7,531.00	7,585.43	7,531.00	17.84	15.56	115.99	550.00	550.00	1,331.60	1,299.47	32.13	41.442		
7,700.00	7,631.00	7,685.42	7,631.00	17.95	15.64	133.44	550.00	550.00	1,332.16	1,299.87	32.30	41.247		
7,800.00	7,730.99	7,785.41	7,730.99	18.05	15.71	136.48	550.00	550.00	1,332.92	1,300.45	32.47	41.050		
7,900.00	7,830.99	7,885.41	7,830.99	18.15	15.78	167.70	550.00	550.00	1,333.74	1,301.09	32.65	40.854		
8,000.00	7,930.98	7,985.40	7,930.98	18.22	15.86	-152.84	550.00	550.00	1,334.69	1,301.87	32.81	40.676		
8,100.00	8,030.98	8,085.40	8,030.98	18.24	15.93	-120.95	550.00	550.00	1,335.26	1,302.31	32.95	40.519		
8,200.00	8,130.97	8,185.39	8,130.97	18.25	16.01	-137.99	550.00	550.00	1,336.16	1,303.07	33.09	40.376		
8,300.00	8,230.95	8,285.38	8,230.95	18.57	16.08	40.96	550.00	550.00	1,335.83	1,302.48	33.35	40.056		
8,400.00	8,330.88	8,385.31	8,330.88	18.64	16.16	42.02	550.00	550.00	1,333.08	1,299.64	33.43	39.874		
8,500.00	8,430.83	8,485.25	8,430.83	18.68	16.23	37.24	550.00	550.00	1,330.55	1,297.05	33.50	39.720		
8,600.00	8,530.80	8,585.22	8,530.80	18.71	16.31	27.80	550.00	550.00	1,328.35	1,294.80	33.56	39.585		
8,700.00	8,630.77	8,685.20	8,630.77	18.73	16.38	16.77	550.00	550.00	1,326.38	1,292.78	33.61	39.467		
8,800.00	8,730.76	8,785.18	8,730.76	18.74	16.46	16.71	550.00	550.00	1,324.95	1,291.29	33.66	39.365		
8,900.00	8,830.76	8,885.18	8,830.76	18.74	16.53	-13.86	550.00	550.00	1,323.95	1,290.25	33.71	39.280		
9,000.00	8,930.75	8,985.17	8,930.75	18.72	16.61	-23.39	550.00	550.00	1,323.01	1,289.26	33.75	39.201		
9,100.00	9,030.74	9,085.17	9,030.74	18.70	16.68	-52.06	550.00	550.00	1,321.92	1,288.11	33.80	39.106		
9,145.75	9,076.49	9,130.91	9,076.49	18.69	16.72	-90.00	550.00	550.00	1,321.76	1,287.92	33.85	39.050		
9,200.00	9,130.74	9,185.16	9,130.74	18.68	16.76	-119.73	550.00	550.00	1,322.13	1,288.23	33.90	39.000		
9,300.00	9,230.72	9,285.14	9,230.72	18.68	16.84	-121.40	550.00	550.00	1,323.14	1,289.12	34.03	38.886		
9,400.00	9,330.70	9,385.12	9,330.70	18.68	16.91	-111.52	550.00	550.00	1,324.07	1,289.93	34.15	38.777		
9,500.00	9,430.67	9,485.10	9,430.67	18.67	16.99	-110.90	550.00	550.00	1,324.77	1,290.51	34.26	38.671		
9,600.00	9,530.64	9,585.07	9,530.64	18.66	17.06	-120.09	550.00	550.00	1,325.84	1,291.47	34.38	38.569		
9,700.00	9,630.59	9,685.02	9,630.59	18.67	17.14	-128.81	550.00	550.00	1,327.58	1,293.08	34.51	38.474		
9,800.00	9,730.54	9,784.96	9,730.54	18.69	17.21	-142.64	550.00	550.00	1,329.88	1,295.23	34.65	38.377		
9,900.00	9,830.48	9,884.91	9,830.48	18.74	17.29	-152.20	550.00	550.00	1,332.81	1,298.00	34.82	38.282		
10,000.00	9,930.42	9,984.84	9,930.42	18.80	17.37	-151.44	550.00	550.00	1,335.99	1,301.00	34.99	38.187		

