

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

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

5. Lease Serial No.
NMNM138893

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

2. Name of Operator
CIVITAS PERMIAN OPERATING LLC

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

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

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)
SEC 33/T24S/R35E/NMP

7. If Unit of CA/Agreement, Name and/or No.
NMNM141169X

8. Well Name and No.
SEINFELD FEDERAL UNIT GIPPLE/124H

9. API Well No. 3002552035

10. Field and Pool or Exploratory Area
WC-025 G-07 S243532M/Wolfbone

11. Country or Parish, State
LEA/NM

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

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

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

Civitas Permian Operating, LLC would like to request the following changes to the previously approved surface hole location (SHL) and drill plan. Change SHL from 200 FSL & 845 FEL, SESE, Sec. 33, T.24S, R.35E to 176 FSL & 565 FEL, SESE, Sec. 33, T.24S, R.35E. Changes to the drill plan and other variance requests are detailed in the attached summary and supporting documents. Please see the attached revised C102 plat, directional plan, anticollision report, production casing spec sheets and wellhead diagram for additional information.

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

Permitting Agent

Signature (Electronic Submission)

Date
08/26/2025

THE SPACE FOR FEDERAL OR STATE OFFICE USE

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

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.

Petroleum Engineer

Office CARLSBAD

Date
11/13/2025

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-52035	Pool Code 98294	Pool Name WC-025 G-07 S243517D; MIDDLE BONE SP
Property Code 335286	Property Name SEINFELD GIPPLE FEDERAL UNIT	Well Number 124H
OGRID No. 332195	Operator Name CIVITAS PERMIAN OPERATING, LLC	Ground Level Elevation 3284'
Surface Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☐ State ☒ Fee ☐ Tribal ☒ Federal

Surface Location

UL or lot no. P	Section 33	Township 24-S	Range 35-E	Lot Idn -	Feet from the N/S 176' S	Feet from the E/W 565' E	Latitude N 32.1672100	Longitude W 103.3657344	County LEA
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Bottom Hole Location

UL or lot no. A	Section 28	Township 24-S	Range 35-E	Lot Idn -	Feet from the N/S 5' N	Feet from the E/W 330' E	Latitude N 32.1957426	Longitude W 103.3649972	County LEA
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Dedicated Acres 320	Infill or Defining Well Infill	Defining Well API 30-025-4666	Overlapping Spacing Unit (Y/N) N	Consolidated Code U
Order Numbers N/A			Well Setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL or lot no. P	Section 33	Township 24-S	Range 35-E	Lot Idn -	Feet from the N/S 176' S	Feet from the E/W 565' E	Latitude N 32.1672100	Longitude W 103.3657344	County LEA
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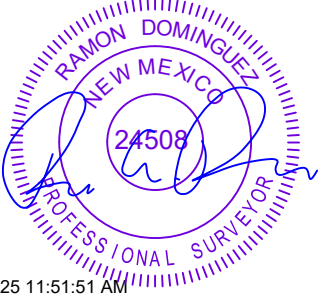
First Take Point (FTP)

UL or lot no. P	Section 33	Township 24-S	Range 35-E	Lot Idn -	Feet from the N/S 100' S	Feet from the E/W 330' E	Latitude N 32.1670021	Longitude W 103.3649745	County LEA
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Last Take Point (LTP)

UL or lot no. A	Section 28	Township 24-S	Range 35-E	Lot Idn -	Feet from the N/S 100' N	Feet from the E/W 330' E	Latitude N 32.1954814	Longitude W 103.3649971	County LEA
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Unitized Area or Area of Uniform Interest Unit: NMNM-141169X	Spacing Unity Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation 3284'
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OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief; and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received The consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i>  08-13-2025	SURVEYORS CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>  5/6/2025 11:51:51 AM
Signature Cory Walk	Signature and Seal of Professional Surveyor
Date 08-13-2025	Date 5/6/2025 11:51:51 AM
Print Name cory@permitswest.com	Certificate Number
E-mail Address	Date of Survey - 5-3-2025

<u>C-102</u> Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☐ Initial Submittal
			☒ Amended Report
Property Name and Well Number		☐ As Drilled	
SEINFELD GIPPLE FEDERAL UNIT 124H			

SURFACE LOCATION (SHL)

NEW MEXICO EAST
NAD 1983
X=840742
Y=425912
LAT.: N 32.1672100
LONG.: W 103.3657344
176' FSL 565' FEL

FIRST TAKE POINT (FTP)

NEW MEXICO EAST
NAD 1983
X=840978
Y=425839
LAT.: N 32.1670021
LONG.: W 103.3649745
100' FSL 330' FEL

LAST TAKE POINT (LTP)

NEW MEXICO EAST
NAD 1983
X=840878
Y=436199
LAT.: N 32.1954814
LONG.: W 103.3649971
100' FNL 330' FEL

BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST
NAD 1983
X=840877
Y=436294
LAT.: N 32.1957426
LONG.: W 103.3649972
5' FNL 330' FEL

The survey plat shows a well location with a dashed line indicating the well path. The well path starts at the Surface Hole Location (SHL) and goes down to the Bottom Hole Location (BHL). The well path is labeled with bearings and distances: AZ = 107.31° 247.0' and AZ = 359.45° 10361.2'. The well path is also labeled with 'PROJECT AREA' and 'PRODUCING AREA'. The well path is shown with a dashed line and a solid line. The well path is also labeled with 'USA NMNM 138893' and 'USA NMNM 138894'. The well path is also labeled with 'T-24-S, R-35-E' and 'T-25-S, R-35-E'. The well path is also labeled with '32 33' and '32 34'. The well path is also labeled with '565' and '330'.

SURVEYORS CERTIFICATION

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

Date of Survey
Signature and Seal of Professional Surveyor:

RAMON DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

5/6/2025 11:51:54 AM



Gipple Sundry Summary

7/30/2025

Civitas Resources is requesting sundries/variances for the upcoming Gipple Fed drilling campaigns.

1. **SHL Sundry (completed):** directional plans for new C102s (SHL changes) were adjusted for anti-collision. A copy of the directional plans and anti-collision the Gipple pad are included in the sundry package (total of 2 wells)
2. **Casing Design/Hole Size:** Civitas Resources requests to sundry the casing design and hole size to improve drilling efficiency.
 - Wells with sundries:
 - i. Gipple Fed Com Unit 124H
 - ii. Gipple Fed Com Unit 154H
 - Current Design/Proposed Design:
 - i.

Current:	17.5" Hole, 13 3/8 54.50# J-55 BTC ran to 585'
Sundry:	14.75 Hole, 11 3/4" 47# J-55 BTC ran to 885'
Comments:	Reduce hole size to improve operational efficiency Revised set depth with new geoprog
 - ii.

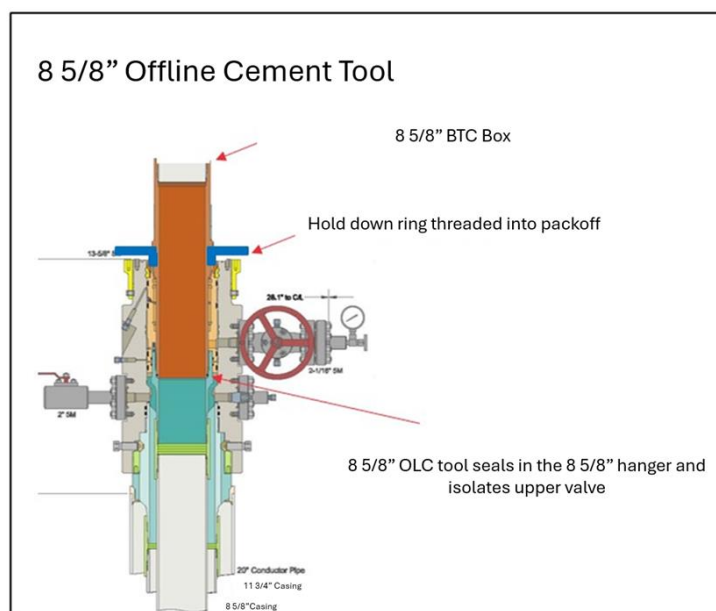
Current:	12.25" Hole, 9 5/8" 40.00# J-55 BTC ran to 5,323'
Sundry:	10.625" Hole, 8 5/8" 32.00# HCL-80 BTC ran to 5,066'
Comments:	Reduce hole size to improve operational efficiency Revised set depth with new geoprog
 - iii.

Current:	8.75" x 7.875" Hole, 5 1/2" 20# P110 TXP ran to 21,421'
Sundry:	7.875" Hole 5 1/2" 20# P110RY GBCD ran to 21,455' *Civitas is evaluating production flow streams in the area to upgrade casing to 5 1/2" 23# T-95 GBCD (or higher strength connection)
Comments:	Reduce hole size to improve operational efficiency Adding a contingency to upgrade casing to 5 1/2" 23# T-95



3. **Cement Volumes and Design:** Civitas Resources requests to sundry cement volumes to the following strings with comments noted below:
 - Cement volumes and excess have been updated to reflect the adjusted hole size
4. **Mud program:** Civitas Resources request to sundry the production hole section from Cut Brine to Oil-Based mud fluid system to assist with drill pipe wear.
5. **Offline Cementing Intermediate Casing Only:** In addition to the batch drilling variance submitted in the original APD, Civitas Resources requests a variance to offline cement surface and intermediate casing strings that are set higher than Wolfcamp A (applies to all Gipple wells during the drilling campaign). To execute offline cement jobs safely, the following precautions and equipment are detailed below:
 - For surface casing, no change to cement procedures to offline cement surface casing is anticipated.
 - For intermediate casing, during the drilling of the 10 5/8" hole section (all intermediate strings will be TD'd above the WCA top), hole conditions will be monitored and addressed to ensure for a successful casing run. In the event hole conditions change after running casing and/or the well is not in a static state, Civitas Resources can elect to pump the cement job online.

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

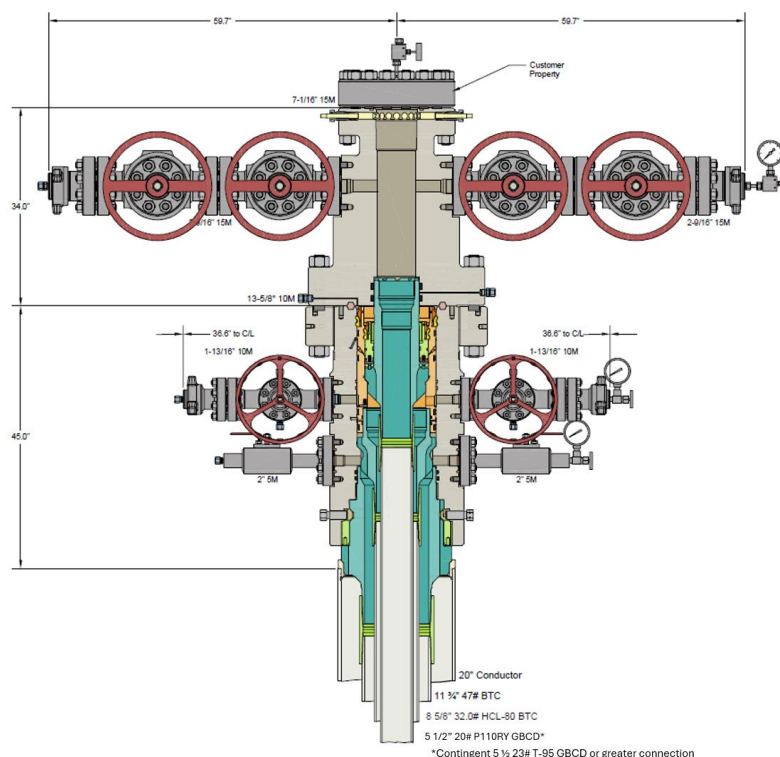




6. BOPE Testing Procedure for Batch Drilling: Civitas Resources requests a variance to adjust the BOPE testing procedure to accommodate batch drilling. Details of the request are below:

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

Revised Wellhead Configuration





GB Connection Performance Properties Sheet

Rev. 0 (06/20/2019)

ENGINEERING THE RIGHT CONNECTIONS

Casing: 5.5 OD, 20 ppf
Casing Grade: Benteler P110 RY

Connection: GB CD Butt 6.300
Coupling Grade: API P-110

PIPE BODY GEOMETRY

Nominal OD (in.)	5 1/2	Wall Thickness (in.)	0.361	Drift Diameter (in.)	4.653
Nominal Weight (ppf)	20.00	Nominal ID (in.)	4.778	API Alternate Drift Dia. (in.)	N/A
Plain End Weight (ppf)	19.83	Plain End Area (in. ²)	5.828		

PIPE BODY PERFORMANCE

Material Specification	Benteler P110 RY	Min. Yield Str. (psi)	110,000	Min. Ultimate Str. (psi)	125,000
Collapse		Tension		Pressure	
API (psi)	11,106	Pl. End Yield Str. (kips)	641	Min. Int. Yield Press. (psi)	12,640
High Collapse (psi)	-	Torque		Bending	
		Yield Torque (ft-lbs)	74,420	Build Rate to Yield (°/100 ft)	91.7

GB CD Butt 6.300 COUPLING GEOMETRY

Coupling OD (in.)	6.300	Makeup Loss (in.)	4.2500
Coupling Length (in.)	8.500	Critical Cross-Sect. (in. ²)	8.527

GB CD Butt 6.300 CONNECTION PERFORMANCE RATINGS/EFFICIENCIES

Material Specification	API P-110	Min. Yield Str. (psi)	110,000	Min. Ultimate Str. (psi)	125,000
Tension		Efficiency		Bending	
Thread Str. (kips)	667	Internal Pressure (%)	100%	Build Rate to Yield (°/100 ft)	80.0
Min. Tension Yield (kips)	891	External Pressure (%)	100%	Yield Torque	
Min. Tension Ult. (kips)	1,013	Tension (%)	100%	Yield Torque (ft-lbs)	31,180
Joint Str. (kips)	667	Compression (%)	100%		
		Ratio of Areas (Cplg/Pipe)	1.46		

MAKEUP TORQUE

Min. MU Tq. (ft-lbs)	10,000	Max. MU Tq. (ft-lbs)	20,000	Running Tq. (ft-lbs)	See GBT RP
				Max. Operating Tq. (ft-lbs)*	29,620

Units: US Customary (lbm, in., °F, lbf)

1 kip = 1,000 lbs

* See Running Procedure for description and limitations.

See attached: Notes for GB Connection Performance Properties.

GBC Running Procedure (GBC RP): www.gbconnections.com/pdf/RP-GB-DWC-Connections.pdfBlanking Dimensions: www.gbconnections.com/pdf/GB-DWC-Blanking-Dimensions.pdf

Connection yield torque rating based on physical testing or extrapolation therefrom

** Casing properties applicable to Benteler P110 RY grade with min. yield 110 ksi.



U. S. Steel Tubular Products

8/4/2025 9:46:32 AM

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



MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™		[6]
Minimum Yield Strength	95,000	--	psi	--
Maximum Yield Strength	110,000	--	psi	--
Minimum Tensile Strength	105,000	--	psi	--
DIMENSIONS	Pipe	USS-TALON HTQ™		--
Outside Diameter	5.500	6.300	in.	--
Wall Thickness	0.415	--	in.	--
Inside Diameter	4.670	4.670	in.	--
Standard Drift	4.545	4.545	in.	--
Alternate Drift	--	--	in.	--
Nominal Linear Weight, T&C	23.00	--	lb/ft	--
Plain End Weight	22.56	--	lb/ft	--
SECTION AREA	Pipe	USS-TALON HTQ™		--
Critical Area	6.630	6.630	sq. in.	--
Joint Efficiency	--	100.0	%	[2]
PERFORMANCE	Pipe	USS-TALON HTQ™		--
Minimum Collapse Pressure	12,940	12,940	psi	--
Minimum Internal Yield Pressure	12,540	12,540	psi	--
Minimum Pipe Body Yield Strength	630,000	--	lb	--
Joint Strength	--	630,000	lb	--
Compression Rating	--	630,000	lb	--
Reference Length	--	18,260	ft	[5]
Maximum Uniaxial Bend Rating	--	79.2	deg/100 ft	[3]
MAKE-UP DATA	Pipe	USS-TALON HTQ™		--
Make-Up Loss	--	5.58	in.	--
Minimum Make-Up Torque	--	18,100	ft-lb	[4]
Maximum Make-Up Torque	--	21,100	ft-lb	[4]
Maximum Operating Torque	--	35,800	ft-lb	[4]

UNCONTROLLED

Notes

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

Legal Notice

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



Drilling Operations Plan
 Gipple Fed Com #124H
 Target: 2nd Bone Spring Sand
 Civitas Permian Operating, LLC
 SHL 176' FSL & 565' FEL, Sec. 33
 BHL 5' FNL & 330' FEL, Sec. 28
 T. 24S., R. 35E Lea County, NM

Elevation above Sea Level: 3284'

DRILLING PROGRAM

1. Estimated Tops

Formation	TVD	MD	Lithologies	Bearing
Quaternary Deposits	0	0	Surface	None
Rustler	511	511	Anhydrite/Dolomite	Salt
Salado	920	920	Halite	Salt
DMG/Bell Canyon	5205	5216	Sand - water flow/lost circulation	Salt
Cherry Canyon	6128	6139	Sand - water flow/lost circulation	None
Brushy Canyon	7644	7655	Sand - water flow/lost circulation	Hydrocarbons
Brushy Canyon Lwr	8790	8801	Sand - water flow/lost circulation	Hydrocarbons
Avalon Upr	8990	9001	Limestone/Shale	Hydrocarbons
Avalon Mid	9258	9269	Limestone	Hydrocarbons
Avalon Lwr	9679	9690	Limestone/Shale	Hydrocarbons
1st Bone Spring Sand	10157	10168	Sandstone	Hydrocarbons
2nd Bone Spring Carb	10332	10343	Shale/Limestone	Hydrocarbons
2nd Bone Spring Sand	10949	10985	Sandstone/Shale	Hydrocarbons
Landing Point	11185	11524	LP @ 0' VS	Hydrocarbons
KOP	10619	11524	Sandstone	Hydrocarbons
TD	11094	21455	Sandstone	Hydrocarbons

2. Notable Zones

The primary target zone is 2nd Bone Spring Sands. It is notable that the first intermediate casing string will cover the salt section through the top of the Delaware Mountain Group, but flows are still possible while drilling the production vertical portion of the well down to KOP. The flows can also persist through TD of the production lateral.

3. Pressure Control

Pressure Control Equipment (See Schematics):

At 21,455', a 5M pressure control system is required. The BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be used below surface casing to TD. See attachments for BOP and choke manifold diagrams. Also present will be an accumulator that meets the requirements of Onshore Order 43 3172 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. BOP will be inspected and operated as recommended in Onshore Order 43 3172. A top drive



Drilling Operations Plan
 Gipple Fed Com #124H
 Target: 2nd Bone Spring Sand
 Civitas Permian Operating, LLC
 SHL 176' FSL & 565' FEL, Sec. 33
 BHL 5' FNL & 330' FEL, Sec. 28
 T. 24S., R. 35E Lea County, NM

check valve and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position. The wellhead will be a multi-bowl speed head.

BOP Test procedure will be as follows:

After surface casing is set and the BOP is nipped up, the BOP pressure tests will be made with a third party tester to 250 psi low, 5000 psi high, and the annular preventer will be tested to 250 psi low, 2500 psi high.

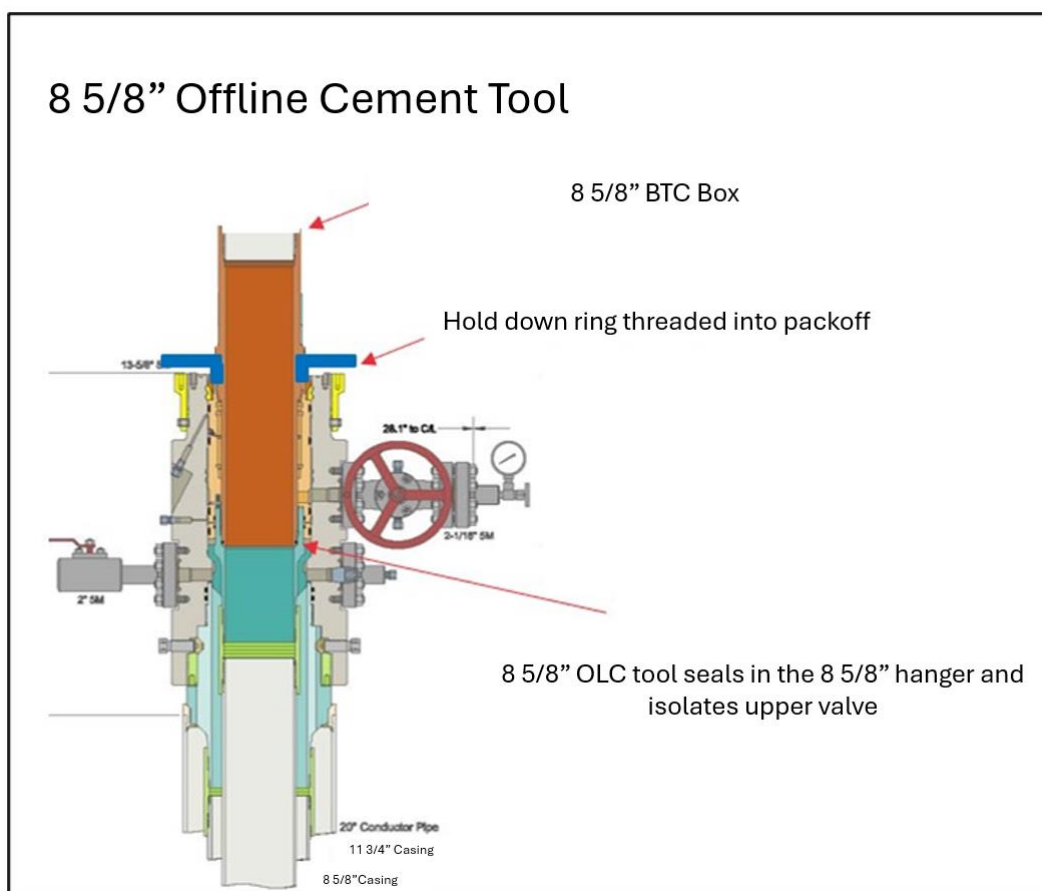
Variance Requests:

- **Mutli-bowl speed head:** Civitas requests a variance to run a multi-bowl speed head for setting the Intermediate and Production Strings.
- **CoFlex line for Choke/BOP:** Civitas requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used.
- **Batch Drilling:** Civitas requests a variance to have the option of batch drilling this well with other wells on the same pad. If this well is batch drilled, after cementing a casing string, a 5M dry hole cap with bleed off valve will be installed. The rig will then walk to another well on the pad. Civitas Operating requests to only test BOP connection breaks after rig walks per the procedures and stipulations set forth in the "BOP Shell Test Procedure" document emailed to the BLM on 8/11/22.
- **Offline Cementing:** Civitas requests a variance for the option to offline cement surface and intermediate casing strings set higher than Wolfcamp A (which applies to all First Tee wells during the drilling campaign). To execute offline cement jobs safely, the following precautions and equipment are detailed below:
 - For surface casing, no change to cement procedures to offline cement surface casing is anticipated.
 - For intermediate casing, during the drilling of the 10 5/8" hole section (all intermediate strings will be TD'd above the WCA top), hole conditions will be monitored and addressed to ensure for a successful casing run. In the event hole conditions change after running casing and/or the well is not in a static state, Civitas Resources can elect to pump the cement job online.
 - Equipment for the offline cement job will include a tested/charted 5M working pressure dual manifold cement head system will be used with a standard offline cement tool that is packed off and tested through a port between the upper valve and packoff assembly (diagram below). Returns from the manifold will be taken to an auxiliary mud-gas separator during cement job. The operational scope is described in the following steps: the casing will be landed on the mandrel, pull



Drilling Operations Plan
 Gipple Fed Com #124H
 Target: 2nd Bone Spring Sand
 Civitas Permian Operating, LLC
 SHL 176' FSL & 565' FEL, Sec. 33
 BHL 5' FNL & 330' FEL, Sec. 28
 T. 24S., R. 35E Lea County, NM

tested, packoff installed and tested to 80% of collapse of casing on the top and bottom seals, nipple down BOP and install offline cement tool/manifold. The offline cement tool screws into the top of the packoff assembly. During the cement job, all returns will be taken through the A-Section valve (flanged). A diagram of the tool is shown below:



4. Casing & Cement

All Casing will be new.

Casing Design: ongoing evaluation production flow stream for the 2BSS target is currently taking place. Civitas has the potential to upgrade the casing weight and grade to 5 1/2" 23# C/T-95 GBCD or Talon High-Torque connection.

Section	Drilled Interval			Casing Size	Standard	Tapered	Casing Set Depths				Casing Details					
	Hole Size	Top	Btm				Top MD	Bottom MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	14 3/4	0	895	11 3/4	API	No	0	895	0	895	J-55	47	BTC	1.13	1.15	1.8
1st Intermediate	10 5/8	895	5,066	8 5/8	API	No	0	5,066	0	5,055	HCL80	32	BTC	1.13	1.15	1.8
Production	7 7/8	5,066	21,455	5 1/2	NON API	No	0	21,455	0	11,094	P110RY	20	GBCD	1.13	1.15	1.8



Drilling Operations Plan
 Gipple Fed Com #124H
 Target: 2nd Bone Spring Sand
 Civitas Permian Operating, LLC
 SHL 176' FSL & 565' FEL, Sec. 33
 BHL 5' FNL & 330' FEL, Sec. 28
 T. 24S., R. 35E Lea County, NM

Cement Volumes:

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Lead	0	300	1.72	516	13.5	100%	C	Additives + LCM
	Tail	595	196	1.33	260	14.8	100%	C	Additives + LCM
Intermediate	Lead	0	426	3.66	1559	10.5	200%	C	Additives + LCM
	Tail	4066	181	1.16	210	13.2	100%	C	Additives + LCM
Production	Lead	4566	316	3.93	1243	10.5	20%	C	Additives + LCM
	Tail	10619	1565	1.44	2253	13.2	20%	H	Fluid Loss + Dispersant + Retarder + LCM

5. Mud Program

Mud Design:

Name	Top	Bottom	Type	Mud Weight	Visc	Fluid Loss
Surface	0	895	FW Spud Mud	8.40	28	NC
1st Intermediate	895	5,066	Brine Water	10.00	27-30	NC
Production	5,066	21,455	OBM	9.0 - 9.5	45-55	< 12

Electronic Totco mud monitor system complying with Onshore Order 43 3172 will be used. All necessary mud products (i.e., barite, pac) for weight addition and fluid loss control will always be on site. Mud program is subject to change due to hole conditions. A closed loop system will be used.

6. Cores, Tests, & Logs

- Electric Logging Program: No open-hole logs are planned at this time.
- GR will be collected while drilling through the MWD tools from KOP to TD.
- No DSTs or cores are planned at this time.
- CBL w/ CCL from as far as gravity will let it fall to TOC.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is $\approx 3,836$ psi. Expected bottom hole temperature is $\approx 150^\circ$ F.

Civitas does not anticipate that there will be enough H₂S from the surface to the Middle Avalon formations to meet the BLM's Onshore Order 43 3176 requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Civitas has an H₂S safety package on all wells and an "H₂S Drilling Operations Plan" is attached. Adequate flare lines will be installed off the mud/gas separator where gas may be safely flared. All personnel will be familiar with all aspects of safe operation of equipment being used.



Drilling Operations Plan

Gipple Fed Com #124H

Target: 2nd Bone Spring Sand

Civitas Permian Operating, LLC

SHL 176' FSL & 565' FEL, Sec. 33

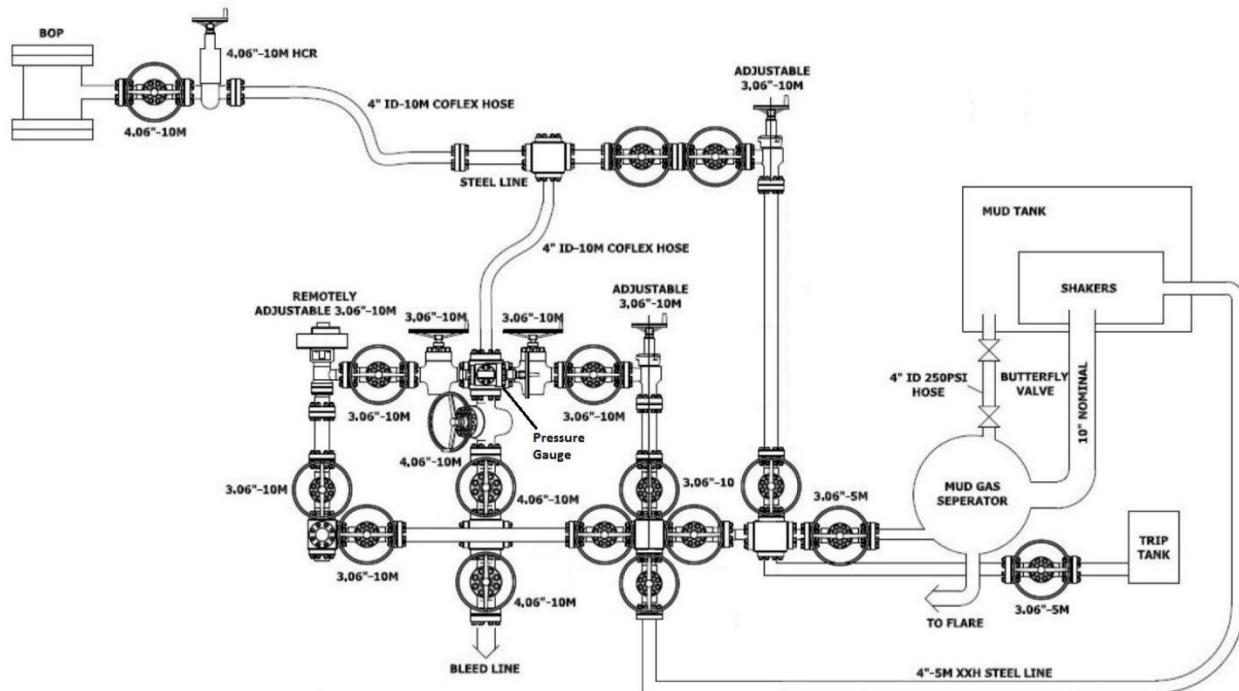
BHL 5' FNL & 330' FEL, Sec. 28

T. 24S., R. 35E Lea County, NM

8. Other Information

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 15 days. If production casing is run an additional 60 days will be required to complete and construct surface facilities.

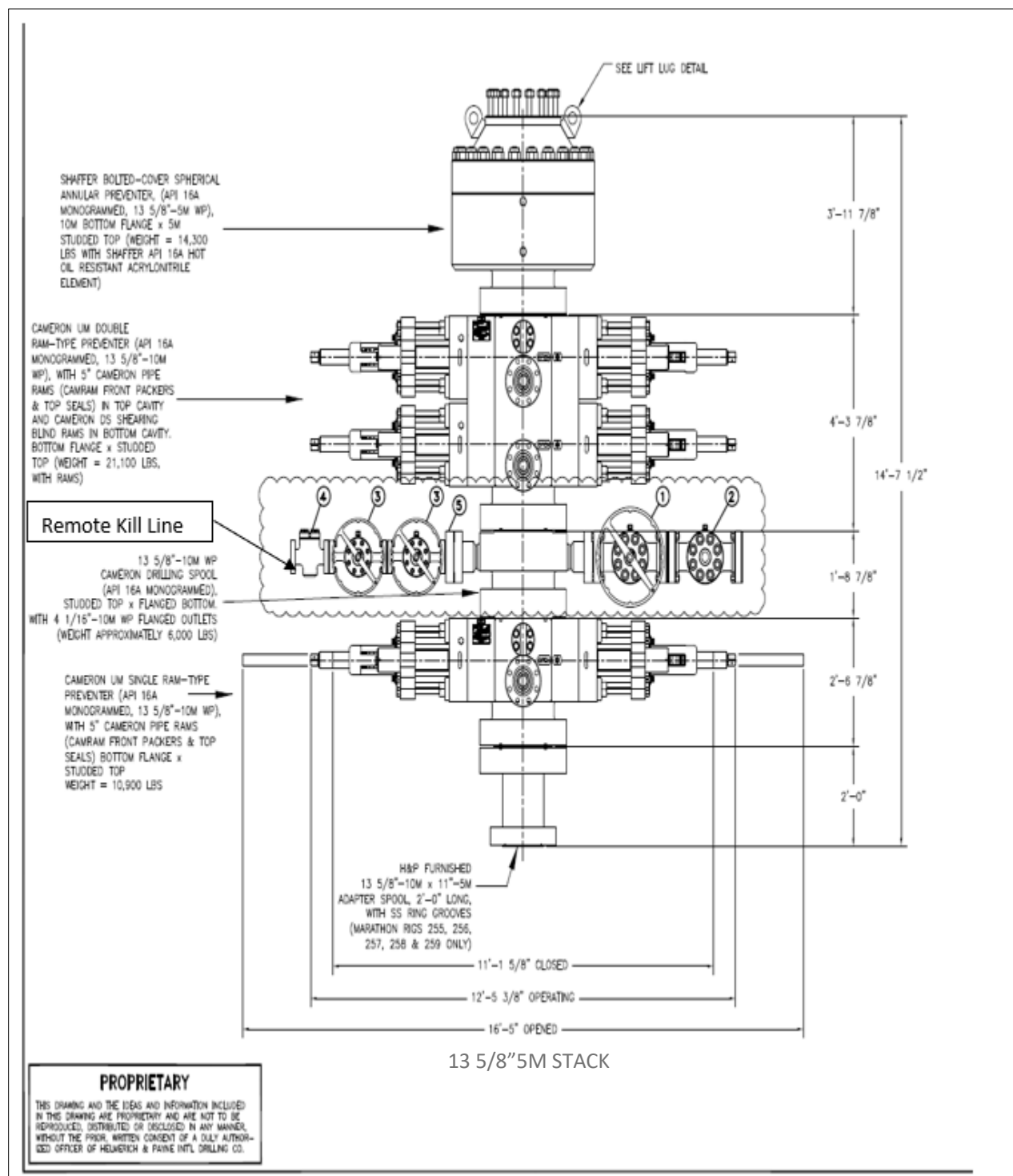
10M Choke Layout





Drilling Operations Plan
 Gipple Fed Com #124H
 Target: 2nd Bone Spring Sand
 Civitas Permian Operating, LLC
 SHL 176' FSL & 565' FEL, Sec. 33
 BHL 5' FNL & 330' FEL, Sec. 28
 T. 24S., R. 35E Lea County, NM

5,000 psi BOP Stack





Drilling Operations Plan

Gipple Fed Com #124H

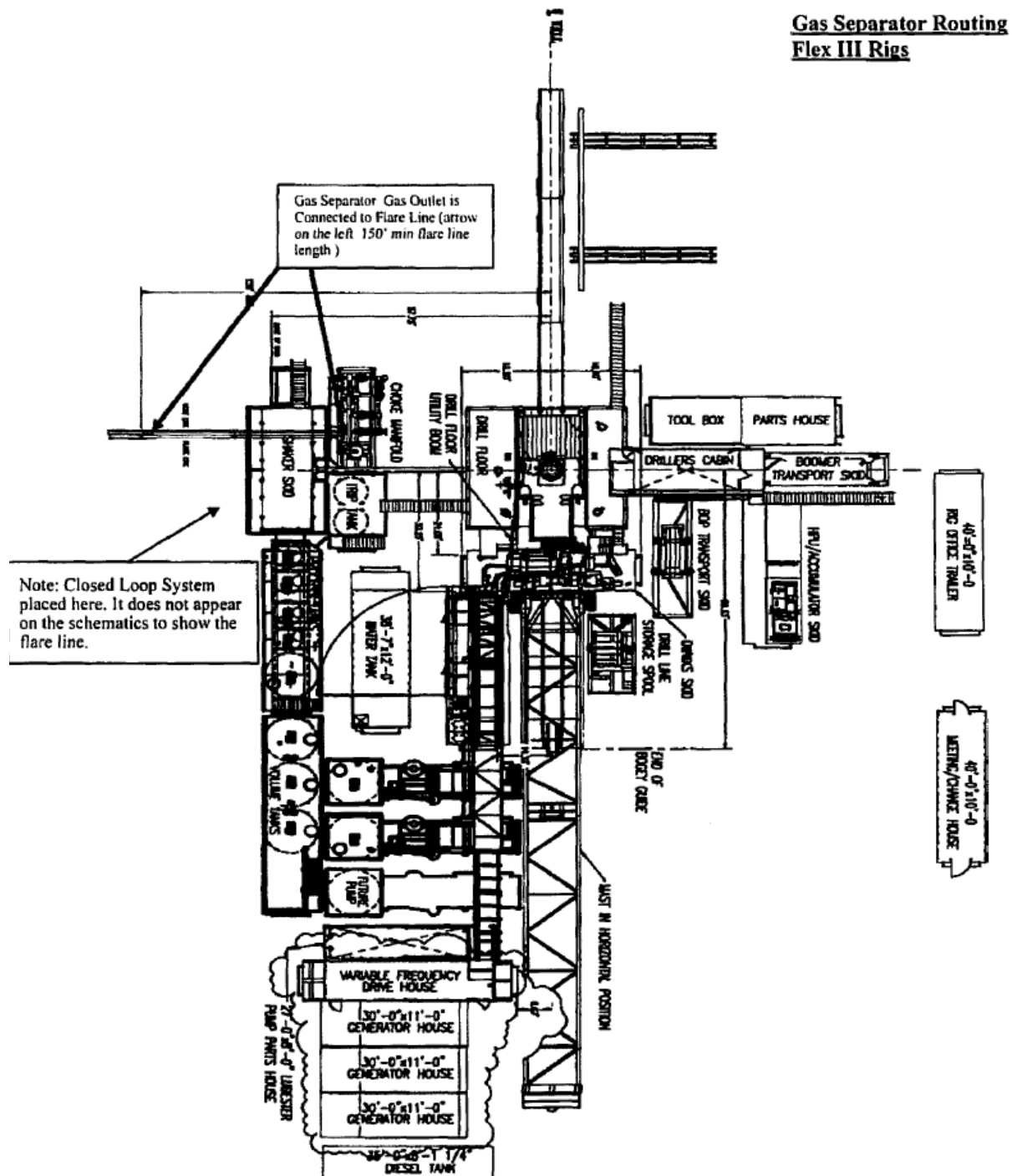
Target: 2nd Bone Spring Sand

Civitas Permian Operating, LLC

SHL 176' FSL & 565' FEL, Sec. 33

BHL 5' FNL & 330' FEL, Sec. 28

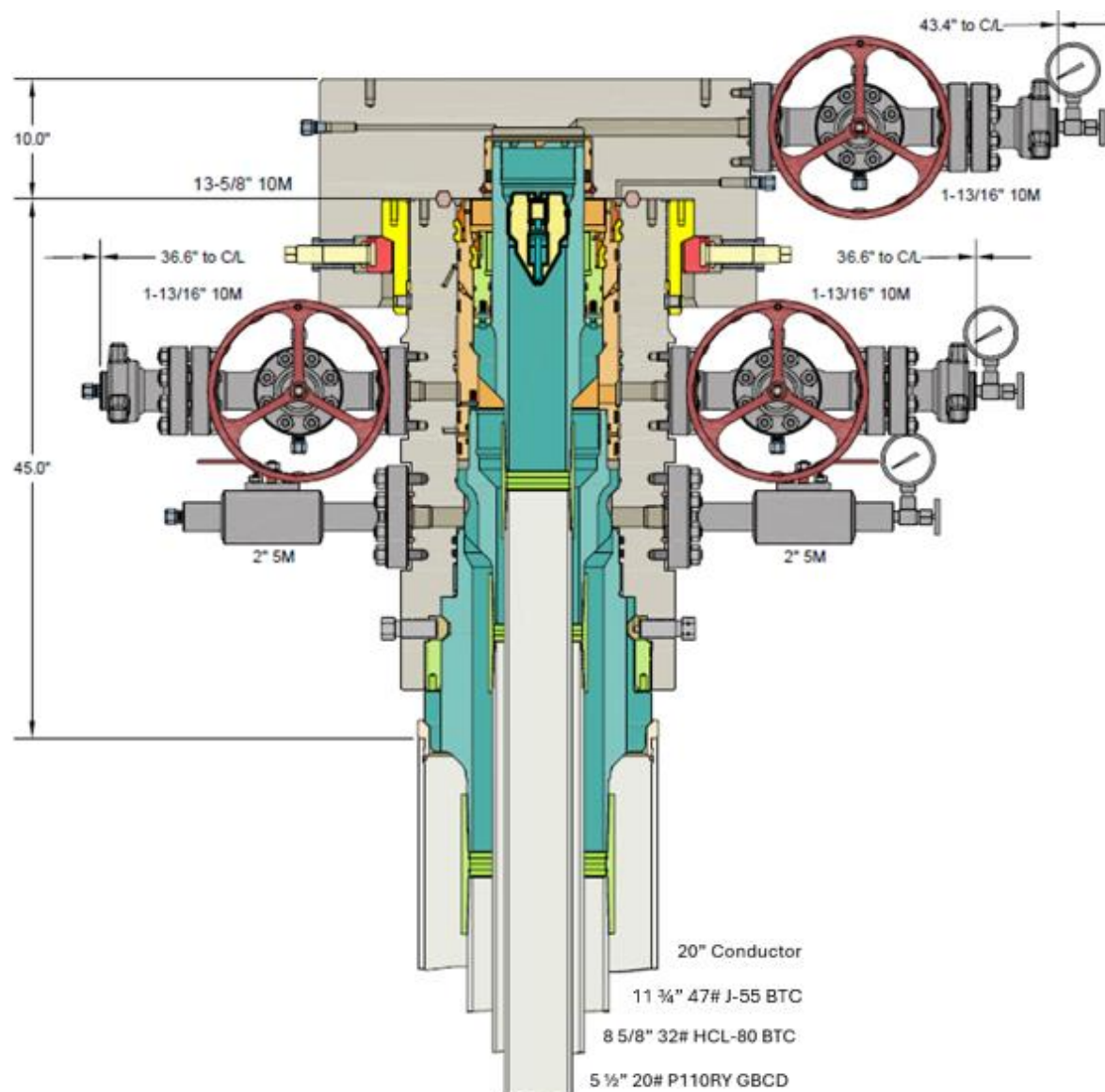
T. 24S., R. 35E Lea County, NM

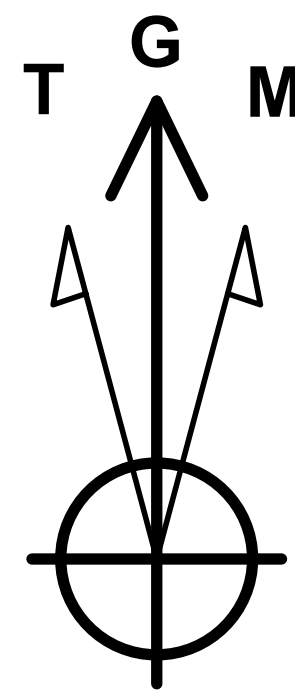




Drilling Operations Plan
 Gipple Fed Com #124H
 Target: 2nd Bone Spring Sand
 Civitas Permian Operating, LLC
 SHL 176' FSL & 565' FEL, Sec. 33
 BHL 5' FNL & 330' FEL, Sec. 28
 T. 24S., R. 35E Lea County, NM

Multi-bowl Wellhead Design – 5M





Azimuths to Grid North
True North: -0.52°
Magnetic North: 5.44°

Magnetic Field
Strength: 47051.1nT
Dip Angle: 59.74°
Date: 7/29/2025
Model: IGRF2020

Gipple Fed Com Unit 124H

WELL DETAILS: Gipple Fed Com Unit 124H

ELEVATION: GE 3284' + KB 26.5' @ 3310.50usft

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	425912.00	840742.00	32.16720991	-103.36573511

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00
1283.63	8.00	128.94	1281.90	-23.39	28.95	1.50	128.94	-23.66
2143.21	8.00	128.94	2133.10	-98.61	122.05	0.00	0.00	-99.78
2676.84	0.00	0.00	2665.00	-122.00	151.00	1.50	180.00	-123.44
10619.84	0.00	0.00	10608.00	-122.00	151.00	0.00	0.00	-123.44
11524.84	90.50	6.00	11180.94	452.79	211.41	10.00	6.00	450.74
11852.27	90.50	359.45	11178.08	779.66	226.97	2.00	-89.98	777.44
21455.42	90.50	359.45	11094.42	10382.00	135.00	0.00	0.00	10380.23

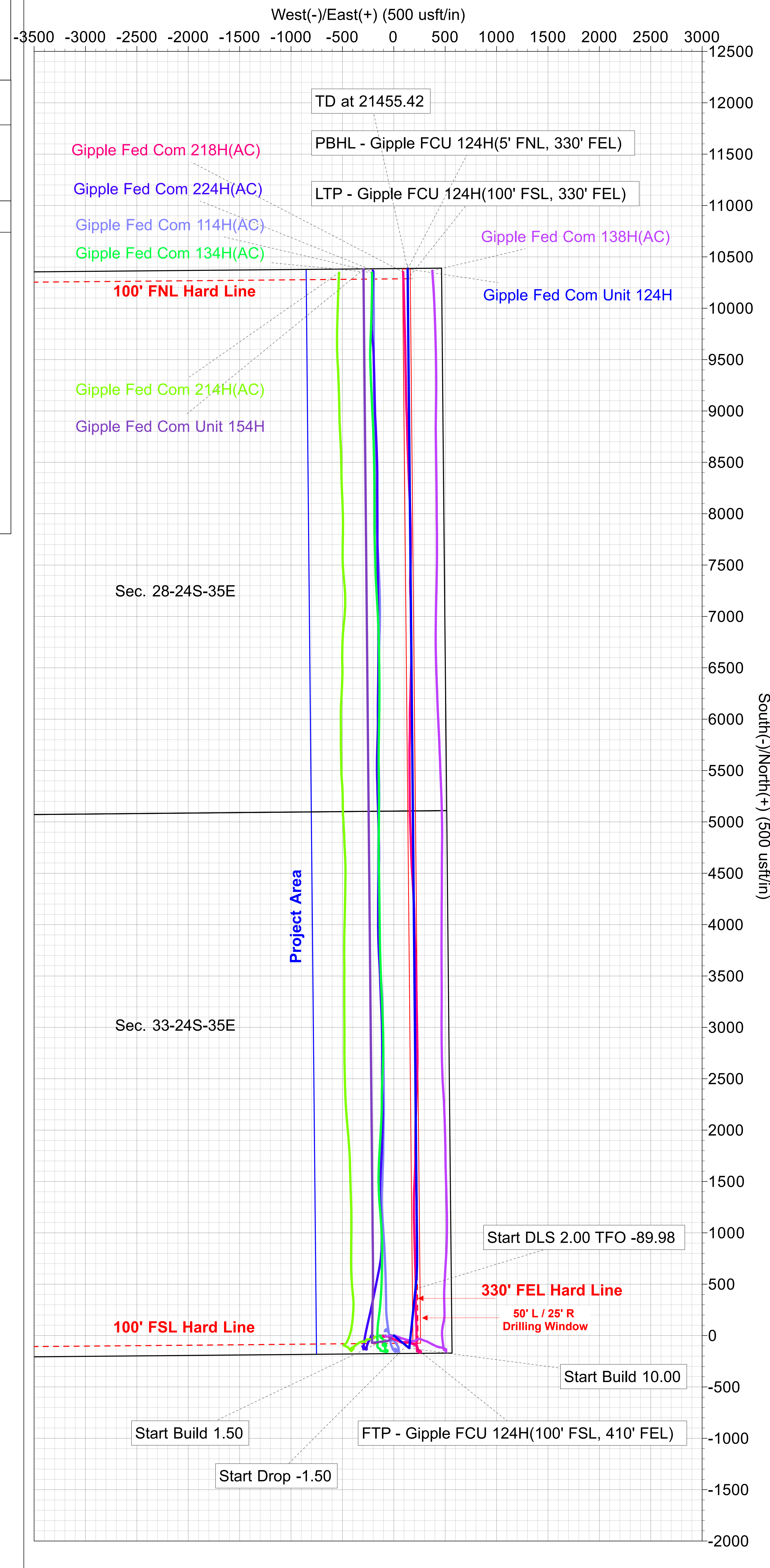
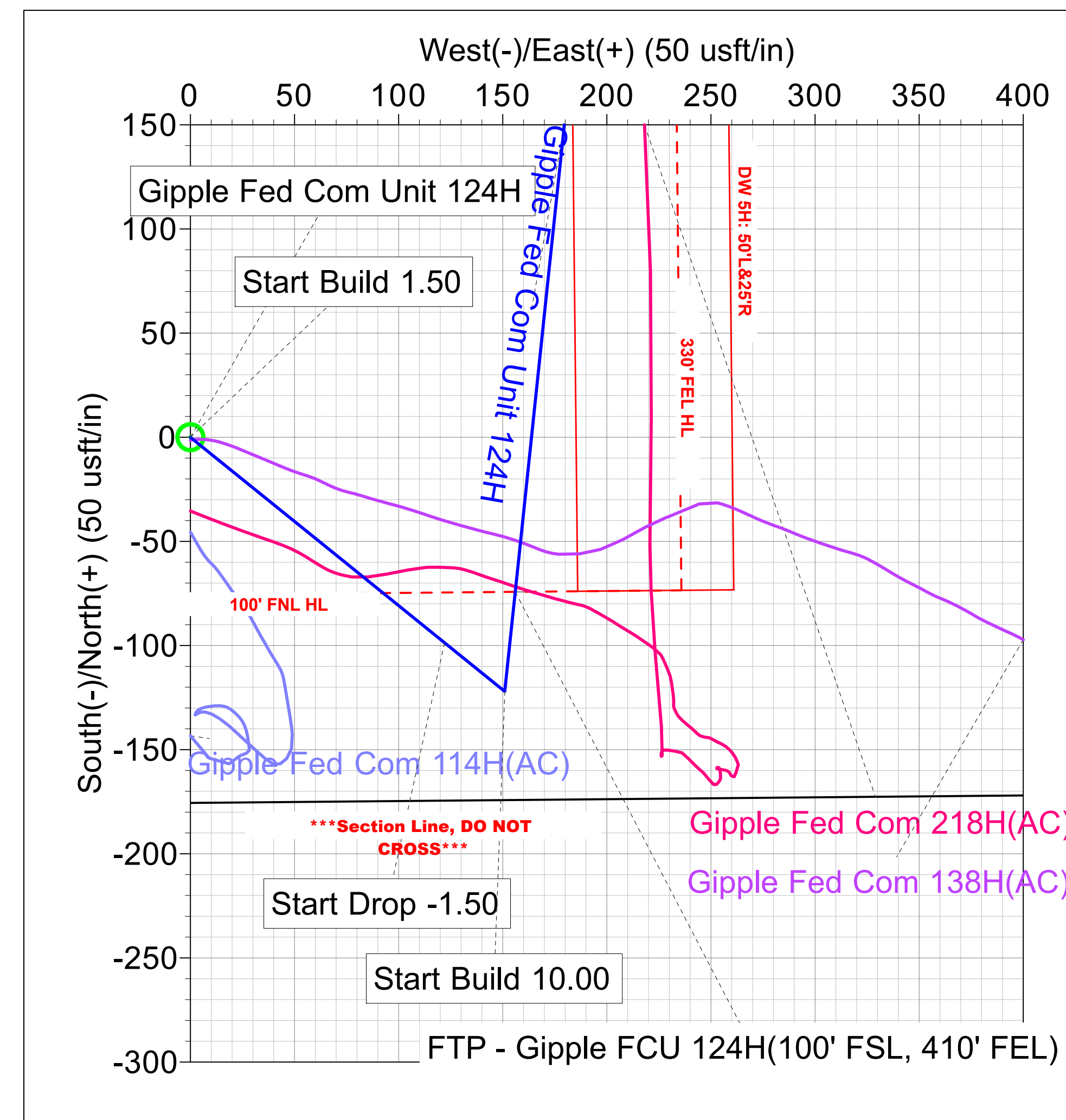
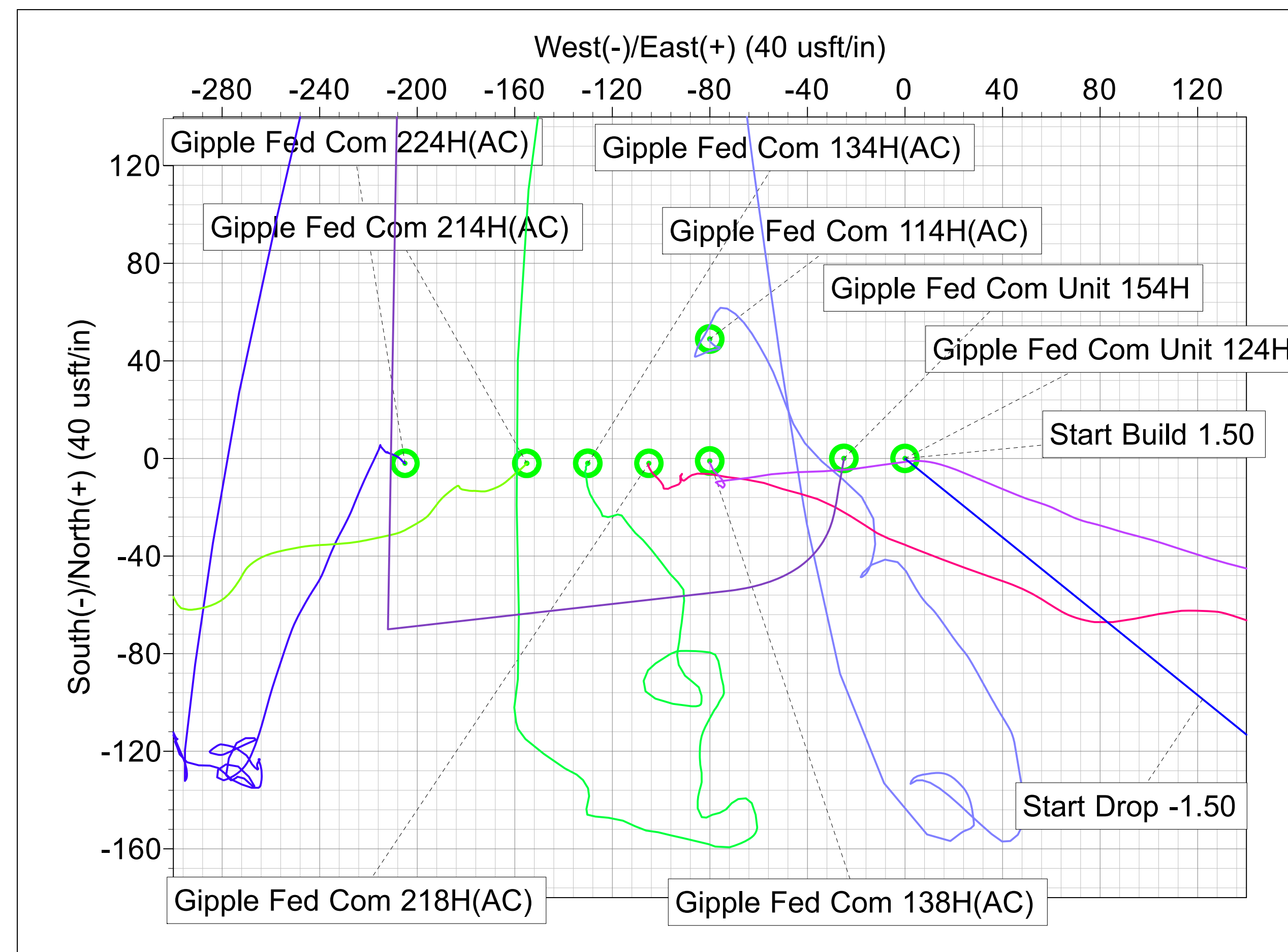
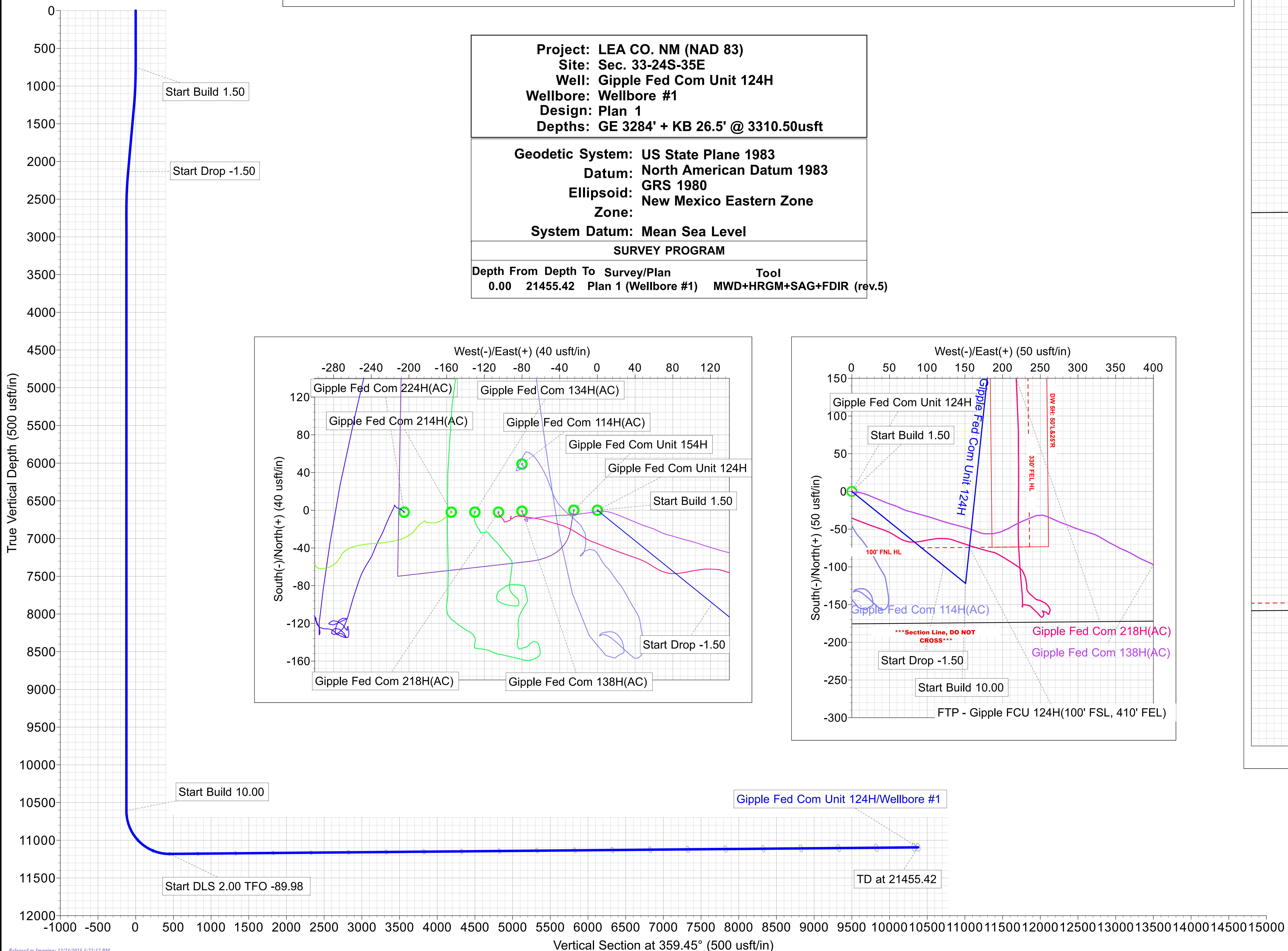
Project: LEA CO. NM (NAD 83)
Site: Sec. 33-24S-35E
Well: Gipple Fed Com Unit 124H
Wellbore: Wellbore #1
Design: Plan 1
Depths: GE 3284' + KB 26.5' @ 3310.50usft

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

System Datum: Mean Sea Level

SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.00	21455.42	Plan 1 (Wellbore #1)	MWD+HRGM+SAG+FDIR (rev.5)





CIVITAS PERMIAN OPERATING, LLC(SB)

LEA CO. NM (NAD 83)

Sec. 33-24S-35E

Gipple Fed Com Unit 124H

Wellbore #1

Plan: Plan 1

Standard Planning Report

30 July, 2025





Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Project:	LEA CO. NM (NAD 83)	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site:	Sec. 33-24S-35E	North Reference:	Grid
Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

Project	LEA CO. 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		Sec. 33-24S-35E				
Site Position:		Northing:	425,912.00	usft	Latitude:	32.16720991
From:	Map	Easting:	840,742.00	usft	Longitude:	-103.36573511
Position Uncertainty:		0.00	usft	Slot Radius:	13-3/16	"

Well	Gipple Fed Com Unit 124H					
Well Position	+N/-S	0.00 usft	Northing:	425,912.00 usft	Latitude:	32.16720991
	+E/-W	0.00 usft	Easting:	840,742.00 usft	Longitude:	-103.36573511
Position Uncertainty		0.00 usft	Wellhead Elevation:	26.50 usft	Ground Level:	3,284.00 usft
Grid Convergence:		0.52 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	7/29/2025	5.96	59.74	47,051.05436990

Design	Plan 1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.45	

Plan Survey Tool Program	Date	7/29/2025			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	21,455.42	Plan 1 (Wellbore #1)	MWD+HRGM+SAG+FDIR (re)	
				OWSG MWD + HRGM + SAG	



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Project:	LEA CO. NM (NAD 83)	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site:	Sec. 33-24S-35E	North Reference:	Grid
Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,283.63	8.00	128.94	1,281.90	-23.39	28.95	1.50	1.50	0.00	128.94	
2,143.21	8.00	128.94	2,133.10	-98.61	122.05	0.00	0.00	0.00	0.00	
2,676.84	0.00	0.00	2,665.00	-122.00	151.00	1.50	-1.50	0.00	180.00	
10,619.84	0.00	0.00	10,608.00	-122.00	151.00	0.00	0.00	0.00	0.00	
11,524.84	90.50	6.00	11,180.94	452.79	211.41	10.00	10.00	0.00	6.00	
11,852.27	90.50	359.45	11,178.08	779.66	226.97	2.00	0.00	-2.00	-89.98	
21,455.42	90.50	359.45	11,094.42	10,382.00	135.00	0.00	0.00	0.00	0.00	



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Project:	LEA CO. NM (NAD 83)	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site:	Sec. 33-24S-35E	North Reference:	Grid
Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

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
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
511.00	0.00	0.00	511.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.75	128.94	800.00	-0.21	0.25	-0.21	1.50	1.50	0.00
900.00	2.25	128.94	899.96	-1.85	2.29	-1.87	1.50	1.50	0.00
920.06	2.55	128.94	920.00	-2.38	2.94	-2.41	1.50	1.50	0.00
Salado									
1,000.00	3.75	128.94	999.82	-5.14	6.36	-5.20	1.50	1.50	0.00
1,100.00	5.25	128.94	1,099.51	-10.07	12.46	-10.19	1.50	1.50	0.00
1,200.00	6.75	128.94	1,198.96	-16.64	20.59	-16.84	1.50	1.50	0.00
1,283.63	8.00	128.94	1,281.90	-23.39	28.95	-23.66	1.50	1.50	0.00
1,300.00	8.00	128.94	1,298.11	-24.82	30.72	-25.11	0.00	0.00	0.00
1,400.00	8.00	128.94	1,397.13	-33.57	41.55	-33.97	0.00	0.00	0.00
1,500.00	8.00	128.94	1,496.16	-42.32	52.38	-42.82	0.00	0.00	0.00
1,600.00	8.00	128.94	1,595.18	-51.07	63.21	-51.68	0.00	0.00	0.00
1,700.00	8.00	128.94	1,694.21	-59.83	74.05	-60.53	0.00	0.00	0.00
1,800.00	8.00	128.94	1,793.24	-68.58	84.88	-69.39	0.00	0.00	0.00
1,900.00	8.00	128.94	1,892.26	-77.33	95.71	-78.24	0.00	0.00	0.00
2,000.00	8.00	128.94	1,991.29	-86.08	106.54	-87.10	0.00	0.00	0.00
2,100.00	8.00	128.94	2,090.31	-94.83	117.37	-95.95	0.00	0.00	0.00
2,143.21	8.00	128.94	2,133.10	-98.61	122.05	-99.78	0.00	0.00	0.00
2,200.00	7.15	128.94	2,189.39	-103.32	127.88	-104.54	1.50	-1.50	0.00
2,300.00	5.65	128.94	2,288.77	-110.33	136.55	-111.63	1.50	-1.50	0.00
2,400.00	4.15	128.94	2,388.40	-115.70	143.20	-117.07	1.50	-1.50	0.00
2,500.00	2.65	128.94	2,488.22	-119.43	147.82	-120.84	1.50	-1.50	0.00
2,600.00	1.15	128.94	2,588.16	-121.51	150.40	-122.95	1.50	-1.50	0.00
2,676.84	0.00	0.00	2,665.00	-122.00	151.00	-123.44	1.50	-1.50	0.00
2,700.00	0.00	0.00	2,688.16	-122.00	151.00	-123.44	0.00	0.00	0.00
2,800.00	0.00	0.00	2,788.16	-122.00	151.00	-123.44	0.00	0.00	0.00
2,900.00	0.00	0.00	2,888.16	-122.00	151.00	-123.44	0.00	0.00	0.00
3,000.00	0.00	0.00	2,988.16	-122.00	151.00	-123.44	0.00	0.00	0.00
3,100.00	0.00	0.00	3,088.16	-122.00	151.00	-123.44	0.00	0.00	0.00
3,200.00	0.00	0.00	3,188.16	-122.00	151.00	-123.44	0.00	0.00	0.00
3,300.00	0.00	0.00	3,288.16	-122.00	151.00	-123.44	0.00	0.00	0.00
3,400.00	0.00	0.00	3,388.16	-122.00	151.00	-123.44	0.00	0.00	0.00
3,500.00	0.00	0.00	3,488.16	-122.00	151.00	-123.44	0.00	0.00	0.00
3,600.00	0.00	0.00	3,588.16	-122.00	151.00	-123.44	0.00	0.00	0.00
3,700.00	0.00	0.00	3,688.16	-122.00	151.00	-123.44	0.00	0.00	0.00
3,800.00	0.00	0.00	3,788.16	-122.00	151.00	-123.44	0.00	0.00	0.00
3,900.00	0.00	0.00	3,888.16	-122.00	151.00	-123.44	0.00	0.00	0.00
4,000.00	0.00	0.00	3,988.16	-122.00	151.00	-123.44	0.00	0.00	0.00
4,100.00	0.00	0.00	4,088.16	-122.00	151.00	-123.44	0.00	0.00	0.00
4,200.00	0.00	0.00	4,188.16	-122.00	151.00	-123.44	0.00	0.00	0.00
4,300.00	0.00	0.00	4,288.16	-122.00	151.00	-123.44	0.00	0.00	0.00
4,400.00	0.00	0.00	4,388.16	-122.00	151.00	-123.44	0.00	0.00	0.00
4,500.00	0.00	0.00	4,488.16	-122.00	151.00	-123.44	0.00	0.00	0.00



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Project:	LEA CO. NM (NAD 83)	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site:	Sec. 33-24S-35E	North Reference:	Grid
Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

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)
4,600.00	0.00	0.00	4,588.16	-122.00	151.00	-123.44	0.00	0.00	0.00
4,700.00	0.00	0.00	4,688.16	-122.00	151.00	-123.44	0.00	0.00	0.00
4,800.00	0.00	0.00	4,788.16	-122.00	151.00	-123.44	0.00	0.00	0.00
4,900.00	0.00	0.00	4,888.16	-122.00	151.00	-123.44	0.00	0.00	0.00
5,000.00	0.00	0.00	4,988.16	-122.00	151.00	-123.44	0.00	0.00	0.00
5,100.00	0.00	0.00	5,088.16	-122.00	151.00	-123.44	0.00	0.00	0.00
5,200.00	0.00	0.00	5,188.16	-122.00	151.00	-123.44	0.00	0.00	0.00
5,216.84	0.00	0.00	5,205.00	-122.00	151.00	-123.44	0.00	0.00	0.00
DMG/Bell Canyon									
5,300.00	0.00	0.00	5,288.16	-122.00	151.00	-123.44	0.00	0.00	0.00
5,400.00	0.00	0.00	5,388.16	-122.00	151.00	-123.44	0.00	0.00	0.00
5,500.00	0.00	0.00	5,488.16	-122.00	151.00	-123.44	0.00	0.00	0.00
5,600.00	0.00	0.00	5,588.16	-122.00	151.00	-123.44	0.00	0.00	0.00
5,700.00	0.00	0.00	5,688.16	-122.00	151.00	-123.44	0.00	0.00	0.00
5,800.00	0.00	0.00	5,788.16	-122.00	151.00	-123.44	0.00	0.00	0.00
5,900.00	0.00	0.00	5,888.16	-122.00	151.00	-123.44	0.00	0.00	0.00
6,000.00	0.00	0.00	5,988.16	-122.00	151.00	-123.44	0.00	0.00	0.00
6,100.00	0.00	0.00	6,088.16	-122.00	151.00	-123.44	0.00	0.00	0.00
6,139.84	0.00	0.00	6,128.00	-122.00	151.00	-123.44	0.00	0.00	0.00
Cherry Canyon									
6,200.00	0.00	0.00	6,188.16	-122.00	151.00	-123.44	0.00	0.00	0.00
6,300.00	0.00	0.00	6,288.16	-122.00	151.00	-123.44	0.00	0.00	0.00
6,400.00	0.00	0.00	6,388.16	-122.00	151.00	-123.44	0.00	0.00	0.00
6,500.00	0.00	0.00	6,488.16	-122.00	151.00	-123.44	0.00	0.00	0.00
6,600.00	0.00	0.00	6,588.16	-122.00	151.00	-123.44	0.00	0.00	0.00
6,700.00	0.00	0.00	6,688.16	-122.00	151.00	-123.44	0.00	0.00	0.00
6,800.00	0.00	0.00	6,788.16	-122.00	151.00	-123.44	0.00	0.00	0.00
6,900.00	0.00	0.00	6,888.16	-122.00	151.00	-123.44	0.00	0.00	0.00
7,000.00	0.00	0.00	6,988.16	-122.00	151.00	-123.44	0.00	0.00	0.00
7,100.00	0.00	0.00	7,088.16	-122.00	151.00	-123.44	0.00	0.00	0.00
7,200.00	0.00	0.00	7,188.16	-122.00	151.00	-123.44	0.00	0.00	0.00
7,300.00	0.00	0.00	7,288.16	-122.00	151.00	-123.44	0.00	0.00	0.00
7,400.00	0.00	0.00	7,388.16	-122.00	151.00	-123.44	0.00	0.00	0.00
7,500.00	0.00	0.00	7,488.16	-122.00	151.00	-123.44	0.00	0.00	0.00
7,600.00	0.00	0.00	7,588.16	-122.00	151.00	-123.44	0.00	0.00	0.00
7,655.84	0.00	0.00	7,644.00	-122.00	151.00	-123.44	0.00	0.00	0.00
Brushy Canyon									
7,700.00	0.00	0.00	7,688.16	-122.00	151.00	-123.44	0.00	0.00	0.00
7,800.00	0.00	0.00	7,788.16	-122.00	151.00	-123.44	0.00	0.00	0.00
7,900.00	0.00	0.00	7,888.16	-122.00	151.00	-123.44	0.00	0.00	0.00
8,000.00	0.00	0.00	7,988.16	-122.00	151.00	-123.44	0.00	0.00	0.00
8,100.00	0.00	0.00	8,088.16	-122.00	151.00	-123.44	0.00	0.00	0.00
8,200.00	0.00	0.00	8,188.16	-122.00	151.00	-123.44	0.00	0.00	0.00
8,300.00	0.00	0.00	8,288.16	-122.00	151.00	-123.44	0.00	0.00	0.00
8,400.00	0.00	0.00	8,388.16	-122.00	151.00	-123.44	0.00	0.00	0.00
8,500.00	0.00	0.00	8,488.16	-122.00	151.00	-123.44	0.00	0.00	0.00
8,600.00	0.00	0.00	8,588.16	-122.00	151.00	-123.44	0.00	0.00	0.00
8,700.00	0.00	0.00	8,688.16	-122.00	151.00	-123.44	0.00	0.00	0.00
8,800.00	0.00	0.00	8,788.16	-122.00	151.00	-123.44	0.00	0.00	0.00
8,801.84	0.00	0.00	8,790.00	-122.00	151.00	-123.44	0.00	0.00	0.00
Brushy Canyon Lwr									
8,900.00	0.00	0.00	8,888.16	-122.00	151.00	-123.44	0.00	0.00	0.00
9,000.00	0.00	0.00	8,988.16	-122.00	151.00	-123.44	0.00	0.00	0.00



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Project:	LEA CO. NM (NAD 83)	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site:	Sec. 33-24S-35E	North Reference:	Grid
Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