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



Legacy Directional Drilling Anticollision Report

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Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
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Well Error:	0.00 usft	Output errors are at	2.00 sigma
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Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - Talco State Fed Com 152H - OH - Plan 2													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)													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)				
10,100.00	10,030.33	10,084.75	10,030.33	18.85	17.44	-147.00	550.00	550.00	1,339.66	1,304.50	35.15	38.109		
10,200.00	10,130.19	10,184.61	10,130.19	18.91	17.52	-152.86	550.00	550.00	1,344.17	1,308.85	35.32	38.053		
10,300.00	10,229.97	10,284.39	10,229.97	18.99	17.59	-152.22	550.00	550.00	1,350.09	1,314.59	35.50	38.030		
10,400.00	10,329.68	10,384.11	10,329.68	19.05	17.67	-138.01	550.00	550.00	1,356.23	1,320.57	35.67	38.026		
10,500.00	10,429.39	10,483.82	10,429.39	19.09	17.74	-121.71	550.00	550.00	1,361.05	1,325.24	35.81	38.011		
10,600.00	10,529.12	10,583.54	10,529.12	19.11	17.82	-124.66	550.00	550.00	1,365.07	1,329.14	35.93	37.991		
10,700.00	10,628.94	10,683.36	10,628.94	19.14	17.90	-130.64	550.00	550.00	1,368.74	1,332.67	36.07	37.947		
10,800.00	10,728.88	10,783.30	10,728.88	19.17	17.97	-134.03	550.00	550.00	1,370.96	1,334.74	36.22	37.851		
10,900.00	10,828.84	10,883.27	10,828.84	19.23	18.05	-160.80	550.00	550.00	1,373.09	1,336.71	36.38	37.740		
11,000.00	10,928.83	10,983.25	10,928.83	19.32	18.13	-159.11	550.00	550.00	1,374.95	1,338.39	36.56	37.603		
11,100.00	11,028.81	11,083.23	11,028.81	19.44	18.20	-140.90	550.00	550.00	1,376.39	1,339.65	36.75	37.455		
11,200.00	11,128.80	11,183.22	11,128.80	19.56	18.28	-135.78	550.00	550.00	1,377.70	1,340.77	36.93	37.308		
11,300.00	11,228.77	11,283.20	11,228.77	19.68	18.36	-147.33	550.00	550.00	1,379.26	1,342.15	37.11	37.166		
11,400.00	11,328.75	11,383.18	11,328.75	19.79	18.43	-179.80	550.00	550.00	1,381.12	1,343.83	37.29	37.033		
11,500.00	11,428.49	11,482.92	11,428.49	20.94	18.51	-94.64	550.00	550.00	1,382.69	1,343.93	38.75	35.681		
11,600.00	11,525.17	11,572.34	11,517.80	21.69	18.55	-88.89	546.79	550.36	1,383.46	1,343.98	39.48	35.042		
11,700.00	11,617.80	11,661.16	11,605.04	21.72	18.58	-87.81	530.67	552.15	1,382.83	1,343.57	39.26	35.221		
11,800.00	11,705.23	11,753.19	11,691.66	21.90	18.60	-84.93	500.07	555.56	1,380.58	1,341.60	38.98	35.417		
11,900.00	11,783.36	11,847.55	11,774.18	22.16	18.63	-85.73	454.81	560.59	1,374.79	1,336.20	38.59	35.627		
11,973.05	11,834.43	11,918.42	11,830.63	22.32	18.67	-90.26	412.30	565.32	1,372.86	1,334.38	38.48	35.678		
12,000.00	11,851.85	11,944.94	11,850.33	22.38	18.68	-91.65	394.66	567.29	1,372.69	1,334.25	38.44	35.712		
12,100.00	11,909.84	12,044.83	11,916.64	22.67	18.75	-89.79	320.58	575.53	1,374.51	1,336.29	38.22	35.960		
12,200.00	11,951.37	12,146.57	11,969.85	22.90	18.85	-89.30	234.55	585.10	1,369.95	1,331.94	38.01	36.038		
12,300.00	11,975.92	12,250.38	12,007.50	23.11	19.00	-90.76	138.56	595.79	1,362.87	1,324.96	37.91	35.953		
12,400.00	11,985.05	12,356.82	12,027.39	23.37	19.20	-91.71	34.79	607.34	1,357.26	1,319.23	38.03	35.692		
12,500.00	11,987.32	12,504.78	12,030.00	23.67	19.59	-91.65	-112.33	622.18	1,351.12	1,312.64	38.49	35.108		
12,600.00	11,990.72	12,692.46	12,030.00	24.08	20.20	-91.50	-299.79	630.71	1,341.89	1,302.28	39.60	33.884		
12,700.00	11,996.12	12,795.97	12,030.00	24.48	20.60	-91.15	-403.29	631.74	1,333.72	1,293.29	40.43	32.991		
12,800.00	12,004.27	12,895.38	12,030.01	24.94	21.03	-90.78	-502.70	632.71	1,326.50	1,285.10	41.40	32.043		
12,900.00	12,012.70	12,994.89	12,030.04	25.44	21.53	-90.57	-602.21	633.68	1,321.26	1,278.73	42.53	31.068		
13,000.00	12,021.18	13,094.49	12,030.07	26.00	22.09	-90.28	-701.80	634.66	1,318.20	1,274.41	43.80	30.097		
13,100.00	12,030.65	13,194.03	12,030.10	26.62	22.71	-89.93	-801.34	635.63	1,316.71	1,271.51	45.20	29.133		
13,170.80	12,037.40	13,264.51	12,030.14	27.08	23.20	-89.68	-871.82	636.32	1,316.41	1,270.14	46.27	28.451		
13,200.00	12,040.26	13,293.57	12,030.15	27.28	23.40	-89.58	-900.87	636.60	1,316.49	1,269.77	46.71	28.182		
13,300.00	12,048.54	13,393.23	12,030.21	27.99	24.15	-89.25	-1,000.53	637.57	1,317.28	1,268.94	48.34	27.251		
13,400.00	12,055.24	13,493.01	12,030.27	28.75	24.95	-88.96	-1,100.30	638.55	1,318.49	1,268.43	50.06	26.338		
13,500.00	12,057.83	13,592.95	12,030.35	29.55	25.80	-88.83	-1,200.24	639.53	1,320.55	1,268.68	51.87	25.458		
13,600.00	12,059.41	13,692.94	12,030.43	30.39	26.70	-88.74	-1,300.22	640.50	1,321.48	1,267.72	53.76	24.581		
13,700.00	12,058.40	13,792.93	12,030.52	31.26	27.64	-88.79	-1,400.21	641.48	1,321.76	1,266.04	55.72	23.722		
13,800.00	12,058.93	13,892.93	12,030.62	32.17	28.62	-88.77	-1,500.20	642.46	1,322.47	1,264.73	57.74	22.904		
13,900.00	12,058.02	13,992.91	12,030.73	33.10	29.63	-88.82	-1,600.18	643.43	1,324.09	1,264.27	59.82	22.135		
14,000.00	12,058.21	14,092.90	12,030.85	35.46	30.67	-88.81	-1,700.16	644.41	1,323.49	1,261.67	61.82	21.409		
14,100.00	12,058.69	14,192.57	12,030.97	36.06	31.74	-88.74	-1,799.83	645.38	1,315.54	1,251.80	63.74	20.638		
14,200.00	12,059.54	14,292.36	12,031.11	36.71	32.83	-88.74	-1,899.61	646.36	1,309.05	1,243.31	65.74	19.913		
14,300.00	12,059.96	14,392.31	12,031.25	37.42	33.95	-88.74	-1,999.56	647.33	1,306.01	1,238.22	67.79	19.267		
14,389.45	12,060.05	14,481.76	12,031.39	38.09	34.96	-88.74	-2,089.00	648.21	1,305.43	1,235.79	69.64	18.744		
14,400.00	12,060.00	14,492.31	12,031.40	38.17	35.08	-88.75	-2,099.56	648.31	1,305.86	1,236.00	69.86	18.692		
14,500.00	12,060.00	14,592.31	12,031.56	38.97	36.23	-88.75	-2,199.55	649.29	1,306.03	1,234.05	71.99	18.143		
14,600.00	12,060.00	14,692.32	12,031.73	39.79	37.40	-88.76	-2,299.55	650.26	1,306.21	1,232.05	74.15	17.615		
14,700.00	12,060.00	14,792.32	12,031.91	40.66	38.58	-88.77	-2,399.55	651.24	1,306.38	1,230.03	76.35	17.110		
14,800.00	12,060.00	14,892.32	12,032.10	41.55	39.78	-88.78	-2,499.55	652.21	1,306.55	1,227.96	78.58	16.626		
14,900.00	12,060.00	14,992.33	12,032.30	42.47	40.98	-88.79	-2,599.54	653.19	1,306.72	1,225.87	80.85	16.163		

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



Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - Talco State Fed Com 152H - OH - Plan 2													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)													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	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
15,000.00	12,060.00	15,092.33	12,032.50	43.42	42.20	-88.79	-2,699.54	654.17	1,306.89	1,223.75	83.14	15.719		
15,100.00	12,060.00	15,192.33	12,032.72	44.40	43.43	-88.80	-2,799.54	655.14	1,307.06	1,221.61	85.46	15.295		
15,200.00	12,060.00	15,292.33	12,032.94	45.40	44.66	-88.81	-2,899.54	656.12	1,307.23	1,219.44	87.80	14.889		
15,300.00	12,060.00	15,392.34	12,033.17	46.42	45.91	-88.82	-2,999.54	657.10	1,307.40	1,217.24	90.16	14.501		
15,400.00	12,060.00	15,492.34	12,033.41	47.46	47.16	-88.83	-3,099.53	658.07	1,307.57	1,215.03	92.54	14.129		
15,500.00	12,060.00	15,592.34	12,033.66	48.51	48.42	-88.85	-3,199.53	659.05	1,307.74	1,212.80	94.95	13.774		
15,600.00	12,060.00	15,692.34	12,033.92	49.59	49.68	-88.86	-3,299.53	660.02	1,307.91	1,210.55	97.37	13.433		
15,700.00	12,060.00	15,792.35	12,034.18	50.68	50.95	-88.87	-3,399.53	661.00	1,308.08	1,208.28	99.80	13.107		
15,800.00	12,060.00	15,892.35	12,034.46	51.79	52.23	-88.88	-3,499.52	661.97	1,308.25	1,206.00	102.25	12.794		
15,900.00	12,060.00	15,992.35	12,034.74	52.91	53.51	-88.89	-3,599.52	662.95	1,308.42	1,203.70	104.72	12.495		
16,000.00	12,060.00	16,092.35	12,035.03	54.04	54.79	-88.91	-3,699.52	663.93	1,308.59	1,201.39	107.20	12.207		
16,100.00	12,060.00	16,192.36	12,035.33	55.19	56.08	-88.92	-3,799.51	664.90	1,308.76	1,199.07	109.69	11.932		
16,200.00	12,060.00	16,292.36	12,035.64	56.34	57.38	-88.93	-3,899.51	665.88	1,308.93	1,196.74	112.19	11.667		
16,300.00	12,060.00	16,392.36	12,035.96	57.51	58.67	-88.95	-3,999.51	666.85	1,309.10	1,194.39	114.71	11.413		
16,400.00	12,060.00	16,492.36	12,036.29	58.68	59.97	-88.96	-4,099.50	667.83	1,309.27	1,192.04	117.23	11.168		
16,500.00	12,060.00	16,592.36	12,036.63	59.87	61.28	-88.98	-4,199.50	668.80	1,309.44	1,189.67	119.76	10.934		
16,600.00	12,060.00	16,692.37	12,036.97	61.06	62.58	-88.99	-4,299.50	669.78	1,309.60	1,187.30	122.30	10.708		
16,700.00	12,060.00	16,792.37	12,037.33	62.26	63.89	-89.01	-4,399.49	670.75	1,309.77	1,184.92	124.85	10.490		
16,800.00	12,060.00	16,892.37	12,037.69	63.47	65.20	-89.02	-4,499.49	671.73	1,309.94	1,182.53	127.41	10.281		
16,900.00	12,060.00	16,992.37	12,038.06	64.69	66.52	-89.04	-4,599.49	672.70	1,310.11	1,180.13	129.98	10.079		
17,000.00	12,060.00	17,092.37	12,038.44	65.91	67.84	-89.06	-4,699.48	673.68	1,310.28	1,177.73	132.55	9.885		
17,100.00	12,060.00	17,192.38	12,038.83	67.14	69.16	-89.07	-4,799.48	674.65	1,310.44	1,175.31	135.13	9.698		
17,200.00	12,060.00	17,292.38	12,039.23	68.37	70.48	-89.09	-4,899.48	675.63	1,310.61	1,172.90	137.72	9.517		
17,300.00	12,060.00	17,392.38	12,039.63	69.61	71.80	-89.11	-4,999.47	676.60	1,310.78	1,170.47	140.31	9.342		
17,400.00	12,060.00	17,492.38	12,040.05	70.85	73.12	-89.13	-5,099.47	677.58	1,310.95	1,168.04	142.90	9.174		
17,500.00	12,060.00	17,592.38	12,040.47	72.10	74.45	-89.15	-5,199.46	678.55	1,311.12	1,165.61	145.51	9.011		
17,600.00	12,060.00	17,692.38	12,040.90	73.35	75.78	-89.17	-5,299.46	679.53	1,311.28	1,163.17	148.11	8.853		
17,700.00	12,060.00	17,792.38	12,041.35	74.61	77.11	-89.19	-5,399.45	680.50	1,311.45	1,160.73	150.72	8.701		
17,800.00	12,060.00	17,892.38	12,041.80	75.87	78.44	-89.20	-5,499.45	681.48	1,311.62	1,158.28	153.34	8.554		
17,900.00	12,060.00	17,992.39	12,042.25	77.14	79.77	-89.22	-5,599.44	682.45	1,311.79	1,155.82	155.96	8.411		
18,000.00	12,060.00	18,092.39	12,042.72	78.41	81.11	-89.25	-5,699.44	683.43	1,311.95	1,153.37	158.59	8.273		
18,100.00	12,060.00	18,192.39	12,043.20	79.68	82.44	-89.27	-5,799.43	684.40	1,312.12	1,150.91	161.21	8.139		
18,200.00	12,060.00	18,292.39	12,043.68	80.96	83.78	-89.29	-5,899.43	685.38	1,312.29	1,148.44	163.85	8.009		
18,300.00	12,060.00	18,392.39	12,044.18	82.23	85.12	-89.31	-5,999.42	686.35	1,312.46	1,145.97	166.48	7.883		
18,400.00	12,060.00	18,492.39	12,044.68	83.52	86.46	-89.33	-6,099.42	687.33	1,312.62	1,143.50	169.12	7.761		
18,500.00	12,060.00	18,592.39	12,045.19	84.80	87.80	-89.35	-6,199.41	688.30	1,312.79	1,141.03	171.76	7.643		
18,600.00	12,060.00	18,692.39	12,045.71	86.09	89.14	-89.38	-6,299.41	689.27	1,312.96	1,138.55	174.41	7.528		
18,700.00	12,060.00	18,792.39	12,046.24	87.38	90.48	-89.40	-6,399.40	690.25	1,313.13	1,136.07	177.06	7.416		
18,800.00	12,060.00	18,892.39	12,046.78	88.67	91.82	-89.42	-6,499.40	691.22	1,313.30	1,133.59	179.71	7.308		
18,900.00	12,060.00	18,992.39	12,047.33	89.97	93.17	-89.45	-6,599.39	692.20	1,313.46	1,131.10	182.36	7.203		
19,000.00	12,060.00	19,092.39	12,047.88	91.26	94.51	-89.47	-6,699.38	693.17	1,313.63	1,128.62	185.02	7.100		
19,100.00	12,060.00	19,192.39	12,048.44	92.56	95.85	-89.50	-6,799.38	694.14	1,313.80	1,126.13	187.67	7.000		
19,200.00	12,060.00	19,292.39	12,049.02	93.86	97.20	-89.52	-6,899.37	695.12	1,313.97	1,123.63	190.34	6.903		
19,300.00	12,060.00	19,392.39	12,049.60	95.17	98.55	-89.55	-6,999.36	696.09	1,314.14	1,121.14	193.00	6.809		
19,400.00	12,060.00	19,492.39	12,050.19	96.47	99.89	-89.57	-7,099.36	697.07	1,314.31	1,118.64	195.66	6.717		
19,500.00	12,060.00	19,592.39	12,050.79	97.78	101.24	-89.60	-7,199.35	698.04	1,314.47	1,116.14	198.33	6.628		
19,600.00	12,060.00	19,692.39	12,051.40	99.09	102.59	-89.63	-7,299.34	699.01	1,314.64	1,113.64	201.00	6.541		
19,700.00	12,060.00	19,792.39	12,052.01	100.40	103.94	-89.65	-7,399.34	699.99	1,314.81	1,111.14	203.67	6.456		
19,800.00	12,060.00	19,892.39	12,052.64	101.71	105.29	-89.68	-7,499.33	700.96	1,314.98	1,108.64	206.34	6.373		
19,900.00	12,060.00	19,992.39	12,053.27	103.02	106.64	-89.71	-7,599.32	701.93	1,315.15	1,106.13	209.02	6.292		
20,000.00	12,060.00	20,092.39	12,053.91	104.34	107.99	-89.73	-7,699.31	702.91	1,315.32	1,103.63	211.69	6.213		
20,100.00	12,060.00	20,192.39	12,054.57	105.65	109.34	-89.76	-7,799.31	703.88	1,315.49	1,101.12	214.37	6.137		

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



Legacy Directional Drilling
Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Talco State Fed Com Pad - Talco State Fed Com 152H - OH - Plan 2														Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM+SAG+FDIR (rev.5)														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)				
20,200.00	12,060.00	20,292.38	12,055.23	106.97	110.70	-89.79	-7,899.30	704.86	1,315.66	1,098.61	217.05	6.062			
20,300.00	12,060.00	20,392.38	12,055.89	108.29	112.05	-89.82	-7,999.29	705.83	1,315.83	1,096.10	219.73	5.988			
20,400.00	12,060.00	20,492.38	12,056.57	109.61	113.40	-89.85	-8,099.28	706.80	1,316.00	1,093.59	222.41	5.917			
20,500.00	12,060.00	20,592.38	12,057.26	110.93	114.76	-89.88	-8,199.27	707.78	1,316.17	1,091.08	225.09	5.847			
20,600.00	12,060.00	20,692.38	12,057.95	112.26	116.11	-89.91	-8,299.26	708.75	1,316.34	1,088.57	227.78	5.779			
20,700.00	12,060.00	20,792.38	12,058.66	113.58	117.46	-89.94	-8,399.25	709.72	1,316.52	1,086.05	230.46	5.712			
20,800.00	12,060.00	20,892.37	12,059.37	114.90	118.82	-89.97	-8,499.24	710.69	1,316.69	1,083.54	233.15	5.647			
20,900.00	12,060.00	20,992.37	12,060.09	116.23	120.17	-90.00	-8,599.24	711.67	1,316.86	1,081.02	235.84	5.584			
21,000.00	12,060.00	21,092.37	12,060.82	117.56	121.53	-90.04	-8,699.23	712.64	1,317.03	1,078.50	238.53	5.521			
21,100.00	12,060.00	21,192.37	12,061.56	118.88	122.88	-90.07	-8,799.22	713.61	1,317.20	1,075.99	241.22	5.461			
21,200.00	12,060.00	21,292.37	12,062.31	120.21	124.24	-90.10	-8,899.21	714.59	1,317.38	1,073.47	243.91	5.401			
21,300.00	12,060.00	21,392.36	12,063.07	121.54	125.60	-90.13	-8,999.20	715.56	1,317.55	1,070.95	246.60	5.343			
21,400.00	12,060.00	21,492.36	12,063.83	122.87	126.95	-90.17	-9,099.19	716.53	1,317.73	1,068.43	249.29	5.286			
21,500.00	12,060.00	21,592.36	12,064.61	124.20	128.31	-90.20	-9,199.17	717.50	1,317.90	1,065.91	251.99	5.230			
21,600.00	12,060.00	21,692.35	12,065.39	125.54	129.67	-90.23	-9,299.16	718.48	1,318.08	1,063.39	254.68	5.175			
21,700.00	12,060.00	21,792.35	12,066.18	126.87	131.03	-90.27	-9,399.15	719.45	1,318.25	1,060.87	257.38	5.122			
21,800.00	12,060.00	21,892.35	12,066.98	128.20	132.39	-90.30	-9,499.14	720.42	1,318.43	1,058.35	260.08	5.069			
21,900.00	12,060.00	21,992.35	12,067.79	129.54	133.74	-90.34	-9,599.13	721.39	1,318.60	1,055.83	262.77	5.018			
22,000.00	12,060.00	22,092.34	12,068.61	130.87	135.10	-90.37	-9,699.12	722.37	1,318.78	1,053.31	265.47	4.968			
22,100.00	12,060.00	22,192.34	12,069.43	132.21	136.46	-90.41	-9,799.11	723.34	1,318.96	1,050.79	268.17	4.918			
22,200.00	12,060.00	22,292.33	12,070.27	133.54	137.82	-90.45	-9,899.10	724.31	1,319.13	1,048.27	270.86	4.870			
22,259.99	12,060.00	22,352.32	12,070.77	134.34	138.63	-90.47	-9,959.07	724.90	1,319.24	1,046.76	272.48	4.842 SF			