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)
9,001.84	0.00	0.00	8,990.00	-122.00	151.00	-123.44	0.00	0.00	0.00
Avalon Upr									
9,100.00	0.00	0.00	9,088.16	-122.00	151.00	-123.44	0.00	0.00	0.00
9,200.00	0.00	0.00	9,188.16	-122.00	151.00	-123.44	0.00	0.00	0.00
9,269.84	0.00	0.00	9,258.00	-122.00	151.00	-123.44	0.00	0.00	0.00
Avalon Mid									
9,300.00	0.00	0.00	9,288.16	-122.00	151.00	-123.44	0.00	0.00	0.00
9,400.00	0.00	0.00	9,388.16	-122.00	151.00	-123.44	0.00	0.00	0.00
9,500.00	0.00	0.00	9,488.16	-122.00	151.00	-123.44	0.00	0.00	0.00
9,600.00	0.00	0.00	9,588.16	-122.00	151.00	-123.44	0.00	0.00	0.00
9,690.84	0.00	0.00	9,679.00	-122.00	151.00	-123.44	0.00	0.00	0.00
Avalon Lwr									
9,700.00	0.00	0.00	9,688.16	-122.00	151.00	-123.44	0.00	0.00	0.00
9,800.00	0.00	0.00	9,788.16	-122.00	151.00	-123.44	0.00	0.00	0.00
9,900.00	0.00	0.00	9,888.16	-122.00	151.00	-123.44	0.00	0.00	0.00
10,000.00	0.00	0.00	9,988.16	-122.00	151.00	-123.44	0.00	0.00	0.00
10,100.00	0.00	0.00	10,088.16	-122.00	151.00	-123.44	0.00	0.00	0.00
10,168.84	0.00	0.00	10,157.00	-122.00	151.00	-123.44	0.00	0.00	0.00
1st Bone Spring Sand									
10,200.00	0.00	0.00	10,188.16	-122.00	151.00	-123.44	0.00	0.00	0.00
10,300.00	0.00	0.00	10,288.16	-122.00	151.00	-123.44	0.00	0.00	0.00
10,343.84	0.00	0.00	10,332.00	-122.00	151.00	-123.44	0.00	0.00	0.00
2nd Bone Spring Carbonate									
10,400.00	0.00	0.00	10,388.16	-122.00	151.00	-123.44	0.00	0.00	0.00
10,500.00	0.00	0.00	10,488.16	-122.00	151.00	-123.44	0.00	0.00	0.00
10,600.00	0.00	0.00	10,588.16	-122.00	151.00	-123.44	0.00	0.00	0.00
10,619.84	0.00	0.00	10,608.00	-122.00	151.00	-123.44	0.00	0.00	0.00
10,650.00	3.02	6.00	10,638.14	-121.21	151.08	-122.66	10.00	10.00	0.00
10,700.00	8.02	6.00	10,687.90	-116.43	151.59	-117.88	10.00	10.00	0.00
10,750.00	13.02	6.00	10,737.04	-107.36	152.54	-108.82	10.00	10.00	0.00
10,800.00	18.02	6.00	10,785.20	-94.06	153.94	-95.54	10.00	10.00	0.00
10,850.00	23.02	6.00	10,832.02	-76.64	155.77	-78.13	10.00	10.00	0.00
10,856.20	23.64	6.00	10,837.71	-74.20	156.02	-75.70	10.00	10.00	0.00
FTP - Gipple FCU 124H(100' FSL, 410' FEL)									
10,900.00	28.02	6.00	10,877.13	-55.23	158.02	-56.74	10.00	10.00	0.00
10,950.00	33.02	6.00	10,920.19	-29.99	160.67	-31.53	10.00	10.00	0.00
10,985.08	36.52	6.00	10,949.00	-10.09	162.76	-11.65	10.00	10.00	0.00
2nd Bone Spring Sand									
11,000.00	38.02	6.00	10,960.87	-1.11	163.71	-2.68	10.00	10.00	0.00
11,050.00	43.02	6.00	10,998.87	31.19	167.10	29.58	10.00	10.00	0.00
11,100.00	48.02	6.00	11,033.90	66.65	170.83	65.01	10.00	10.00	0.00
11,150.00	53.02	6.00	11,065.68	105.02	174.86	103.33	10.00	10.00	0.00
11,200.00	58.02	6.00	11,093.98	145.99	179.17	144.27	10.00	10.00	0.00
11,250.00	63.02	6.00	11,118.58	189.27	183.72	187.49	10.00	10.00	0.00
11,300.00	68.02	6.00	11,139.30	234.51	188.47	232.69	10.00	10.00	0.00
11,350.00	73.02	6.00	11,155.97	281.37	193.40	279.50	10.00	10.00	0.00
11,400.00	78.02	6.00	11,168.47	329.50	198.45	327.58	10.00	10.00	0.00
11,450.00	83.02	6.00	11,176.71	378.53	203.61	376.56	10.00	10.00	0.00
11,500.00	88.02	6.00	11,180.61	428.09	208.82	426.06	10.00	10.00	0.00
11,524.84	90.50	6.00	11,180.94	452.79	211.41	450.74	10.00	10.00	0.00
11,600.00	90.50	4.50	11,180.28	527.63	218.29	525.51	2.00	0.00	-2.00
11,700.00	90.50	2.50	11,179.41	627.43	224.39	625.25	2.00	0.00	-2.00
11,800.00	90.50	0.50	11,178.53	727.39	227.00	725.18	2.00	0.00	-2.00



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Project:	LEA CO. NM (NAD 83)	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site:	Sec. 33-24S-35E	North Reference:	Grid
Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

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)	
11,852.27	90.50	359.45	11,178.08	779.66	226.97	777.44	2.00	0.00	-2.00	
11,900.00	90.50	359.45	11,177.66	827.38	226.52	825.17	0.00	0.00	0.00	
12,000.00	90.50	359.45	11,176.79	927.38	225.56	925.17	0.00	0.00	0.00	
12,100.00	90.50	359.45	11,175.92	1,027.37	224.60	1,025.16	0.00	0.00	0.00	
12,200.00	90.50	359.45	11,175.05	1,127.36	223.64	1,125.16	0.00	0.00	0.00	
12,300.00	90.50	359.45	11,174.18	1,227.35	222.69	1,225.16	0.00	0.00	0.00	
12,400.00	90.50	359.45	11,173.31	1,327.34	221.73	1,325.15	0.00	0.00	0.00	
12,500.00	90.50	359.45	11,172.44	1,427.33	220.77	1,425.15	0.00	0.00	0.00	
12,600.00	90.50	359.45	11,171.56	1,527.33	219.81	1,525.14	0.00	0.00	0.00	
12,700.00	90.50	359.45	11,170.69	1,627.32	218.85	1,625.14	0.00	0.00	0.00	
12,800.00	90.50	359.45	11,169.82	1,727.31	217.90	1,725.14	0.00	0.00	0.00	
12,900.00	90.50	359.45	11,168.95	1,827.30	216.94	1,825.13	0.00	0.00	0.00	
13,000.00	90.50	359.45	11,168.08	1,927.29	215.98	1,925.13	0.00	0.00	0.00	
13,100.00	90.50	359.45	11,167.21	2,027.28	215.02	2,025.13	0.00	0.00	0.00	
13,200.00	90.50	359.45	11,166.34	2,127.27	214.07	2,125.12	0.00	0.00	0.00	
13,300.00	90.50	359.45	11,165.47	2,227.27	213.11	2,225.12	0.00	0.00	0.00	
13,400.00	90.50	359.45	11,164.60	2,327.26	212.15	2,325.11	0.00	0.00	0.00	
13,500.00	90.50	359.45	11,163.72	2,427.25	211.19	2,425.11	0.00	0.00	0.00	
13,600.00	90.50	359.45	11,162.85	2,527.24	210.24	2,525.11	0.00	0.00	0.00	
13,700.00	90.50	359.45	11,161.98	2,627.23	209.28	2,625.10	0.00	0.00	0.00	
13,800.00	90.50	359.45	11,161.11	2,727.22	208.32	2,725.10	0.00	0.00	0.00	
13,900.00	90.50	359.45	11,160.24	2,827.22	207.36	2,825.10	0.00	0.00	0.00	
14,000.00	90.50	359.45	11,159.37	2,927.21	206.40	2,925.09	0.00	0.00	0.00	
14,100.00	90.50	359.45	11,158.50	3,027.20	205.45	3,025.09	0.00	0.00	0.00	
14,200.00	90.50	359.45	11,157.63	3,127.19	204.49	3,125.08	0.00	0.00	0.00	
14,300.00	90.50	359.45	11,156.75	3,227.18	203.53	3,225.08	0.00	0.00	0.00	
14,400.00	90.50	359.45	11,155.88	3,327.17	202.57	3,325.08	0.00	0.00	0.00	
14,500.00	90.50	359.45	11,155.01	3,427.17	201.62	3,425.07	0.00	0.00	0.00	
14,600.00	90.50	359.45	11,154.14	3,527.16	200.66	3,525.07	0.00	0.00	0.00	
14,700.00	90.50	359.45	11,153.27	3,627.15	199.70	3,625.07	0.00	0.00	0.00	
14,800.00	90.50	359.45	11,152.40	3,727.14	198.74	3,725.06	0.00	0.00	0.00	
14,900.00	90.50	359.45	11,151.53	3,827.13	197.78	3,825.06	0.00	0.00	0.00	
15,000.00	90.50	359.45	11,150.66	3,927.12	196.83	3,925.05	0.00	0.00	0.00	
15,100.00	90.50	359.45	11,149.79	4,027.12	195.87	4,025.05	0.00	0.00	0.00	
15,200.00	90.50	359.45	11,148.91	4,127.11	194.91	4,125.05	0.00	0.00	0.00	
15,300.00	90.50	359.45	11,148.04	4,227.10	193.95	4,225.04	0.00	0.00	0.00	
15,400.00	90.50	359.45	11,147.17	4,327.09	193.00	4,325.04	0.00	0.00	0.00	
15,500.00	90.50	359.45	11,146.30	4,427.08	192.04	4,425.03	0.00	0.00	0.00	
15,600.00	90.50	359.45	11,145.43	4,527.07	191.08	4,525.03	0.00	0.00	0.00	
15,700.00	90.50	359.45	11,144.56	4,627.07	190.12	4,625.03	0.00	0.00	0.00	
15,800.00	90.50	359.45	11,143.69	4,727.06	189.16	4,725.02	0.00	0.00	0.00	
15,900.00	90.50	359.45	11,142.82	4,827.05	188.21	4,825.02	0.00	0.00	0.00	
16,000.00	90.50	359.45	11,141.95	4,927.04	187.25	4,925.02	0.00	0.00	0.00	
16,100.00	90.50	359.45	11,141.07	5,027.03	186.29	5,025.01	0.00	0.00	0.00	
16,200.00	90.50	359.45	11,140.20	5,127.02	185.33	5,125.01	0.00	0.00	0.00	
16,300.00	90.50	359.45	11,139.33	5,227.02	184.38	5,225.00	0.00	0.00	0.00	
16,400.00	90.50	359.45	11,138.46	5,327.01	183.42	5,325.00	0.00	0.00	0.00	
16,500.00	90.50	359.45	11,137.59	5,427.00	182.46	5,425.00	0.00	0.00	0.00	
16,600.00	90.50	359.45	11,136.72	5,526.99	181.50	5,524.99	0.00	0.00	0.00	
16,700.00	90.50	359.45	11,135.85	5,626.98	180.54	5,624.99	0.00	0.00	0.00	
16,800.00	90.50	359.45	11,134.98	5,726.97	179.59	5,724.99	0.00	0.00	0.00	
16,900.00	90.50	359.45	11,134.10	5,826.96	178.63	5,824.98	0.00	0.00	0.00	
17,000.00	90.50	359.45	11,133.23	5,926.96	177.67	5,924.98	0.00	0.00	0.00	
17,100.00	90.50	359.45	11,132.36	6,026.95	176.71	6,024.97	0.00	0.00	0.00	



Planning Report



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Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Project:	LEA CO. NM (NAD 83)	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site:	Sec. 33-24S-35E	North Reference:	Grid
Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

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)
17,200.00	90.50	359.45	11,131.49	6,126.94	175.76	6,124.97	0.00	0.00	0.00
17,300.00	90.50	359.45	11,130.62	6,226.93	174.80	6,224.97	0.00	0.00	0.00
17,400.00	90.50	359.45	11,129.75	6,326.92	173.84	6,324.96	0.00	0.00	0.00
17,500.00	90.50	359.45	11,128.88	6,426.91	172.88	6,424.96	0.00	0.00	0.00
17,600.00	90.50	359.45	11,128.01	6,526.91	171.93	6,524.96	0.00	0.00	0.00
17,700.00	90.50	359.45	11,127.14	6,626.90	170.97	6,624.95	0.00	0.00	0.00
17,800.00	90.50	359.45	11,126.26	6,726.89	170.01	6,724.95	0.00	0.00	0.00
17,900.00	90.50	359.45	11,125.39	6,826.88	169.05	6,824.94	0.00	0.00	0.00
18,000.00	90.50	359.45	11,124.52	6,926.87	168.09	6,924.94	0.00	0.00	0.00
18,100.00	90.50	359.45	11,123.65	7,026.86	167.14	7,024.94	0.00	0.00	0.00
18,200.00	90.50	359.45	11,122.78	7,126.86	166.18	7,124.93	0.00	0.00	0.00
18,300.00	90.50	359.45	11,121.91	7,226.85	165.22	7,224.93	0.00	0.00	0.00
18,400.00	90.50	359.45	11,121.04	7,326.84	164.26	7,324.92	0.00	0.00	0.00
18,500.00	90.50	359.45	11,120.17	7,426.83	163.31	7,424.92	0.00	0.00	0.00
18,600.00	90.50	359.45	11,119.30	7,526.82	162.35	7,524.92	0.00	0.00	0.00
18,700.00	90.50	359.45	11,118.42	7,626.81	161.39	7,624.91	0.00	0.00	0.00
18,800.00	90.50	359.45	11,117.55	7,726.81	160.43	7,724.91	0.00	0.00	0.00
18,900.00	90.50	359.45	11,116.68	7,826.80	159.47	7,824.91	0.00	0.00	0.00
19,000.00	90.50	359.45	11,115.81	7,926.79	158.52	7,924.90	0.00	0.00	0.00
19,100.00	90.50	359.45	11,114.94	8,026.78	157.56	8,024.90	0.00	0.00	0.00
19,200.00	90.50	359.45	11,114.07	8,126.77	156.60	8,124.89	0.00	0.00	0.00
19,300.00	90.50	359.45	11,113.20	8,226.76	155.64	8,224.89	0.00	0.00	0.00
19,400.00	90.50	359.45	11,112.33	8,326.76	154.69	8,324.89	0.00	0.00	0.00
19,500.00	90.50	359.45	11,111.45	8,426.75	153.73	8,424.88	0.00	0.00	0.00
19,600.00	90.50	359.45	11,110.58	8,526.74	152.77	8,524.88	0.00	0.00	0.00
19,700.00	90.50	359.45	11,109.71	8,626.73	151.81	8,624.88	0.00	0.00	0.00
19,800.00	90.50	359.45	11,108.84	8,726.72	150.85	8,724.87	0.00	0.00	0.00
19,900.00	90.50	359.45	11,107.97	8,826.71	149.90	8,824.87	0.00	0.00	0.00
20,000.00	90.50	359.45	11,107.10	8,926.71	148.94	8,924.86	0.00	0.00	0.00
20,100.00	90.50	359.45	11,106.23	9,026.70	147.98	9,024.86	0.00	0.00	0.00
20,200.00	90.50	359.45	11,105.36	9,126.69	147.02	9,124.86	0.00	0.00	0.00
20,300.00	90.50	359.45	11,104.49	9,226.68	146.07	9,224.85	0.00	0.00	0.00
20,400.00	90.50	359.45	11,103.61	9,326.67	145.11	9,324.85	0.00	0.00	0.00
20,500.00	90.50	359.45	11,102.74	9,426.66	144.15	9,424.85	0.00	0.00	0.00
20,600.00	90.50	359.45	11,101.87	9,526.65	143.19	9,524.84	0.00	0.00	0.00
20,700.00	90.50	359.45	11,101.00	9,626.65	142.24	9,624.84	0.00	0.00	0.00
20,800.00	90.50	359.45	11,100.13	9,726.64	141.28	9,724.83	0.00	0.00	0.00
20,900.00	90.50	359.45	11,099.26	9,826.63	140.32	9,824.83	0.00	0.00	0.00
21,000.00	90.50	359.45	11,098.39	9,926.62	139.36	9,924.83	0.00	0.00	0.00
21,100.00	90.50	359.45	11,097.52	10,026.61	138.40	10,024.82	0.00	0.00	0.00
21,200.00	90.50	359.45	11,096.65	10,126.60	137.45	10,124.82	0.00	0.00	0.00
21,300.00	90.50	359.45	11,095.77	10,226.60	136.49	10,224.81	0.00	0.00	0.00
21,360.42	90.50	359.45	11,095.25	10,287.01	135.91	10,285.23	0.00	0.00	0.00
LTP - Gipple FCU 124H(100' FSL, 330' FEL)									
21,400.00	90.50	359.45	11,094.90	10,326.59	135.53	10,324.81	0.00	0.00	0.00
21,455.42	90.50	359.45	11,094.42	10,382.00	135.00	10,380.23	0.00	0.00	0.00
PBHL - Gipple FCU 124H(5' FNL, 330' FEL)									



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Project:	LEA CO. NM (NAD 83)	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site:	Sec. 33-24S-35E	North Reference:	Grid
Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
FTP - Gipple FCU 124H	0.00	0.00	10,837.71	-74.20	156.05	425,837.80	840,898.05	32.16700210	-103.36523302
- plan misses target center by 0.02usft at 10856.20usft MD (10837.71 TVD, -74.20 N, 156.02 E)									
- Point									
PBHL - Gipple FCU 124H	0.00	0.00	11,094.42	10,382.00	135.00	436,294.00	840,877.00	32.19574183	-103.36499687
- plan hits target center									
- Point									
LTP - Gipple FCU 124H	0.00	0.00	11,094.42	10,287.00	136.00	436,199.00	840,878.00	32.19548069	-103.36499640
- plan misses target center by 0.83usft at 21360.42usft MD (11095.25 TVD, 10287.01 N, 135.91 E)									
- Point									

Casing Points					
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
(usft)	(usft)		(")	(")	
21,454.68	11,094.43	20" Casing	20	24	

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
511.00	511.00	Rustler				
920.06	920.00	Salado				
5,216.84	5,205.00	DMG/Bell Canyon				
6,139.84	6,128.00	Cherry Canyon				
7,655.84	7,644.00	Brushy Canyon				
8,801.84	8,790.00	Brushy Canyon Lwr				
9,001.84	8,990.00	Avalon Upr				
9,269.84	9,258.00	Avalon Mid				
9,690.84	9,679.00	Avalon Lwr				
10,168.84	10,157.00	1st Bone Spring Sand				
10,343.84	10,332.00	2nd Bone Spring Carbonate				
10,985.08	10,949.00	2nd Bone Spring Sand				



CIVITAS PERMIAN OPERATING, LLC(SB)

LEA CO. NM (NAD 83)

Sec. 33-24S-35E

Gipple Fed Com Unit 124H

Wellbore #1

Plan 1

Anticollision Report

30 July, 2025





Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference	Plan 1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 2,410.75usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	7/29/2025	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	21,455.42	Plan 1 (Wellbore #1)	MWD+HRGM+SAG+FDIR (r	OWSG MWD + HRGM + SAG + FDIR Correction

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						
Sec. 33-24S-35E						
Gipple Fed Com 114H(AC) - Wellbore #1 - Wellbore #1	800.00	799.10	89.18	83.55	15.856	CC
Gipple Fed Com 114H(AC) - Wellbore #1 - Wellbore #1	6,700.00	6,696.61	104.02	70.07	3.064	ES
Gipple Fed Com 114H(AC) - Wellbore #1 - Wellbore #1	9,600.00	9,597.75	126.66	80.09	2.720	SF
Gipple Fed Com 134H(AC) - Wellbore #1 - Wellbore #1	0.00	0.00	130.02			
Gipple Fed Com 134H(AC) - Wellbore #1 - Wellbore #1	800.00	799.45	131.09	125.44	23.219	ES
Gipple Fed Com 134H(AC) - Wellbore #1 - Wellbore #1	9,200.00	9,191.02	213.52	168.54	4.747	SF
Gipple Fed Com 138H(AC) - Wellbore #1 - Wellbore #1	4,411.27	4,412.83	69.89	45.89	2.911	CC, ES, SF
Gipple Fed Com 214H(AC) - Wellbore #1 - Wellbore #1	0.00	0.00	155.01			
Gipple Fed Com 214H(AC) - Wellbore #1 - Wellbore #1	100.00	98.07	155.63	154.98	237.493	ES
Gipple Fed Com 214H(AC) - Wellbore #1 - Wellbore #1	21,415.53	22,703.00	1,475.79	1,291.91	8.026	SF
Gipple Fed Com 218H(AC) - Wellbore #1 - Wellbore #1	5,664.28	5,663.82	49.52	19.81	1.667	Collision Risk Procedures R
Gipple Fed Com 218H(AC) - Wellbore #1 - Wellbore #1	5,700.00	5,699.43	49.60	19.73	1.661	Collision Risk Procedures R
Gipple Fed Com 224H(AC) - Wellbore #1 - Wellbore #1	0.00	0.00	205.01			
Gipple Fed Com 224H(AC) - Wellbore #1 - Wellbore #1	200.00	198.18	206.65	204.65	103.316	ES
Gipple Fed Com 224H(AC) - Wellbore #1 - Wellbore #1	9,600.00	9,588.68	416.18	367.58	8.563	SF
Gipple Fed Com Unit 154H - Wellbore #1 - Plan 1	700.00	700.00	25.00	18.91	4.105	CC
Gipple Fed Com Unit 154H - Wellbore #1 - Plan 1	700.04	700.04	25.00	18.91	4.105	ES
Gipple Fed Com Unit 154H - Wellbore #1 - Plan 1	21,455.42	21,946.87	698.15	503.17	3.581	SF

Offset Design:	Sec. 33-24S-35E - Gipple Fed Com 114H(AC) - Wellbore #1 - Wellbore #1										Offset Site Error:	0.00 usft
Survey Program:	177-3_MWD+HRGM										Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-58.51	49.00	-80.00	93.83			
100.00	100.00	98.55	98.55	0.50	0.15	-58.59	48.88	-80.04	93.79	93.13	0.66	143.136
200.00	200.00	198.53	198.52	1.31	0.35	-58.80	48.54	-80.17	93.72	92.06	1.66	56.437
300.00	300.00	298.79	298.79	1.79	0.70	-58.90	48.38	-80.20	93.66	91.17	2.49	37.581
400.00	400.00	399.27	399.27	2.17	1.06	-59.04	47.89	-79.82	93.09	89.86	3.22	28.873
500.00	500.00	499.70	499.69	2.49	1.41	-59.23	47.08	-79.06	92.03	88.12	3.90	23.575
600.00	600.00	599.52	599.51	2.78	1.77	-59.36	46.29	-78.13	90.82	86.27	4.55	19.974
700.00	700.00	699.47	699.44	3.04	2.12	-59.31	45.79	-77.15	89.72	84.55	5.16	17.371
780.52	780.52	779.72	779.69	3.13	2.40	172.01	45.71	-76.34	89.41	83.87	5.53	16.155
800.00	800.00	799.10	799.07	3.15	2.47	172.06	45.71	-76.19	89.18	83.55	5.62	15.856 CC

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 114H(AC) - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 177-3_MWD+HRGM													Offset Well Error: 0.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
900.00	899.96	898.63	898.60	3.43	2.82	172.25	45.49	-75.91	91.42	85.17	6.25	14.619	
1,000.00	999.82	998.27	998.24	3.70	3.18	172.38	45.05	-76.08	96.52	89.65	6.87	14.055	
1,100.00	1,099.51	1,097.10	1,097.07	3.95	3.52	172.57	44.79	-76.91	104.87	97.41	7.46	14.053	
1,200.00	1,198.96	1,196.15	1,196.10	4.20	3.86	172.72	44.50	-78.33	116.30	108.26	8.05	14.450	
1,300.00	1,298.11	1,295.19	1,295.13	4.36	4.20	172.87	44.06	-79.98	130.39	121.83	8.56	15.235	
1,400.00	1,397.13	1,394.31	1,394.24	4.56	4.55	173.04	43.51	-81.55	145.25	136.15	9.10	15.964	
1,500.00	1,496.16	1,493.48	1,493.39	4.75	4.90	173.19	42.91	-82.95	159.94	150.30	9.64	16.589	
1,600.00	1,595.18	1,592.36	1,592.27	4.94	5.25	173.34	42.30	-84.23	174.53	164.35	10.18	17.138	
1,700.00	1,694.21	1,691.59	1,691.49	5.14	5.60	173.53	41.90	-85.40	189.14	178.41	10.73	17.630	
1,800.00	1,793.24	1,790.97	1,790.87	5.33	5.94	173.84	41.78	-86.09	203.49	192.23	11.27	18.058	
1,900.00	1,892.26	1,889.93	1,889.82	5.52	6.28	174.44	42.65	-86.00	217.75	205.95	11.80	18.453	
2,000.00	1,991.29	1,988.93	1,988.81	5.72	6.62	175.15	44.13	-85.53	232.05	219.72	12.33	18.819	
2,100.00	2,090.31	2,088.09	2,087.96	5.91	6.95	175.75	45.50	-85.06	246.32	233.45	12.86	19.148	
2,200.00	2,189.39	2,187.65	2,187.50	6.04	7.30	176.38	47.10	-84.24	260.04	246.71	13.33	19.502	
2,300.00	2,288.77	2,286.94	2,286.77	6.26	7.64	176.99	48.92	-83.14	271.34	257.44	13.90	19.522	
2,400.00	2,388.40	2,386.42	2,386.23	6.48	7.98	177.55	50.88	-81.96	280.08	265.62	14.46	19.370	
2,500.00	2,488.22	2,485.73	2,485.50	6.69	8.33	178.03	52.77	-80.97	286.35	271.34	15.01	19.075	
2,600.00	2,588.16	2,585.56	2,585.31	6.89	8.67	178.51	54.86	-79.93	290.10	274.54	15.56	18.648	
2,700.00	2,688.16	2,684.93	2,684.64	6.97	9.02	-51.99	57.48	-78.64	291.46	275.48	15.99	18.233	
2,800.00	2,788.16	2,786.40	2,786.05	7.07	9.37	-51.32	60.57	-77.05	292.13	275.69	16.44	17.766	
2,900.00	2,888.16	2,893.75	2,893.35	7.17	9.75	-50.80	61.98	-74.60	291.19	274.26	16.93	17.204	
3,000.00	2,988.16	2,999.46	2,998.99	7.27	10.12	-50.60	60.39	-71.06	287.63	270.23	17.39	16.536	
3,100.00	3,088.16	3,102.55	3,101.96	7.37	10.48	-50.62	57.19	-67.27	282.82	264.97	17.85	15.844	
3,200.00	3,188.16	3,203.23	3,202.47	7.47	10.83	-50.89	52.51	-63.67	277.10	258.80	18.30	15.143	
3,300.00	3,288.16	3,303.66	3,302.72	7.57	11.18	-51.29	47.38	-60.38	271.34	252.59	18.75	14.474	
3,400.00	3,388.16	3,403.08	3,401.93	7.66	11.53	-51.82	41.82	-57.31	265.45	246.26	19.19	13.830	
3,500.00	3,488.16	3,503.86	3,502.50	7.76	11.89	-52.42	36.03	-54.32	259.58	239.93	19.64	13.215	
3,600.00	3,588.16	3,605.28	3,603.64	7.86	12.25	-53.28	29.04	-51.47	253.18	233.08	20.09	12.600	
3,700.00	3,688.16	3,705.03	3,703.07	7.96	12.60	-54.27	21.61	-48.66	246.49	225.95	20.54	12.000	
3,800.00	3,788.16	3,808.08	3,805.73	8.05	12.97	-55.45	13.25	-45.40	239.23	218.24	20.99	11.396	
3,900.00	3,888.16	3,912.96	3,910.09	8.15	13.35	-56.41	4.64	-39.65	230.08	208.64	21.44	10.733	
4,000.00	3,988.16	4,015.22	4,011.72	8.25	13.72	-57.00	-3.39	-31.62	219.19	197.31	21.88	10.018	
4,100.00	4,088.16	4,114.68	4,110.49	8.34	14.08	-57.38	-10.86	-22.62	207.52	185.19	22.33	9.295	
4,200.00	4,188.16	4,210.50	4,205.69	8.44	14.43	-58.22	-18.86	-15.46	196.75	173.97	22.78	8.636	
4,300.00	4,288.16	4,304.30	4,298.96	8.53	14.77	-60.14	-28.32	-12.21	188.59	165.35	23.24	8.116	
4,400.00	4,388.16	4,397.81	4,391.91	8.63	15.11	-62.97	-38.47	-12.74	183.89	160.22	23.67	7.769	
4,491.19	4,479.35	4,484.03	4,477.85	8.71	15.42	-65.11	-45.10	-14.72	182.69	158.64	24.05	7.596	
4,500.00	4,488.16	4,492.48	4,486.28	8.72	15.45	-65.27	-45.56	-14.94	182.70	158.61	24.09	7.585	
4,600.00	4,588.16	4,590.61	4,584.33	8.82	15.79	-66.40	-48.40	-17.42	183.81	159.29	24.52	7.498	
4,700.00	4,688.16	4,693.04	4,686.74	8.91	16.14	-66.40	-48.15	-18.07	184.50	159.53	24.97	7.389	
4,800.00	4,788.16	4,796.96	4,790.59	9.00	16.50	-65.22	-45.10	-15.58	183.52	158.09	25.43	7.217	
4,900.00	4,888.16	4,901.80	4,895.22	9.10	16.86	-63.51	-41.76	-10.02	180.10	154.22	25.89	6.958	
5,000.00	4,988.16	5,002.56	4,995.80	9.19	17.21	-62.71	-41.97	-4.13	174.79	148.46	26.33	6.638	
5,100.00	5,088.16	5,101.93	5,095.03	9.29	17.57	-63.07	-45.24	-0.13	169.72	142.94	26.78	6.338	
5,200.00	5,188.16	5,201.31	5,194.25	9.38	17.93	-64.17	-50.20	2.69	164.95	137.72	27.22	6.059	
5,300.00	5,288.16	5,300.21	5,293.01	9.47	18.29	-65.18	-54.60	5.27	160.68	133.02	27.67	5.807	
5,400.00	5,388.16	5,400.58	5,393.27	9.56	18.65	-66.03	-58.41	8.00	156.65	128.53	28.12	5.571	
5,500.00	5,488.16	5,502.30	5,494.87	9.66	19.01	-66.76	-62.13	11.56	151.97	123.40	28.57	5.320	
5,600.00	5,588.16	5,604.21	5,596.49	9.75	19.38	-68.26	-68.18	16.07	145.60	116.59	29.02	5.018	
5,700.00	5,688.16	5,704.02	5,695.98	9.84	19.75	-70.03	-74.66	20.69	138.95	109.49	29.46	4.716	
5,800.00	5,788.16	5,803.06	5,794.71	9.93	20.11	-71.86	-80.89	25.54	132.27	102.36	29.91	4.422	
5,900.00	5,888.16	5,901.68	5,893.07	10.02	20.47	-73.97	-87.00	29.15	126.94	96.57	30.36	4.180	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 114H(AC) - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 177-3_MWD+HRGM													Offset Well Error: 0.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,000.00	5,988.16	6,001.37	5,992.51	10.12	20.83	-76.33	-93.21	32.63	121.96	91.15	30.81	3.958	
6,100.00	6,088.16	6,100.73	6,091.64	10.21	21.20	-78.75	-99.11	35.94	117.42	86.16	31.26	3.756	
6,200.00	6,188.16	6,200.39	6,191.11	10.30	21.56	-81.09	-104.45	39.07	113.39	81.68	31.71	3.576	
6,300.00	6,288.16	6,300.12	6,290.65	10.39	21.92	-83.50	-109.61	42.20	109.58	77.42	32.16	3.407	
6,400.00	6,388.16	6,398.80	6,389.10	10.48	22.28	-86.68	-115.84	44.75	106.46	73.85	32.61	3.265	
6,500.00	6,488.16	6,498.03	6,487.96	10.57	22.65	-91.29	-124.36	46.23	104.81	71.75	33.06	3.170	
6,600.00	6,588.16	6,597.71	6,587.24	10.66	23.01	-96.10	-133.05	47.68	103.91	70.41	33.51	3.101	
6,643.32	6,631.47	6,640.61	6,629.97	10.70	23.17	-98.20	-136.79	48.28	103.78	70.08	33.70	3.079	
6,700.00	6,688.16	6,696.61	6,685.76	10.75	23.37	-100.86	-141.60	48.85	104.02	70.07	33.95	3.064 ES	
6,800.00	6,788.16	6,794.69	6,783.56	10.84	23.73	-104.85	-149.14	48.66	105.92	71.54	34.38	3.081	
6,900.00	6,888.16	6,893.25	6,881.95	10.93	24.08	-107.09	-154.17	46.36	109.58	74.77	34.81	3.148	
7,000.00	6,988.16	6,994.04	6,982.65	11.02	24.43	-107.91	-156.87	43.07	113.50	78.25	35.25	3.220	
7,100.00	7,088.16	7,094.19	7,082.72	11.11	24.76	-107.31	-156.78	39.44	116.92	81.24	35.68	3.277	
7,200.00	7,188.16	7,193.87	7,182.23	11.20	25.09	-105.05	-153.26	34.77	120.44	84.34	36.10	3.336	
7,300.00	7,288.16	7,293.96	7,282.11	11.29	25.42	-102.55	-148.95	29.91	124.13	87.61	36.52	3.399	
7,400.00	7,388.16	7,394.10	7,382.07	11.38	25.75	-100.29	-144.81	25.40	127.73	90.78	36.95	3.457	
7,500.00	7,488.16	7,493.91	7,481.69	11.47	26.08	-98.20	-140.74	21.03	131.41	94.04	37.37	3.517	
7,600.00	7,588.16	7,593.70	7,581.32	11.56	26.41	-96.38	-137.02	16.64	135.30	97.51	37.79	3.580	
7,700.00	7,688.16	7,693.87	7,681.35	11.65	26.75	-94.95	-133.99	12.40	139.22	101.00	38.22	3.643	
7,800.00	7,788.16	7,794.58	7,781.97	11.74	27.08	-94.11	-132.24	8.63	142.81	104.16	38.65	3.695	
7,900.00	7,888.16	7,895.72	7,883.07	11.83	27.43	-93.87	-131.83	5.68	145.70	106.60	39.09	3.727	
8,000.00	7,988.16	7,996.60	7,983.92	11.92	27.78	-94.06	-132.47	3.60	147.80	108.26	39.54	3.738	
8,100.00	8,088.16	8,098.74	8,086.05	12.01	28.13	-94.40	-133.44	2.33	149.11	109.12	39.99	3.729	
8,200.00	8,188.16	8,200.28	8,187.59	12.10	28.47	-94.07	-132.56	2.51	148.87	108.45	40.42	3.683	
8,300.00	8,288.16	8,301.39	8,288.68	12.19	28.82	-93.57	-131.20	3.42	147.88	107.02	40.86	3.619	
8,400.00	8,388.16	8,402.11	8,389.39	12.28	29.17	-93.22	-130.22	5.01	146.24	104.95	41.29	3.541	
8,500.00	8,488.16	8,503.09	8,490.34	12.36	29.52	-93.03	-129.61	7.21	144.04	102.31	41.73	3.452	
8,600.00	8,588.16	8,602.70	8,589.92	12.45	29.87	-92.93	-129.24	9.62	141.61	99.44	42.17	3.358	
8,700.00	8,688.16	8,702.91	8,690.10	12.54	30.22	-92.85	-128.92	11.99	139.22	96.62	42.61	3.268	
8,800.00	8,788.16	8,803.27	8,790.43	12.63	30.57	-92.90	-128.91	14.63	136.60	93.55	43.05	3.173	
8,900.00	8,888.16	8,903.42	8,890.53	12.72	30.92	-93.25	-129.58	17.51	133.76	90.27	43.49	3.076	
9,000.00	8,988.16	9,003.63	8,990.67	12.81	31.28	-94.19	-131.56	20.56	130.85	86.92	43.93	2.979	
9,100.00	9,088.16	9,103.18	9,090.09	12.89	31.64	-95.93	-135.17	24.11	127.62	83.25	44.37	2.876	
9,200.00	9,188.16	9,200.90	9,187.73	12.98	31.99	-97.56	-138.58	26.05	126.05	81.24	44.81	2.813	
9,300.00	9,288.16	9,300.23	9,287.02	13.07	32.34	-98.90	-141.41	27.01	125.50	80.25	45.25	2.773	
9,352.78	9,340.93	9,352.68	9,339.43	13.12	32.53	-99.72	-143.17	27.38	125.42	79.94	45.48	2.757	
9,400.00	9,388.16	9,399.79	9,386.51	13.16	32.70	-100.56	-144.98	27.67	125.45	79.76	45.69	2.745	
9,500.00	9,488.16	9,499.41	9,486.04	13.25	33.05	-102.43	-149.06	28.23	125.72	79.58	46.13	2.725	
9,600.00	9,588.16	9,597.75	9,584.36	13.33	33.40	-103.38	-151.31	27.80	126.66	80.09	46.56	2.720 SF	
9,700.00	9,688.16	9,695.98	9,682.55	13.42	33.74	-103.50	-152.17	25.32	129.32	82.34	46.98	2.752	
9,800.00	9,788.16	9,794.20	9,780.69	13.51	34.08	-104.00	-154.15	22.05	133.03	85.62	47.40	2.806	
9,900.00	9,888.16	9,890.22	9,876.55	13.60	34.41	-104.80	-157.31	17.38	138.57	90.77	47.80	2.899	
10,000.00	9,988.16	9,981.49	9,966.90	13.68	34.71	-101.78	-152.13	6.47	148.96	100.84	48.11	3.096	
10,100.00	10,088.16	10,071.04	10,051.43	13.77	34.98	-92.52	-129.14	-10.94	165.88	117.58	48.30	3.434	
10,200.00	10,188.16	10,155.38	10,122.67	13.86	35.21	-78.98	-87.38	-26.83	192.13	143.93	48.20	3.986	
10,300.00	10,288.16	10,229.38	10,178.64	13.95	35.41	-66.57	-40.25	-37.68	232.27	184.49	47.78	4.861	
10,400.00	10,388.16	10,295.07	10,225.59	14.03	35.58	-57.14	5.00	-45.63	284.14	236.83	47.31	6.006	
10,500.00	10,488.16	10,343.00	10,258.40	14.12	35.71	-51.34	39.52	-50.89	344.89	298.22	46.67	7.390	
10,600.00	10,588.16	10,399.87	10,295.21	14.21	35.87	-45.50	82.43	-57.00	412.31	365.83	46.47	8.872	
10,700.00	10,687.90	10,438.00	10,318.26	14.31	35.97	-42.76	112.51	-61.21	482.93	436.88	46.05	10.487	
10,800.00	10,785.20	10,487.56	10,345.83	14.48	36.12	-35.17	153.36	-66.32	549.06	503.20	45.86	11.973	
10,900.00	10,877.13	10,533.00	10,368.37	14.64	36.25	-30.19	192.61	-70.26	608.96	563.36	45.61	13.352	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 114H(AC) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft	
Survey Program:		177-3_MWD+HRGM		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
11,000.00	10,960.87	10,609.27	10,402.65	14.80	36.47	-26.53	260.61	-74.00	659.50	613.73	45.77	14.408			
11,100.00	11,033.90	10,662.34	10,424.35	14.93	36.64	-24.32	309.03	-74.53	699.05	653.42	45.63	15.320			
11,200.00	11,093.98	10,722.00	10,444.11	15.05	36.83	-22.98	365.30	-75.48	730.29	684.68	45.61	16.011			
11,300.00	11,139.30	10,751.49	10,451.80	15.17	36.92	-22.21	393.76	-76.07	752.29	706.87	45.42	16.563			
11,400.00	11,168.47	10,817.00	10,463.02	15.33	37.13	-22.07	458.24	-77.21	766.88	721.26	45.62	16.809			
11,500.00	11,180.61	10,844.51	10,465.73	15.60	37.23	-22.17	485.61	-77.69	770.91	725.13	45.79	16.838			
11,600.00	11,180.28	10,911.00	10,469.93	16.06	37.45	-22.85	551.94	-79.37	769.19	723.03	46.16	16.663			
11,700.00	11,179.41	11,005.75	10,473.72	16.68	37.81	-23.58	646.57	-82.43	768.36	721.73	46.64	16.475			
11,800.00	11,178.53	11,101.99	10,477.71	17.40	38.22	-24.13	742.65	-86.13	766.38	719.24	47.15	16.255			
11,900.00	11,177.66	11,195.00	10,481.99	18.16	38.67	-24.55	835.46	-90.56	763.21	715.53	47.68	16.008			
11,984.33	11,176.93	11,262.57	10,484.22	18.88	39.02	-24.85	902.88	-94.34	761.77	713.61	48.15	15.819			
12,000.00	11,176.79	11,273.71	10,484.35	19.01	39.07	-24.90	914.00	-95.02	761.81	713.56	48.24	15.791			
12,100.00	11,175.92	11,361.76	10,484.20	19.91	39.56	-25.24	1,001.87	-100.59	763.42	714.54	48.87	15.620			
12,200.00	11,175.05	11,459.59	10,483.47	20.87	40.14	-25.62	1,099.48	-107.17	765.79	716.21	49.58	15.446			
12,300.00	11,174.18	11,551.63	10,482.26	21.88	40.73	-25.96	1,191.31	-113.27	768.66	718.34	50.32	15.274			
12,400.00	11,173.31	11,670.01	10,479.05	22.92	41.52	-26.08	1,309.57	-117.20	771.43	720.35	51.08	15.103			
12,500.00	11,172.44	11,820.54	10,479.37	24.00	42.60	-25.84	1,460.03	-114.33	769.18	717.36	51.82	14.843			
12,600.00	11,171.56	11,936.78	10,484.32	25.10	43.48	-25.61	1,576.06	-109.12	762.12	709.55	52.57	14.497			
12,700.00	11,170.69	12,019.52	10,487.69	26.23	44.14	-25.44	1,658.64	-105.52	755.41	702.07	53.34	14.163			
12,800.00	11,169.82	12,104.56	10,489.50	27.39	44.83	-25.33	1,743.64	-103.44	751.21	697.06	54.16	13.871			
12,900.00	11,168.95	12,195.79	10,490.55	28.56	45.60	-25.25	1,834.85	-102.41	748.49	693.46	55.03	13.601			
13,000.00	11,168.08	12,280.59	10,490.51	29.75	46.35	-25.17	1,919.65	-101.74	747.05	691.12	55.93	13.358			
13,005.78	11,168.03	12,285.08	10,490.43	29.82	46.39	-25.17	1,924.14	-101.68	747.04	691.06	55.98	13.346			
13,100.00	11,167.21	12,364.62	10,487.60	30.96	47.10	-24.95	2,003.62	-100.37	748.24	691.45	56.79	13.176			
13,200.00	11,166.34	12,460.75	10,483.18	32.17	47.99	-24.64	2,099.62	-98.43	750.38	692.74	57.64	13.018			
13,300.00	11,165.47	12,567.78	10,478.01	33.41	49.01	-24.33	2,206.51	-96.96	753.07	694.54	58.52	12.868			
13,400.00	11,164.60	12,673.19	10,476.06	34.65	50.04	-24.23	2,311.91	-96.90	753.50	693.99	59.51	12.661			
13,500.00	11,163.72	12,763.91	10,473.54	35.90	50.95	-24.15	2,402.59	-97.44	755.08	694.55	60.52	12.476			
13,600.00	11,162.85	12,856.59	10,470.10	37.16	51.89	-24.06	2,495.20	-98.17	757.61	696.06	61.55	12.309			
13,700.00	11,161.98	12,968.01	10,465.66	38.43	53.05	-23.95	2,606.52	-99.29	760.54	697.93	62.61	12.148			
13,800.00	11,161.11	13,106.82	10,466.13	39.70	54.52	-24.05	2,745.30	-101.21	759.64	695.84	63.79	11.908			
13,900.00	11,160.24	13,199.98	10,468.32	40.98	55.53	-24.16	2,838.43	-102.43	756.82	691.80	65.01	11.641			
14,000.00	11,159.37	13,291.39	10,470.22	42.27	56.54	-24.32	2,929.80	-104.44	754.64	688.36	66.28	11.385			
14,070.53	11,158.75	13,350.38	10,470.64	43.18	57.19	-24.42	2,988.76	-105.96	754.10	686.93	67.18	11.225			
14,100.00	11,158.50	13,375.05	10,470.49	43.56	57.47	-24.45	3,013.42	-106.54	754.20	686.66	67.54	11.166			
14,200.00	11,157.63	13,493.04	10,470.10	44.86	58.79	-24.50	3,131.40	-108.14	753.92	685.12	68.80	10.958			
14,300.00	11,156.75	13,607.14	10,474.37	46.16	60.10	-24.79	3,245.37	-111.06	750.27	680.03	70.24	10.682			
14,400.00	11,155.88	13,693.06	10,477.62	47.46	61.09	-25.14	3,331.13	-115.08	747.62	675.86	71.76	10.419			
14,486.74	11,155.13	13,766.21	10,479.43	48.60	61.95	-25.47	3,404.13	-119.34	746.82	673.71	73.11	10.215			
14,500.00	11,155.01	13,776.01	10,479.55	48.77	62.07	-25.51	3,413.92	-119.95	746.86	673.55	73.31	10.188			
14,600.00	11,154.14	13,850.62	10,479.00	50.08	62.95	-25.81	3,488.36	-124.89	749.19	674.39	74.80	10.016			
14,700.00	11,153.27	13,950.82	10,475.90	51.40	64.14	-26.04	3,588.36	-130.38	753.16	676.84	76.32	9.869			
14,800.00	11,152.40	14,051.27	10,472.56	52.72	65.35	-26.22	3,688.64	-135.08	757.01	679.20	77.81	9.729			
14,900.00	11,151.53	14,144.71	10,469.20	54.04	66.49	-26.40	3,781.89	-139.94	761.33	682.02	79.31	9.600			
15,000.00	11,150.66	14,242.13	10,465.00	55.36	67.68	-26.58	3,879.08	-145.14	766.37	685.53	80.84	9.481			
15,100.00	11,149.79	14,363.41	10,460.18	56.69	69.17	-26.67	4,000.17	-149.60	770.44	688.05	82.38	9.352			
15,200.00	11,148.91	14,479.98	10,458.77	58.02	70.61	-26.73	4,116.72	-151.76	771.05	687.17	83.87	9.193			
15,300.00	11,148.04	14,589.78	10,458.54	59.35	71.96	-26.79	4,226.50	-153.38	770.71	685.34	85.36	9.029			
15,400.00	11,147.17	14,711.23	10,460.34	60.68	73.47	-26.80	4,347.94	-153.25	768.12	681.33	86.79	8.850			
15,500.00	11,146.30	14,808.32	10,462.91	62.01	74.68	-26.80	4,444.99	-152.48	764.20	675.96	88.24	8.661			
15,600.00	11,145.43	14,890.00	10,463.64	63.35	75.71	-26.77	4,526.66	-152.10	761.95	672.28	89.67	8.497			
15,643.86	11,145.05	14,925.06	10,463.30	63.93	76.15	-26.74	4,561.72	-152.01	761.74	671.47	90.27	8.439			