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

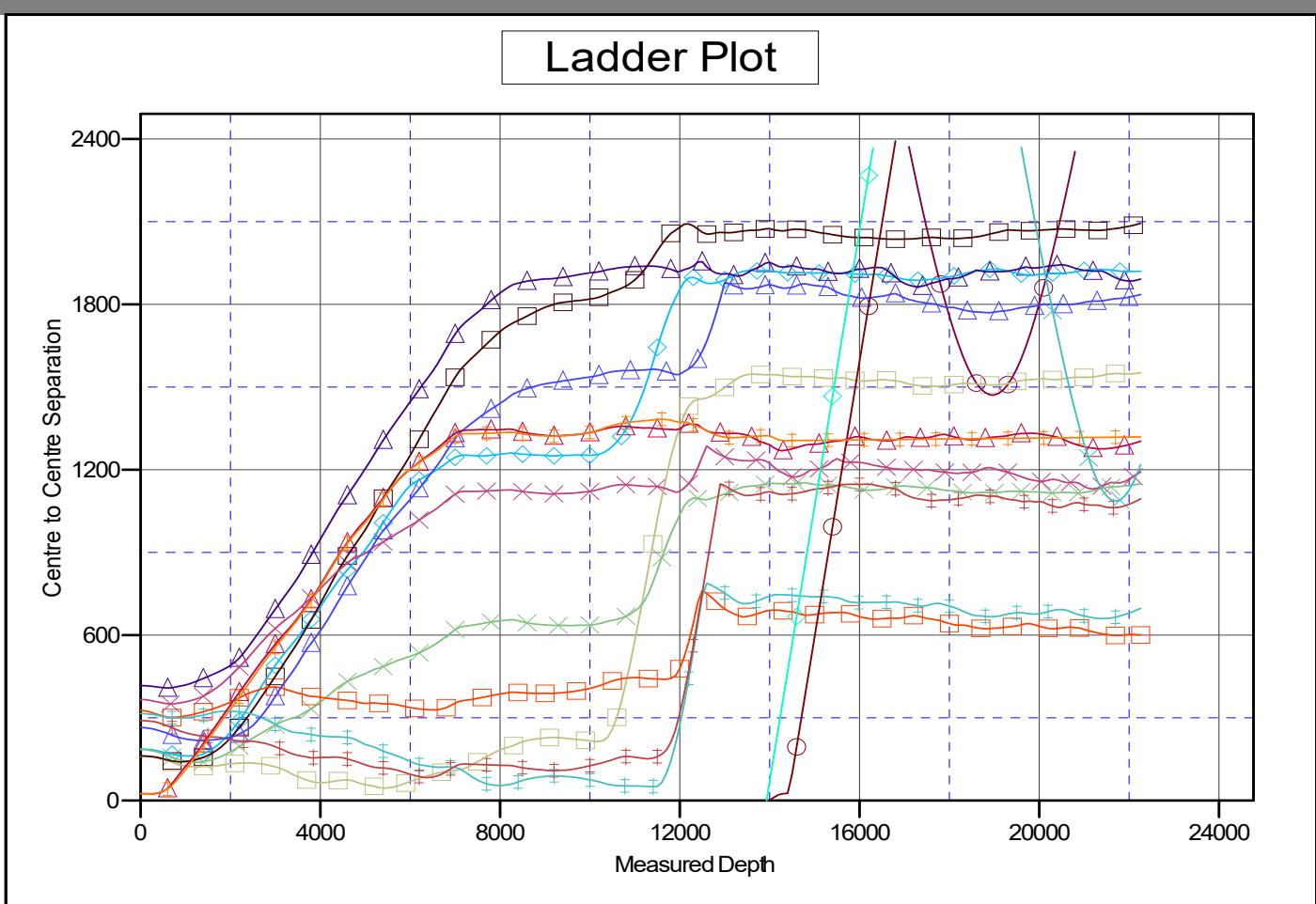


Legacy Directional Drilling Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Reference Depths are relative to GE 3200' + KB 26' @ 3226.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.333334

Coordinates are relative to: Talco State Fed Com 151H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.51°



LEGEND

(O) Mexico Federal 001 OH/OH/V0	(O) Talco State FederaCom2021H/OH/OH/V0	Talco State Fed Com 152H/OH/OH/V0
(O) Talco State Fed Com 111H/OH/OH/V0	(O) Talco State FederaCom2055H/OH/OH/V0	Talco State Fed Com 152R/OH/Plan 2V0
(O) Talco State FederaCom 112H/OH/OH/V0	(O) Talco State FederaCom211H/OH/OH/V0	Well#1 OH/Plan 1 V0
(O) Talco State FederaCom 125H/OH/OH/V0	(O) Talco State FederaCom221H/OH/OH/V0	Talco State Fed Com 151H/ST01, ST01V0
(O) Talco State FederaCom 127H/OH/OH/V0	(O) Talco State FederaCom222H/OH/OH/V0	
(O) Talco State FederaCom 2011H/OH/OH/V0	Talco State Fed Com 151H/OH/OH/V0	

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



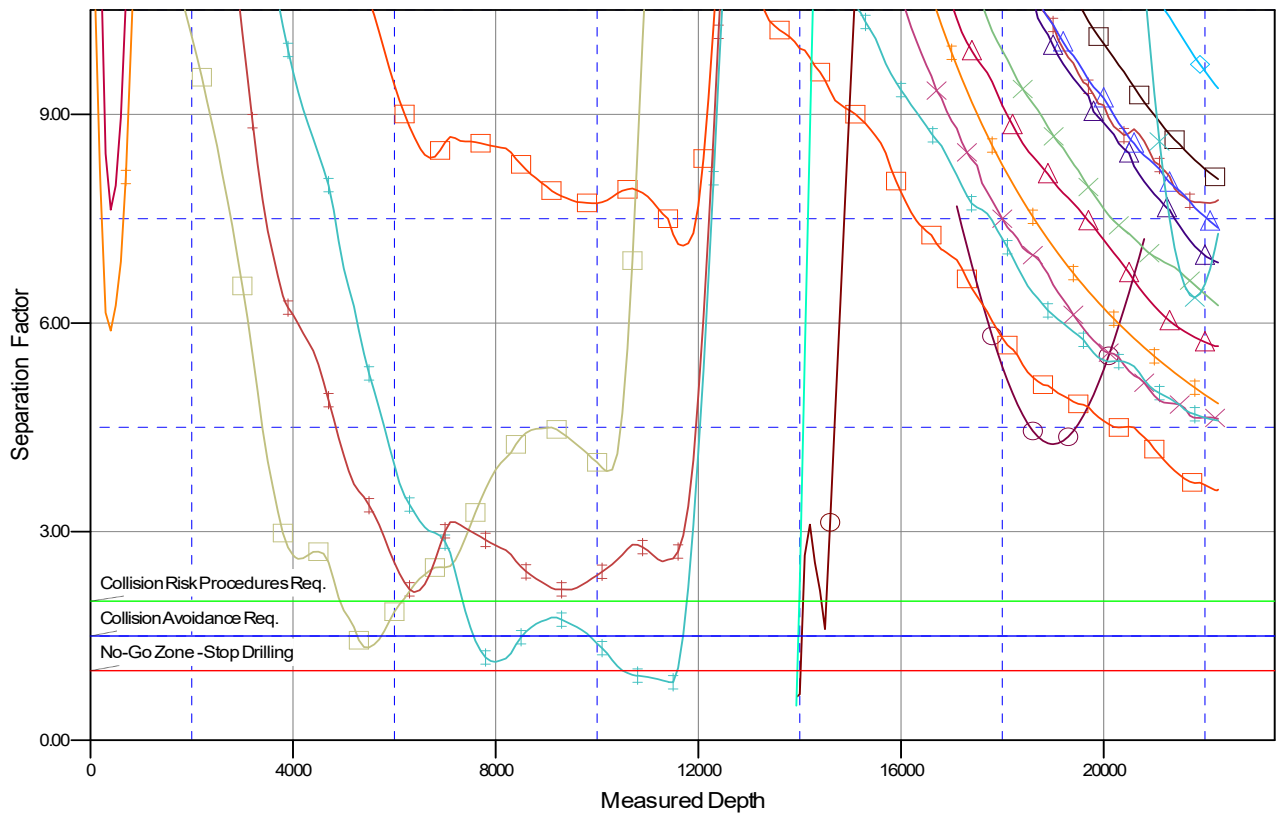
Legacy Directional Drilling
Anticollision Report

Company:	Civitas Resources	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Project:	Lea County, NM (NAD 83)	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Reference Site:	Talco State Fed Com Pad	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ST01	Database:	EDM_WA
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Reference Depths are relative to GE 3200' + KB 26' @ 3226.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.333334