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 114H(AC) - Wellbore #1 - Wellbore #1											Offset Site Error: 0.00 usft
Survey Program: 177-3_MWD+HRGM											Offset Well Error: 0.00 usft
Reference											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	
									Minimum Separation (usft)	Separation Factor	
15,700.00	11,144.56	14,972.03	10,462.23	64.68	76.74	-26.67	4,608.67	-151.77	762.08	671.08	91.00 8.375
15,800.00	11,143.69	15,052.61	10,458.72	66.02	77.76	-26.50	4,689.18	-151.32	764.52	672.32	92.20 8.292
15,900.00	11,142.82	15,166.23	10,452.30	67.36	79.21	-26.18	4,802.61	-150.40	768.11	674.77	93.34 8.229
16,000.00	11,141.95	15,252.53	10,447.75	68.70	80.32	-25.89	4,888.76	-148.69	770.81	676.40	94.42 8.164
16,100.00	11,141.07	15,380.98	10,441.40	70.04	81.96	-25.44	5,017.02	-145.75	773.17	677.76	95.41 8.104
16,200.00	11,140.20	15,499.44	10,440.13	71.39	83.48	-25.18	5,135.44	-143.15	772.00	675.45	96.54 7.996
16,300.00	11,139.33	15,603.81	10,441.46	72.73	84.83	-25.10	5,239.78	-141.86	769.11	671.22	97.89 7.857
16,400.00	11,138.46	15,698.75	10,443.06	74.08	86.06	-25.14	5,334.71	-142.27	766.57	667.16	99.41 7.711
16,500.00	11,137.59	15,784.56	10,444.04	75.42	87.18	-25.23	5,420.51	-143.56	765.03	664.03	101.00 7.575
16,512.26	11,137.48	15,794.16	10,444.02	75.59	87.31	-25.24	5,430.10	-143.75	765.01	663.82	101.19 7.560
16,600.00	11,136.72	15,865.82	10,442.86	76.77	88.25	-25.28	5,501.74	-145.33	766.04	663.52	102.51 7.472
16,700.00	11,135.85	15,952.59	10,439.85	78.12	89.39	-25.29	5,588.42	-147.33	768.97	665.01	103.96 7.397
16,800.00	11,134.98	16,038.91	10,435.12	79.47	90.54	-25.24	5,674.59	-149.40	773.74	668.43	105.31 7.347
16,900.00	11,134.10	16,133.97	10,428.54	80.82	91.80	-25.12	5,769.41	-151.20	779.62	673.02	106.60 7.313
17,000.00	11,133.23	16,229.66	10,421.13	82.17	93.08	-24.96	5,864.80	-152.77	786.14	678.31	107.83 7.290
17,100.00	11,132.36	16,338.75	10,413.12	83.52	94.53	-24.83	5,973.56	-155.13	792.54	683.35	109.19 7.258
17,200.00	11,131.49	16,461.94	10,406.86	84.87	96.18	-24.69	6,096.59	-156.56	796.42	685.83	110.59 7.202
17,300.00	11,130.62	16,584.61	10,402.71	86.23	97.81	-24.41	6,219.16	-154.86	797.75	686.05	111.70 7.142
17,344.23	11,130.23	16,627.22	10,401.76	86.83	98.37	-24.29	6,261.75	-153.71	797.63	685.46	112.18 7.111
17,400.00	11,129.75	16,677.14	10,400.21	87.58	99.04	-24.13	6,311.62	-152.14	797.83	685.09	112.74 7.076
17,500.00	11,128.88	16,765.57	10,396.43	88.93	100.21	-23.80	6,399.92	-149.37	799.29	685.58	113.71 7.029
17,600.00	11,128.01	16,849.89	10,391.63	90.29	101.34	-23.51	6,484.08	-147.43	802.41	687.74	114.67 6.998
17,700.00	11,127.14	16,961.18	10,384.35	91.64	102.83	-23.10	6,595.10	-145.10	806.48	690.93	115.56 6.979
17,800.00	11,126.26	17,068.00	10,379.53	93.00	104.26	-22.75	6,701.78	-142.33	808.43	691.95	116.48 6.941
17,900.00	11,125.39	17,163.00	10,375.02	94.36	105.54	-22.41	6,796.64	-139.57	810.54	693.16	117.38 6.905
18,000.00	11,124.52	17,266.88	10,369.56	95.71	106.93	-22.00	6,900.32	-136.08	812.98	694.79	118.18 6.879
18,100.00	11,123.65	17,372.01	10,365.37	97.07	108.35	-21.72	7,005.33	-134.25	814.87	695.67	119.20 6.836
18,200.00	11,122.78	17,471.00	10,362.21	98.43	109.69	-21.67	7,104.30	-134.84	815.96	695.41	120.55 6.769
18,300.00	11,121.91	17,566.00	10,360.44	99.78	110.99	-21.67	7,199.24	-136.52	818.14	696.16	121.98 6.707
18,400.00	11,121.04	17,651.62	10,356.77	101.14	112.16	-21.69	7,284.75	-138.85	821.87	698.45	123.42 6.659
18,500.00	11,120.17	17,750.91	10,352.67	102.50	113.52	-21.78	7,383.89	-142.45	825.88	700.85	125.02 6.606
18,600.00	11,119.30	17,842.90	10,348.67	103.86	114.79	-21.90	7,475.70	-146.45	830.37	703.73	126.65 6.557
18,700.00	11,118.42	17,933.25	10,343.91	105.22	116.03	-22.02	7,565.82	-150.88	835.93	707.66	128.27 6.517
18,800.00	11,117.55	18,056.70	10,338.53	106.58	117.74	-22.24	7,688.98	-157.21	840.76	710.50	130.26 6.454
18,900.00	11,116.68	18,161.84	10,336.05	107.94	119.19	-22.46	7,793.97	-162.35	843.62	711.46	132.16 6.383
19,000.00	11,115.81	18,259.42	10,333.53	109.30	120.53	-22.63	7,891.42	-166.73	846.56	712.59	133.96 6.319
19,100.00	11,114.94	18,360.47	10,331.00	110.66	121.93	-22.82	7,992.33	-171.41	849.48	713.66	135.82 6.254
19,200.00	11,114.07	18,461.02	10,328.49	112.02	123.32	-22.99	8,092.74	-175.89	852.34	714.68	137.67 6.191
19,300.00	11,113.20	18,561.72	10,326.17	113.38	124.72	-23.19	8,193.31	-180.59	855.11	715.55	139.56 6.127
19,400.00	11,112.33	18,660.61	10,323.05	114.74	126.09	-23.23	8,292.11	-183.18	857.87	716.72	141.15 6.078
19,500.00	11,111.45	18,760.00	10,319.02	116.10	127.46	-23.15	8,391.41	-184.15	860.81	718.31	142.50 6.041
19,600.00	11,110.58	18,857.80	10,314.96	117.47	128.81	-23.06	8,489.13	-185.02	863.80	719.98	143.82 6.006
19,700.00	11,109.71	18,956.03	10,310.50	118.83	130.17	-22.96	8,587.26	-185.83	867.12	722.01	145.11 5.975
19,800.00	11,108.84	19,055.76	10,306.02	120.19	131.55	-22.87	8,686.87	-186.94	870.52	724.07	146.45 5.944
19,900.00	11,107.97	19,156.93	10,301.73	121.55	132.96	-22.82	8,787.94	-188.53	873.87	726.01	147.86 5.910
20,000.00	11,107.10	19,267.01	10,297.56	122.92	134.48	-22.76	8,897.94	-189.81	876.65	727.38	149.27 5.873
20,100.00	11,106.23	19,365.00	10,294.51	124.28	135.84	-22.71	8,995.87	-190.86	878.76	728.09	150.67 5.832
20,200.00	11,105.36	19,446.50	10,290.97	125.64	136.98	-22.65	9,077.29	-191.84	882.07	730.12	151.96 5.805
20,300.00	11,104.49	19,540.43	10,285.20	127.01	138.29	-22.53	9,171.04	-192.82	886.97	733.81	153.17 5.791
20,400.00	11,103.61	19,637.65	10,278.68	128.37	139.64	-22.37	9,268.04	-193.39	892.23	737.93	154.29 5.783
20,500.00	11,102.74	19,737.54	10,271.62	129.73	141.03	-22.17	9,367.68	-193.52	897.65	742.30	155.35 5.778
20,600.00	11,101.87	19,825.74	10,265.24	131.10	142.26	-22.05	9,455.63	-194.60	903.66	747.18	156.47 5.775

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 114H(AC) - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 177-3_MWD+HRGM													Offset Well Error: 0.00 usft
Reference	Offset	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	
20,700.00	11,101.00	19,967.80	10,256.92	132.46	144.24	-21.83	9,597.43	-195.13	908.08	750.34	157.74	5.757	
20,800.00	11,100.13	20,090.60	10,254.17	133.83	145.94	-21.70	9,720.19	-194.71	908.87	749.92	158.96	5.718	
20,900.00	11,099.26	20,217.21	10,254.81	135.19	147.70	-21.62	9,846.80	-193.90	907.01	746.82	160.19	5.662	
21,000.00	11,098.39	20,328.66	10,258.51	136.56	149.26	-21.69	9,958.18	-194.35	902.90	741.11	161.79	5.581	
21,100.00	11,097.52	20,429.41	10,262.78	137.92	150.66	-21.82	10,058.84	-195.35	898.17	734.59	163.58	5.491	
21,200.00	11,096.65	20,534.33	10,266.91	139.29	152.12	-21.88	10,163.67	-195.41	893.39	728.19	165.20	5.408	
21,300.00	11,095.77	20,662.56	10,274.27	140.65	153.91	-21.96	10,291.68	-194.47	886.67	720.09	166.58	5.323	
21,400.00	11,094.90	20,725.00	10,278.70	142.02	154.78	-21.98	10,353.96	-193.53	879.08	710.54	168.54	5.216	
21,437.62	11,094.58	20,725.00	10,278.70	142.53	154.78	-21.98	10,353.96	-193.53	878.27	709.03	169.24	5.189	
21,455.42	11,094.42	20,725.00	10,278.70	142.77	154.78	-21.98	10,353.96	-193.53	878.45	708.97	169.48	5.183	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 134H(AC) - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 176-3_MWD+HRGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		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	
0.00	0.00	0.00	0.00	0.00	0.00	-90.88	-2.00	-130.00	130.02				
100.00	100.00	98.90	98.90	0.50	0.15	-90.93	-2.11	-130.04	130.05	129.40	0.66	198.519	
200.00	200.00	198.49	198.49	1.31	0.35	-91.08	-2.44	-130.17	130.20	128.53	1.66	78.347	
300.00	300.00	298.52	298.51	1.79	0.71	-91.47	-3.35	-130.76	130.80	128.30	2.50	52.364	
400.00	400.00	399.17	399.16	2.17	1.07	-91.84	-4.21	-130.82	130.89	127.66	3.23	40.472	
440.92	440.92	439.93	439.92	2.30	1.21	-91.91	-4.37	-130.77	130.84	127.33	3.51	37.261	
500.00	500.00	498.32	498.31	2.49	1.42	-92.06	-4.71	-130.91	131.00	127.09	3.91	33.501	
600.00	600.00	599.21	599.20	2.78	1.78	-92.37	-5.43	-131.18	131.29	126.74	4.56	28.802	
700.00	700.00	699.24	699.22	3.04	2.13	-92.88	-6.58	-130.95	131.11	125.93	5.18	25.313	
764.92	764.92	764.35	764.31	3.11	2.37	137.74	-7.77	-130.73	131.16	125.68	5.48	23.924	
800.00	800.00	799.45	799.41	3.15	2.49	137.46	-8.44	-130.57	131.09	125.44	5.65	23.219 ES	
900.00	899.96	899.15	899.08	3.43	2.85	137.30	-10.52	-130.30	132.87	126.62	6.25	21.247	
1,000.00	999.82	999.88	999.78	3.70	3.21	137.71	-13.01	-129.76	136.35	129.49	6.85	19.892	
1,100.00	1,099.51	1,100.55	1,100.41	3.95	3.58	138.71	-15.69	-128.58	141.17	133.72	7.45	18.953	
1,200.00	1,198.96	1,199.73	1,199.55	4.20	3.93	140.37	-18.03	-127.08	147.69	139.65	8.04	18.377	
1,300.00	1,298.11	1,298.52	1,298.33	4.36	4.28	142.87	-19.23	-126.45	157.28	148.72	8.56	18.381	
1,400.00	1,397.13	1,398.13	1,397.93	4.56	4.64	145.36	-20.39	-125.47	167.55	158.43	9.12	18.374	
1,500.00	1,496.16	1,496.68	1,496.46	4.75	4.99	147.42	-21.91	-124.68	178.25	168.57	9.68	18.422	
1,600.00	1,595.18	1,594.97	1,594.75	4.94	5.34	149.46	-22.63	-124.28	189.64	179.41	10.23	18.537	
1,700.00	1,694.21	1,694.21	1,693.99	5.14	5.70	151.24	-23.44	-124.15	201.51	190.73	10.79	18.683	
1,800.00	1,793.24	1,793.98	1,793.76	5.33	6.05	153.03	-23.62	-123.63	213.30	201.97	11.34	18.814	
1,900.00	1,892.26	1,893.52	1,893.29	5.52	6.39	154.65	-23.77	-122.82	225.01	213.12	11.89	18.929	
2,000.00	1,991.29	1,992.96	1,992.73	5.72	6.74	156.09	-24.01	-121.89	236.72	224.29	12.44	19.036	
2,100.00	2,090.31	2,091.40	2,091.17	5.91	7.08	157.47	-23.86	-120.90	248.62	235.65	12.97	19.163	
2,200.00	2,189.39	2,193.09	2,192.84	6.04	7.44	158.84	-23.50	-119.56	260.03	246.57	13.46	19.319	
2,300.00	2,288.77	2,291.23	2,290.97	6.26	7.77	159.95	-22.95	-117.84	269.00	254.98	14.02	19.186	
2,400.00	2,388.40	2,395.09	2,394.80	6.48	8.14	160.63	-23.52	-115.96	275.17	260.56	14.60	18.843	
2,500.00	2,488.22	2,500.44	2,500.03	6.69	8.52	160.47	-27.61	-113.08	276.87	261.69	15.19	18.230	
2,600.00	2,588.16	2,599.20	2,598.66	6.89	8.88	160.21	-31.24	-109.73	275.58	259.85	15.74	17.513	
2,700.00	2,688.16	2,699.94	2,699.30	6.97	9.24	-71.21	-34.37	-106.55	272.32	256.14	16.18	16.833	
2,800.00	2,788.16	2,803.49	2,802.63	7.07	9.62	-71.97	-39.58	-102.26	266.78	250.14	16.65	16.026	
2,900.00	2,888.16	2,901.38	2,900.31	7.17	9.97	-72.77	-44.69	-98.32	261.36	244.27	17.10	15.286	
3,000.00	2,988.16	2,999.60	2,998.37	7.27	10.33	-73.47	-49.02	-94.84	256.69	239.14	17.55	14.624	
3,100.00	3,088.16	3,096.62	3,095.29	7.37	10.68	-73.93	-52.06	-91.73	252.74	234.74	18.00	14.046	
3,200.00	3,188.16	3,192.48	3,191.06	7.47	11.03	-74.68	-55.84	-90.46	250.39	231.95	18.43	13.584	
3,300.00	3,288.16	3,290.66	3,289.11	7.57	11.38	-75.88	-61.15	-90.86	249.41	230.53	18.88	13.212	
3,400.00	3,388.16	3,390.01	3,388.31	7.66	11.74	-77.07	-66.36	-91.41	248.72	229.39	19.33	12.870	
3,500.00	3,488.16	3,490.04	3,488.21	7.76	12.10	-78.25	-71.42	-92.17	248.37	228.60	19.78	12.558	
3,600.00	3,588.16	3,589.43	3,587.50	7.86	12.45	-79.29	-75.90	-92.67	247.99	227.77	20.23	12.260	
3,700.00	3,688.16	3,689.79	3,687.77	7.96	12.81	-80.23	-79.93	-93.31	247.90	227.22	20.68	11.986	
3,800.00	3,788.16	3,794.16	3,792.06	8.05	13.19	-81.15	-84.01	-92.95	246.93	225.78	21.16	11.672	
3,900.00	3,888.16	3,900.05	3,897.81	8.15	13.57	-82.18	-88.88	-90.28	243.77	222.14	21.63	11.269	
4,000.00	3,988.16	3,997.00	3,994.65	8.25	13.92	-82.74	-91.69	-86.93	239.97	217.89	22.07	10.871	
4,100.00	4,088.16	4,095.18	4,092.77	8.34	14.28	-83.19	-93.90	-84.45	237.19	214.67	22.52	10.532	
4,200.00	4,188.16	4,191.08	4,188.61	8.44	14.62	-84.00	-97.38	-83.42	235.71	212.75	22.96	10.268	
4,261.57	4,249.73	4,251.24	4,248.73	8.50	14.84	-84.51	-99.48	-83.44	235.52	212.30	23.23	10.140	
4,300.00	4,288.16	4,281.00	4,278.47	8.53	14.94	-84.73	-100.38	-83.57	235.73	212.38	23.34	10.099	
4,400.00	4,388.16	4,376.00	4,373.36	8.63	15.27	-85.10	-101.55	-87.41	239.68	215.94	23.74	10.097	
4,500.00	4,488.16	4,468.10	4,465.15	8.72	15.57	-85.03	-100.60	-94.90	247.81	223.72	24.08	10.289	
4,600.00	4,588.16	4,574.29	4,571.01	8.82	15.92	-84.63	-98.14	-102.94	255.57	231.00	24.57	10.401	
4,700.00	4,688.16	4,686.05	4,682.62	8.91	16.28	-83.90	-94.46	-106.82	259.33	234.24	25.08	10.338	
4,800.00	4,788.16	4,793.33	4,789.77	9.00	16.64	-82.73	-89.13	-106.76	259.86	234.31	25.55	10.172	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 134H(AC) - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 176-3_MWD+HRGM													Offset Well Error: 0.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,888.16	4,898.02	4,894.33	9.10	16.99	-81.77	-85.16	-103.72	257.47	231.47	25.99	9.905	
5,000.00	4,988.16	4,998.12	4,994.36	9.19	17.33	-81.15	-82.84	-100.58	254.72	228.29	26.43	9.637	
5,100.00	5,088.16	5,098.74	5,094.90	9.29	17.67	-80.56	-80.74	-97.24	251.76	224.90	26.87	9.370	
5,200.00	5,188.16	5,196.65	5,192.75	9.38	18.01	-80.09	-79.18	-94.18	248.95	221.65	27.30	9.119	
5,300.00	5,288.16	5,294.90	5,290.98	9.47	18.36	-79.96	-78.91	-92.31	247.13	219.39	27.74	8.910	
5,400.00	5,388.16	5,396.22	5,392.28	9.56	18.71	-79.87	-78.85	-90.55	245.43	217.24	28.18	8.708	
5,500.00	5,488.16	5,496.37	5,492.41	9.66	19.06	-79.79	-78.90	-88.34	243.25	214.62	28.63	8.496	
5,600.00	5,588.16	5,596.58	5,592.60	9.75	19.42	-79.71	-78.96	-86.11	241.05	211.97	29.07	8.291	
5,700.00	5,688.16	5,696.00	5,691.99	9.84	19.77	-79.64	-79.08	-83.89	238.83	209.31	29.52	8.091	
5,800.00	5,788.16	5,795.32	5,791.29	9.93	20.12	-79.61	-79.27	-81.99	236.92	206.96	29.96	7.908	
5,900.00	5,888.16	5,897.48	5,893.42	10.02	20.48	-79.58	-79.56	-79.65	234.61	204.20	30.41	7.715	
6,000.00	5,988.16	5,995.92	5,991.84	10.12	20.83	-79.76	-80.70	-77.52	232.27	201.42	30.85	7.528	
6,100.00	6,088.16	6,094.66	6,090.51	10.21	21.19	-80.46	-83.79	-76.33	230.54	199.25	31.30	7.367	
6,200.00	6,188.16	6,193.92	6,189.71	10.30	21.54	-81.31	-87.37	-75.65	229.30	197.56	31.74	7.224	
6,300.00	6,288.16	6,294.19	6,289.92	10.39	21.90	-82.17	-90.92	-75.05	228.19	196.00	32.19	7.089	
6,400.00	6,388.16	6,393.43	6,389.10	10.48	22.26	-82.98	-94.28	-74.19	226.90	194.27	32.63	6.953	
6,449.07	6,437.23	6,440.59	6,436.23	10.53	22.43	-83.32	-95.65	-74.15	226.69	193.85	32.84	6.903	
6,500.00	6,488.16	6,490.06	6,485.69	10.57	22.60	-83.65	-96.90	-74.47	226.87	193.81	33.06	6.863	
6,600.00	6,588.16	6,589.11	6,584.71	10.66	22.95	-84.23	-99.07	-75.76	227.93	194.44	33.49	6.805	
6,700.00	6,688.16	6,689.12	6,684.68	10.75	23.30	-84.81	-101.29	-76.91	228.87	194.93	33.93	6.744	
6,800.00	6,788.16	6,788.65	6,784.18	10.84	23.65	-85.39	-103.51	-78.39	230.15	195.78	34.37	6.696	
6,900.00	6,888.16	6,888.88	6,884.37	10.93	24.00	-86.06	-106.10	-79.82	231.39	196.57	34.81	6.647	
7,000.00	6,988.16	6,988.97	6,984.41	11.02	24.35	-86.73	-108.72	-81.18	232.58	197.32	35.25	6.597	
7,100.00	7,088.16	7,089.35	7,084.75	11.11	24.71	-87.38	-111.33	-82.45	233.70	198.01	35.70	6.547	
7,200.00	7,188.16	7,190.28	7,185.64	11.20	25.06	-88.04	-113.96	-83.42	234.56	198.42	36.15	6.489	
7,300.00	7,288.16	7,291.61	7,286.93	11.29	25.42	-88.71	-116.70	-83.89	234.95	198.35	36.60	6.420	
7,400.00	7,388.16	7,391.36	7,386.64	11.38	25.78	-89.37	-119.43	-84.05	235.06	198.02	37.04	6.346	
7,500.00	7,488.16	7,492.42	7,487.66	11.47	26.14	-90.12	-122.49	-84.09	235.09	197.60	37.49	6.270	
7,600.00	7,588.16	7,592.26	7,587.45	11.56	26.50	-90.90	-125.70	-83.91	234.94	197.00	37.94	6.193	
7,700.00	7,688.16	7,693.57	7,688.69	11.65	26.87	-91.77	-129.25	-83.29	234.41	196.02	38.39	6.106	
7,733.06	7,721.22	7,725.12	7,720.22	11.68	26.98	-92.07	-130.48	-83.15	234.30	195.77	38.53	6.081	
7,800.00	7,788.16	7,789.45	7,784.49	11.74	27.21	-92.72	-133.14	-83.45	234.73	195.92	38.82	6.047	
7,900.00	7,888.16	7,889.29	7,884.25	11.83	27.57	-93.67	-137.11	-84.50	236.00	196.74	39.26	6.011	
8,000.00	7,988.16	7,991.30	7,986.17	11.92	27.93	-94.66	-141.24	-84.99	236.77	197.06	39.72	5.962	
8,100.00	8,088.16	8,092.67	8,087.50	12.01	28.30	-95.34	-144.04	-84.93	236.96	196.79	40.17	5.899	
8,200.00	8,188.16	8,194.82	8,189.63	12.10	28.66	-95.84	-146.05	-84.13	236.37	195.75	40.62	5.819	
8,300.00	8,288.16	8,296.79	8,291.57	12.19	29.02	-96.21	-147.40	-82.47	234.89	193.81	41.07	5.719	
8,400.00	8,388.16	8,398.89	8,393.65	12.28	29.38	-96.06	-146.53	-80.20	232.59	191.08	41.51	5.603	
8,500.00	8,488.16	8,499.96	8,494.66	12.36	29.73	-95.86	-145.42	-77.12	229.44	187.49	41.95	5.470	
8,600.00	8,588.16	8,598.83	8,593.48	12.45	30.07	-95.72	-144.54	-74.09	226.31	183.93	42.38	5.340	
8,700.00	8,688.16	8,698.52	8,693.11	12.54	30.41	-95.13	-141.99	-71.71	223.69	180.88	42.81	5.225	
8,800.00	8,788.16	8,799.54	8,794.07	12.63	30.75	-94.63	-139.81	-69.00	220.83	177.59	43.24	5.107	
8,900.00	8,888.16	8,900.20	8,894.67	12.72	31.10	-94.55	-139.25	-65.70	217.52	173.84	43.68	4.980	
9,000.00	8,988.16	8,995.93	8,990.34	12.81	31.44	-95.02	-140.82	-63.04	214.89	170.78	44.11	4.872	
9,100.00	9,088.16	9,095.34	9,089.63	12.89	31.80	-96.32	-145.53	-61.39	213.70	169.15	44.55	4.796	
9,158.09	9,146.24	9,151.06	9,145.24	12.95	32.00	-97.23	-148.84	-60.62	213.32	168.52	44.80	4.761	
9,200.00	9,188.16	9,191.02	9,185.15	12.98	32.15	-97.76	-150.85	-60.55	213.52	168.54	44.98	4.747 SF	
9,300.00	9,288.16	9,286.23	9,280.27	13.07	32.48	-98.66	-154.46	-62.02	215.59	170.19	45.40	4.749	
9,400.00	9,388.16	9,380.58	9,374.51	13.16	32.81	-99.18	-157.06	-65.87	220.05	174.26	45.79	4.806	
9,500.00	9,488.16	9,478.40	9,472.13	13.25	33.15	-99.50	-159.28	-71.71	226.31	180.11	46.20	4.898	
9,600.00	9,588.16	9,580.45	9,573.97	13.33	33.49	-99.16	-158.94	-78.10	232.44	185.79	46.65	4.983	
9,700.00	9,688.16	9,678.77	9,672.05	13.42	33.82	-98.43	-156.89	-84.57	238.62	191.56	47.06	5.071	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 134H(AC) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program:		176-3_MWD+HRGM				Rule Assigned:				Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,800.00	9,788.16	9,778.82	9,771.88	13.51	34.15	-97.90	-155.59	-91.17	244.97	197.48	47.49	5.159		
9,900.00	9,888.16	9,880.91	9,873.77	13.60	34.49	-97.36	-154.07	-97.31	250.73	202.80	47.92	5.232		
10,000.00	9,988.16	9,981.66	9,974.38	13.68	34.83	-96.96	-152.97	-102.58	255.78	207.43	48.36	5.290		
10,100.00	10,088.16	10,082.29	10,074.86	13.77	35.17	-96.64	-152.15	-107.85	260.89	212.11	48.79	5.348		
10,200.00	10,188.16	10,182.11	10,174.56	13.86	35.51	-96.00	-149.69	-112.32	265.07	215.86	49.21	5.386		
10,300.00	10,288.16	10,278.14	10,270.38	13.95	35.83	-95.49	-147.86	-118.18	270.94	221.33	49.61	5.461		
10,400.00	10,388.16	10,379.56	10,371.62	14.03	36.17	-95.17	-146.92	-124.26	276.82	226.77	50.05	5.531		
10,500.00	10,488.16	10,486.99	10,478.91	14.12	36.54	-94.97	-146.38	-129.44	281.62	231.10	50.52	5.575		
10,600.00	10,588.16	10,596.70	10,588.60	14.21	36.91	-94.54	-144.37	-130.73	282.62	231.65	50.98	5.544		
10,638.66	10,626.80	10,636.71	10,628.58	14.25	37.04	-100.50	-143.05	-130.48	282.46	231.33	51.13	5.524		
10,700.00	10,687.90	10,697.13	10,688.98	14.31	37.25	-100.99	-141.24	-130.10	282.79	231.43	51.36	5.506		
10,800.00	10,785.20	10,795.36	10,787.17	14.48	37.58	-104.42	-138.68	-129.59	287.03	235.31	51.72	5.550		
10,900.00	10,877.13	10,884.30	10,876.06	14.64	37.88	-109.34	-136.02	-129.64	298.79	246.75	52.04	5.741		
11,000.00	10,960.87	10,965.50	10,957.20	14.80	38.15	-114.26	-132.97	-131.13	322.99	270.61	52.38	6.167		
11,100.00	11,033.90	11,037.83	11,029.45	14.93	38.40	-117.99	-130.44	-133.28	362.40	309.67	52.73	6.872		
11,200.00	11,093.98	11,096.23	11,087.82	15.05	38.60	-119.16	-129.51	-134.73	417.68	364.60	53.08	7.869		
11,300.00	11,139.30	11,139.92	11,131.47	15.17	38.74	-116.41	-128.70	-136.39	487.34	433.96	53.38	9.130		
11,400.00	11,168.47	11,170.40	11,161.88	15.33	38.85	-108.54	-127.70	-138.22	567.82	514.21	53.60	10.593		
11,500.00	11,180.61	11,185.73	11,177.15	15.60	38.90	-93.56	-127.07	-139.35	655.30	601.56	53.74	12.193		
11,600.00	11,180.28	11,189.66	11,181.07	16.06	38.91	-89.22	-126.89	-139.66	746.00	692.18	53.82	13.861		
11,700.00	11,179.41	11,193.69	11,185.08	16.68	38.93	-89.99	-126.70	-139.98	837.57	783.68	53.89	15.542		
11,800.00	11,178.53	11,198.50	11,189.87	17.40	38.94	-90.77	-126.47	-140.37	929.61	875.66	53.96	17.229		
11,900.00	11,177.66	11,204.19	11,195.53	18.16	38.96	-91.61	-126.18	-140.84	1,022.05	968.04	54.01	18.923		
12,000.00	11,176.79	11,210.62	11,201.93	19.01	38.98	-92.58	-125.83	-141.38	1,115.61	1,061.54	54.07	20.632		
12,100.00	11,175.92	13,143.54	12,272.57	19.91	45.52	-162.56	1,035.66	-120.24	1,150.57	1,097.33	53.25	21.608		
12,200.00	11,175.05	13,271.66	12,266.46	20.87	46.22	-162.16	1,163.37	-128.44	1,148.31	1,094.34	53.97	21.277		
12,300.00	11,174.18	13,378.12	12,260.08	21.88	46.85	-161.69	1,269.24	-137.60	1,145.82	1,091.19	54.63	20.974		
12,400.00	11,173.31	13,475.65	12,254.11	22.92	47.47	-161.37	1,366.40	-143.54	1,142.47	1,087.23	55.24	20.681		
12,500.00	11,172.44	13,571.47	12,249.85	24.00	48.10	-161.19	1,462.07	-146.91	1,139.90	1,084.05	55.85	20.410		
12,600.00	11,171.56	13,654.68	12,247.10	25.10	48.67	-161.13	1,545.21	-148.30	1,137.87	1,081.51	56.36	20.190		
12,700.00	11,170.69	13,751.56	12,247.03	26.23	49.36	-161.31	1,642.05	-145.84	1,137.48	1,080.55	56.94	19.978		
12,765.74	11,170.12	13,808.46	12,246.79	26.99	49.77	-161.40	1,698.93	-144.52	1,137.10	1,079.82	57.28	19.851		
12,800.00	11,169.82	13,835.27	12,247.14	27.39	49.97	-161.48	1,725.72	-143.32	1,137.21	1,079.79	57.43	19.803		
12,900.00	11,168.95	13,918.09	12,249.76	28.56	50.60	-161.82	1,808.32	-138.03	1,138.71	1,080.84	57.87	19.678		
13,000.00	11,168.08	14,004.46	12,253.65	29.75	51.28	-162.20	1,894.42	-132.45	1,141.54	1,083.20	58.34	19.567		
13,100.00	11,167.21	14,090.93	12,258.48	30.96	51.98	-162.58	1,980.60	-127.08	1,145.54	1,086.72	58.82	19.475		
13,200.00	11,166.34	14,184.44	12,264.59	32.17	52.76	-162.98	2,073.75	-121.82	1,150.67	1,091.30	59.38	19.380		
13,300.00	11,165.47	14,290.43	12,270.67	33.41	53.68	-163.32	2,179.48	-117.67	1,155.59	1,095.50	60.09	19.231		
13,400.00	11,164.60	14,483.22	12,272.96	34.65	55.40	-163.51	2,372.19	-116.76	1,157.97	1,096.14	61.83	18.728		
13,500.00	11,163.72	14,643.27	12,262.45	35.90	56.91	-163.73	2,531.77	-111.12	1,150.74	1,087.49	63.25	18.194		
13,600.00	11,162.85	14,728.63	12,256.01	37.16	57.73	-163.88	2,616.78	-106.99	1,142.73	1,078.85	63.88	17.889		
13,700.00	11,161.98	14,806.00	12,251.45	38.43	58.49	-164.00	2,693.96	-104.21	1,136.59	1,072.15	64.44	17.638		
13,800.00	11,161.11	14,882.09	12,248.23	39.70	59.25	-164.08	2,769.97	-102.62	1,132.48	1,067.48	65.01	17.421		
13,900.00	11,160.24	14,961.49	12,246.02	40.98	60.05	-164.12	2,849.33	-102.08	1,130.19	1,064.56	65.63	17.220		
13,976.89	11,159.57	15,022.77	12,245.00	41.97	60.67	-164.11	2,910.60	-102.83	1,129.66	1,063.52	66.15	17.078		
14,000.00	11,159.37	15,041.27	12,244.82	42.27	60.86	-164.09	2,929.10	-103.22	1,129.71	1,063.41	66.31	17.038		
14,100.00	11,158.50	15,124.26	12,244.70	43.56	61.71	-164.02	3,012.04	-105.71	1,130.95	1,063.90	67.05	16.867		
14,200.00	11,157.63	15,216.31	12,245.51	44.86	62.68	-163.92	3,104.03	-109.02	1,133.36	1,065.41	67.94	16.681		
14,300.00	11,156.75	15,310.56	12,246.56	46.16	63.68	-163.83	3,198.21	-112.46	1,136.02	1,067.13	68.89	16.491		
14,400.00	11,155.88	15,395.50	12,248.38	47.46	64.59	-163.72	3,283.05	-116.23	1,139.88	1,070.16	69.72	16.350		
14,500.00	11,155.01	15,487.55	12,251.11	48.77	65.59	-163.60	3,374.95	-120.74	1,144.67	1,073.99	70.68	16.195		
14,600.00	11,154.14	15,586.83	12,254.90	50.08	66.69	-163.51	3,474.07	-124.85	1,150.06	1,078.32	71.74	16.031		

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 134H(AC) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program:		176-3_MWD+HRGM				Rule Assigned:				Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		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		
14,700.00	11,153.27	15,697.54	12,258.18	51.40	67.93	-163.45	3,584.67	-128.48	1,154.36	1,081.38	72.98	15.818		
14,800.00	11,152.40	15,805.85	12,261.47	52.72	69.15	-163.40	3,692.88	-131.72	1,158.72	1,084.53	74.19	15.619		
14,900.00	11,151.53	15,956.50	12,261.53	54.04	70.87	-163.33	3,843.47	-135.19	1,159.94	1,083.89	76.06	15.251		
15,000.00	11,150.66	16,057.62	12,259.78	55.36	72.04	-163.30	3,944.57	-136.38	1,159.18	1,082.01	77.18	15.020		
15,100.00	11,149.79	16,165.41	12,257.05	56.69	73.30	-163.27	4,052.33	-137.58	1,157.62	1,079.21	78.41	14.764		
15,200.00	11,148.91	16,260.43	12,254.86	58.02	74.41	-163.24	4,147.31	-138.78	1,156.33	1,076.86	79.47	14.551		
15,300.00	11,148.04	16,360.85	12,252.52	59.35	75.60	-163.19	4,247.69	-140.20	1,155.06	1,074.43	80.63	14.326		
15,400.00	11,147.17	16,456.43	12,250.54	60.68	76.75	-163.16	4,343.24	-141.38	1,153.99	1,072.27	81.72	14.122		
15,500.00	11,146.30	16,550.78	12,249.11	62.01	77.88	-163.15	4,437.58	-142.41	1,153.41	1,070.63	82.78	13.933		
15,578.88	11,145.61	16,625.58	12,248.13	63.06	78.78	-163.12	4,512.36	-143.71	1,153.26	1,069.61	83.65	13.786		
15,600.00	11,145.43	16,645.22	12,247.91	63.35	79.02	-163.11	4,532.00	-144.08	1,153.27	1,069.39	83.88	13.749		
15,700.00	11,144.56	16,743.36	12,247.17	64.68	80.21	-163.07	4,630.11	-145.81	1,153.61	1,068.57	85.04	13.565		
15,800.00	11,143.69	16,862.76	12,245.85	66.02	81.67	-163.08	4,749.50	-146.63	1,153.36	1,066.85	86.51	13.332		
15,900.00	11,142.82	16,969.97	12,243.28	67.36	82.99	-163.14	4,856.68	-145.99	1,151.42	1,063.68	87.75	13.122		
16,000.00	11,141.95	17,074.52	12,240.57	68.70	84.28	-163.21	4,961.19	-145.02	1,149.23	1,060.29	88.94	12.922		
16,100.00	11,141.07	17,163.19	12,238.53	70.04	85.38	-163.27	5,049.83	-144.08	1,147.29	1,057.40	89.89	12.764		
16,172.12	11,140.45	17,218.92	12,237.76	71.01	86.08	-163.30	5,105.56	-144.02	1,146.73	1,056.27	90.46	12.677		
16,200.00	11,140.20	17,239.92	12,237.68	71.39	86.34	-163.31	5,126.55	-144.12	1,146.82	1,056.14	90.67	12.648		
16,300.00	11,139.33	17,362.87	12,237.10	72.73	87.88	-163.35	5,249.50	-144.53	1,147.16	1,054.95	92.21	12.441		
16,382.19	11,138.62	17,429.00	12,236.25	73.84	88.71	-163.37	5,315.62	-144.59	1,146.62	1,053.70	92.92	12.340		
16,400.00	11,138.46	17,443.52	12,236.15	74.08	88.89	-163.37	5,330.14	-144.71	1,146.65	1,053.57	93.08	12.320		
16,500.00	11,137.59	17,537.69	12,235.92	75.42	90.08	-163.38	5,424.30	-145.72	1,147.27	1,053.08	94.19	12.181		
16,600.00	11,136.72	17,657.06	12,234.92	76.77	91.60	-163.37	5,543.66	-146.94	1,147.35	1,051.61	95.74	11.984		
16,700.00	11,135.85	17,776.89	12,231.85	78.12	93.13	-163.37	5,663.45	-147.59	1,145.60	1,048.31	97.30	11.774		
16,800.00	11,134.98	17,890.77	12,227.64	79.47	94.59	-163.45	5,777.24	-146.08	1,142.23	1,043.57	98.66	11.578		
16,900.00	11,134.10	17,998.15	12,222.91	80.82	95.97	-163.53	5,884.50	-144.18	1,138.06	1,038.15	99.91	11.391		
17,000.00	11,133.23	18,091.81	12,218.59	82.17	97.18	-163.61	5,978.04	-142.50	1,133.70	1,032.74	100.97	11.228		
17,100.00	11,132.36	18,178.30	12,215.35	83.52	98.29	-163.67	6,064.46	-141.37	1,130.32	1,028.39	101.93	11.089		
17,200.00	11,131.49	18,277.43	12,212.52	84.87	99.58	-163.74	6,163.55	-140.32	1,127.84	1,024.76	103.08	10.942		
17,300.00	11,130.62	18,360.17	12,210.28	86.23	100.66	-163.79	6,246.25	-139.62	1,125.63	1,021.65	103.98	10.826		
17,353.75	11,130.15	18,401.00	12,209.85	86.95	101.19	-163.81	6,287.08	-139.53	1,125.36	1,020.96	104.40	10.779		
17,400.00	11,129.75	18,439.28	12,209.77	87.58	101.69	-163.83	6,325.37	-139.60	1,125.55	1,020.74	104.81	10.739		
17,500.00	11,128.88	18,525.98	12,210.28	88.93	102.82	-163.86	6,412.06	-140.19	1,126.87	1,021.09	105.78	10.653		
17,600.00	11,128.01	18,616.36	12,211.72	90.29	104.00	-163.89	6,502.42	-141.16	1,129.26	1,022.43	106.83	10.571		
17,700.00	11,127.14	18,710.69	12,213.59	91.64	105.24	-163.89	6,596.72	-142.69	1,132.19	1,024.22	107.97	10.486		
17,800.00	11,126.26	18,807.95	12,216.17	93.00	106.53	-163.91	6,693.93	-144.36	1,135.78	1,026.61	109.17	10.404		
17,900.00	11,125.39	18,919.91	12,218.09	94.36	108.01	-163.88	6,805.85	-146.76	1,138.57	1,027.85	110.72	10.284		
18,000.00	11,124.52	19,029.37	12,218.76	95.71	109.46	-163.78	6,915.24	-150.46	1,140.68	1,028.35	112.33	10.155		
18,100.00	11,123.65	19,140.23	12,217.79	97.07	110.94	-163.57	7,025.97	-155.80	1,141.76	1,027.65	114.10	10.006		
18,200.00	11,122.78	19,228.27	12,216.81	98.43	112.11	-163.38	7,113.88	-160.46	1,142.78	1,027.34	115.44	9.899		
18,300.00	11,121.91	19,358.23	12,214.63	99.78	113.86	-163.06	7,243.59	-168.10	1,143.51	1,025.74	117.77	9.710		
18,400.00	11,121.04	19,455.65	12,211.57	101.14	115.17	-162.80	7,340.80	-173.80	1,142.77	1,023.34	119.43	9.569		
18,500.00	11,120.17	19,559.30	12,208.74	102.50	116.56	-162.62	7,444.32	-177.88	1,141.88	1,020.79	121.08	9.430		
18,600.00	11,119.30	19,655.59	12,206.57	103.86	117.86	-162.54	7,540.56	-180.22	1,141.00	1,018.51	122.49	9.315		
18,684.90	11,118.56	19,732.71	12,205.31	105.01	118.90	-162.48	7,617.65	-181.89	1,140.70	1,017.13	123.56	9.232		
18,700.00	11,118.42	19,745.14	12,205.17	105.22	119.06	-162.47	7,630.07	-182.18	1,140.72	1,016.99	123.73	9.219		
18,800.00	11,117.55	19,832.98	12,204.81	106.58	120.25	-162.40	7,717.87	-184.76	1,141.72	1,016.76	124.96	9.137		
18,900.00	11,116.68	19,955.77	12,203.57	107.94	121.90	-162.34	7,840.64	-187.01	1,141.82	1,015.00	126.82	9.004		
19,000.00	11,115.81	20,054.38	12,202.02	109.30	123.23	-162.36	7,939.23	-187.43	1,140.99	1,012.87	128.11	8.906		
19,051.91	11,115.36	20,100.00	12,201.56	110.01	123.85	-162.37	7,984.85	-187.58	1,140.83	1,012.15	128.68	8.866		
19,100.00	11,114.94	20,139.77	12,201.42	110.66	124.39	-162.38	8,024.62	-187.74	1,140.99	1,011.84	129.15	8.835		
19,200.00	11,114.07	20,243.39	12,202.01	112.02	125.79	-162.43	8,128.24	-188.20	1,142.22	1,011.74	130.48	8.754		

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 134H(AC) - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 176-3_MWD+HRGM													Offset Well Error: 0.00 usft
Reference		Offset		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	
19,300.00	11,113.20	20,350.52	12,200.95	113.38	127.24	-162.49	8,235.36	-188.05	1,141.75	1,009.88	131.87	8.658	
19,400.00	11,112.33	20,461.75	12,199.59	114.74	128.75	-162.48	8,346.57	-189.02	1,141.42	1,007.99	133.43	8.555	
19,500.00	11,111.45	20,553.28	12,197.66	116.10	129.99	-162.44	8,438.07	-190.39	1,140.42	1,005.71	134.70	8.466	
19,600.00	11,110.58	20,653.22	12,196.16	117.47	131.35	-162.39	8,537.98	-192.25	1,140.09	1,003.94	136.16	8.373	
19,700.00	11,109.71	20,756.36	12,194.13	118.83	132.76	-162.30	8,641.07	-194.81	1,139.51	1,001.76	137.75	8.273	
19,745.90	11,109.31	20,794.07	12,193.42	119.45	133.28	-162.26	8,678.76	-195.85	1,139.32	1,001.03	138.29	8.238	
19,800.00	11,108.84	20,837.27	12,192.93	120.19	133.87	-162.21	8,721.93	-197.29	1,139.58	1,000.66	138.92	8.203	
19,900.00	11,107.97	20,937.51	12,192.40	121.55	135.24	-162.09	8,822.11	-200.92	1,140.73	1,000.20	140.53	8.117	
20,000.00	11,107.10	21,032.14	12,191.71	122.92	136.54	-161.95	8,916.65	-204.83	1,141.85	999.77	142.07	8.037	
20,100.00	11,106.23	21,159.65	12,189.05	124.28	138.30	-161.69	9,043.98	-210.97	1,141.85	997.36	144.49	7.903	
20,194.67	11,105.40	21,243.10	12,186.89	125.57	139.45	-161.53	9,127.32	-214.67	1,141.35	995.43	145.92	7.822	
20,200.00	11,105.36	21,247.51	12,186.80	125.64	139.51	-161.52	9,131.72	-214.88	1,141.35	995.36	146.00	7.818	
20,300.00	11,104.49	21,334.96	12,185.63	127.01	140.72	-161.34	9,219.05	-219.30	1,142.19	994.68	147.51	7.743	
20,400.00	11,103.61	21,471.10	12,181.63	128.37	142.60	-161.11	9,355.03	-224.44	1,140.90	990.85	150.05	7.604	
20,500.00	11,102.74	21,568.19	12,178.13	129.73	143.94	-160.96	9,452.01	-227.61	1,139.06	987.34	151.72	7.507	
20,600.00	11,101.87	21,701.94	12,173.01	131.10	145.78	-160.87	9,585.62	-229.36	1,136.55	982.71	153.84	7.388	
20,700.00	11,101.00	21,818.73	12,166.59	132.46	147.38	-161.00	9,702.19	-225.88	1,130.85	975.66	155.19	7.287	
20,800.00	11,100.13	21,911.69	12,161.69	133.83	148.66	-161.16	9,794.94	-222.20	1,125.08	968.90	156.18	7.204	
20,900.00	11,099.26	22,011.28	12,156.39	135.19	150.02	-161.31	9,894.32	-218.54	1,119.38	962.12	157.26	7.118	
21,000.00	11,098.39	22,099.08	12,152.21	136.56	151.23	-161.42	9,981.98	-215.95	1,114.43	956.18	158.25	7.042	
21,100.00	11,097.52	22,190.95	12,148.45	137.92	152.49	-161.52	10,073.75	-213.73	1,110.31	951.00	159.31	6.970	
21,200.00	11,096.65	22,270.00	12,145.88	139.29	153.58	-161.61	10,152.74	-212.13	1,107.20	947.01	160.18	6.912	
21,289.76	11,095.86	22,339.45	12,144.78	140.51	154.54	-161.67	10,222.17	-211.35	1,106.08	945.15	160.93	6.873	
21,300.00	11,095.77	22,346.63	12,144.76	140.65	154.64	-161.67	10,229.35	-211.32	1,106.10	945.10	161.00	6.870	
21,400.00	11,094.90	22,423.22	12,145.58	142.02	155.70	-161.71	10,305.94	-211.74	1,107.72	945.90	161.82	6.845	
21,455.42	11,094.42	22,465.00	12,146.27	142.77	156.27	-161.73	10,347.71	-212.13	1,109.13	946.88	162.25	6.836	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 138H(AC) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 176-3_MWD+HRGM												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.72	-1.00	-80.00	80.01				
100.00	100.00	98.88	98.87	0.50	0.15	-90.85	-1.19	-80.07	80.08	79.43	0.66	122.231	
200.00	200.00	199.06	199.06	1.31	0.35	-91.26	-1.76	-80.26	80.28	78.61	1.66	48.288	
300.00	300.00	299.36	299.36	1.79	0.70	-91.60	-2.23	-79.76	79.79	77.30	2.49	31.988	
400.00	400.00	399.50	399.49	2.17	1.06	-92.43	-3.36	-79.25	79.32	76.09	3.23	24.556	
500.00	500.00	499.51	499.48	2.49	1.42	-93.51	-4.82	-78.53	78.68	74.77	3.91	20.107	
600.00	600.00	600.34	600.30	2.78	1.78	-94.49	-6.08	-77.36	77.61	73.05	4.56	17.010	
700.00	700.00	699.78	699.71	3.04	2.14	-95.68	-7.54	-75.89	76.27	71.09	5.18	14.716	
795.72	795.72	795.45	795.37	3.15	2.48	134.63	-8.87	-74.86	75.81	70.18	5.63	13.470	
800.00	800.00	799.68	799.61	3.15	2.50	134.45	-8.91	-74.82	75.58	69.93	5.65	13.383	
900.00	899.96	898.95	898.86	3.43	2.85	135.34	-9.52	-74.55	77.22	70.98	6.25	12.363	
1,000.00	999.82	999.19	999.11	3.70	3.20	137.38	-10.25	-74.31	80.84	74.00	6.84	11.816	
1,100.00	1,099.51	1,098.80	1,098.71	3.95	3.55	140.70	-10.45	-73.91	86.38	78.94	7.43	11.622	
1,200.00	1,198.96	1,197.69	1,197.60	4.20	3.90	144.17	-11.17	-74.02	94.78	86.76	8.02	11.817	
1,300.00	1,298.11	1,296.64	1,296.55	4.36	4.24	147.74	-11.98	-74.66	106.16	97.62	8.54	12.437	
1,400.00	1,397.13	1,395.97	1,395.88	4.56	4.58	151.41	-11.79	-74.99	118.56	109.48	9.08	13.060	
1,500.00	1,496.16	1,494.33	1,494.23	4.75	4.91	154.40	-11.52	-75.19	131.24	121.63	9.61	13.654	
1,600.00	1,595.18	1,593.56	1,593.46	4.94	5.25	156.91	-10.98	-76.04	144.91	134.76	10.15	14.271	
1,700.00	1,694.21	1,692.45	1,692.34	5.14	5.59	158.84	-11.04	-76.24	158.01	147.31	10.70	14.770	
1,800.00	1,793.24	1,791.05	1,790.95	5.33	5.93	160.67	-10.34	-76.88	171.93	160.69	11.23	15.304	
1,900.00	1,892.26	1,890.12	1,890.01	5.52	6.27	162.21	-9.75	-77.35	185.79	174.02	11.77	15.781	
2,000.00	1,991.29	1,992.55	1,992.44	5.72	6.62	163.49	-9.69	-77.38	199.17	186.84	12.33	16.153	
2,100.00	2,090.31	2,104.06	2,103.82	5.91	7.01	165.42	-8.88	-72.52	208.94	196.03	12.91	16.183	
2,200.00	2,189.39	2,205.19	2,204.57	6.04	7.37	167.55	-7.89	-63.79	214.72	201.33	13.39	16.031	
2,300.00	2,288.77	2,307.45	2,306.31	6.26	7.73	169.75	-6.33	-53.76	217.67	203.69	13.98	15.575	
2,400.00	2,388.40	2,410.46	2,408.69	6.48	8.09	171.79	-5.56	-42.38	216.85	202.30	14.55	14.902	
2,500.00	2,488.22	2,510.89	2,508.39	6.69	8.45	173.78	-5.07	-30.35	212.76	197.64	15.12	14.073	
2,600.00	2,588.16	2,609.82	2,606.56	6.89	8.81	175.97	-3.97	-18.12	206.38	190.70	15.68	13.165	
2,700.00	2,688.16	2,708.63	2,704.56	6.97	9.18	-52.54	-2.00	-5.61	198.06	181.94	16.12	12.287	
2,800.00	2,788.16	2,809.53	2,804.73	7.07	9.55	-50.08	-1.02	6.42	189.34	172.76	16.58	11.418	
2,900.00	2,888.16	2,913.15	2,907.62	7.17	9.93	-48.26	-3.66	18.37	178.92	161.88	17.04	10.500	
3,000.00	2,988.16	3,013.13	3,006.78	7.27	10.31	-46.76	-8.42	30.22	166.95	149.45	17.50	9.542	
3,100.00	3,088.16	3,110.32	3,103.28	7.37	10.67	-45.25	-12.87	40.92	155.84	137.88	17.96	8.678	
3,200.00	3,188.16	3,207.82	3,200.23	7.47	11.03	-43.67	-16.64	50.42	146.24	127.83	18.42	7.940	
3,300.00	3,288.16	3,305.86	3,297.84	7.57	11.40	-41.88	-19.62	59.21	137.92	119.04	18.88	7.306	
3,400.00	3,388.16	3,404.43	3,396.09	7.66	11.76	-40.51	-22.89	66.33	130.66	111.32	19.33	6.758	
3,500.00	3,488.16	3,504.32	3,495.69	7.76	12.13	-38.84	-25.71	73.46	123.92	104.13	19.79	6.261	
3,600.00	3,588.16	3,605.88	3,596.80	7.86	12.51	-36.08	-28.19	82.64	116.47	96.22	20.25	5.751	
3,700.00	3,688.16	3,704.45	3,694.85	7.96	12.88	-32.82	-31.03	92.34	108.52	87.81	20.72	5.238	
3,800.00	3,788.16	3,804.77	3,794.69	8.05	13.25	-29.08	-33.60	101.84	101.43	80.25	21.18	4.789	
3,900.00	3,888.16	3,905.68	3,894.95	8.15	13.63	-24.28	-37.04	112.67	93.53	71.89	21.64	4.322	
4,000.00	3,988.16	4,004.89	3,993.39	8.25	14.01	-18.09	-40.79	124.48	85.66	63.55	22.11	3.874	
4,100.00	4,088.16	4,103.87	4,091.54	8.34	14.40	-10.38	-44.22	136.75	79.20	56.61	22.58	3.507	
4,200.00	4,188.16	4,202.66	4,189.60	8.44	14.78	-2.00	-47.17	148.38	74.91	51.87	23.05	3.250	
4,300.00	4,288.16	4,302.89	4,289.13	8.53	15.16	6.90	-50.75	159.62	71.80	48.29	23.51	3.054	
4,400.00	4,388.16	4,401.88	4,387.53	8.63	15.54	15.49	-54.62	169.68	69.92	45.97	23.96	2.919	
4,411.27	4,399.43	4,412.83	4,398.43	8.64	15.58	16.41	-54.95	170.75	69.89	45.89	24.01	2.911 CC, ES, SF	
4,500.00	4,488.16	4,499.26	4,484.39	8.72	15.91	23.49	-56.27	179.56	71.72	47.33	24.39	2.941	
4,600.00	4,588.16	4,597.34	4,581.95	8.82	16.28	30.14	-55.51	189.61	77.06	52.26	24.81	3.107	
4,700.00	4,688.16	4,694.76	4,678.77	8.91	16.64	35.37	-52.85	200.08	85.21	60.00	25.21	3.380	
4,800.00	4,788.16	4,792.23	4,775.43	9.00	17.00	38.77	-47.11	211.16	96.77	71.16	25.62	3.778	
4,900.00	4,888.16	4,893.22	4,875.65	9.10	17.38	41.43	-41.36	222.17	108.17	82.08	26.09	4.146	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 138H(AC) - Wellbore #1 - Wellbore #1											Offset Site Error:	0.00 usft
Survey Program: 176-3_MWD+HRGM											Offset Well Error:	0.00 usft
Rule Assigned:											Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
5,000.00	4,988.16	4,994.19	4,976.02	9.19	17.75	43.73	-37.05	232.27	118.09	91.53	26.56	4.446
5,100.00	5,088.16	5,094.42	5,075.76	9.29	18.13	45.56	-33.24	241.52	127.29	100.27	27.01	4.712
5,200.00	5,188.16	5,197.73	5,178.61	9.38	18.51	47.62	-31.02	250.71	135.25	107.76	27.49	4.919
5,300.00	5,288.16	5,300.04	5,280.44	9.47	18.90	51.11	-33.83	260.31	140.60	112.64	27.95	5.030
5,400.00	5,388.16	5,399.74	5,379.64	9.56	19.27	54.57	-37.79	269.35	145.44	117.05	28.40	5.122
5,500.00	5,488.16	5,497.79	5,477.14	9.66	19.65	57.92	-41.81	278.92	151.30	122.47	28.84	5.247
5,600.00	5,588.16	5,598.20	5,576.99	9.75	20.03	60.99	-45.58	288.81	157.90	128.61	29.29	5.391
5,700.00	5,688.16	5,696.99	5,675.25	9.84	20.41	63.74	-49.31	298.34	164.73	134.99	29.73	5.540
5,800.00	5,788.16	5,795.03	5,772.71	9.93	20.78	66.26	-52.77	308.39	172.55	142.37	30.17	5.718
5,900.00	5,888.16	5,894.77	5,871.86	10.02	21.16	68.51	-55.91	318.84	181.03	150.40	30.63	5.911
6,000.00	5,988.16	5,996.51	5,972.96	10.12	21.55	70.96	-60.53	329.09	188.94	157.85	31.09	6.077
6,100.00	6,088.16	6,096.95	6,072.79	10.21	21.94	73.44	-66.21	338.68	196.32	164.78	31.54	6.224
6,200.00	6,188.16	6,197.19	6,172.51	10.30	22.32	75.45	-70.96	347.57	203.62	171.62	31.99	6.364
6,300.00	6,288.16	6,296.89	6,271.77	10.39	22.69	77.17	-75.34	355.90	210.71	178.26	32.45	6.494
6,400.00	6,388.16	6,395.78	6,370.21	10.48	23.07	78.65	-79.15	364.49	218.41	185.52	32.89	6.640
6,500.00	6,488.16	6,496.65	6,470.62	10.57	23.45	80.18	-83.57	373.04	225.95	192.60	33.35	6.775
6,600.00	6,588.16	6,596.86	6,570.41	10.66	23.83	81.60	-88.02	381.02	233.12	199.32	33.80	6.897
6,700.00	6,688.16	6,695.36	6,668.53	10.75	24.20	82.76	-91.78	388.85	240.49	206.24	34.25	7.022
6,800.00	6,788.16	6,794.33	6,767.06	10.84	24.57	83.91	-95.73	397.31	248.52	213.83	34.70	7.163
6,900.00	6,888.16	6,893.80	6,866.07	10.93	24.95	85.10	-100.15	405.84	256.64	221.49	35.15	7.302
7,000.00	6,988.16	6,994.68	6,966.51	11.02	25.33	86.12	-104.16	414.34	264.75	229.15	35.60	7.436
7,100.00	7,088.16	7,093.88	7,065.35	11.11	25.70	86.87	-107.15	422.26	272.54	236.49	36.05	7.559
7,200.00	7,188.16	7,193.20	7,164.30	11.20	26.08	87.44	-109.49	430.44	280.65	244.15	36.50	7.688
7,300.00	7,288.16	7,295.17	7,265.90	11.29	26.46	88.09	-112.42	438.53	288.48	251.52	36.96	7.805
7,400.00	7,388.16	7,394.04	7,364.48	11.38	26.83	88.53	-114.45	445.97	295.94	258.53	37.41	7.911
7,500.00	7,488.16	7,496.22	7,466.37	11.47	27.21	88.72	-115.23	453.44	303.23	265.36	37.87	8.008
7,600.00	7,588.16	7,597.21	7,567.14	11.56	27.58	88.90	-116.06	460.18	309.89	271.57	38.32	8.087
7,700.00	7,688.16	7,696.36	7,668.08	11.65	27.96	89.12	-117.15	466.52	316.13	277.36	38.77	8.154
7,800.00	7,788.16	7,800.13	7,769.67	11.74	28.33	89.38	-118.51	472.46	321.96	282.73	39.22	8.209
7,900.00	7,888.16	7,902.94	7,872.33	11.83	28.70	89.81	-120.90	477.39	326.73	287.05	39.67	8.235
8,000.00	7,988.16	8,001.28	7,970.54	11.92	29.06	90.15	-122.88	482.09	331.51	291.39	40.12	8.263
8,100.00	8,088.16	8,101.45	8,070.57	12.01	29.43	90.41	-124.43	487.23	336.64	296.08	40.57	8.298
8,200.00	8,188.16	8,206.04	8,175.03	12.10	29.80	90.81	-126.85	491.76	341.01	299.99	41.02	8.314
8,300.00	8,288.16	8,307.47	8,276.40	12.19	30.17	91.07	-128.42	494.80	344.03	302.56	41.46	8.297
8,400.00	8,388.16	8,405.99	8,374.86	12.28	30.52	91.17	-129.10	498.13	347.42	305.51	41.91	8.290
8,500.00	8,488.16	8,505.53	8,474.33	12.36	30.87	91.37	-130.36	501.70	351.03	308.68	42.35	8.288
8,600.00	8,588.16	8,609.34	8,578.07	12.45	31.25	91.57	-131.73	505.07	354.32	311.52	42.80	8.278
8,700.00	8,688.16	8,712.06	8,680.76	12.54	31.61	91.74	-132.82	507.19	356.42	313.17	43.24	8.242
8,800.00	8,788.16	8,816.09	8,784.77	12.63	31.97	92.03	-134.68	508.45	357.68	314.00	43.68	8.188
8,900.00	8,888.16	8,914.00	8,882.63	12.72	32.31	92.51	-137.74	509.49	358.86	314.74	44.12	8.134
9,000.00	8,988.16	9,017.82	8,986.37	12.81	32.66	93.15	-141.77	510.33	359.87	315.32	44.55	8.078
9,100.00	9,088.16	9,121.22	9,089.71	12.89	33.01	93.69	-145.12	509.72	359.48	314.50	44.98	7.992
9,200.00	9,188.16	9,219.55	9,187.98	12.98	33.33	94.19	-148.23	509.17	359.13	313.73	45.41	7.909
9,300.00	9,288.16	9,321.75	9,290.15	13.07	33.67	94.60	-150.75	508.36	358.52	312.69	45.83	7.823
9,400.00	9,388.16	9,422.03	9,390.39	13.16	34.00	95.00	-153.14	507.29	357.66	311.41	46.25	7.733
9,500.00	9,488.16	9,523.07	9,491.43	13.25	34.32	95.07	-153.49	506.24	356.66	309.99	46.67	7.642
9,600.00	9,588.16	9,620.13	9,588.47	13.33	34.64	95.19	-154.15	505.06	355.52	308.42	47.10	7.549
9,615.90	9,604.06	9,634.71	9,603.06	13.35	34.69	95.20	-154.23	505.03	355.49	308.32	47.17	7.537
9,700.00	9,688.16	9,714.69	9,683.04	13.42	34.97	95.24	-154.55	505.62	356.14	308.60	47.54	7.492
9,800.00	9,788.16	9,814.83	9,783.16	13.51	35.32	95.37	-155.46	506.82	357.42	309.44	47.98	7.450
9,900.00	9,888.16	9,914.20	9,882.51	13.60	35.66	95.58	-156.84	507.71	358.44	310.02	48.42	7.403
10,000.00	9,988.16	10,019.12	9,987.42	13.68	36.02	95.83	-158.54	508.67	359.53	310.68	48.85	7.360