Coordinates are relative to: Talco State Fed Com 151H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.51°

Separation Factor Plot



LEGEND

- (O) Mexco PFederal001.OH.OH.V0
- (O) Talco State Fed Com 111H.OH.OH.V0
- (O) Talco State Fed Com 152H.OH.OH.V0
- (O) Talco State Fed Com 112H.OH.OH.V0
- (O) Talco State Fed Com 205H.OH.OH.V0
- (O) Talco State Fed Com 152H.OH.OH.Plan 2V0
- (O) Talco State Fed Com 125H.OH.OH.V0
- (O) Talco State Fed Com 211H.OH.OH.V0
- (O) Talco State Fed Com 152H.OH.OH.Plan 1V0
- (O) Talco State Fed Com 127H.OH.OH.V0
- (O) Talco State Fed Com 221H.OH.OH.V0
- (O) Talco State Fed Com 151H.OH.OH.V0
- (O) Talco State Fed Com 201H.OH.OH.V0
- (O) Talco State Fed Com 222H.OH.OH.V0
- (O) Talco State Fed Com 151H.OH.OH.V0

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



Civitas Resources

**Lea County, NM (NAD 83)
Talco State Fed Com Pad
Talco State Fed Com 151H**

ST01

Plan: Plan 3

Standard Planning Report

28 February, 2026



Legacy Directional Drilling
Planning Report

Database:	EDM_WA	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Company:	Civitas Resources	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site:	Talco State Fed Com Pad	North Reference:	Grid
Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 3		

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

Site	Talco State Fed Com Pad				
Site Position:		Northing:	382,844.00 usft	Latitude:	32.048912
From:	Map	Easting:	837,604.00 usft	Longitude:	-103.377110
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	Talco State Fed Com 151H					
Well Position	+N/-S	0.00 usft	Northing:	382,844.00 usft	Latitude:	32.048912
	+E/-W	0.00 usft	Easting:	837,604.00 usft	Longitude:	-103.377110
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,200.00 usft
Grid Convergence:	0.51 °					

Wellbore	ST01				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2000	12/31/2004	8.46	60.31	49,340.37963163

Design	Plan 3			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	13,950.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.44

Plan Survey Tool Program	Date	2/28/2026		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	13,950.00	22,259.94	Plan 3 (ST01)	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
13,950.00	90.14	179.82	12,058.21	-1,663.08	-680.16	0.00	0.00	0.00	0.00	
13,955.00	89.99	179.57	12,058.20	-1,668.08	-680.13	6.00	-3.00	-5.20	-120.00	
13,963.50	89.99	179.06	12,058.20	-1,676.58	-680.03	6.00	0.00	-6.00	270.00	
14,043.50	89.99	174.26	12,058.22	-1,756.42	-675.37	6.00	0.00	-6.00	270.00	
14,076.67	89.32	174.26	12,058.42	-1,789.42	-672.05	2.00	-2.00	0.00	180.00	
14,343.12	90.00	179.54	12,060.00	-2,055.38	-657.63	2.00	0.25	1.98	82.72	
22,164.99	90.00	179.54	12,060.00	-9,877.00	-595.00	0.00	0.00	0.00	0.00	LTP (Talco State Fed
22,259.99	90.00	179.54	12,060.00	-9,971.99	-594.24	0.00	0.00	0.00	0.00	PBHL (Talco State Fe



Legacy Directional Drilling
Planning Report

Database:	EDM_WA	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Company:	Civitas Resources	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site:	Talco State Fed Com Pad	North Reference:	Grid
Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
173.00	1.44	6.92	172.98	2.16	0.26	-2.16	0.83	0.83	0.00
295.00	1.85	359.22	294.93	5.65	0.42	-5.64	0.38	0.34	-6.31
385.00	3.23	339.77	384.84	9.48	-0.48	-9.49	1.79	1.53	-21.61
483.00	3.34	336.46	482.68	14.69	-2.57	-14.71	0.22	0.11	-3.38
578.00	3.74	323.93	577.50	19.73	-5.50	-19.78	0.91	0.42	-13.19
673.00	7.03	307.54	672.07	25.78	-11.94	-25.89	3.79	3.46	-17.25
768.00	7.47	305.58	766.31	32.91	-21.57	-33.12	0.53	0.46	-2.06
863.00	6.24	304.58	860.63	39.44	-30.84	-39.74	1.30	-1.29	-1.05
958.00	6.46	303.06	955.05	45.28	-39.57	-45.67	0.29	0.23	-1.60
1,053.00	8.26	301.76	1,049.26	51.79	-49.86	-52.28	1.90	1.89	-1.37
1,075.00	8.30	302.21	1,071.04	53.47	-52.54	-53.98	0.35	0.18	2.05
1,241.00	8.10	302.48	1,235.34	66.14	-72.55	-66.84	0.12	-0.12	0.16
1,336.00	7.89	301.08	1,329.41	73.10	-83.78	-73.91	0.30	-0.22	-1.47
1,431.00	7.95	301.83	1,423.51	79.93	-94.94	-80.85	0.13	0.06	0.79
1,526.00	7.75	300.69	1,517.62	86.66	-106.03	-87.69	0.27	-0.21	-1.20
1,621.00	7.57	300.69	1,611.77	93.12	-116.92	-94.26	0.19	-0.19	0.00
1,716.00	7.79	301.24	1,705.92	99.66	-127.81	-100.90	0.24	0.23	0.58
1,811.00	7.89	300.69	1,800.03	106.32	-138.92	-107.68	0.13	0.11	-0.58
1,906.00	7.96	301.05	1,894.12	113.05	-150.16	-114.51	0.09	0.07	0.38
2,001.00	8.10	300.05	1,988.19	119.79	-161.59	-121.36	0.21	0.15	-1.05
2,096.00	8.29	300.41	2,082.22	126.61	-173.29	-128.30	0.21	0.20	0.38
2,191.00	8.26	300.22	2,176.23	133.51	-185.09	-135.31	0.04	-0.03	-0.20
2,286.00	8.35	299.27	2,270.24	140.32	-197.01	-142.23	0.17	0.09	-1.00
2,381.00	8.58	300.25	2,364.20	147.26	-209.15	-149.30	0.29	0.24	1.03
2,476.00	8.67	301.42	2,458.13	154.56	-221.38	-156.72	0.21	0.09	1.23
2,571.00	8.91	303.42	2,552.01	162.35	-233.63	-164.62	0.41	0.25	2.11
2,666.00	8.93	304.98	2,645.86	170.63	-245.81	-173.02	0.26	0.02	1.64
2,761.00	8.91	308.58	2,739.71	179.44	-257.60	-181.95	0.59	-0.02	3.79
2,856.00	8.71	312.08	2,833.59	188.85	-268.69	-191.47	0.60	-0.21	3.68
2,951.00	8.91	315.40	2,927.47	198.91	-279.20	-201.63	0.58	0.21	3.49
3,046.00	9.14	317.86	3,021.30	209.74	-289.43	-212.56	0.47	0.24	2.59
3,141.00	9.12	319.75	3,115.09	221.08	-299.35	-224.00	0.32	-0.02	1.99
3,236.00	9.11	321.90	3,208.90	232.75	-308.86	-235.75	0.36	-0.01	2.26
3,331.00	8.80	317.25	3,302.74	244.00	-318.43	-247.10	0.83	-0.33	-4.89
3,426.00	8.51	319.23	3,396.66	254.66	-327.95	-257.85	0.44	-0.31	2.08
3,521.00	8.56	299.20	3,490.63	263.44	-338.72	-266.73	3.11	0.05	-21.08
3,616.00	8.84	303.07	3,584.53	270.87	-351.01	-274.29	0.68	0.29	4.07
3,711.00	8.74	306.83	3,678.42	279.18	-362.90	-282.71	0.61	-0.11	3.96
3,806.00	8.29	298.10	3,772.37	286.73	-374.72	-290.38	1.44	-0.47	-9.19
3,901.00	8.98	283.48	3,866.31	291.69	-387.97	-295.46	2.41	0.73	-15.39
3,996.00	9.54	285.89	3,960.07	295.57	-402.76	-299.49	0.72	0.59	2.54
4,091.00	10.14	285.49	4,053.67	299.96	-418.39	-304.03	0.64	0.63	-0.42
4,186.00	10.45	286.20	4,147.14	304.60	-434.72	-308.83	0.35	0.33	0.75
4,281.00	9.88	285.30	4,240.65	309.15	-450.85	-313.54	0.62	-0.60	-0.95
4,376.00	9.52	283.93	4,334.29	313.19	-466.34	-317.73	0.45	-0.38	-1.44
4,471.00	9.22	295.74	4,428.03	318.39	-480.82	-323.07	2.04	-0.32	12.43
4,566.00	8.63	304.14	4,521.89	325.69	-493.58	-330.50	1.50	-0.62	8.84
4,661.00	7.63	308.94	4,615.93	333.66	-504.38	-338.57	1.27	-1.05	5.05
4,756.00	7.25	313.63	4,710.13	341.76	-513.63	-346.76	0.75	-0.40	4.94
4,851.00	6.75	317.23	4,804.43	349.99	-521.76	-355.08	0.70	-0.53	3.79
4,946.00	6.25	314.37	4,898.82	357.71	-529.25	-362.86	0.63	-0.53	-3.01
5,042.00	6.95	307.78	4,994.18	364.92	-537.57	-370.16	1.07	0.73	-6.86
5,137.00	7.97	299.96	5,088.38	371.73	-547.82	-377.07	1.51	1.07	-8.23