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 138H(AC) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 176-3_MWD+HRGM												Offset Well Error:	0.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,100.00	10,088.16	10,123.03	10,091.31	13.77	36.36	95.60	-156.97	507.90	358.63	309.37	49.26	7.280	
10,200.00	10,188.16	10,220.81	10,189.07	13.86	36.68	95.35	-155.34	507.12	357.68	308.00	49.68	7.199	
10,300.00	10,288.16	10,323.53	10,291.77	13.95	37.01	95.06	-153.46	506.51	356.93	306.83	50.10	7.124	
10,400.00	10,388.16	10,423.37	10,391.60	14.03	37.33	94.88	-152.26	505.28	355.60	305.08	50.52	7.039	
10,495.25	10,483.41	10,514.19	10,482.41	14.12	37.63	94.73	-151.29	504.76	354.97	304.05	50.92	6.971	
10,500.00	10,488.16	10,518.70	10,486.92	14.12	37.65	94.72	-151.24	504.77	354.97	304.03	50.94	6.968	
10,600.00	10,588.16	10,619.00	10,587.21	14.21	37.98	94.47	-149.65	504.85	354.93	303.56	51.37	6.910	
10,637.70	10,625.84	10,656.15	10,624.35	14.24	38.11	88.51	-148.93	504.89	354.88	303.37	51.51	6.890	
10,700.00	10,687.90	10,716.19	10,684.38	14.31	38.31	89.05	-147.99	505.23	355.06	303.31	51.75	6.861	
10,800.00	10,785.20	10,814.71	10,782.90	14.48	38.64	92.33	-146.78	505.86	355.86	303.77	52.09	6.831	
10,900.00	10,877.13	10,903.58	10,871.76	14.64	38.95	97.34	-146.45	506.63	360.37	307.94	52.43	6.874	
11,000.00	10,960.87	10,992.34	10,960.52	14.80	39.25	103.57	-146.54	507.08	372.91	320.10	52.80	7.062	
11,100.00	11,033.90	11,067.88	11,036.05	14.93	39.50	108.69	-146.35	506.76	397.78	344.51	53.27	7.468	
11,200.00	11,093.98	11,132.02	11,100.19	15.05	39.71	111.71	-145.78	506.28	438.39	384.59	53.81	8.148	
11,300.00	11,139.30	11,184.14	11,152.29	15.17	39.88	111.73	-144.44	506.02	494.60	440.27	54.34	9.102	
11,400.00	11,168.47	11,219.41	11,187.54	15.33	39.99	107.30	-143.20	505.78	564.18	509.39	54.79	10.297	
11,500.00	11,180.61	11,236.38	11,204.50	15.60	40.05	96.98	-142.59	505.58	643.71	588.58	55.13	11.677	
11,600.00	11,180.28	11,239.87	11,207.98	16.06	40.06	93.89	-142.46	505.54	729.63	674.27	55.36	13.181	
11,700.00	11,179.41	11,242.84	11,210.96	16.68	40.07	94.72	-142.35	505.49	820.15	764.62	55.53	14.769	
11,800.00	11,178.53	11,245.91	11,214.02	17.40	40.08	95.77	-142.24	505.45	913.85	858.19	55.66	16.418	
11,900.00	11,177.66	11,249.06	11,217.16	18.16	40.09	96.78	-142.12	505.40	1,009.63	953.87	55.76	18.106	
12,000.00	11,176.79	11,252.25	11,220.35	19.01	40.10	97.44	-142.00	505.35	1,106.27	1,050.42	55.85	19.809	
12,100.00	11,175.92	11,251.67	11,219.46	19.91	40.11	98.44	-141.88	505.30	1,203.36	1,147.51	55.93	21.536	
12,200.00	11,175.05	11,251.08	11,218.69	20.87	40.12	99.44	-141.76	505.25	1,300.45	1,244.60	56.00	23.273	
12,300.00	11,174.18	11,250.49	11,217.92	21.88	40.13	100.44	-141.64	505.20	1,397.54	1,341.69	56.07	25.010	
12,400.00	11,173.31	11,250.00	11,217.16	22.92	40.14	101.44	-141.52	505.15	1,494.63	1,438.78	56.14	26.747	
12,500.00	11,172.44	11,249.61	11,216.40	24.00	40.15	102.44	-141.40	505.10	1,591.72	1,535.87	56.21	28.484	
12,600.00	11,171.56	11,249.22	11,215.64	25.10	40.16	103.44	-141.28	505.05	1,688.81	1,632.96	56.28	30.221	
12,700.00	11,170.69	11,248.83	11,214.88	26.23	40.17	104.44	-141.16	505.00	1,785.90	1,730.05	56.35	31.958	
12,800.00	11,169.82	11,248.44	11,214.12	27.39	40.18	105.44	-141.04	504.95	1,882.99	1,827.14	56.42	33.695	
12,900.00	11,168.95	11,248.05	11,213.36	28.56	40.19	106.44	-140.92	504.90	1,980.08	1,924.23	56.49	35.432	
13,000.00	11,168.08	11,247.66	11,212.60	29.75	40.20	107.44	-140.80	504.85	2,077.17	2,021.32	56.56	37.169	
13,100.00	11,167.21	11,247.27	11,211.84	30.96	40.21	108.44	-140.68	504.80	2,174.26	2,118.41	56.63	38.906	
13,200.00	11,166.34	11,246.88	11,211.08	32.17	40.22	109.44	-140.56	504.75	2,271.35	2,215.50	56.70	40.643	
13,202.95	11,166.31	11,246.85	11,211.05	32.21	40.22	109.44	-140.56	504.75	2,271.35	2,215.50	56.70	40.643	
13,300.00	11,165.47	11,246.46	11,210.32	33.41	40.23	110.44	-140.44	504.70	2,368.44	2,312.59	56.77	42.380	
13,400.00	11,164.60	11,246.07	11,209.56	34.65	40.24	111.44	-140.32	504.65	2,465.53	2,409.68	56.84	44.117	
13,500.00	11,163.72	11,245.68	11,208.80	35.90	40.25	112.44	-140.20	504.60	2,562.62	2,506.77	56.91	45.854	
13,507.24	11,163.66	11,245.64	11,208.76	35.99	40.25	112.44	-140.20	504.60	2,562.62	2,506.77	56.91	45.854	
13,600.00	11,162.85	11,245.25	11,208.00	37.16	40.26	113.44	-140.08	504.55	2,659.71	2,603.86	56.98	47.591	
13,700.00	11,161.98	11,244.86	11,207.24	38.43	40.27	114.44	-139.96	504.50	2,756.80	2,700.95	57.05	49.328	
13,800.00	11,161.11	11,244.47	11,206.48	39.70	40.28	115.44	-139.84	504.45	2,853.89	2,798.04	57.12	51.065	
13,900.00	11,160.24	11,244.08	11,205.72	40.98	40.29	116.44	-139.72	504.40	2,950.98	2,895.13	57.19	52.802	
13,976.72	11,159.57	11,243.69	11,205.05	41.97	40.30	117.44	-139.60	504.35	3,048.07	2,992.22	57.26	54.539	
14,000.00	11,159.37	11,243.60	11,205.00	42.27	40.30	117.44	-139.60	504.35	3,048.07	2,992.22	57.26	54.539	
14,100.00	11,158.50	11,243.21	11,204.24	43.56	40.31	118.44	-139.48	504.30	3,145.16	3,089.31	57.33	56.276	
14,200.00	11,157.63	11,242.82	11,203.48	44.86	40.32	119.44	-139.36	504.25	3,242.25	3,186.40	57.40	58.013	
14,300.00	11,156.75	11,242.43	11,202.72	46.16	40.33	120.44	-139.24	504.20	3,339.34	3,283.49	57.47	59.750	
14,400.00	11,155.88	11,242.04	11,201.96	47.46	40.34	121.44	-139.12	504.15	3,436.43	3,380.58	57.54	61.487	
14,500.00	11,155.01	11,241.65	11,201.20	48.77	40.35	122.44	-139.00	504.10	3,533.52	3,477.67	57.61	63.224	
14,600.00	11,154.14	11,241.26	11,200.44	50.08	40.36	123.44	-138.88	504.05	3,630.61	3,574.76	57.68	64.961	
14,700.00	11,153.27	11,240.87	11,200.00	51.40	40.37	124.44	-138.76	504.00	3,727.70	3,671.85	57.75	66.698	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 138H(AC) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 176-3_MWD+HRGM												Offset Well Error:	0.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,800.00	11,152.40	15,959.51	12,221.99	52.72	70.65	166.03	3,818.10	464.41	1,106.81	1,034.01	72.79	15.205	
14,900.00	11,151.53	16,003.94	12,219.86	54.04	71.16	165.98	3,862.48	464.50	1,102.66	1,029.45	73.21	15.062	
14,960.53	11,151.00	16,041.00	12,219.11	54.84	71.59	165.95	3,899.53	464.72	1,102.13	1,028.57	73.56	14.982	
15,000.00	11,150.66	16,066.64	12,219.03	55.36	71.88	165.93	3,925.17	464.92	1,102.47	1,028.66	73.81	14.937	
15,100.00	11,149.79	16,146.94	12,219.75	56.69	72.81	165.87	4,005.47	465.72	1,104.65	1,030.03	74.62	14.803	
15,200.00	11,148.91	16,239.54	12,222.17	58.02	73.88	165.86	4,098.03	465.81	1,108.26	1,032.69	75.58	14.664	
15,300.00	11,148.04	16,368.96	12,221.79	59.35	75.40	165.77	4,227.44	466.45	1,108.75	1,031.69	77.06	14.388	
15,400.00	11,147.17	16,445.32	12,222.89	60.68	76.31	165.74	4,303.78	466.89	1,111.25	1,033.41	77.84	14.276	
15,500.00	11,146.30	16,555.81	12,224.40	62.01	77.62	165.69	4,414.26	467.40	1,113.75	1,034.67	79.09	14.083	
15,600.00	11,145.43	16,653.68	12,225.49	63.35	78.79	165.64	4,512.12	467.94	1,116.05	1,035.87	80.18	13.919	
15,700.00	11,144.56	16,757.60	12,226.86	64.68	80.04	165.61	4,616.03	468.21	1,118.48	1,037.12	81.35	13.748	
15,800.00	11,143.69	16,905.89	12,225.04	66.02	81.85	165.47	4,764.28	469.50	1,118.69	1,035.52	83.17	13.450	
15,900.00	11,142.82	16,995.04	12,222.35	67.36	82.94	165.36	4,853.38	470.29	1,117.05	1,032.82	84.24	13.261	
16,000.00	11,141.95	17,135.26	12,215.97	68.70	84.68	165.26	4,993.45	469.54	1,113.45	1,027.54	85.91	12.960	
16,100.00	11,141.07	17,233.37	12,210.20	70.04	85.90	165.24	5,091.38	467.72	1,108.38	1,021.34	87.05	12.733	
16,200.00	11,140.20	17,325.64	12,205.65	71.39	87.06	165.26	5,183.51	465.49	1,104.08	1,015.99	88.09	12.533	
16,300.00	11,139.33	17,422.86	12,201.56	72.73	88.28	165.34	5,280.58	462.11	1,100.21	1,011.06	89.15	12.342	
16,400.00	11,138.46	17,520.83	12,197.73	74.08	89.52	165.45	5,378.40	458.19	1,096.50	1,006.31	90.19	12.158	
16,500.00	11,137.59	17,602.26	12,195.10	75.42	90.55	165.56	5,459.71	454.84	1,093.48	1,002.44	91.04	12.011	
16,596.89	11,136.75	17,678.29	12,194.41	76.73	91.52	165.66	5,535.69	452.00	1,092.74	1,000.94	91.80	11.904	
16,600.00	11,136.72	17,681.17	12,194.41	76.77	91.56	165.67	5,538.56	451.89	1,092.74	1,000.91	91.83	11.900	
16,700.00	11,135.85	17,775.51	12,194.59	78.12	92.76	165.81	5,632.84	448.43	1,093.09	1,000.29	92.80	11.779	
16,800.00	11,134.98	17,871.75	12,195.11	79.47	93.99	165.98	5,729.00	444.55	1,093.72	999.95	93.77	11.664	
16,900.00	11,134.10	17,964.76	12,196.26	80.82	95.18	166.15	5,821.92	440.74	1,095.00	1,000.31	94.69	11.564	
17,000.00	11,133.23	18,061.58	12,197.90	82.17	96.43	166.36	5,918.63	436.35	1,096.65	1,001.01	95.63	11.467	
17,100.00	11,132.36	18,156.22	12,200.02	83.52	97.65	166.59	6,013.13	431.66	1,098.73	1,002.21	96.52	11.383	
17,200.00	11,131.49	18,291.06	12,200.87	84.87	99.40	166.85	6,147.80	425.67	1,099.36	1,001.38	97.98	11.220	
17,300.00	11,130.62	18,449.50	12,192.65	86.23	101.48	166.98	6,305.90	420.02	1,093.80	994.02	99.79	10.962	
17,400.00	11,129.75	18,540.59	12,186.73	87.58	102.67	167.05	6,396.72	416.58	1,087.71	986.92	100.80	10.791	
17,500.00	11,128.88	18,618.27	12,183.06	88.93	103.69	167.11	6,474.27	413.90	1,083.39	981.75	101.64	10.659	
17,600.00	11,128.01	18,689.00	12,181.00	90.29	104.62	167.17	6,544.94	411.83	1,081.10	978.73	102.37	10.560	
17,635.78	11,127.70	18,718.24	12,180.63	90.77	105.01	167.19	6,574.16	411.04	1,080.86	978.18	102.68	10.526	
17,700.00	11,127.14	18,759.15	12,180.89	91.64	105.55	167.24	6,615.06	409.93	1,081.55	978.51	103.04	10.497	
17,800.00	11,126.26	18,841.22	12,183.28	93.00	106.63	167.34	6,697.07	407.96	1,084.85	981.02	103.84	10.448	
17,900.00	11,125.39	18,965.22	12,186.08	94.36	108.26	167.35	6,821.03	407.36	1,088.12	982.69	105.42	10.321	
18,000.00	11,124.52	19,078.36	12,185.52	95.71	109.75	167.22	6,934.15	408.89	1,088.98	982.01	106.97	10.181	
18,100.00	11,123.65	19,178.13	12,184.55	97.07	111.07	167.10	7,033.90	410.27	1,089.40	981.10	108.30	10.059	
18,200.00	11,122.78	19,288.37	12,183.11	98.43	112.52	166.94	7,144.12	412.27	1,089.62	979.78	109.85	9.919	
18,300.00	11,121.91	19,399.13	12,179.56	99.78	113.99	166.71	7,254.79	415.06	1,088.09	976.61	111.48	9.760	
18,400.00	11,121.04	19,488.53	12,177.19	101.14	115.18	166.55	7,344.13	416.98	1,087.08	974.33	112.74	9.642	
18,446.13	11,120.64	19,529.68	12,176.43	101.77	115.73	166.48	7,385.27	417.75	1,086.94	973.63	113.31	9.592	
18,500.00	11,120.17	19,577.55	12,175.82	102.50	116.37	166.42	7,433.13	418.53	1,087.06	973.09	113.97	9.538	
18,600.00	11,119.30	19,668.79	12,175.48	103.86	117.58	166.33	7,524.36	419.53	1,088.02	972.84	115.18	9.446	
18,700.00	11,118.42	19,786.69	12,175.24	105.22	119.16	166.24	7,642.25	420.31	1,089.15	972.33	116.82	9.324	
18,800.00	11,117.55	19,910.69	12,171.71	106.58	120.82	166.16	7,766.21	420.12	1,087.36	968.85	118.51	9.175	
18,900.00	11,116.68	19,990.07	12,169.62	107.94	121.89	166.14	7,845.55	419.38	1,085.67	966.17	119.50	9.085	
19,000.00	11,115.81	20,090.91	12,168.41	109.30	123.25	166.15	7,946.37	418.05	1,085.27	964.52	120.75	8.987	
19,100.00	11,114.94	20,188.78	12,166.69	110.66	124.57	166.11	8,044.23	417.79	1,084.57	962.53	122.04	8.887	
19,116.01	11,114.80	20,200.00	12,166.50	110.88	124.72	166.10	8,055.45	417.79	1,084.50	962.32	122.18	8.876	
19,200.00	11,114.07	20,254.09	12,166.56	112.02	125.45	166.09	8,109.53	417.58	1,085.47	962.70	122.78	8.841	
19,300.00	11,113.20	20,344.37	12,169.62	113.38	126.67	166.15	8,199.76	416.47	1,089.46	965.67	123.79	8.801	
19,400.00	11,112.33	20,537.16	12,166.12	114.74	129.29	166.15	8,392.42	414.35	1,088.27	961.84	126.43	8.608	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 138H(AC) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program:		176-3_MWD+HRGM		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,500.00	11,111.45	20,644.13	12,159.09	116.10	130.75	166.08	8,499.14	413.15	1,082.67	954.80	127.87	8.467		
19,600.00	11,110.58	20,744.05	12,152.64	117.47	132.11	166.04	8,598.84	411.54	1,077.09	947.89	129.20	8.337		
19,700.00	11,109.71	20,842.83	12,146.29	118.83	133.46	166.01	8,697.40	409.79	1,071.50	941.00	130.50	8.211		
19,800.00	11,108.84	20,930.17	12,141.09	120.19	134.66	165.97	8,784.58	408.55	1,066.47	934.78	131.69	8.098		
19,900.00	11,107.97	21,007.16	12,137.53	121.55	135.71	165.90	8,861.49	408.56	1,063.09	930.30	132.80	8.005		
19,981.36	11,107.26	21,065.21	12,136.03	122.66	136.50	165.82	8,919.51	409.13	1,062.15	928.53	133.61	7.949		
20,000.00	11,107.10	21,077.42	12,135.89	122.92	136.67	165.81	8,931.72	409.29	1,062.20	928.43	133.78	7.940		
20,100.00	11,106.23	21,143.00	12,136.40	124.28	137.56	165.74	8,997.29	410.35	1,064.44	929.86	134.58	7.909		
20,200.00	11,105.36	21,238.00	12,139.09	125.64	138.85	165.65	9,092.24	411.91	1,068.65	932.74	135.91	7.863		
20,300.00	11,104.49	21,332.37	12,142.36	127.01	140.14	165.61	9,186.54	412.91	1,073.35	936.18	137.17	7.825		
20,400.00	11,103.61	21,461.44	12,146.04	128.37	141.91	165.60	9,315.55	413.00	1,077.32	938.29	139.03	7.749		
20,500.00	11,102.74	21,586.98	12,145.34	129.73	143.63	165.63	9,441.08	411.35	1,077.35	936.65	140.70	7.657		
20,600.00	11,101.87	21,713.34	12,142.96	131.10	145.37	165.67	9,567.39	409.16	1,076.27	933.94	142.32	7.562		
20,700.00	11,101.00	21,813.75	12,139.56	132.46	146.75	165.68	9,667.72	407.27	1,073.59	929.99	143.61	7.476		
20,800.00	11,100.13	21,914.93	12,136.13	133.83	148.15	165.75	9,768.81	404.40	1,070.69	925.87	144.82	7.393		
20,900.00	11,099.26	22,006.68	12,133.56	135.19	149.42	165.82	9,860.48	401.60	1,068.30	922.42	145.88	7.323		
21,000.00	11,098.39	22,104.03	12,131.09	136.56	150.77	165.93	9,957.73	398.17	1,066.07	919.10	146.96	7.254		
21,071.91	11,097.76	22,156.35	12,130.57	137.54	151.49	166.02	10,010.00	395.95	1,065.40	917.95	147.45	7.225		
21,100.00	11,097.52	22,181.00	12,130.70	137.92	151.83	166.07	10,034.63	394.78	1,065.52	917.84	147.67	7.215		
21,200.00	11,096.65	22,283.88	12,131.20	139.29	153.26	166.31	10,137.38	389.67	1,065.88	917.27	148.61	7.172		
21,300.00	11,095.77	22,376.19	12,132.17	140.65	154.54	166.59	10,229.49	383.79	1,066.47	917.18	149.29	7.144		
21,400.00	11,094.90	22,476.00	12,133.50	142.02	155.93	166.92	10,329.06	377.07	1,067.29	917.28	150.01	7.115		
21,455.42	11,094.42	22,513.00	12,133.99	142.77	156.44	167.04	10,365.98	374.58	1,067.91	917.73	150.18	7.111		

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 214H(AC) - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 172-3_MWD+HRGM													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.74	-2.00	-155.00	155.01				
100.00	100.00	98.07	98.06	0.50	0.15	-90.94	-2.56	-155.60	155.63	154.98	0.66	237.493	ES
200.00	200.00	196.51	196.48	1.31	0.36	-91.53	-4.21	-157.38	157.48	155.81	1.66	94.601	
300.00	300.00	296.90	296.82	1.79	0.71	-92.14	-5.96	-159.52	159.66	157.16	2.50	63.784	
400.00	400.00	397.49	397.39	2.17	1.08	-92.68	-7.55	-161.26	161.46	158.21	3.24	49.792	
500.00	500.00	496.11	495.98	2.49	1.43	-93.20	-9.12	-163.09	163.40	159.47	3.92	41.671	
600.00	600.00	595.96	595.78	2.78	1.79	-93.77	-10.90	-165.55	165.96	161.39	4.57	36.324	
700.00	700.00	696.19	695.98	3.04	2.15	-94.11	-12.08	-167.94	168.42	163.23	5.19	32.438	
800.00	800.00	795.95	795.70	3.15	2.51	136.76	-12.99	-170.34	171.12	165.47	5.66	30.254	
900.00	899.96	896.34	896.07	3.43	2.87	137.19	-13.53	-172.77	175.49	169.22	6.26	28.012	
1,000.00	999.82	996.87	996.58	3.70	3.23	138.35	-13.38	-174.65	181.23	174.37	6.86	26.408	
1,100.00	1,099.51	1,096.72	1,096.41	3.95	3.59	139.91	-13.29	-176.42	188.93	181.48	7.45	25.349	
1,200.00	1,198.96	1,196.82	1,196.50	4.20	3.94	141.78	-13.30	-177.83	198.46	190.42	8.04	24.671	
1,300.00	1,298.11	1,296.04	1,295.72	4.36	4.30	143.93	-13.14	-178.97	210.03	201.47	8.56	24.525	
1,400.00	1,397.13	1,394.90	1,394.57	4.56	4.65	146.07	-12.94	-180.10	222.63	213.51	9.12	24.408	
1,500.00	1,496.16	1,494.24	1,493.90	4.75	5.00	147.97	-12.81	-181.18	235.44	225.76	9.68	24.325	
1,600.00	1,595.18	1,593.89	1,593.55	4.94	5.36	149.73	-12.52	-181.94	248.17	237.94	10.23	24.249	
1,700.00	1,694.21	1,693.35	1,693.00	5.14	5.71	151.35	-12.11	-182.43	260.88	250.09	10.79	24.187	
1,800.00	1,793.24	1,792.71	1,792.36	5.33	6.05	152.83	-11.65	-182.73	273.59	262.26	11.33	24.141	
1,900.00	1,892.26	1,891.39	1,891.04	5.52	6.40	154.16	-11.28	-182.98	286.41	274.53	11.88	24.112	
2,000.00	1,991.29	1,987.38	1,987.03	5.72	6.74	155.22	-11.43	-183.81	299.83	287.41	12.42	24.149	
2,100.00	2,090.31	2,081.92	2,081.52	5.91	7.08	155.80	-13.26	-186.35	314.61	301.66	12.95	24.301	
2,200.00	2,189.39	2,182.84	2,182.30	6.04	7.44	156.07	-16.70	-190.19	329.72	316.28	13.44	24.532	
2,300.00	2,288.77	2,284.65	2,284.02	6.26	7.80	156.26	-20.04	-192.88	341.61	327.58	14.03	24.355	
2,400.00	2,388.40	2,383.46	2,382.76	6.48	8.16	156.30	-22.99	-195.16	350.88	336.29	14.59	24.051	
2,500.00	2,488.22	2,477.74	2,476.97	6.69	8.49	156.22	-25.39	-198.06	358.61	343.49	15.12	23.717	
2,600.00	2,588.16	2,578.50	2,577.62	6.89	8.86	155.96	-27.67	-201.95	364.79	349.11	15.67	23.272	
2,700.00	2,688.16	2,680.45	2,679.50	6.97	9.23	-75.43	-29.43	-205.18	368.11	351.99	16.12	22.833	
2,800.00	2,788.16	2,775.00	2,774.01	7.07	9.57	-75.69	-30.52	-207.69	370.45	353.89	16.55	22.382	
2,900.00	2,888.16	2,869.00	2,867.89	7.17	9.91	-76.03	-31.65	-212.24	374.86	357.88	16.98	22.083	
3,000.00	2,988.16	2,965.90	2,964.54	7.27	10.26	-76.49	-33.08	-218.96	381.23	363.81	17.42	21.890	
3,100.00	3,088.16	3,070.13	3,068.58	7.37	10.64	-76.87	-34.25	-225.22	386.81	368.91	17.90	21.608	
3,200.00	3,188.16	3,170.80	3,169.11	7.47	11.01	-77.13	-34.87	-230.46	391.74	373.38	18.36	21.332	
3,300.00	3,288.16	3,271.21	3,269.39	7.57	11.37	-77.35	-35.22	-235.57	396.64	377.81	18.82	21.071	
3,400.00	3,388.16	3,374.76	3,372.84	7.66	11.75	-77.53	-35.49	-240.15	400.89	381.59	19.30	20.771	
3,500.00	3,488.16	3,476.55	3,474.56	7.76	12.12	-77.68	-35.78	-243.86	404.39	384.62	19.77	20.458	
3,600.00	3,588.16	3,570.29	3,568.23	7.86	12.46	-77.86	-36.26	-247.49	408.09	387.90	20.19	20.213	
3,700.00	3,688.16	3,662.39	3,660.10	7.96	12.79	-78.20	-37.46	-253.74	414.42	393.82	20.60	20.117	
3,800.00	3,788.16	3,768.43	3,765.90	8.05	13.18	-78.64	-39.25	-260.75	420.57	399.48	21.09	19.938	
3,900.00	3,888.16	3,875.11	3,872.42	8.15	13.57	-79.11	-41.80	-266.04	424.97	403.39	21.59	19.688	
4,000.00	3,988.16	3,983.46	3,980.66	8.25	13.96	-79.60	-44.81	-269.73	427.82	405.75	22.08	19.379	
4,100.00	4,088.16	4,086.27	4,083.41	8.34	14.33	-80.00	-47.52	-271.54	429.08	406.54	22.54	19.038	
4,200.00	4,188.16	4,182.90	4,179.97	8.44	14.68	-80.47	-50.76	-273.50	430.51	407.54	22.97	18.739	
4,300.00	4,288.16	4,282.79	4,279.77	8.53	15.03	-80.98	-54.24	-276.07	432.49	409.07	23.42	18.464	
4,400.00	4,388.16	4,376.71	4,373.59	8.63	15.37	-81.42	-57.14	-278.98	435.08	411.23	23.85	18.243	
4,500.00	4,488.16	4,468.75	4,465.49	8.72	15.71	-81.84	-59.72	-283.30	439.33	415.06	24.26	18.107	
4,600.00	4,588.16	4,567.62	4,564.19	8.82	16.07	-82.16	-61.46	-288.90	444.69	419.98	24.71	17.995	
4,700.00	4,688.16	4,674.00	4,670.44	8.91	16.46	-82.32	-61.97	-294.04	449.41	424.22	25.20	17.836	
4,800.00	4,788.16	4,782.22	4,778.61	9.00	16.84	-82.26	-61.10	-297.17	452.39	426.71	25.68	17.616	
4,900.00	4,888.16	4,886.57	4,882.94	9.10	17.20	-82.06	-59.34	-298.52	453.89	427.75	26.14	17.365	
5,000.00	4,988.16	4,986.50	4,982.85	9.19	17.55	-81.89	-57.79	-299.45	455.04	428.46	26.58	17.122	
5,100.00	5,088.16	5,087.96	5,084.29	9.29	17.90	-81.72	-56.32	-300.27	456.05	429.03	27.02	16.878	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 214H(AC) - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 172-3_MWD+HRGM													Offset Well Error: 0.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre	Distance	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,188.16	5,180.88	5,177.20	9.38	18.22	-81.61	-55.26	-301.28	457.31	429.87	27.44	16.668	
5,300.00	5,288.16	5,273.75	5,270.01	9.47	18.55	-81.71	-55.63	-304.58	460.75	432.90	27.85	16.542	
5,400.00	5,388.16	5,373.85	5,370.02	9.56	18.91	-81.93	-56.84	-308.84	464.79	436.49	28.30	16.421	
5,500.00	5,488.16	5,473.28	5,469.35	9.66	19.28	-82.19	-58.38	-312.92	468.64	439.89	28.75	16.298	
5,600.00	5,588.16	5,571.84	5,567.79	9.75	19.63	-82.46	-60.04	-317.31	472.83	443.63	29.20	16.193	
5,700.00	5,688.16	5,673.30	5,669.14	9.84	20.00	-82.74	-61.78	-321.86	477.05	447.40	29.66	16.086	
5,800.00	5,788.16	5,774.38	5,770.12	9.93	20.37	-83.00	-63.46	-325.97	480.89	450.77	30.11	15.969	
5,900.00	5,888.16	5,873.90	5,869.53	10.02	20.73	-83.30	-65.52	-330.00	484.67	454.10	30.56	15.858	
6,000.00	5,988.16	5,976.95	5,972.48	10.12	21.11	-83.64	-67.96	-333.98	488.24	457.21	31.03	15.737	
6,100.00	6,088.16	6,080.10	6,075.55	10.21	21.48	-83.95	-70.30	-337.13	491.02	459.53	31.49	15.594	
6,200.00	6,188.16	6,169.00	6,164.34	10.30	21.80	-84.29	-72.86	-340.78	494.80	462.91	31.89	15.516	
6,300.00	6,288.16	6,263.39	6,258.50	10.39	22.15	-84.76	-76.40	-346.30	500.26	467.95	32.31	15.482	
6,400.00	6,388.16	6,362.72	6,357.54	10.48	22.52	-85.30	-80.60	-352.64	506.26	473.50	32.76	15.453	
6,500.00	6,488.16	6,463.77	6,458.28	10.57	22.89	-85.88	-85.27	-358.99	512.19	478.97	33.22	15.419	
6,600.00	6,588.16	6,563.50	6,557.72	10.66	23.26	-86.42	-89.67	-365.12	518.03	484.36	33.67	15.387	
6,700.00	6,688.16	6,662.84	6,656.76	10.75	23.62	-86.97	-94.35	-371.32	523.99	489.88	34.11	15.360	
6,800.00	6,788.16	6,763.38	6,756.97	10.84	23.99	-87.57	-99.55	-377.51	529.90	495.33	34.57	15.329	
6,900.00	6,888.16	6,864.21	6,857.49	10.93	24.37	-88.16	-104.78	-383.65	535.80	500.78	35.02	15.299	
7,000.00	6,988.16	6,966.08	6,959.13	11.02	24.74	-88.56	-108.42	-389.27	541.22	505.74	35.48	15.253	
7,100.00	7,088.16	7,067.11	7,059.97	11.11	25.11	-88.88	-111.32	-394.78	546.61	510.67	35.94	15.210	
7,200.00	7,188.16	7,168.46	7,161.15	11.20	25.48	-89.19	-114.19	-399.80	551.52	515.12	36.39	15.154	
7,300.00	7,288.16	7,269.78	7,262.32	11.29	25.85	-89.47	-116.86	-404.75	556.38	519.53	36.85	15.099	
7,400.00	7,388.16	7,370.67	7,363.07	11.38	26.22	-89.78	-119.81	-409.30	560.87	523.57	37.30	15.036	
7,500.00	7,488.16	7,470.44	7,462.67	11.47	26.59	-90.14	-123.40	-413.78	565.36	527.61	37.75	14.976	
7,600.00	7,588.16	7,572.14	7,564.20	11.56	26.96	-90.52	-127.14	-418.23	569.76	531.55	38.21	14.913	
7,700.00	7,688.16	7,684.25	7,676.20	11.65	27.37	-90.85	-130.46	-421.85	573.04	534.34	38.70	14.809	
7,800.00	7,788.16	7,792.61	7,784.53	11.74	27.75	-91.00	-132.03	-423.29	574.39	535.23	39.16	14.667	
7,900.00	7,888.16	7,898.79	7,890.72	11.83	28.10	-91.04	-132.38	-423.30	574.40	534.80	39.60	14.505	
8,000.00	7,988.16	8,002.54	7,994.46	11.92	28.44	-91.02	-132.26	-422.57	573.69	533.67	40.02	14.335	
8,100.00	8,088.16	8,107.08	8,098.99	12.01	28.77	-91.10	-132.94	-420.93	572.13	531.69	40.44	14.147	
8,200.00	8,188.16	8,209.35	8,201.23	12.10	29.11	-91.17	-133.62	-418.75	570.01	529.15	40.86	13.950	
8,300.00	8,288.16	8,311.68	8,303.52	12.19	29.44	-91.22	-134.08	-416.20	567.54	526.26	41.28	13.748	
8,400.00	8,388.16	8,417.05	8,408.85	12.28	29.78	-91.13	-133.09	-412.94	564.43	522.73	41.70	13.535	
8,500.00	8,488.16	8,510.98	8,502.72	12.36	30.08	-91.04	-132.17	-409.76	561.05	518.94	42.11	13.323	
8,600.00	8,588.16	8,607.03	8,598.74	12.45	30.39	-90.96	-131.36	-407.76	558.94	516.42	42.52	13.146	
8,700.00	8,688.16	8,710.11	8,701.79	12.54	30.73	-90.91	-130.81	-405.64	556.87	513.93	42.94	12.968	
8,800.00	8,788.16	8,805.12	8,796.78	12.63	31.04	-90.87	-130.40	-403.62	554.75	511.40	43.35	12.797	
8,900.00	8,888.16	8,908.15	8,899.79	12.72	31.37	-90.75	-129.23	-401.89	553.06	509.28	43.77	12.634	
9,000.00	8,988.16	9,017.98	9,009.56	12.81	31.73	-90.73	-128.95	-398.51	549.97	505.76	44.21	12.441	
9,100.00	9,088.16	9,113.44	9,104.96	12.89	32.04	-90.80	-129.64	-395.19	546.50	501.88	44.62	12.248	
9,200.00	9,188.16	9,209.08	9,200.57	12.98	32.36	-90.82	-129.80	-392.46	543.66	498.63	45.03	12.072	
9,271.45	9,259.61	9,268.13	9,259.61	13.05	32.56	-90.80	-129.58	-391.79	542.85	497.53	45.32	11.979	
9,300.00	9,288.16	9,293.00	9,284.48	13.07	32.65	-90.79	-129.47	-391.91	542.98	497.55	45.43	11.952	
9,400.00	9,388.16	9,384.64	9,376.11	13.16	32.97	-90.78	-129.41	-393.37	544.55	498.70	45.85	11.877	
9,500.00	9,488.16	9,482.00	9,473.44	13.25	33.32	-90.85	-130.09	-395.65	546.91	500.62	46.29	11.816	
9,600.00	9,588.16	9,577.00	9,568.37	13.33	33.66	-91.07	-132.27	-398.32	549.78	503.06	46.72	11.769	
9,700.00	9,688.16	9,672.00	9,663.21	13.42	34.01	-91.46	-136.13	-402.26	554.00	506.85	47.14	11.751	
9,800.00	9,788.16	9,779.41	9,770.44	13.51	34.40	-91.91	-140.59	-406.59	558.18	510.56	47.61	11.723	
9,900.00	9,888.16	9,886.10	9,877.05	13.60	34.78	-92.24	-143.94	-409.12	560.66	512.58	48.08	11.662	
10,000.00	9,988.16	9,987.39	9,978.27	13.68	35.14	-92.55	-147.01	-410.82	562.47	513.94	48.52	11.592	
10,100.00	10,088.16	10,089.37	10,080.20	13.77	35.51	-92.81	-149.70	-412.47	564.21	515.24	48.97	11.521	
10,200.00	10,188.16	10,193.77	10,184.58	13.86	35.88	-92.96	-151.20	-413.35	565.12	515.70	49.42	11.434	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 214H(AC) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft			
Survey Program:		172-3_MWD+HRGM		Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Rule Assigned:		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
10,300.00	10,288.16	10,290.06	10,280.88	13.95	36.22	-92.95	-151.14	-414.06	565.86	516.01	49.85	11.350					
10,400.00	10,388.16	10,382.93	10,373.72	14.03	36.54	-92.82	-149.89	-415.95	567.82	517.55	50.27	11.294					
10,500.00	10,488.16	10,482.14	10,472.83	14.12	36.89	-92.49	-146.82	-418.92	570.67	519.96	50.71	11.254					
10,600.00	10,588.16	10,585.53	10,576.13	14.21	37.25	-92.15	-143.48	-421.50	573.02	521.87	51.15	11.202					
10,700.00	10,687.90	10,684.84	10,675.38	14.31	37.59	-98.14	-140.48	-423.64	575.87	524.33	51.54	11.173					
10,800.00	10,785.20	10,785.65	10,776.11	14.48	37.94	-99.51	-137.46	-425.83	581.46	529.56	51.90	11.204					
10,900.00	10,877.13	10,875.32	10,865.73	14.64	38.25	-101.65	-134.54	-427.56	591.04	538.83	52.21	11.321					
11,000.00	10,960.87	10,957.15	10,947.48	14.80	38.54	-103.95	-132.01	-429.77	607.89	555.39	52.50	11.579					
11,100.00	11,033.90	11,035.45	11,025.74	14.93	38.81	-106.10	-130.19	-431.90	634.11	581.30	52.81	12.008					
11,200.00	11,093.98	11,103.96	11,094.21	15.05	39.05	-107.10	-128.14	-432.99	670.74	617.60	53.13	12.624					
11,300.00	11,139.30	11,146.52	11,136.71	15.17	39.20	-105.05	-126.34	-434.01	719.52	666.08	53.43	13.465					
11,400.00	11,168.47	11,176.55	11,166.68	15.33	39.30	-100.29	-124.75	-435.15	779.62	725.91	53.72	14.514					
11,500.00	11,180.61	11,187.00	11,177.10	15.60	39.33	-91.75	-124.14	-435.63	848.70	794.76	53.94	15.735					
11,600.00	11,180.28	11,187.00	11,177.10	16.06	39.33	-89.11	-124.14	-435.63	923.27	869.16	54.11	17.062					
11,700.00	11,179.41	11,200.09	11,190.14	16.68	39.38	-90.36	-123.33	-436.32	1,000.14	945.83	54.31	18.415					
11,800.00	11,178.53	11,204.54	11,194.58	17.40	39.40	-90.75	-123.04	-436.57	1,078.80	1,024.32	54.49	19.800					
11,900.00	11,177.66	11,209.33	11,199.36	18.16	39.41	-91.15	-122.73	-436.86	1,158.99	1,104.36	54.63	21.214					
12,000.00	11,176.79	11,214.37	11,204.37	19.01	39.43	-91.57	-122.39	-437.18	1,241.77	1,186.99	54.78	22.668					
12,100.00	11,175.92	11,219.63	11,209.61	19.91	39.45	-92.02	-122.04	-437.53	1,326.91	1,271.99	54.91	24.163					
12,200.00	11,175.05	11,225.14	11,215.09	20.87	39.47	-92.48	-121.66	-437.92	1,413.97	1,358.93	55.04	25.690					
12,300.00	11,174.18	13,558.00	12,498.06	21.88	47.34	-154.31	1,214.11	-414.07	1,469.12	1,412.84	56.28	26.104					
12,400.00	11,173.31	13,614.64	12,498.97	22.92	47.67	-154.31	1,270.73	-415.23	1,471.84	1,415.18	56.66	25.976					
12,500.00	11,172.44	13,678.38	12,501.97	24.00	48.05	-154.33	1,334.38	-416.86	1,477.46	1,420.36	57.10	25.876					
12,600.00	11,171.56	13,763.31	12,507.25	25.10	48.58	-154.37	1,419.10	-419.54	1,484.77	1,427.09	57.69	25.739					
12,700.00	11,170.69	13,925.46	12,515.40	26.23	49.66	-154.42	1,580.97	-424.30	1,491.32	1,432.50	58.83	25.351					
12,800.00	11,169.82	14,067.45	12,515.66	27.39	50.67	-154.36	1,722.89	-428.09	1,492.85	1,432.91	59.94	24.905					
12,900.00	11,168.95	14,164.79	12,513.41	28.56	51.40	-154.18	1,820.06	-433.37	1,493.50	1,432.69	60.81	24.559					
13,000.00	11,168.08	14,251.45	12,511.23	29.75	52.08	-153.98	1,906.46	-439.58	1,494.74	1,433.09	61.65	24.246					
13,100.00	11,167.21	14,342.71	12,509.38	30.96	52.81	-153.72	1,997.37	-447.39	1,497.04	1,434.46	62.58	23.922					
13,200.00	11,166.34	14,434.00	12,507.36	32.17	53.57	-153.47	2,088.32	-454.92	1,499.14	1,435.59	63.55	23.591					
13,300.00	11,165.47	14,502.00	12,507.86	33.41	54.15	-153.32	2,156.08	-460.61	1,503.65	1,439.36	64.30	23.386					
13,400.00	11,164.60	14,627.25	12,510.64	34.65	55.25	-153.15	2,281.04	-468.66	1,509.13	1,443.52	65.62	22.999					
13,500.00	11,163.72	14,809.39	12,507.11	35.90	56.91	-152.96	2,463.01	-474.94	1,508.89	1,441.35	67.54	22.342					
13,600.00	11,162.85	14,918.93	12,502.39	37.16	57.94	-152.84	2,572.41	-477.68	1,506.53	1,437.75	68.78	21.905					
13,700.00	11,161.98	15,020.92	12,497.67	38.43	58.92	-152.73	2,674.27	-479.81	1,503.70	1,433.73	69.96	21.492					
13,800.00	11,161.11	15,111.05	12,494.49	39.70	59.80	-152.71	2,764.34	-480.27	1,501.14	1,430.13	71.02	21.138					
13,900.00	11,160.24	15,200.77	12,492.45	40.98	60.69	-152.71	2,854.04	-480.26	1,499.45	1,427.39	72.06	20.808					
14,000.00	11,159.37	15,301.48	12,490.46	42.27	61.70	-152.73	2,954.73	-480.29	1,498.03	1,424.80	73.23	20.455					
14,097.08	11,158.52	15,352.00	12,489.31	43.52	62.22	-152.73	3,005.23	-480.39	1,497.26	1,423.37	73.88	20.266					
14,100.00	11,158.50	15,377.06	12,488.95	43.56	62.47	-152.73	3,030.29	-480.48	1,496.87	1,422.71	74.16	20.184					
14,200.00	11,157.63	15,447.00	12,490.55	44.86	63.20	-152.78	3,100.20	-480.91	1,499.06	1,424.06	75.00	19.987					
14,300.00	11,156.75	15,509.40	12,493.52	46.16	63.85	-152.84	3,162.53	-481.36	1,503.40	1,427.66	75.74	19.849					
14,400.00	11,155.88	15,608.48	12,497.93	47.46	64.90	-152.95	3,261.51	-481.86	1,507.92	1,431.03	76.89	19.612					
14,500.00	11,155.01	15,795.45	12,503.49	48.77	66.91	-153.15	3,448.36	-481.46	1,511.77	1,432.75	79.02	19.131					
14,600.00	11,154.14	15,901.27	12,501.03	50.08	68.07	-153.18	3,554.15	-480.62	1,509.63	1,429.30	80.33	18.792					
14,670.26	11,153.53	15,949.75	12,500.27	51.01	68.61	-153.18	3,602.62	-480.88	1,509.08	1,428.10	80.98	18.635					
14,700.00	11,153.27	15,968.88	12,500.14	51.40	68.82	-153.18	3,621.75	-481.13	1,509.18	1,427.94	81.24	18.577					
14,800.00	11,152.40	16,082.55	12,500.46	52.72	70.09	-153.18	3,735.40	-482.87	1,510.60	1,427.90	82.70	18.265					
14,900.00	11,151.53	16,181.60	12,499.80	54.04	71.20	-153.25	3,834.45	-481.86	1,509.90	1,425.96	83.94	17.987					
15,000.00	11,150.66	16,342.38	12,496.56	55.36	73.03	-153.36	3,995.15	-479.17	1,507.67	1,421.78	85.88	17.555					
15,100.00	11,149.79	16,444.36	12,492.48	56.69	74.21	-153.42	4,097.02	-476.80	1,503.40	1,416.21	87.19	17.243					
15,200.00	11,148.91	16,551.06	12,487.91	58.02	75.45	-153.47	4,203.60	-474.54	1,498.98	1,410.41	88.56	16.925					