Legacy Directional Drilling
Planning Report

Database:	EDM_WA	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Company:	Civitas Resources	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site:	Talco State Fed Com Pad	North Reference:	Grid
Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,232.00	6.26	298.19	5,182.64	377.47	-558.09	-382.90	1.81	-1.80	-1.86
5,327.00	6.47	298.25	5,277.06	382.45	-567.37	-387.97	0.22	0.22	0.06
5,378.00	8.08	300.78	5,327.64	385.64	-572.98	-391.22	3.22	3.16	4.96
5,553.00	8.74	302.46	5,500.76	399.07	-594.77	-404.87	0.40	0.38	0.96
5,647.00	8.70	303.72	5,593.68	406.85	-606.71	-412.76	0.21	-0.04	1.34
5,743.00	9.03	310.52	5,688.53	415.78	-618.47	-421.80	1.14	0.34	7.08
5,838.00	9.13	312.69	5,782.34	425.73	-629.68	-431.87	0.38	0.11	2.28
5,933.00	8.66	311.71	5,876.20	435.60	-640.56	-441.84	0.52	-0.49	-1.03
6,028.00	8.67	309.98	5,970.11	444.96	-651.39	-451.30	0.27	0.01	-1.82
6,123.00	9.03	308.54	6,063.98	454.21	-662.71	-460.66	0.44	0.38	-1.52
6,218.00	9.15	309.30	6,157.79	463.63	-674.38	-470.20	0.18	0.13	0.80
6,313.00	8.51	306.16	6,251.66	472.57	-685.90	-479.25	0.84	-0.67	-3.31
6,408.00	8.04	306.58	6,345.67	480.67	-696.91	-487.46	0.50	-0.49	0.44
6,503.00	7.72	304.12	6,439.78	488.21	-707.53	-495.10	0.49	-0.34	-2.59
6,598.00	8.62	303.23	6,533.81	495.69	-718.77	-502.69	0.96	0.95	-0.94
6,693.00	8.98	300.35	6,627.69	503.34	-731.12	-510.46	0.60	0.38	-3.03
6,788.00	9.03	300.61	6,721.52	510.88	-743.94	-518.13	0.07	0.05	0.27
6,883.00	7.92	293.51	6,815.49	517.29	-756.35	-524.66	1.60	-1.17	-7.47
6,978.00	7.10	293.36	6,909.67	522.23	-767.75	-529.71	0.86	-0.86	-0.16
7,073.00	4.74	294.07	7,004.16	526.16	-776.72	-533.72	2.49	-2.48	0.75
7,168.00	0.89	336.02	7,099.03	528.43	-780.61	-536.04	4.34	-4.05	44.16
7,263.00	0.63	1.22	7,194.02	529.63	-780.89	-537.24	0.44	-0.27	26.53
7,358.00	0.58	356.44	7,289.02	530.63	-780.91	-538.24	0.07	-0.05	-5.03
7,453.00	0.77	356.13	7,384.01	531.75	-780.99	-539.36	0.20	0.20	-0.33
7,548.00	0.59	333.83	7,479.00	532.83	-781.25	-540.44	0.33	-0.19	-23.47
7,643.00	0.68	332.91	7,574.00	533.77	-781.72	-541.38	0.10	0.09	-0.97
7,738.00	0.54	301.65	7,668.99	534.50	-782.36	-542.12	0.37	-0.15	-32.91
7,833.00	0.62	318.04	7,763.99	535.12	-783.08	-542.75	0.19	0.08	17.25
7,928.00	0.65	268.00	7,858.98	535.48	-783.96	-543.12	0.57	0.03	-52.67
8,023.00	0.38	228.46	7,953.98	535.26	-784.74	-542.90	0.45	-0.28	-41.62
8,118.00	0.81	208.34	8,048.97	534.46	-785.29	-542.11	0.50	0.45	-21.18
8,213.00	0.96	229.78	8,143.96	533.35	-786.22	-541.01	0.38	0.16	22.57
8,308.00	2.09	48.42	8,238.95	533.99	-785.53	-541.64	3.21	1.19	188.04
8,402.00	2.15	47.39	8,332.88	536.32	-782.95	-543.94	0.08	0.06	-1.10
8,498.00	1.63	52.11	8,428.83	538.38	-780.55	-545.98	0.56	-0.54	4.92
8,593.00	1.40	61.05	8,523.80	539.77	-778.47	-547.35	0.35	-0.24	9.41
8,688.00	1.11	73.22	8,618.78	540.59	-776.57	-548.16	0.41	-0.31	12.81
8,783.00	0.74	68.78	8,713.76	541.08	-775.12	-548.63	0.40	-0.39	-4.67
8,878.00	0.52	100.92	8,808.76	541.22	-774.12	-548.76	0.43	-0.23	33.83
8,973.00	0.58	111.11	8,903.75	540.97	-773.25	-548.50	0.12	0.06	10.73
9,068.00	0.82	116.35	8,998.75	540.49	-772.19	-548.01	0.26	0.25	5.52
9,163.00	0.78	203.76	9,093.74	539.60	-771.84	-547.12	1.16	-0.04	92.01
9,258.00	1.11	215.32	9,188.73	538.26	-772.63	-545.78	0.40	0.35	12.17
9,353.00	1.21	205.70	9,283.71	536.60	-773.60	-544.14	0.23	0.11	-10.13
9,448.00	1.21	196.00	9,378.69	534.73	-774.31	-542.28	0.22	0.00	-10.21
9,543.00	1.39	203.22	9,473.66	532.71	-775.04	-540.26	0.26	0.19	7.60
9,638.00	1.79	212.44	9,568.62	530.40	-776.29	-537.96	0.50	0.42	9.71
9,733.00	1.83	220.75	9,663.58	528.00	-778.08	-535.58	0.28	0.04	8.75
9,828.00	2.02	235.75	9,758.52	525.91	-780.45	-533.51	0.56	0.20	15.79
9,923.00	1.92	242.93	9,853.47	524.24	-783.26	-531.87	0.28	-0.11	7.56
10,018.00	2.32	239.79	9,948.40	522.55	-786.33	-530.21	0.44	0.42	-3.31
10,113.00	2.70	235.23	10,043.31	520.31	-789.83	-528.00	0.45	0.40	-4.80
10,208.00	3.47	241.98	10,138.17	517.68	-794.21	-525.42	0.89	0.81	7.11
10,303.00	4.26	240.75	10,232.96	514.60	-799.83	-522.40	0.84	0.83	-1.29



Legacy Directional Drilling
Planning Report

Database:	EDM_WA	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Company:	Civitas Resources	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site:	Talco State Fed Com Pad	North Reference:	Grid
Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,398.00	4.37	226.78	10,327.69	510.40	-805.54	-518.25	1.11	0.12	-14.71
10,493.00	4.46	209.71	10,422.41	504.71	-810.01	-512.61	1.38	0.09	-17.97
10,588.00	4.08	211.88	10,517.15	498.64	-813.63	-506.56	0.43	-0.40	2.28
10,683.00	3.10	218.56	10,611.96	493.76	-817.01	-501.72	1.12	-1.03	7.03
10,778.00	1.45	215.67	10,706.88	490.77	-819.32	-498.76	1.74	-1.74	-3.04
10,873.00	1.54	240.20	10,801.85	489.16	-821.12	-497.16	0.67	0.09	25.82
10,968.00	1.01	280.81	10,896.83	488.68	-823.05	-496.70	1.07	-0.56	42.75
11,063.00	0.98	303.76	10,991.82	489.29	-824.55	-497.33	0.42	-0.03	24.16
11,158.00	0.99	310.96	11,086.80	490.28	-825.85	-498.33	0.13	0.01	7.58
11,253.00	1.27	312.53	11,181.78	491.53	-827.24	-499.59	0.30	0.29	1.65
11,348.00	1.18	286.75	11,276.76	492.53	-828.96	-500.60	0.58	-0.09	-27.14
11,440.00	1.00	249.93	11,368.75	492.52	-830.62	-500.62	0.77	-0.20	-40.02
11,535.00	13.88	179.86	11,462.79	480.79	-831.37	-488.89	14.29	13.56	-73.76
11,630.00	20.97	174.07	11,553.38	452.45	-829.58	-460.53	7.67	7.46	-6.09
11,725.00	26.50	173.28	11,640.31	414.46	-825.34	-422.51	5.83	5.82	-0.83
11,820.00	35.39	168.36	11,721.72	366.36	-817.30	-374.33	9.72	9.36	-5.18
11,915.00	45.25	168.74	11,794.07	306.19	-805.13	-314.04	10.38	10.38	0.40
12,011.00	49.70	177.22	11,859.00	236.09	-796.69	-243.86	7.98	4.64	8.83
12,106.00	61.27	172.23	11,912.76	158.33	-789.27	-166.04	12.92	12.18	-5.25
12,201.00	70.28	169.02	11,951.71	72.97	-775.09	-80.55	9.97	9.48	-3.38
12,296.00	80.92	169.57	11,975.30	-17.31	-758.03	9.90	11.21	11.20	0.58
12,411.00	89.10	171.03	11,985.30	-130.14	-738.75	122.91	7.22	7.11	1.27
12,506.00	88.24	169.99	11,987.50	-223.81	-723.10	216.74	1.42	-0.91	-1.09
12,601.00	87.83	174.63	11,990.76	-317.88	-710.39	310.92	4.90	-0.43	4.88
12,696.00	86.04	175.01	11,995.84	-412.35	-701.83	405.47	1.93	-1.88	0.40
12,791.00	84.77	175.68	12,003.45	-506.73	-694.14	499.92	1.51	-1.34	0.71
12,886.00	85.42	177.01	12,011.57	-601.19	-688.11	594.43	1.55	0.68	1.40
12,981.00	85.00	178.09	12,019.51	-695.77	-684.06	689.05	1.22	-0.44	1.14
13,076.00	84.38	178.79	12,028.30	-790.32	-681.49	783.63	0.98	-0.65	0.74
13,171.00	84.46	179.44	12,037.54	-884.86	-680.03	878.17	0.69	0.08	0.68
13,266.00	85.44	179.96	12,045.90	-979.49	-679.53	972.80	1.17	1.03	0.55
13,361.00	86.03	180.02	12,052.96	-1,074.23	-679.52	1,067.53	0.62	0.62	0.06
13,456.00	89.04	180.82	12,057.05	-1,169.12	-680.21	1,162.42	3.28	3.17	0.84
13,552.00	88.77	179.86	12,058.88	-1,265.10	-680.78	1,258.39	1.04	-0.28	-1.00
13,647.00	91.14	179.56	12,058.96	-1,360.10	-680.30	1,353.38	2.51	2.49	-0.32
13,742.00	89.21	179.68	12,058.67	-1,455.09	-679.67	1,448.38	2.04	-2.03	0.13
13,837.00	90.94	180.65	12,058.54	-1,550.08	-679.95	1,543.36	2.09	1.82	1.02
13,932.00	89.53	179.70	12,058.15	-1,645.08	-680.24	1,638.35	1.79	-1.48	-1.00
13,950.00	90.14	179.82	12,058.21	-1,663.08	-680.16	1,656.35	3.44	3.37	0.69
Tie into OH Start DLS 6.00 TFO -120.00									
13,955.00	89.99	179.57	12,058.20	-1,668.08	-680.13	1,661.35	6.00	-3.00	-5.20
Start DLS 6.00 TFO 270.00									
13,963.50	89.99	179.06	12,058.20	-1,676.58	-680.03	1,669.85	6.00	0.00	-6.00
Start DLS 6.00 TFO 270.00									
14,000.00	89.99	176.87	12,058.21	-1,713.05	-678.73	1,706.34	6.00	0.00	-6.00
14,043.50	89.99	174.26	12,058.22	-1,756.42	-675.37	1,749.73	6.00	0.00	-6.00
Start Drop -2.00									
14,076.67	89.32	174.26	12,058.42	-1,789.42	-672.05	1,782.77	2.00	-2.00	0.00
Start DLS 2.00 TFO 82.72									
14,100.00	89.38	174.72	12,058.69	-1,812.64	-669.80	1,806.01	2.00	0.25	1.98
14,200.00	89.64	176.70	12,059.54	-1,912.35	-662.32	1,905.79	2.00	0.25	1.98
14,300.00	89.89	178.69	12,059.96	-2,012.27	-658.30	2,005.74	2.00	0.25	1.98
14,343.12	90.00	179.54	12,060.00	-2,055.38	-657.63	2,048.86	2.00	0.25	1.98



Legacy Directional Drilling
Planning Report

Database:	EDM_WA	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Company:	Civitas Resources	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site:	Talco State Fed Com Pad	North Reference:	Grid
Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
90° at 14343.12 MD									
14,400.00	90.00	179.54	12,060.00	-2,112.26	-657.18	2,105.73	0.00	0.00	0.00
14,500.00	90.00	179.54	12,060.00	-2,212.25	-656.38	2,205.73	0.00	0.00	0.00
14,600.00	90.00	179.54	12,060.00	-2,312.25	-655.58	2,305.73	0.00	0.00	0.00
14,700.00	90.00	179.54	12,060.00	-2,412.25	-654.78	2,405.73	0.00	0.00	0.00
14,800.00	90.00	179.54	12,060.00	-2,512.25	-653.97	2,505.73	0.00	0.00	0.00
14,900.00	90.00	179.54	12,060.00	-2,612.24	-653.17	2,605.73	0.00	0.00	0.00
15,000.00	90.00	179.54	12,060.00	-2,712.24	-652.37	2,705.73	0.00	0.00	0.00
15,100.00	90.00	179.54	12,060.00	-2,812.24	-651.57	2,805.73	0.00	0.00	0.00
15,200.00	90.00	179.54	12,060.00	-2,912.23	-650.77	2,905.73	0.00	0.00	0.00
15,300.00	90.00	179.54	12,060.00	-3,012.23	-649.97	3,005.73	0.00	0.00	0.00
15,400.00	90.00	179.54	12,060.00	-3,112.23	-649.17	3,105.73	0.00	0.00	0.00
15,500.00	90.00	179.54	12,060.00	-3,212.22	-648.37	3,205.73	0.00	0.00	0.00
15,600.00	90.00	179.54	12,060.00	-3,312.22	-647.57	3,305.73	0.00	0.00	0.00
15,700.00	90.00	179.54	12,060.00	-3,412.22	-646.77	3,405.73	0.00	0.00	0.00
15,800.00	90.00	179.54	12,060.00	-3,512.21	-645.97	3,505.73	0.00	0.00	0.00
15,900.00	90.00	179.54	12,060.00	-3,612.21	-645.17	3,605.73	0.00	0.00	0.00
16,000.00	90.00	179.54	12,060.00	-3,712.21	-644.37	3,705.73	0.00	0.00	0.00
16,100.00	90.00	179.54	12,060.00	-3,812.20	-643.57	3,805.73	0.00	0.00	0.00
16,200.00	90.00	179.54	12,060.00	-3,912.20	-642.76	3,905.73	0.00	0.00	0.00
16,300.00	90.00	179.54	12,060.00	-4,012.20	-641.96	4,005.73	0.00	0.00	0.00
16,400.00	90.00	179.54	12,060.00	-4,112.19	-641.16	4,105.73	0.00	0.00	0.00
16,500.00	90.00	179.54	12,060.00	-4,212.19	-640.36	4,205.73	0.00	0.00	0.00
16,600.00	90.00	179.54	12,060.00	-4,312.19	-639.56	4,305.73	0.00	0.00	0.00
16,700.00	90.00	179.54	12,060.00	-4,412.18	-638.76	4,405.73	0.00	0.00	0.00
16,800.00	90.00	179.54	12,060.00	-4,512.18	-637.96	4,505.73	0.00	0.00	0.00
16,900.00	90.00	179.54	12,060.00	-4,612.18	-637.16	4,605.73	0.00	0.00	0.00
17,000.00	90.00	179.54	12,060.00	-4,712.17	-636.36	4,705.73	0.00	0.00	0.00
17,100.00	90.00	179.54	12,060.00	-4,812.17	-635.56	4,805.73	0.00	0.00	0.00
17,200.00	90.00	179.54	12,060.00	-4,912.17	-634.76	4,905.73	0.00	0.00	0.00
17,300.00	90.00	179.54	12,060.00	-5,012.17	-633.96	5,005.73	0.00	0.00	0.00
17,400.00	90.00	179.54	12,060.00	-5,112.16	-633.16	5,105.73	0.00	0.00	0.00
17,500.00	90.00	179.54	12,060.00	-5,212.16	-632.35	5,205.73	0.00	0.00	0.00
17,600.00	90.00	179.54	12,060.00	-5,312.16	-631.55	5,305.73	0.00	0.00	0.00
17,700.00	90.00	179.54	12,060.00	-5,412.15	-630.75	5,405.73	0.00	0.00	0.00
17,800.00	90.00	179.54	12,060.00	-5,512.15	-629.95	5,505.73	0.00	0.00	0.00
17,900.00	90.00	179.54	12,060.00	-5,612.15	-629.15	5,605.73	0.00	0.00	0.00
18,000.00	90.00	179.54	12,060.00	-5,712.14	-628.35	5,705.73	0.00	0.00	0.00
18,100.00	90.00	179.54	12,060.00	-5,812.14	-627.55	5,805.73	0.00	0.00	0.00
18,200.00	90.00	179.54	12,060.00	-5,912.14	-626.75	5,905.73	0.00	0.00	0.00
18,300.00	90.00	179.54	12,060.00	-6,012.13	-625.95	6,005.73	0.00	0.00	0.00
18,400.00	90.00	179.54	12,060.00	-6,112.13	-625.15	6,105.73	0.00	0.00	0.00
18,500.00	90.00	179.54	12,060.00	-6,212.13	-624.35	6,205.73	0.00	0.00	0.00
18,600.00	90.00	179.54	12,060.00	-6,312.12	-623.55	6,305.73	0.00	0.00	0.00
18,700.00	90.00	179.54	12,060.00	-6,412.12	-622.75	6,405.73	0.00	0.00	0.00
18,800.00	90.00	179.54	12,060.00	-6,512.12	-621.95	6,505.73	0.00	0.00	0.00
18,900.00	90.00	179.54	12,060.00	-6,612.11	-621.14	6,605.73	0.00	0.00	0.00
19,000.00	90.00	179.54	12,060.00	-6,712.11	-620.34	6,705.73	0.00	0.00	0.00
19,100.00	90.00	179.54	12,060.00	-6,812.11	-619.54	6,805.73	0.00	0.00	0.00
19,200.00	90.00	179.54	12,060.00	-6,912.10	-618.74	6,905.73	0.00	0.00	0.00
19,300.00	90.00	179.54	12,060.00	-7,012.10	-617.94	7,005.73	0.00	0.00	0.00
19,400.00	90.00	179.54	12,060.00	-7,112.10	-617.14	7,105.73	0.00	0.00	0.00
19,500.00	90.00	179.54	12,060.00	-7,212.09	-616.34	7,205.73	0.00	0.00	0.00
19,600.00	90.00	179.54	12,060.00	-7,312.09	-615.54	7,305.73	0.00	0.00	0.00