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 214H(AC) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 172-3_MWD+HRGM												Offset Well Error:	0.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,300.00	11,148.04	16,661.77	12,481.89	59.35	76.75	-153.50	4,314.11	-472.19	1,493.47	1,403.46	90.02	16.591	
15,400.00	11,147.17	16,737.72	12,477.88	60.68	77.65	-153.50	4,389.96	-471.35	1,488.66	1,397.55	91.11	16.339	
15,500.00	11,146.30	16,811.72	12,475.61	62.01	78.54	-153.52	4,463.92	-470.72	1,485.82	1,393.67	92.16	16.123	
15,600.00	11,145.43	16,891.00	12,473.50	63.35	79.48	-153.54	4,543.17	-470.21	1,483.69	1,390.43	93.26	15.909	
15,640.80	11,145.07	16,920.95	12,472.90	63.89	79.85	-153.54	4,573.11	-470.33	1,483.27	1,389.59	93.69	15.832	
15,700.00	11,144.56	16,947.36	12,472.85	64.68	80.17	-153.53	4,599.51	-470.88	1,483.93	1,389.85	94.07	15.774	
15,800.00	11,143.69	17,000.28	12,474.02	66.02	80.81	-153.50	4,652.37	-473.14	1,487.96	1,393.13	94.83	15.691	
15,900.00	11,142.82	17,125.36	12,477.47	67.36	82.34	-153.40	4,777.24	-479.54	1,493.21	1,396.47	96.74	15.436	
16,000.00	11,141.95	17,240.07	12,477.94	68.70	83.75	-153.31	4,891.86	-484.00	1,495.56	1,397.07	98.49	15.185	
16,100.00	11,141.07	17,318.08	12,478.74	70.04	84.71	-153.24	4,969.78	-487.62	1,498.93	1,399.24	99.69	15.036	
16,200.00	11,140.20	17,539.44	12,474.91	71.39	87.47	-152.98	5,190.81	-496.34	1,500.06	1,396.95	103.11	14.548	
16,300.00	11,139.33	17,602.97	12,472.08	72.73	88.27	-152.93	5,254.27	-497.08	1,497.11	1,392.94	104.17	14.371	
16,335.66	11,139.02	17,622.71	12,471.53	73.21	88.52	-152.92	5,274.00	-497.59	1,496.78	1,392.26	104.51	14.322	
16,400.00	11,138.46	17,647.00	12,471.09	74.08	88.82	-152.89	5,298.27	-498.41	1,497.20	1,392.28	104.92	14.269	
16,500.00	11,137.59	17,712.64	12,470.99	75.42	89.65	-152.80	5,363.80	-502.02	1,500.16	1,394.15	106.01	14.151	
16,600.00	11,136.72	17,901.08	12,470.44	76.77	92.04	-152.56	5,551.94	-511.29	1,503.13	1,394.03	109.10	13.778	
16,700.00	11,135.85	17,986.35	12,468.28	78.12	93.13	-152.53	5,637.18	-512.23	1,501.80	1,391.36	110.44	13.598	
16,800.00	11,134.98	18,135.15	12,464.42	79.47	95.03	-152.47	5,785.88	-514.36	1,500.82	1,388.14	112.68	13.319	
16,900.00	11,134.10	18,213.00	12,461.62	80.82	96.02	-152.46	5,863.68	-514.23	1,497.90	1,383.97	113.93	13.148	
17,000.00	11,133.23	18,308.00	12,458.82	82.17	97.24	-152.43	5,958.64	-515.01	1,495.99	1,380.56	115.43	12.960	
17,080.22	11,132.53	18,361.46	12,457.92	83.25	97.93	-152.42	6,012.08	-515.48	1,495.34	1,379.04	116.30	12.857	
17,100.00	11,132.36	18,375.31	12,457.86	83.52	98.11	-152.42	6,025.94	-515.54	1,495.38	1,378.87	116.52	12.834	
17,200.00	11,131.49	18,542.97	12,455.81	84.87	100.25	-152.64	6,193.45	-510.59	1,493.08	1,374.48	118.61	12.589	
17,300.00	11,130.62	18,616.97	12,454.84	86.23	101.20	-152.80	6,267.32	-506.32	1,489.67	1,370.12	119.56	12.460	
17,400.00	11,129.75	18,685.00	12,455.43	87.58	102.07	-152.95	6,335.28	-503.19	1,488.58	1,368.17	120.41	12.362	
17,403.31	11,129.72	18,685.00	12,455.43	87.62	102.07	-152.95	6,335.28	-503.19	1,488.58	1,368.16	120.41	12.362	
17,500.00	11,128.88	18,762.13	12,457.15	88.93	103.07	-153.10	6,412.35	-500.68	1,489.36	1,368.00	121.36	12.272	
17,600.00	11,128.01	18,824.27	12,459.03	90.29	103.87	-153.20	6,474.45	-499.71	1,491.80	1,369.66	122.13	12.214	
17,700.00	11,127.14	18,897.54	12,462.56	91.64	104.83	-153.25	6,547.61	-500.99	1,497.06	1,373.94	123.12	12.159	
17,800.00	11,126.26	19,154.49	12,461.74	93.00	108.19	-153.52	6,804.33	-496.49	1,494.56	1,368.04	126.52	11.813	
17,900.00	11,125.39	19,325.04	12,452.16	94.36	110.39	-153.95	6,973.91	-481.53	1,484.98	1,356.96	128.02	11.599	
18,000.00	11,124.52	19,347.00	12,450.89	95.71	110.67	-154.02	6,995.72	-479.25	1,477.52	1,348.90	128.61	11.488	
18,100.00	11,123.65	19,411.65	12,449.08	97.07	111.52	-154.20	7,060.13	-474.22	1,472.82	1,343.45	129.37	11.385	
18,158.17	11,123.14	19,442.00	12,449.47	97.86	111.91	-154.26	7,090.46	-473.04	1,472.51	1,342.76	129.75	11.349	
18,200.00	11,122.78	19,456.64	12,449.84	98.43	112.10	-154.28	7,105.09	-472.71	1,473.01	1,343.09	129.92	11.338	
18,300.00	11,121.91	19,536.00	12,451.76	99.78	113.15	-154.35	7,184.42	-472.84	1,475.61	1,344.63	130.98	11.266	
18,400.00	11,121.04	19,634.86	12,452.81	101.14	114.47	-154.25	7,283.15	-477.64	1,479.04	1,346.36	132.68	11.147	
18,500.00	11,120.17	19,843.28	12,442.33	102.50	117.29	-153.55	7,490.48	-495.37	1,478.52	1,341.41	137.11	10.783	
18,600.00	11,119.30	19,980.43	12,431.10	103.86	119.13	-153.34	7,627.12	-497.74	1,471.95	1,332.46	139.49	10.553	
18,700.00	11,118.42	20,050.96	12,426.59	105.22	120.08	-153.31	7,697.51	-497.24	1,466.32	1,325.54	140.78	10.416	
18,800.00	11,117.55	20,101.00	12,425.02	106.58	120.74	-153.35	7,747.51	-496.06	1,463.18	1,321.56	141.62	10.332	
18,867.92	11,116.96	20,153.35	12,424.71	107.50	121.44	-153.41	7,799.84	-494.78	1,462.43	1,320.10	142.32	10.275	
18,900.00	11,116.68	20,172.09	12,424.89	107.94	121.69	-153.44	7,818.57	-494.47	1,462.57	1,320.00	142.58	10.258	
19,000.00	11,115.81	20,236.20	12,426.48	109.30	122.55	-153.51	7,882.66	-494.02	1,464.79	1,321.40	143.39	10.215	
19,100.00	11,114.94	20,313.47	12,429.74	110.66	123.59	-153.59	7,959.86	-494.60	1,469.18	1,324.78	144.40	10.174	
19,200.00	11,114.07	20,442.95	12,433.45	112.02	125.34	-153.58	8,089.23	-498.29	1,473.45	1,326.94	146.51	10.057	
19,300.00	11,113.20	20,553.16	12,433.52	113.38	126.83	-153.48	8,199.34	-502.77	1,475.64	1,327.16	148.48	9.938	
19,400.00	11,112.33	20,672.18	12,432.71	114.74	128.45	-153.35	8,318.25	-507.98	1,477.37	1,326.70	150.67	9.806	
19,500.00	11,111.45	20,784.31	12,431.50	116.10	129.97	-153.31	8,430.34	-510.10	1,477.57	1,325.04	152.53	9.687	
19,600.00	11,110.58	20,875.59	12,431.28	117.47	131.21	-153.30	8,521.61	-511.49	1,478.34	1,324.34	154.00	9.600	
19,700.00	11,109.71	20,995.26	12,427.95	118.83	132.84	-153.18	8,641.19	-514.80	1,477.27	1,321.12	156.15	9.461	
19,730.69	11,109.45	21,016.61	12,427.34	119.25	133.13	-153.15	8,662.51	-515.70	1,477.17	1,320.61	156.57	9.435	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 214H(AC) - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 172-3_MWD+HRGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		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	
19,800.00	11,108.84	21,045.00	12,426.66	120.19	133.52	-153.11	8,690.85	-517.08	1,477.86	1,320.75	157.11	9.407	
19,900.00	11,107.97	21,139.00	12,426.60	121.55	134.81	-152.97	8,784.70	-522.35	1,480.70	1,321.78	158.92	9.317	
20,000.00	11,107.10	21,297.97	12,425.81	122.92	136.98	-152.82	8,943.51	-528.40	1,482.59	1,320.77	161.82	9.162	
20,100.00	11,106.23	21,422.00	12,420.41	124.28	138.68	-152.70	9,067.38	-530.95	1,479.76	1,315.71	164.05	9.020	
20,200.00	11,105.36	21,517.00	12,416.53	125.64	139.99	-152.60	9,162.28	-533.15	1,477.52	1,311.68	165.84	8.909	
20,300.00	11,104.49	21,611.00	12,412.50	127.01	141.28	-152.46	9,256.13	-536.48	1,475.68	1,307.96	167.72	8.799	
20,400.00	11,103.61	21,705.00	12,409.04	128.37	142.58	-152.33	9,350.00	-539.84	1,474.39	1,304.81	169.59	8.694	
20,418.56	11,103.45	21,705.00	12,409.04	128.62	142.58	-152.33	9,350.00	-539.84	1,474.28	1,304.66	169.62	8.692	
20,500.00	11,102.74	21,742.88	12,408.71	129.73	143.10	-152.29	9,387.85	-541.27	1,475.42	1,305.10	170.32	8.663	
20,600.00	11,101.87	21,800.00	12,410.32	131.10	143.89	-152.24	9,444.86	-544.48	1,480.41	1,309.15	171.26	8.644	
20,700.00	11,101.00	21,955.38	12,414.27	132.46	146.03	-152.14	9,600.00	-551.58	1,485.52	1,311.33	174.19	8.528	
20,800.00	11,100.13	22,073.41	12,415.20	133.83	147.65	-152.20	9,718.01	-552.11	1,486.70	1,310.70	176.00	8.447	
20,900.00	11,099.26	22,173.84	12,416.75	135.19	149.02	-152.33	9,818.42	-550.35	1,487.57	1,310.28	177.30	8.390	
21,000.00	11,098.39	22,316.50	12,416.43	136.56	150.97	-152.53	9,961.01	-546.35	1,486.14	1,307.10	179.04	8.300	
21,100.00	11,097.52	22,407.92	12,415.79	137.92	152.22	-152.66	10,052.39	-543.67	1,484.50	1,304.26	180.24	8.236	
21,200.00	11,096.65	22,524.56	12,415.30	139.29	153.81	-152.84	10,168.96	-539.65	1,482.94	1,301.34	181.60	8.166	
21,300.00	11,095.77	22,649.78	12,412.51	140.65	155.52	-153.03	10,294.04	-534.41	1,479.34	1,296.32	183.02	8.083	
21,400.00	11,094.90	22,703.00	12,410.88	142.02	156.25	-153.11	10,347.19	-532.28	1,475.87	1,292.01	183.86	8.027	
21,415.53	11,094.77	22,703.00	12,410.88	142.23	156.25	-153.11	10,347.19	-532.28	1,475.79	1,291.91	183.88	8.026 SF	
21,455.42	11,094.42	22,703.00	12,410.88	142.77	156.25	-153.11	10,347.19	-532.28	1,476.33	1,292.47	183.86	8.030	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 218H(AC) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 176-3_MWD+HRGM												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-91.09	-2.00	-105.00	105.02				
100.00	100.00	98.88	98.88	0.50	0.15	-91.14	-2.09	-105.05	105.07	104.42	0.66	160.397	
200.00	200.00	198.80	198.80	1.31	0.35	-91.30	-2.39	-105.21	105.24	103.57	1.66	63.289	
300.00	300.00	299.80	299.79	1.79	0.71	-91.96	-3.59	-105.06	105.13	102.63	2.50	42.040	
400.00	400.00	399.82	399.80	2.17	1.07	-92.81	-5.11	-104.05	104.18	100.95	3.23	32.212	
500.00	500.00	500.42	500.37	2.49	1.42	-93.68	-6.62	-103.01	103.23	99.32	3.92	26.359	
600.00	600.00	600.50	600.44	2.78	1.78	-94.51	-8.01	-101.49	101.82	97.26	4.56	22.318	
700.00	700.00	700.26	700.17	3.04	2.14	-95.49	-9.62	-100.05	100.52	95.34	5.18	19.392	
779.64	779.64	779.25	779.15	3.13	2.42	135.00	-10.85	-99.26	100.15	94.60	5.55	18.038	
800.00	800.00	799.45	799.35	3.15	2.49	134.76	-11.19	-99.14	100.00	94.35	5.65	17.712	
900.00	899.96	899.23	899.12	3.43	2.85	135.24	-12.15	-98.98	101.79	95.54	6.25	16.289	
1,000.00	999.82	1,000.29	1,000.18	3.70	3.21	136.93	-12.63	-98.05	104.69	97.85	6.84	15.298	
1,100.00	1,099.51	1,100.32	1,100.19	3.95	3.55	139.90	-12.17	-96.52	109.01	101.58	7.43	14.674	
1,200.00	1,198.96	1,199.73	1,199.59	4.20	3.90	143.51	-11.42	-95.15	115.87	107.86	8.01	14.460	
1,300.00	1,298.11	1,299.29	1,299.13	4.36	4.24	147.23	-10.99	-93.55	125.06	116.53	8.53	14.658	
1,400.00	1,397.13	1,397.08	1,396.91	4.56	4.58	150.83	-10.04	-92.09	135.70	126.62	9.08	14.947	
1,500.00	1,496.16	1,494.65	1,494.47	4.75	4.91	153.82	-8.99	-92.03	148.21	138.60	9.61	15.415	
1,600.00	1,595.18	1,594.33	1,594.14	4.94	5.25	156.53	-7.52	-92.06	161.26	151.11	10.16	15.875	
1,700.00	1,694.21	1,693.70	1,693.50	5.14	5.60	158.83	-6.22	-91.45	173.96	163.26	10.70	16.252	
1,800.00	1,793.24	1,791.81	1,791.60	5.33	5.94	160.20	-6.68	-91.64	187.05	175.81	11.24	16.639	
1,900.00	1,892.26	1,891.58	1,891.38	5.52	6.28	161.36	-7.22	-92.15	200.51	188.72	11.79	17.009	
2,000.00	1,991.29	1,992.03	1,991.82	5.72	6.64	162.43	-7.87	-91.95	213.35	201.01	12.34	17.286	
2,100.00	2,090.31	2,091.51	2,091.29	5.91	6.99	163.33	-8.76	-91.41	225.84	212.95	12.89	17.515	
2,200.00	2,189.39	2,190.35	2,190.13	6.04	7.34	164.28	-9.12	-90.68	238.01	224.63	13.37	17.797	
2,300.00	2,288.77	2,289.23	2,289.01	6.26	7.69	165.21	-8.56	-89.77	248.15	234.21	13.94	17.799	
2,400.00	2,388.40	2,389.46	2,389.23	6.48	8.04	166.03	-7.60	-88.68	255.84	241.33	14.51	17.634	
2,500.00	2,488.22	2,490.62	2,490.37	6.69	8.39	166.67	-6.73	-87.23	260.69	245.61	15.07	17.294	
2,600.00	2,588.16	2,596.46	2,596.18	6.89	8.77	167.25	-6.09	-84.41	261.80	246.15	15.65	16.728	
2,700.00	2,688.16	2,706.26	2,705.76	6.97	9.16	-63.25	-6.69	-77.75	256.84	240.72	16.12	15.935	
2,800.00	2,788.16	2,807.21	2,806.37	7.07	9.52	-62.72	-8.18	-69.69	249.05	232.48	16.58	15.025	
2,900.00	2,888.16	2,906.63	2,905.48	7.17	9.88	-62.03	-8.96	-61.84	241.69	224.65	17.03	14.190	
3,000.00	2,988.16	3,007.98	3,006.48	7.27	10.25	-61.63	-11.37	-53.86	233.62	216.13	17.49	13.358	
3,100.00	3,088.16	3,106.57	3,104.73	7.37	10.61	-61.20	-13.73	-45.97	225.45	207.51	17.94	12.565	
3,200.00	3,188.16	3,205.85	3,203.71	7.47	10.97	-60.71	-15.69	-38.51	217.93	199.53	18.40	11.845	
3,300.00	3,288.16	3,306.51	3,304.06	7.57	11.34	-60.43	-18.65	-31.15	210.11	191.26	18.85	11.144	
3,400.00	3,388.16	3,405.44	3,402.67	7.66	11.70	-60.39	-22.43	-24.22	202.13	182.82	19.31	10.469	
3,500.00	3,488.16	3,504.59	3,501.54	7.76	12.06	-60.49	-26.38	-17.94	194.66	174.89	19.76	9.851	
3,600.00	3,588.16	3,601.60	3,598.33	7.86	12.41	-60.61	-29.97	-12.37	187.84	167.63	20.21	9.295	
3,700.00	3,688.16	3,701.03	3,697.60	7.96	12.78	-60.57	-32.63	-7.39	182.16	161.50	20.66	8.816	
3,800.00	3,788.16	3,807.37	3,803.63	8.05	13.17	-60.16	-35.38	0.02	174.84	153.72	21.12	8.278	
3,900.00	3,888.16	3,914.11	3,909.61	8.15	13.56	-59.51	-40.01	11.78	163.12	141.57	21.55	7.569	
4,000.00	3,988.16	4,014.58	4,008.99	8.25	13.95	-58.51	-45.19	25.60	148.66	126.67	22.00	6.758	
4,100.00	4,088.16	4,110.51	4,103.98	8.34	14.31	-57.30	-49.61	38.25	135.04	112.56	22.47	6.009	
4,200.00	4,188.16	4,207.01	4,199.85	8.44	14.67	-56.28	-53.58	48.47	123.92	100.97	22.94	5.401	
4,300.00	4,288.16	4,306.25	4,298.55	8.53	15.05	-55.87	-58.61	57.46	113.57	90.17	23.40	4.853	
4,400.00	4,388.16	4,403.77	4,395.68	8.63	15.41	-55.62	-63.14	64.99	104.57	80.71	23.86	4.382	
4,500.00	4,488.16	4,502.63	4,494.23	8.72	15.78	-54.54	-65.90	72.23	96.96	72.65	24.32	3.987	
4,600.00	4,588.16	4,601.99	4,593.26	8.82	16.14	-52.35	-67.29	80.08	89.78	65.00	24.78	3.624	
4,700.00	4,688.16	4,701.32	4,692.22	8.91	16.51	-48.36	-66.58	88.66	83.56	58.32	25.24	3.311	
4,800.00	4,788.16	4,801.22	4,791.59	9.00	16.88	-42.41	-64.87	98.81	77.51	51.80	25.71	3.015	
4,900.00	4,888.16	4,900.55	4,890.33	9.10	17.25	-35.12	-62.79	109.36	72.46	46.28	26.18	2.768	
5,000.00	4,988.16	5,000.21	4,989.66	9.19	17.61	-29.36	-62.37	117.46	68.46	41.82	26.65	2.569	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 218H(AC) - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 176-3_MWD+HRGM													Offset Well Error: 0.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,088.16	5,099.90	5,089.11	9.29	17.98	-24.08	-62.59	124.45	65.10	37.99	27.11	2.401	
5,200.00	5,188.16	5,200.62	5,189.60	9.38	18.35	-18.74	-63.44	131.14	61.88	34.30	27.58	2.244	
5,300.00	5,288.16	5,300.71	5,289.41	9.47	18.72	-12.80	-65.70	138.21	57.78	29.73	28.04	2.060	
5,400.00	5,388.16	5,400.47	5,388.89	9.56	19.09	-6.00	-68.12	145.33	54.20	25.70	28.51	1.901	Collision Risk Procedures Req.
5,500.00	5,488.16	5,500.27	5,488.38	9.66	19.46	1.98	-70.63	152.77	51.41	22.44	28.97	1.775	Collision Risk Procedures Req.
5,600.00	5,588.16	5,599.77	5,587.57	9.75	19.83	10.67	-73.08	160.22	49.79	20.36	29.42	1.692	Collision Risk Procedures Req.
5,664.28	5,652.43	5,663.82	5,651.43	9.81	20.07	16.33	-74.48	164.92	49.52	19.81	29.71	1.667	Collision Risk Procedures Req., CC
5,700.00	5,688.16	5,699.43	5,686.94	9.84	20.20	19.43	-75.23	167.50	49.60	19.73	29.87	1.661	Collision Risk Procedures Req., ES, SF
5,800.00	5,788.16	5,799.18	5,786.41	9.93	20.57	27.85	-77.31	174.61	50.55	20.25	30.31	1.668	Collision Risk Procedures Req.
5,900.00	5,888.16	5,898.82	5,885.79	10.02	20.94	35.53	-79.20	181.57	52.61	21.87	30.74	1.711	Collision Risk Procedures Req.
6,000.00	5,988.16	5,998.80	5,985.54	10.12	21.31	42.02	-80.76	188.16	55.53	24.36	31.18	1.781	Collision Risk Procedures Req.
6,100.00	6,088.16	6,099.50	6,086.05	10.21	21.68	47.92	-83.27	193.89	57.80	26.18	31.61	1.828	Collision Risk Procedures Req.
6,200.00	6,188.16	6,199.52	6,185.92	10.30	22.05	52.98	-86.01	198.72	59.78	27.73	32.05	1.865	Collision Risk Procedures Req.
6,300.00	6,288.16	6,299.56	6,285.82	10.39	22.41	57.41	-88.63	203.19	61.97	29.48	32.49	1.907	Collision Risk Procedures Req.
6,400.00	6,388.16	6,399.59	6,385.73	10.48	22.78	61.29	-91.24	207.16	64.05	31.13	32.93	1.945	Collision Risk Procedures Req.
6,500.00	6,488.16	6,499.42	6,485.46	10.57	23.14	64.62	-93.51	211.06	66.49	33.13	33.37	1.993	Collision Risk Procedures Req.
6,600.00	6,588.16	6,599.46	6,585.39	10.66	23.50	67.88	-96.00	214.97	69.08	35.27	33.81	2.043	
6,700.00	6,688.16	6,699.96	6,685.81	10.75	23.86	70.68	-98.37	218.38	71.42	37.17	34.25	2.085	
6,800.00	6,788.16	6,800.45	6,786.27	10.84	24.22	72.22	-99.74	220.39	72.88	38.19	34.69	2.101	
6,900.00	6,888.16	6,900.48	6,886.28	10.93	24.58	73.40	-100.85	221.93	74.02	38.89	35.13	2.107	
7,000.00	6,988.16	7,000.57	6,986.35	11.02	24.94	74.71	-102.17	223.51	75.18	39.61	35.57	2.113	
7,100.00	7,088.16	7,100.47	7,086.23	11.11	25.29	76.01	-103.56	225.02	76.29	40.27	36.02	2.118	
7,200.00	7,188.16	7,200.92	7,186.65	11.20	25.65	77.47	-105.23	226.43	77.28	40.82	36.46	2.120	
7,300.00	7,288.16	7,300.97	7,286.68	11.29	26.00	79.18	-107.38	227.49	77.88	40.98	36.89	2.111	
7,400.00	7,388.16	7,401.14	7,386.82	11.38	26.35	80.87	-109.56	228.41	78.40	41.07	37.33	2.100	
7,500.00	7,488.16	7,500.93	7,486.58	11.47	26.70	82.59	-111.81	229.33	78.99	41.22	37.77	2.091	
7,600.00	7,588.16	7,601.05	7,586.66	11.56	27.05	84.57	-114.46	230.31	79.67	41.46	38.21	2.085	
7,700.00	7,688.16	7,701.27	7,686.82	11.65	27.40	86.92	-117.70	231.06	80.17	41.53	38.65	2.075	
7,800.00	7,788.16	7,801.27	7,786.74	11.74	27.75	89.73	-121.61	231.61	80.61	41.53	39.08	2.063	
7,900.00	7,888.16	7,901.38	7,886.76	11.83	28.10	92.73	-125.87	232.14	81.23	41.72	39.52	2.056	
8,000.00	7,988.16	8,001.70	7,987.04	11.92	28.45	94.60	-128.53	232.06	81.32	41.37	39.95	2.035	
8,100.00	8,088.16	8,100.92	8,086.24	12.01	28.79	95.96	-130.52	232.52	81.97	41.57	40.40	2.029	
8,200.00	8,188.16	8,200.20	8,185.49	12.10	29.14	97.61	-133.05	233.78	83.54	42.69	40.84	2.045	
8,300.00	8,288.16	8,299.48	8,284.71	12.19	29.50	99.04	-135.51	235.84	85.95	44.65	41.29	2.081	
8,400.00	8,388.16	8,398.96	8,384.12	12.28	29.86	100.35	-138.00	238.65	89.15	47.41	41.74	2.136	
8,500.00	8,488.16	8,498.77	8,483.85	12.36	30.22	101.60	-140.62	241.71	92.66	50.47	42.19	2.196	
8,600.00	8,588.16	8,599.08	8,584.08	12.45	30.58	102.74	-143.20	244.73	96.14	53.51	42.63	2.255	
8,700.00	8,688.16	8,699.40	8,684.36	12.54	30.94	102.86	-144.05	247.58	99.10	56.02	43.08	2.300	
8,800.00	8,788.16	8,799.30	8,784.22	12.63	31.30	102.89	-144.73	250.31	101.92	58.39	43.53	2.342	
8,900.00	8,888.16	8,898.90	8,883.77	12.72	31.66	103.38	-146.27	253.06	104.96	60.99	43.97	2.387	
9,000.00	8,988.16	8,998.33	8,983.13	12.81	32.02	103.81	-147.87	256.21	108.42	64.00	44.42	2.441	
9,100.00	9,088.16	9,098.13	9,082.84	12.89	32.38	104.75	-150.56	259.44	112.22	67.35	44.87	2.501	
9,200.00	9,188.16	9,198.55	9,183.14	12.98	32.74	106.34	-154.59	262.14	115.89	70.57	45.31	2.557	
9,300.00	9,288.16	9,302.38	9,286.91	13.07	33.11	107.62	-157.61	263.13	117.65	71.91	45.74	2.572	
9,400.00	9,388.16	9,402.87	9,387.39	13.16	33.45	108.37	-159.05	262.56	117.55	71.38	46.17	2.546	
9,419.54	9,407.69	9,422.17	9,406.69	13.18	33.52	108.56	-159.41	262.42	117.53	71.27	46.25	2.541	
9,500.00	9,488.16	9,502.30	9,486.79	13.25	33.79	109.60	-161.53	261.99	117.82	71.21	46.60	2.528	
9,600.00	9,588.16	9,604.26	9,588.73	13.33	34.13	110.56	-163.16	260.77	117.25	70.23	47.02	2.494	
9,700.00	9,688.16	9,704.78	9,689.22	13.42	34.46	110.18	-161.80	259.32	115.42	67.99	47.43	2.433	
9,800.00	9,788.16	9,804.07	9,788.50	13.51	34.78	109.66	-160.39	258.45	114.11	66.25	47.85	2.384	
9,900.00	9,888.16	9,904.82	9,889.24	13.60	35.11	109.67	-159.92	257.10	112.70	64.43	48.27	2.335	
10,000.00	9,988.16	10,004.85	9,989.24	13.68	35.43	109.83	-159.50	254.97	110.55	61.87	48.68	2.271	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 218H(AC) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft		
Survey Program:		176-3_MWD+HRGM		Reference			Offset		Semi Maior Axis		Offset Wellbore Centre		Rule Assigned:		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
10,100.00	10,088.16	10,104.40	10,088.78	13.77	35.76	109.98	-159.25	253.46	109.03	59.93	49.10	2.221				
10,195.54	10,183.69	10,198.32	10,182.69	13.86	36.07	109.95	-158.84	252.48	107.96	58.45	49.52	2.180				
10,200.00	10,188.16	10,202.64	10,187.01	13.86	36.08	109.94	-158.82	252.49	107.96	58.43	49.54	2.180				
10,300.00	10,288.16	10,301.53	10,285.90	13.95	36.43	109.62	-158.59	253.66	108.99	59.02	49.98	2.181				
10,400.00	10,388.16	10,401.76	10,386.12	14.03	36.78	110.08	-159.78	254.34	110.04	59.62	50.42	2.183				
10,500.00	10,488.16	10,501.80	10,486.14	14.12	37.13	110.98	-161.72	254.59	110.94	60.09	50.86	2.181				
10,600.00	10,588.16	10,602.24	10,586.56	14.21	37.48	111.91	-163.68	254.65	111.71	60.42	51.29	2.178				
10,700.00	10,687.90	10,703.24	10,687.55	14.31	37.83	109.39	-165.32	253.97	113.46	61.77	51.68	2.195				
10,800.00	10,785.20	10,799.99	10,784.27	14.48	38.15	119.03	-166.55	252.77	122.57	70.45	52.12	2.352				
10,900.00	10,877.13	10,894.85	10,879.12	14.64	38.47	130.95	-166.80	251.43	145.55	92.92	52.63	2.766				
11,000.00	10,960.87	10,983.06	10,967.29	14.80	38.76	140.84	-164.84	249.51	185.00	131.84	53.17	3.480				
11,100.00	11,033.90	11,058.61	11,042.76	14.93	39.00	147.02	-162.25	247.44	241.59	187.93	53.66	4.502				
11,200.00	11,093.98	11,120.70	11,104.79	15.05	39.21	149.68	-160.23	245.58	313.57	259.51	54.05	5.801				
11,300.00	11,139.30	11,168.07	11,152.12	15.17	39.36	148.50	-158.78	243.90	397.42	343.08	54.34	7.314				
11,400.00	11,168.47	11,200.86	11,184.86	15.33	39.47	140.90	-157.81	242.60	489.61	435.08	54.53	8.979				
11,500.00	11,180.61	11,218.08	11,202.06	15.60	39.52	114.29	-157.22	241.90	586.67	532.04	54.63	10.739				
11,600.00	11,180.28	11,221.50	11,205.48	16.06	39.53	104.72	-157.10	241.77	685.63	630.95	54.67	12.540				
11,700.00	11,179.41	11,224.64	11,208.61	16.68	39.54	114.45	-156.98	241.64	785.18	730.48	54.71	14.353				
11,800.00	11,178.53	11,228.15	11,212.12	17.40	39.55	140.48	-156.85	241.50	885.03	830.30	54.73	16.170				
11,900.00	11,177.66	11,232.04	11,216.00	18.16	39.57	170.04	-156.69	241.35	984.98	930.22	54.76	17.987				
12,000.00	11,176.79	11,236.19	11,220.15	19.01	39.58	171.47	-156.53	241.18	1,084.92	1,030.13	54.79	19.801				
12,100.00	11,175.92	11,240.62	11,224.57	19.91	39.60	172.66	-156.35	241.00	1,184.87	1,130.05	54.82	21.613				
12,200.00	11,175.05	11,245.35	11,229.28	20.87	39.61	173.68	-156.15	240.82	1,284.81	1,229.96	54.86	23.421				
12,300.00	11,174.18	13,712.00	12,500.25	21.88	48.23	-178.89	1,327.52	195.96	1,331.12	1,277.30	53.82	24.734				
12,400.00	11,173.31	13,777.41	12,495.90	22.92	48.64	-178.98	1,392.77	197.43	1,325.43	1,271.44	54.00	24.546				
12,500.00	11,172.44	13,840.00	12,494.19	24.00	49.04	-179.10	1,455.28	199.70	1,323.22	1,269.04	54.17	24.425				
12,600.00	11,171.56	13,935.00	12,492.07	25.10	49.68	-179.35	1,550.13	204.58	1,321.79	1,267.20	54.59	24.215				
12,700.00	11,170.69	14,030.00	12,490.82	26.23	50.34	-179.55	1,645.03	208.39	1,321.28	1,266.26	55.02	24.014				
12,706.25	11,170.64	14,030.00	12,490.82	26.31	50.34	-179.55	1,645.03	208.39	1,321.27	1,266.26	55.01	24.020				
12,800.00	11,169.82	14,077.27	12,491.74	27.39	50.68	-179.60	1,692.29	209.08	1,323.41	1,268.27	55.14	24.002				
12,900.00	11,168.95	14,187.38	12,495.18	28.56	51.50	-179.66	1,802.34	209.32	1,327.49	1,271.76	55.73	23.820				
13,000.00	11,168.08	14,304.07	12,496.23	29.75	52.40	-179.77	1,919.01	210.75	1,329.19	1,272.78	56.40	23.567				
13,100.00	11,167.21	14,374.46	12,497.36	30.96	52.97	-179.85	1,989.38	211.85	1,331.69	1,274.97	56.72	23.479				
13,200.00	11,166.34	14,553.31	12,496.73	32.17	54.46	179.90	2,168.11	215.89	1,332.02	1,274.03	57.99	22.969				
13,300.00	11,165.47	14,666.11	12,493.25	33.41	55.45	179.73	2,280.82	218.75	1,329.88	1,271.15	58.72	22.646				
13,400.00	11,164.60	14,805.38	12,485.00	34.65	56.71	179.48	2,419.76	223.25	1,324.68	1,264.95	59.74	22.175				
13,500.00	11,163.72	14,879.00	12,480.48	35.90	57.39	179.33	2,493.19	225.97	1,319.49	1,259.36	60.12	21.946				
13,600.00	11,162.85	14,946.10	12,477.86	37.16	58.02	179.21	2,560.20	228.13	1,316.54	1,256.08	60.46	21.776				
13,648.20	11,162.43	14,973.00	12,477.32	37.77	58.28	179.16	2,587.08	228.87	1,316.08	1,255.51	60.57	21.730				
13,700.00	11,161.98	15,002.16	12,477.23	38.43	58.56	179.12	2,616.23	229.53	1,316.45	1,255.76	60.69	21.693				
13,800.00	11,161.11	15,068.00	12,479.44	39.70	59.19	179.07	2,682.03	230.22	1,320.28	1,259.26	61.02	21.636				
13,900.00	11,160.24	15,161.40	12,484.03	40.98	60.10	179.06	2,775.30	229.67	1,325.99	1,264.32	61.67	21.502				
14,000.00	11,159.37	15,330.24	12,485.01	42.27	61.79	179.10	2,944.10	227.07	1,326.91	1,263.74	63.17	21.006				
14,100.00	11,158.50	15,481.06	12,479.71	43.56	63.35	179.13	3,094.80	224.87	1,324.08	1,259.58	64.51	20.527				
14,200.00	11,157.63	15,592.30	12,474.03	44.86	64.53	179.18	3,205.87	222.51	1,319.88	1,254.47	65.41	20.178				
14,300.00	11,156.75	15,689.32	12,467.85	46.16	65.57	179.20	3,302.68	221.04	1,314.38	1,248.21	66.17	19.864				
14,400.00	11,155.88	15,773.78	12,463.66	47.46	66.48	179.24	3,387.01	219.29	1,310.25	1,243.47	66.78	19.619				
14,500.00	11,155.01	15,853.36	12,460.38	48.77	67.35	179.26	3,466.52	218.04	1,307.07	1,239.72	67.35	19.407				
14,575.50	11,154.35	15,901.06	12,459.46	49.76	67.88	179.28	3,514.20	217.31	1,306.26	1,238.64	67.62	19.317				
14,600.00	11,154.14	15,920.00	12,459.38	50.08	68.08	179.28	3,533.14	217.00	1,306.35	1,238.60	67.75	19.281				
14,700.00	11,153.27	15,978.42	12,460.18	51.40	68.73	179.32	3,591.54	215.50	1,308.49	1,240.44	68.05	19.228				
14,800.00	11,152.40	16,086.25	12,463.05	52.72	69.93	179.47	3,699.23	211.12	1,312.01	1,243.00	69.00	19.014				