Legacy Directional Drilling Planning Report

Database:	EDM_WA	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Company:	Civitas Resources	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site:	Talco State Fed Com Pad	North Reference:	Grid
Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,700.00	90.00	179.54	12,060.00	-7,412.09	-614.74	7,405.73	0.00	0.00	0.00
19,800.00	90.00	179.54	12,060.00	-7,512.09	-613.94	7,505.73	0.00	0.00	0.00
19,900.00	90.00	179.54	12,060.00	-7,612.08	-613.14	7,605.73	0.00	0.00	0.00
20,000.00	90.00	179.54	12,060.00	-7,712.08	-612.34	7,705.73	0.00	0.00	0.00
20,100.00	90.00	179.54	12,060.00	-7,812.08	-611.54	7,805.73	0.00	0.00	0.00
20,200.00	90.00	179.54	12,060.00	-7,912.07	-610.73	7,905.73	0.00	0.00	0.00
20,300.00	90.00	179.54	12,060.00	-8,012.07	-609.93	8,005.73	0.00	0.00	0.00
20,400.00	90.00	179.54	12,060.00	-8,112.07	-609.13	8,105.72	0.00	0.00	0.00
20,500.00	90.00	179.54	12,060.00	-8,212.06	-608.33	8,205.72	0.00	0.00	0.00
20,600.00	90.00	179.54	12,060.00	-8,312.06	-607.53	8,305.72	0.00	0.00	0.00
20,700.00	90.00	179.54	12,060.00	-8,412.06	-606.73	8,405.72	0.00	0.00	0.00
20,800.00	90.00	179.54	12,060.00	-8,512.05	-605.93	8,505.72	0.00	0.00	0.00
20,900.00	90.00	179.54	12,060.00	-8,612.05	-605.13	8,605.72	0.00	0.00	0.00
21,000.00	90.00	179.54	12,060.00	-8,712.05	-604.33	8,705.72	0.00	0.00	0.00
21,100.00	90.00	179.54	12,060.00	-8,812.04	-603.53	8,805.72	0.00	0.00	0.00
21,200.00	90.00	179.54	12,060.00	-8,912.04	-602.73	8,905.72	0.00	0.00	0.00
21,300.00	90.00	179.54	12,060.00	-9,012.04	-601.93	9,005.72	0.00	0.00	0.00
21,400.00	90.00	179.54	12,060.00	-9,112.03	-601.13	9,105.72	0.00	0.00	0.00
21,500.00	90.00	179.54	12,060.00	-9,212.03	-600.32	9,205.72	0.00	0.00	0.00
21,600.00	90.00	179.54	12,060.00	-9,312.03	-599.52	9,305.72	0.00	0.00	0.00
21,700.00	90.00	179.54	12,060.00	-9,412.02	-598.72	9,405.72	0.00	0.00	0.00
21,800.00	90.00	179.54	12,060.00	-9,512.02	-597.92	9,505.72	0.00	0.00	0.00
21,900.00	90.00	179.54	12,060.00	-9,612.02	-597.12	9,605.72	0.00	0.00	0.00
22,000.00	90.00	179.54	12,060.00	-9,712.01	-596.32	9,705.72	0.00	0.00	0.00
22,100.00	90.00	179.54	12,060.00	-9,812.01	-595.52	9,805.72	0.00	0.00	0.00
22,164.99	90.00	179.54	12,060.00	-9,877.00	-595.00	9,870.71	0.00	0.00	0.00
LTP (100' FSL) at 22164.99 MD									
22,200.00	90.00	179.54	12,060.00	-9,912.01	-594.72	9,905.72	0.00	0.00	0.00
22,259.99	90.00	179.54	12,060.00	-9,971.99	-594.24	9,965.71	0.00	0.00	0.00
TD (5' FSL) at 22259.99									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP (Talco State Fed Cc - hit/miss target - Shape - Point	0.00	0.00	12,060.00	-9,877.00	-595.00	372,967.00	837,009.00	32.021778	-103.379312
PBHL (Talco State Fed C - plan misses target center by 0.76usft at 22259.99usft MD (12060.00 TVD, -9971.99 N, -594.24 E) - Point	0.00	0.00	12,060.00	-9,972.00	-595.00	372,872.00	837,009.00	32.021517	-103.379314



Legacy Directional Drilling
Planning Report

Database:	EDM_WA	Local Co-ordinate Reference:	Well Talco State Fed Com 151H
Company:	Civitas Resources	TVD Reference:	GE 3200' + KB 26' @ 3226.00usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GE 3200' + KB 26' @ 3226.00usft
Site:	Talco State Fed Com Pad	North Reference:	Grid
Well:	Talco State Fed Com 151H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 3		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
13,950.00	12,058.21	-1,663.08	-680.16	Tie into OH Start DLS 6.00 TFO -120.00
13,955.00	12,058.20	-1,668.08	-680.13	Start DLS 6.00 TFO 270.00
13,963.50	12,058.20	-1,676.58	-680.03	Start DLS 6.00 TFO 270.00
14,043.50	12,058.22	-1,756.42	-675.37	Start Drop -2.00
14,076.67	12,058.42	-1,789.42	-672.05	Start DLS 2.00 TFO 82.72
14,343.12	12,060.00	-2,055.38	-657.63	90° at 14343.12 MD
22,164.99	12,060.00	-9,877.00	-595.00	LTP (100' FSL) at 22164.99 MD
22,259.99	12,060.00	-9,971.99	-594.24	TD (5' FSL) at 22259.99

Sante Fe Main Office
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General Information
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Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 574906

CONDITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 574906
	Action Type: [C-103A] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	All previous COA's still apply.	4/15/2026