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 218H(AC) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 176-3_MWD+HRGM												Offset Well Error:	0.00 usft
Reference	Offset	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		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,900.00	11,151.53	16,192.96	12,464.16	54.04	71.14	179.60	3,805.85	207.13	1,313.84	1,243.89	69.95	18.781	
15,000.00	11,150.66	16,265.79	12,466.08	55.36	71.97	179.69	3,878.60	204.51	1,317.34	1,246.89	70.45	18.698	
15,100.00	11,149.79	16,379.80	12,469.15	56.69	73.28	179.75	3,992.53	201.90	1,320.83	1,249.30	71.53	18.466	
15,200.00	11,148.91	16,484.50	12,472.50	58.02	74.50	179.81	4,097.15	199.51	1,324.94	1,252.45	72.49	18.278	
15,300.00	11,148.04	16,683.99	12,467.68	59.35	76.85	-179.91	4,296.33	191.23	1,322.45	1,247.68	74.77	17.687	
15,400.00	11,147.17	16,781.34	12,462.61	60.68	78.02	-179.72	4,393.40	185.82	1,318.13	1,242.46	75.66	17.421	
15,500.00	11,146.30	16,887.66	12,457.05	62.01	79.30	-179.46	4,499.35	179.01	1,313.81	1,237.11	76.70	17.130	
15,600.00	11,145.43	16,946.97	12,454.55	63.35	80.02	-179.33	4,558.51	175.48	1,310.59	1,233.51	77.08	17.004	
15,636.16	11,145.11	16,967.15	12,454.18	63.83	80.26	-179.29	4,578.65	174.38	1,310.25	1,233.06	77.19	16.974	
15,700.00	11,144.56	17,035.24	12,453.73	64.68	81.09	-179.18	4,646.66	171.23	1,310.46	1,232.59	77.86	16.830	
15,800.00	11,143.69	17,160.23	12,449.93	66.02	82.62	-179.07	4,771.54	167.56	1,308.18	1,228.99	79.19	16.520	
15,900.00	11,142.82	17,254.13	12,446.85	67.36	83.77	-178.97	4,865.33	164.28	1,305.82	1,225.75	80.07	16.309	
15,984.15	11,142.08	17,311.17	12,445.57	68.49	84.47	-178.90	4,922.32	162.16	1,304.78	1,224.30	80.49	16.211	
16,000.00	11,141.95	17,320.66	12,445.51	68.70	84.59	-178.88	4,931.80	161.81	1,304.82	1,224.28	80.54	16.200	
16,100.00	11,141.07	17,424.09	12,446.21	70.04	85.87	-178.77	5,035.16	158.21	1,306.47	1,224.88	81.58	16.014	
16,200.00	11,140.20	17,615.32	12,436.75	71.39	88.26	-178.73	5,226.09	155.67	1,301.67	1,217.78	83.89	15.516	
16,300.00	11,139.33	17,692.59	12,431.09	72.73	89.23	-178.73	5,303.15	154.99	1,295.33	1,210.78	84.56	15.319	
16,400.00	11,138.46	17,756.25	12,428.33	74.08	90.04	-178.72	5,366.74	154.22	1,291.81	1,206.79	85.02	15.195	
16,500.00	11,137.59	17,841.00	12,426.14	75.42	91.10	-178.74	5,451.46	153.90	1,290.10	1,204.32	85.78	15.040	
16,600.00	11,136.72	17,935.00	12,424.72	76.77	92.29	-178.77	5,545.44	153.56	1,289.44	1,202.76	86.68	14.875	
16,700.00	11,135.85	18,036.46	12,423.41	78.12	93.58	-178.77	5,646.89	152.78	1,289.01	1,201.30	87.71	14.695	
16,800.00	11,134.98	18,130.73	12,422.17	79.47	94.77	-178.85	5,741.15	153.60	1,288.53	1,199.91	88.63	14.539	
16,833.82	11,134.68	18,161.36	12,421.88	79.93	95.16	-178.89	5,771.77	154.21	1,288.49	1,199.58	88.91	14.492	
16,900.00	11,134.10	18,218.00	12,421.55	80.82	95.88	-178.97	5,828.40	155.49	1,288.66	1,199.24	89.42	14.412	
17,000.00	11,133.23	18,299.10	12,421.96	82.17	96.92	-179.06	5,909.48	156.72	1,290.02	1,199.91	90.11	14.316	
17,100.00	11,132.36	18,376.86	12,423.68	83.52	97.91	-179.10	5,987.22	156.78	1,293.08	1,202.34	90.75	14.249	
17,200.00	11,131.49	18,514.57	12,426.83	84.87	99.68	-179.25	6,124.86	158.72	1,296.46	1,204.04	92.42	14.029	
17,300.00	11,130.62	18,626.66	12,426.79	86.23	101.12	-179.45	6,236.89	162.31	1,297.27	1,203.64	93.63	13.855	
17,387.38	11,129.86	18,715.32	12,425.70	87.41	102.27	-179.59	6,325.52	164.53	1,296.92	1,202.37	94.55	13.717	
17,400.00	11,129.75	18,724.12	12,425.63	87.58	102.38	-179.60	6,334.31	164.75	1,296.94	1,202.33	94.61	13.708	
17,500.00	11,128.88	18,797.11	12,426.10	88.93	103.32	-179.72	6,407.27	166.73	1,298.39	1,203.20	95.19	13.641	
17,600.00	11,128.01	18,879.00	12,427.47	90.29	104.38	-179.86	6,489.11	169.15	1,301.01	1,205.11	95.90	13.566	
17,700.00	11,127.14	18,960.91	12,429.97	91.64	105.45	-179.96	6,570.97	170.64	1,305.03	1,208.41	96.62	13.507	
17,800.00	11,126.26	19,054.81	12,434.37	93.00	106.68	180.00	6,664.77	170.69	1,310.58	1,213.02	97.56	13.433	
17,900.00	11,125.39	19,144.08	12,438.90	94.36	107.85	179.99	6,753.92	169.95	1,316.53	1,218.11	98.42	13.376	
18,000.00	11,124.52	19,280.12	12,445.07	95.71	109.65	-179.97	6,889.79	167.82	1,322.06	1,221.89	100.18	13.198	
18,100.00	11,123.65	19,398.87	12,446.74	97.07	111.21	-179.98	7,008.52	166.78	1,324.21	1,222.63	101.59	13.035	
18,200.00	11,122.78	19,502.30	12,448.54	98.43	112.58	-179.96	7,111.93	165.38	1,326.85	1,224.12	102.72	12.917	
18,300.00	11,121.91	19,602.28	12,449.26	99.78	113.91	-179.89	7,211.87	162.93	1,328.44	1,224.63	103.81	12.797	
18,400.00	11,121.04	19,811.78	12,440.57	101.14	116.70	-179.93	7,420.97	161.64	1,323.89	1,217.27	106.61	12.418	
18,500.00	11,120.17	19,870.19	12,437.17	102.50	117.48	179.99	7,479.27	163.12	1,319.05	1,211.97	107.08	12.318	
18,590.73	11,119.38	19,920.00	12,436.01	103.73	118.14	179.92	7,529.05	164.16	1,317.69	1,210.29	107.40	12.269	
18,600.00	11,119.30	19,927.27	12,435.96	103.86	118.24	179.91	7,536.32	164.29	1,317.70	1,210.23	107.47	12.261	
18,700.00	11,118.42	20,030.30	12,434.94	105.22	119.61	179.83	7,639.33	165.28	1,317.58	1,208.97	108.61	12.132	
18,705.87	11,118.37	20,035.17	12,434.90	105.30	119.68	179.82	7,644.20	165.30	1,317.58	1,208.93	108.65	12.126	
18,800.00	11,117.55	20,115.59	12,434.69	106.58	120.75	179.77	7,724.62	165.82	1,318.15	1,208.70	109.44	12.044	
18,900.00	11,116.68	20,253.06	12,433.42	107.94	122.60	179.78	7,862.07	164.26	1,318.22	1,207.04	111.18	11.857	
19,000.00	11,115.81	20,361.65	12,429.51	109.30	124.07	179.85	7,970.55	161.55	1,315.43	1,203.01	112.42	11.701	
19,095.19	11,114.98	20,424.58	12,427.95	110.59	124.92	179.90	8,033.44	159.83	1,314.02	1,201.08	112.94	11.634	
19,100.00	11,114.94	20,427.23	12,427.93	110.66	124.95	179.90	8,036.09	159.75	1,314.03	1,201.07	112.96	11.633	
19,200.00	11,114.07	20,485.00	12,428.56	112.02	125.73	179.97	8,093.81	157.60	1,315.91	1,202.61	113.30	11.615	
19,300.00	11,113.20	20,572.44	12,431.33	113.38	126.92	-179.90	8,181.12	153.70	1,319.92	1,205.75	114.18	11.560	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 218H(AC) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 176-3_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
19,400.00	11,112.33	20,804.36	12,428.96	114.74	130.07	-179.57	8,412.66	143.94	1,320.47	1,202.91	117.57	11.232	
19,500.00	11,111.45	20,908.09	12,422.29	116.10	131.49	-179.42	8,516.07	139.55	1,314.95	1,196.19	118.76	11.073	
19,600.00	11,110.58	20,986.67	12,416.89	117.47	132.57	-179.30	8,594.40	136.15	1,309.16	1,189.58	119.58	10.948	
19,700.00	11,109.71	21,051.00	12,415.15	118.83	133.44	-179.25	8,658.67	134.34	1,306.94	1,186.80	120.14	10.878	
19,720.73	11,109.53	21,051.00	12,415.15	119.11	133.44	-179.25	8,658.67	134.34	1,306.78	1,186.76	120.02	10.888	
19,800.00	11,108.84	21,126.81	12,414.83	120.19	134.48	-179.20	8,734.46	132.52	1,307.14	1,186.29	120.85	10.816	
19,900.00	11,107.97	21,232.95	12,413.90	121.55	135.92	-179.12	8,840.56	129.69	1,307.16	1,185.06	122.11	10.705	
19,908.31	11,107.90	21,241.76	12,413.81	121.67	136.04	-179.12	8,849.36	129.51	1,307.14	1,184.94	122.21	10.696	
20,000.00	11,107.10	21,303.42	12,413.84	122.92	136.89	-179.07	8,911.00	127.77	1,308.01	1,185.31	122.70	10.660	
20,100.00	11,106.23	21,371.26	12,415.44	124.28	137.82	-178.97	8,978.76	124.98	1,311.29	1,188.08	123.21	10.643	
20,200.00	11,105.36	21,536.97	12,419.69	125.64	140.09	-178.81	9,144.26	119.52	1,315.74	1,190.10	125.64	10.472	
20,239.02	11,105.02	21,569.64	12,419.33	126.18	140.53	-178.81	9,176.93	119.16	1,315.64	1,189.67	125.97	10.444	
20,300.00	11,104.49	21,623.02	12,419.05	127.01	141.26	-178.79	9,230.29	118.27	1,315.87	1,189.34	126.53	10.400	
20,400.00	11,103.61	21,740.65	12,417.71	128.37	142.88	-178.75	9,347.90	116.21	1,315.58	1,187.59	127.99	10.279	
20,500.00	11,102.74	21,865.36	12,415.07	129.73	144.59	-178.71	9,472.57	114.20	1,314.47	1,184.91	129.55	10.146	
20,600.00	11,101.87	21,944.79	12,412.23	131.10	145.68	-178.71	9,551.93	113.49	1,311.93	1,181.58	130.35	10.065	
20,633.09	11,101.58	21,963.74	12,411.95	131.55	145.94	-178.70	9,570.88	113.06	1,311.75	1,181.27	130.48	10.053	
20,700.00	11,101.00	22,006.84	12,412.04	132.46	146.53	-178.66	9,613.95	111.66	1,312.46	1,181.65	130.81	10.033	
20,800.00	11,100.13	22,154.53	12,412.81	133.83	148.57	-178.53	9,761.57	107.32	1,314.58	1,181.72	132.86	9.895	
20,900.00	11,099.26	22,291.60	12,405.99	135.19	150.47	-178.43	9,898.41	103.73	1,310.21	1,175.59	134.62	9.733	
21,000.00	11,098.39	22,371.00	12,402.26	136.56	151.57	-178.38	9,977.71	101.89	1,306.41	1,170.94	135.47	9.644	
21,100.00	11,097.52	22,441.40	12,400.30	137.92	152.54	-178.33	10,048.06	100.29	1,304.51	1,168.38	136.13	9.583	
21,200.00	11,096.65	22,537.90	12,399.08	139.29	153.87	-178.26	10,144.52	97.72	1,304.16	1,166.92	137.24	9.502	
21,300.00	11,095.77	22,639.59	12,397.47	140.65	155.28	-178.17	10,246.15	94.76	1,303.51	1,165.05	138.46	9.414	
21,400.00	11,094.90	22,733.30	12,396.32	142.02	156.58	-178.10	10,339.82	92.08	1,303.21	1,163.68	139.53	9.340	
21,414.01	11,094.78	22,745.00	12,396.19	142.21	156.74	-178.08	10,351.51	91.73	1,303.19	1,163.53	139.66	9.331	
21,455.42	11,094.42	22,745.00	12,396.19	142.77	156.74	-178.08	10,351.51	91.73	1,303.85	1,164.53	139.32	9.359	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 224H(AC) - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 74-GYRO-NS-CT, 9684-3_MWD+HRGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-90.56	-2.00	-205.00	205.01				
100.00	100.00	98.51	98.50	0.50	0.23	-90.44	-1.57	-205.58	205.60	204.87	0.73	280.466	
200.00	200.00	198.18	198.17	1.31	0.69	-90.14	-0.49	-206.64	206.65	204.65	2.00	103.316 ES	
300.00	300.00	297.32	297.29	1.79	1.11	-89.83	0.63	-207.90	207.92	205.03	2.89	71.875	
400.00	400.00	396.40	396.35	2.17	1.50	-89.59	1.50	-209.68	209.73	206.07	3.66	57.270	
500.00	500.00	497.37	497.30	2.49	1.88	-89.40	2.21	-211.58	211.61	207.25	4.37	48.460	
600.00	600.00	600.31	600.23	2.78	2.23	-89.29	2.62	-212.48	212.50	207.51	5.00	42.536	
700.00	700.00	701.39	701.32	3.04	2.58	-89.28	2.66	-212.26	212.28	206.67	5.61	37.831	
730.22	730.22	731.45	731.37	3.08	2.68	141.78	2.63	-212.15	212.22	206.47	5.75	36.927	
800.00	800.00	800.54	800.47	3.15	2.91	141.80	2.54	-212.05	212.32	206.27	6.06	35.061	
900.00	899.96	899.72	899.64	3.43	3.26	142.18	2.45	-212.26	214.59	207.94	6.66	32.242	
1,000.00	999.82	999.49	999.41	3.70	3.62	142.99	2.48	-212.66	219.15	211.89	7.26	30.185	
1,100.00	1,099.51	1,099.14	1,099.06	3.95	3.97	144.19	2.76	-213.06	225.89	218.04	7.86	28.757	
1,200.00	1,198.96	1,198.34	1,198.26	4.20	4.33	145.70	3.20	-213.46	234.89	226.45	8.45	27.808	
1,300.00	1,298.11	1,296.69	1,296.60	4.36	4.68	147.46	3.89	-214.06	246.46	237.50	8.96	27.495	
1,400.00	1,397.13	1,395.75	1,395.65	4.56	5.03	149.29	4.75	-214.81	259.22	249.70	9.52	27.230	
1,500.00	1,496.16	1,496.52	1,496.42	4.75	5.38	150.94	5.41	-215.19	271.80	261.73	10.07	26.986	
1,600.00	1,595.18	1,594.83	1,594.73	4.94	6.10	152.20	4.96	-215.24	284.03	273.04	10.99	25.834	
1,700.00	1,694.21	1,690.29	1,690.08	5.14	7.24	152.56	0.90	-216.97	297.32	285.01	12.32	24.141	
1,800.00	1,793.24	1,787.29	1,786.74	5.33	7.89	152.28	-6.30	-220.47	311.71	298.54	13.17	23.676	
1,900.00	1,892.26	1,886.44	1,885.34	5.52	8.22	151.59	-15.94	-224.70	326.32	312.63	13.69	23.834	
2,000.00	1,991.29	1,985.21	1,983.57	5.72	8.56	151.00	-25.36	-228.75	340.84	326.62	14.22	23.969	
2,100.00	2,090.31	2,085.35	2,083.41	5.91	8.89	150.90	-32.22	-232.35	355.36	340.60	14.76	24.081	
2,200.00	2,189.39	2,186.22	2,184.01	6.04	9.22	150.87	-38.91	-235.41	369.00	353.78	15.22	24.241	
2,300.00	2,288.77	2,286.41	2,283.96	6.26	9.55	150.76	-45.29	-238.02	380.22	364.44	15.77	24.110	
2,400.00	2,388.40	2,380.23	2,377.54	6.48	9.87	150.46	-51.25	-240.96	389.70	373.41	16.28	23.932	
2,500.00	2,488.22	2,481.51	2,478.53	6.69	10.22	149.92	-57.76	-245.02	397.78	380.95	16.82	23.644	
2,600.00	2,588.16	2,583.58	2,580.38	6.89	10.56	149.32	-63.55	-248.26	402.93	385.58	17.35	23.221	
2,700.00	2,688.16	2,686.69	2,683.34	6.97	10.91	-82.42	-68.56	-250.69	405.27	387.49	17.77	22.804	
2,800.00	2,788.16	2,785.71	2,782.17	7.07	11.25	-83.26	-74.24	-252.84	406.70	388.50	18.20	22.341	
2,900.00	2,888.16	2,883.64	2,879.73	7.17	11.60	-84.43	-82.32	-255.57	408.60	389.95	18.65	21.910	
3,000.00	2,988.16	2,983.62	2,979.23	7.27	11.98	-85.77	-91.68	-258.65	410.88	391.77	19.11	21.502	
3,100.00	3,088.16	3,085.37	3,080.53	7.37	12.36	-87.06	-100.84	-261.34	412.96	393.38	19.58	21.096	
3,200.00	3,188.16	3,184.63	3,179.40	7.47	12.72	-88.25	-109.32	-263.73	415.03	395.00	20.03	20.723	
3,300.00	3,288.16	3,281.76	3,276.16	7.57	13.09	-89.36	-117.32	-266.33	417.55	397.08	20.47	20.400	
3,400.00	3,388.16	3,374.49	3,368.51	7.66	13.45	-90.39	-124.86	-269.81	421.30	400.41	20.89	20.169	
3,500.00	3,488.16	3,467.59	3,461.29	7.76	13.85	-91.09	-130.12	-275.35	427.31	405.98	21.33	20.035	
3,600.00	3,588.16	3,582.22	3,575.75	7.86	14.35	-91.31	-131.88	-281.04	432.35	410.41	21.94	19.706	
3,700.00	3,688.16	3,698.80	3,692.27	7.96	14.87	-90.87	-128.57	-282.01	433.08	410.46	22.62	19.143	
3,800.00	3,788.16	3,816.39	3,809.77	8.05	15.38	-90.47	-125.53	-278.89	430.42	407.23	23.18	18.566	
3,900.00	3,888.16	3,917.98	3,911.21	8.15	15.73	-90.57	-126.19	-273.53	425.15	401.53	23.62	18.001	
4,000.00	3,988.16	4,011.37	4,004.41	8.25	16.04	-91.12	-130.19	-269.22	420.60	396.51	24.09	17.457	
4,100.00	4,088.16	4,101.01	4,093.93	8.34	16.36	-91.65	-134.00	-266.87	418.08	393.56	24.52	17.052	
4,139.68	4,127.84	4,135.43	4,128.34	8.38	16.47	-91.75	-134.76	-266.62	417.81	393.10	24.71	16.906	
4,200.00	4,188.16	4,187.03	4,179.94	8.44	16.71	-91.73	-134.61	-267.16	418.44	393.42	25.02	16.725	
4,300.00	4,288.16	4,280.45	4,273.27	8.53	17.28	-91.34	-131.85	-270.13	421.53	395.92	25.61	16.459	
4,400.00	4,388.16	4,387.29	4,380.03	8.63	17.73	-91.11	-130.25	-273.50	424.67	398.54	26.13	16.254	
4,500.00	4,488.16	4,480.49	4,473.18	8.72	18.04	-91.31	-131.76	-275.91	427.31	400.76	26.55	16.095	
4,600.00	4,588.16	4,597.14	4,589.74	8.82	18.71	-90.97	-129.28	-278.33	429.39	402.07	27.32	15.714	
4,700.00	4,688.16	4,708.86	4,701.11	8.91	19.51	-89.83	-120.75	-276.54	427.72	399.47	28.25	15.141	
4,800.00	4,788.16	4,813.30	4,805.34	9.00	19.92	-89.12	-115.50	-272.71	424.08	395.33	28.75	14.749	
4,900.00	4,888.16	4,912.67	4,904.62	9.10	20.26	-88.99	-114.59	-268.88	420.25	391.06	29.19	14.397	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 224H(AC) - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 74-GYRO-NS-CT, 9684-3_MWD+HRGM													Offset Well Error: 0.00 usft
Reference													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				(usft)	(usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,988.16	5,003.06	4,994.96	9.19	20.54	-89.00	-114.74	-265.83	416.94	387.36	29.58	14.094	
5,028.60	5,016.76	5,025.36	5,017.26	9.22	20.61	-89.02	-114.89	-265.67	416.73	387.04	29.69	14.038	
5,100.00	5,088.16	5,085.74	5,077.62	9.29	20.80	-89.12	-115.58	-266.76	417.95	388.01	29.95	13.957	
5,200.00	5,188.16	5,186.42	5,178.26	9.38	21.12	-89.28	-116.73	-269.41	420.57	390.19	30.38	13.845	
5,300.00	5,288.16	5,288.15	5,279.96	9.47	21.44	-89.43	-117.76	-271.66	422.77	391.98	30.79	13.733	
5,400.00	5,388.16	5,387.99	5,379.77	9.56	21.74	-89.56	-118.72	-273.72	424.82	393.64	31.19	13.622	
5,500.00	5,488.16	5,487.91	5,479.67	9.66	22.05	-89.70	-119.76	-275.85	426.95	395.36	31.59	13.516	
5,600.00	5,588.16	5,588.09	5,579.82	9.75	22.36	-89.83	-120.71	-277.92	429.01	397.02	31.99	13.410	
5,700.00	5,688.16	5,690.39	5,682.10	9.84	22.68	-89.92	-121.43	-279.89	430.94	398.53	32.41	13.298	
5,800.00	5,788.16	5,791.16	5,782.86	9.93	23.00	-89.93	-121.48	-281.17	432.21	399.40	32.81	13.172	
5,900.00	5,888.16	5,889.74	5,881.43	10.02	23.30	-89.89	-121.18	-282.65	433.71	400.50	33.21	13.060	
6,000.00	5,988.16	5,990.31	5,981.99	10.12	23.62	-89.84	-120.78	-284.33	435.38	401.77	33.62	12.951	
6,100.00	6,088.16	6,098.39	6,090.06	10.21	23.96	-89.77	-120.23	-285.17	436.18	402.13	34.05	12.810	
6,200.00	6,188.16	6,199.07	6,190.73	10.30	24.28	-89.69	-119.67	-284.65	435.66	401.20	34.46	12.642	
6,300.00	6,288.16	6,299.14	6,290.81	10.39	24.59	-89.64	-119.29	-284.17	435.18	400.31	34.87	12.480	
6,400.00	6,388.16	6,400.45	6,392.11	10.48	24.92	-89.57	-118.78	-283.50	434.53	399.25	35.28	12.316	
6,500.00	6,488.16	6,500.27	6,491.92	10.57	25.23	-89.50	-118.19	-282.74	433.77	398.08	35.69	12.154	
6,600.00	6,588.16	6,600.72	6,592.36	10.66	25.55	-89.43	-117.70	-281.91	432.95	396.85	36.10	11.993	
6,700.00	6,688.16	6,700.09	6,691.74	10.75	25.87	-89.38	-117.32	-281.10	432.14	395.63	36.51	11.837	
6,800.00	6,788.16	6,798.46	6,790.10	10.84	26.18	-89.35	-117.12	-280.60	431.63	394.72	36.91	11.694	
6,900.00	6,888.16	6,898.26	6,889.90	10.93	26.50	-89.36	-117.19	-280.34	431.37	394.05	37.32	11.559	
7,000.00	6,988.16	6,999.22	6,990.86	11.02	26.82	-89.37	-117.26	-279.89	430.92	393.19	37.73	11.421	
7,100.00	7,088.16	7,099.37	7,091.01	11.11	27.14	-89.38	-117.31	-279.40	430.44	392.29	38.14	11.285	
7,200.00	7,188.16	7,200.77	7,192.41	11.20	27.47	-89.39	-117.42	-278.70	429.74	391.18	38.56	11.145	
7,300.00	7,288.16	7,302.04	7,293.67	11.29	27.80	-89.42	-117.67	-277.64	428.69	389.72	38.97	11.000	
7,400.00	7,388.16	7,402.36	7,393.98	11.38	28.12	-89.46	-117.94	-276.41	427.46	388.07	39.39	10.853	
7,500.00	7,488.16	7,503.02	7,494.63	11.47	28.44	-89.51	-118.37	-275.11	426.17	386.37	39.80	10.708	
7,600.00	7,588.16	7,603.74	7,595.34	11.56	28.77	-89.62	-119.17	-273.60	424.66	384.45	40.21	10.560	
7,700.00	7,688.16	7,704.19	7,695.77	11.65	29.10	-89.77	-120.28	-271.97	423.04	382.41	40.63	10.412	
7,800.00	7,788.16	7,803.63	7,795.19	11.74	29.42	-89.93	-121.45	-270.34	421.39	380.35	41.04	10.267	
7,900.00	7,888.16	7,901.22	7,892.76	11.83	29.74	-90.11	-122.83	-269.07	420.09	378.63	41.46	10.133	
8,000.00	7,988.16	8,002.88	7,994.40	11.92	30.08	-90.40	-124.93	-267.97	419.02	377.14	41.88	10.006	
8,100.00	8,088.16	8,101.27	8,092.76	12.01	30.41	-90.62	-126.51	-266.73	417.78	375.48	42.29	9.878	
8,200.00	8,188.16	8,203.19	8,194.67	12.10	30.74	-90.75	-127.42	-265.54	416.62	373.90	42.71	9.753	
8,270.35	8,258.51	8,267.53	8,259.01	12.16	30.96	-90.77	-127.61	-265.04	416.08	373.08	43.00	9.676	
8,300.00	8,288.16	8,294.48	8,285.96	12.19	31.06	-90.74	-127.37	-265.13	416.17	373.05	43.12	9.651	
8,400.00	8,388.16	8,396.67	8,388.14	12.28	31.43	-90.56	-126.07	-265.65	416.67	373.09	43.58	9.561	
8,500.00	8,488.16	8,498.25	8,489.71	12.36	31.77	-90.43	-125.12	-265.59	416.60	372.60	44.01	9.467	
8,600.00	8,588.16	8,599.33	8,590.79	12.45	32.10	-90.33	-124.38	-265.21	416.22	371.79	44.43	9.368	
8,700.00	8,688.16	8,699.43	8,690.88	12.54	32.43	-90.23	-123.65	-264.58	415.59	370.74	44.85	9.267	
8,743.04	8,731.20	8,740.24	8,731.70	12.58	32.56	-90.20	-123.44	-264.47	415.47	370.45	45.02	9.229	
8,800.00	8,788.16	8,795.86	8,787.32	12.63	32.75	-90.18	-123.31	-264.64	415.64	370.39	45.25	9.185	
8,900.00	8,888.16	8,897.81	8,889.26	12.72	33.08	-90.18	-123.28	-264.52	415.52	369.85	45.67	9.098	
8,912.12	8,900.28	8,909.32	8,900.77	12.73	33.12	-90.18	-123.27	-264.51	415.51	369.79	45.72	9.088	
9,000.00	8,988.16	8,995.09	8,986.54	12.81	33.40	-90.17	-123.20	-264.90	415.90	369.83	46.08	9.026	
9,100.00	9,088.16	9,098.42	9,089.87	12.89	33.74	-90.24	-123.75	-264.96	415.96	369.46	46.51	8.944	
9,200.00	9,188.16	9,199.41	9,190.85	12.98	34.07	-90.42	-125.03	-264.46	415.47	368.54	46.93	8.853	
9,300.00	9,288.16	9,298.62	9,290.04	13.07	34.41	-90.66	-126.80	-264.00	415.03	367.68	47.35	8.765	
9,400.00	9,388.16	9,397.54	9,388.94	13.16	34.74	-90.96	-128.96	-263.77	414.83	367.05	47.77	8.683	
9,422.55	9,410.71	9,419.81	9,411.21	13.18	34.82	-91.04	-129.53	-263.75	414.82	366.95	47.87	8.666	
9,500.00	9,488.16	9,495.33	9,486.68	13.25	35.08	-91.35	-131.79	-263.85	414.97	366.78	48.20	8.610	
9,600.00	9,588.16	9,588.68	9,579.98	13.33	35.39	-91.77	-134.85	-264.89	416.18	367.58	48.60	8.563 SF	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 224H(AC) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 74-GYRO-NS-CT, 9684-3_MWD+HRGM												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	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,700.00	9,688.16	9,684.00	9,675.25	13.42	35.56	-91.77	-134.96	-267.89	419.30	370.45	48.85	8.584	
9,800.00	9,788.16	9,779.00	9,770.14	13.51	35.56	-91.57	-133.56	-272.06	423.62	374.69	48.93	8.657	
9,900.00	9,888.16	9,883.62	9,874.64	13.60	35.57	-91.25	-131.32	-276.40	427.73	378.69	49.04	8.723	
10,000.00	9,988.16	9,986.55	9,977.50	13.68	35.58	-90.87	-128.56	-279.37	430.56	381.42	49.14	8.763	
10,100.00	10,088.16	10,083.77	10,074.65	13.77	35.60	-90.60	-126.56	-282.17	433.43	384.19	49.24	8.803	
10,200.00	10,188.16	10,178.67	10,169.48	13.86	35.61	-90.51	-125.88	-285.78	437.22	387.88	49.34	8.862	
10,300.00	10,288.16	10,274.61	10,265.31	13.95	35.63	-90.48	-125.67	-290.58	442.22	392.77	49.44	8.944	
10,400.00	10,388.16	10,381.60	10,372.15	14.03	35.66	-90.21	-123.64	-295.67	446.98	397.42	49.56	9.018	
10,500.00	10,488.16	10,493.14	10,483.58	14.12	35.69	-89.68	-119.47	-298.07	449.10	399.42	49.69	9.039	
10,600.00	10,588.16	10,595.28	10,585.70	14.21	35.73	-89.40	-117.29	-298.78	449.81	400.00	49.81	9.031	
10,700.00	10,687.90	10,697.20	10,687.61	14.31	35.76	-95.90	-116.25	-299.34	450.92	401.04	49.89	9.039	
10,800.00	10,785.20	10,798.17	10,788.58	14.48	35.80	-98.40	-115.54	-299.09	453.54	403.60	49.94	9.082	
10,900.00	10,877.13	10,890.13	10,880.53	14.64	35.84	-102.11	-115.13	-298.45	460.39	410.41	49.98	9.211	
11,000.00	10,960.87	10,969.06	10,959.45	14.80	35.87	-105.72	-114.82	-298.28	475.78	425.76	50.03	9.510	
11,100.00	11,033.90	11,040.01	11,030.41	14.93	35.91	-108.55	-114.58	-299.06	503.65	453.54	50.11	10.052	
11,200.00	11,093.98	11,110.05	11,100.44	15.05	35.94	-110.56	-113.71	-299.36	544.49	494.28	50.22	10.843	
11,300.00	11,139.30	11,153.66	11,144.03	15.17	35.96	-108.73	-112.69	-299.53	598.92	548.57	50.35	11.894	
11,400.00	11,168.47	11,183.22	11,173.58	15.33	35.98	-103.32	-111.73	-300.04	665.74	615.25	50.49	13.186	
11,500.00	11,180.61	11,197.86	11,188.20	15.60	35.99	-93.50	-111.18	-300.41	741.74	691.13	50.60	14.658	
11,600.00	11,180.28	11,201.07	11,191.41	16.06	35.99	-90.58	-111.05	-300.50	822.90	772.21	50.69	16.233	
11,700.00	11,179.41	11,204.00	11,194.33	16.68	35.99	-90.91	-110.93	-300.59	906.09	855.30	50.78	17.842	
11,800.00	11,178.53	11,207.18	11,197.50	17.40	35.99	-91.22	-110.80	-300.68	990.63	939.77	50.87	19.475	
11,900.00	11,177.66	11,210.63	11,200.95	18.16	36.00	-91.57	-110.66	-300.79	1,076.34	1,025.40	50.93	21.133	
12,000.00	11,176.79	11,214.21	11,204.52	19.01	36.00	-91.95	-110.51	-300.91	1,164.09	1,113.09	51.00	22.826	
12,100.00	11,175.92	11,217.85	11,208.16	19.91	36.00	-92.33	-110.35	-301.03	1,253.67	1,202.61	51.06	24.552	
12,200.00	11,175.05	11,221.56	11,211.87	20.87	36.00	-92.73	-110.19	-301.15	1,344.71	1,293.59	51.12	26.304	
12,300.00	11,174.18	11,225.34	11,215.64	21.88	36.00	-93.13	-110.03	-301.27	1,436.94	1,385.76	51.18	28.077	
12,400.00	11,173.31	11,229.19	11,219.49	22.92	36.01	-93.54	-109.86	-301.40	1,530.13	1,478.89	51.23	29.866	
12,500.00	11,172.44	11,233.11	11,223.40	24.00	36.01	-93.95	-109.69	-301.53	1,624.12	1,572.83	51.29	31.667	
12,600.00	11,171.56	11,237.00	11,223.10	25.10	36.01	-94.36	-109.52	-301.66	1,718.09	1,666.74	51.35	33.488	
12,700.00	11,170.69	11,240.90	11,222.80	26.23	36.01	-94.77	-109.35	-301.79	1,812.06	1,760.69	51.41	35.329	
12,800.00	11,169.82	11,244.81	11,222.50	27.39	36.01	-95.18	-109.18	-301.92	1,906.03	1,854.64	51.47	37.190	
12,819.93	11,169.65	11,244.61	11,222.30	27.62	36.01	-95.38	-109.13	-301.97	1,918.88	1,867.49	51.49	37.488	
12,900.00	11,168.95	11,248.58	11,221.99	28.56	36.01	-95.79	-108.96	-302.10	2,012.85	1,961.46	51.55	39.349	
13,000.00	11,168.08	11,252.50	11,221.68	29.50	36.01	-96.20	-108.79	-302.23	2,106.82	2,055.43	51.61	41.210	
13,100.00	11,167.21	11,256.43	11,221.37	30.46	36.01	-96.61	-108.62	-302.36	2,200.79	2,149.40	51.67	43.071	
13,200.00	11,166.34	11,260.36	11,221.06	31.43	36.01	-97.02	-108.45	-302.49	2,294.76	2,243.37	51.73	44.932	
13,300.00	11,165.47	11,264.29	11,220.75	32.41	36.01	-97.43	-108.28	-302.62	2,388.73	2,337.34	51.79	46.793	
13,400.00	11,164.60	11,268.22	11,220.44	33.40	36.01	-97.84	-108.11	-302.75	2,482.70	2,431.31	51.85	48.654	
13,500.00	11,163.72	11,272.15	11,220.13	34.40	36.01	-98.25	-107.94	-302.88	2,576.67	2,525.28	51.91	50.515	
13,600.00	11,162.85	11,276.08	11,219.82	35.40	36.01	-98.66	-107.77	-303.01	2,670.64	2,619.25	51.97	52.376	
13,601.75	11,162.84	11,276.08	11,219.82	35.40	36.01	-98.66	-107.77	-303.01	2,670.64	2,619.25	51.97	52.376	
13,700.00	11,161.98	11,279.99	11,219.51	36.40	36.01	-99.07	-107.60	-303.14	2,764.61	2,713.22	52.03	54.237	
13,800.00	11,161.11	11,283.90	11,219.20	37.40	36.01	-99.48	-107.43	-303.27	2,858.58	2,807.19	52.09	56.098	
13,900.00	11,160.24	11,287.81	11,218.89	38.40	36.01	-99.89	-107.26	-303.40	2,952.55	2,901.16	52.15	57.959	
14,000.00	11,159.37	11,291.72	11,218.58	39.40	36.01	-100.30	-107.09	-303.53	3,046.52	2,995.13	52.21	59.820	
14,100.00	11,158.50	11,295.63	11,218.27	40.40	36.01	-100.71	-106.92	-303.66	3,140.49	3,089.10	52.27	61.681	
14,200.00	11,157.63	11,299.54	11,217.96	41.40	36.01	-101.12	-106.75	-303.79	3,234.46	3,183.07	52.33	63.542	
14,300.00	11,156.75	11,303.45	11,217.65	42.40	36.01	-101.53	-106.58	-303.92	3,328.43	3,277.04	52.39	65.403	
14,400.00	11,155.88	11,307.36	11,217.34	43.40	36.01	-101.94	-106.41	-304.05	3,422.40	3,371.01	52.45	67.264	
14,500.00	11,155.01	11,311.27	11,217.03	44.40	36.01	-102.35	-106.24	-304.18	3,516.37	3,464.98	52.51	69.125	
14,600.00	11,154.14	11,315.18	11,216.72	45.40	36.01	-102.76	-106.07	-304.31	3,610.34	3,558.95	52.57	70.986	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 224H(AC) - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 74-GYRO-NS-CT, 9684-3_MWD+HRGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,700.00	11,153.27	16,357.08	12,810.68	51.40	66.10	-168.33	3,680.85	-143.07	1,692.85	1,620.13	72.72	23.278	
14,793.12	11,152.46	16,407.69	12,809.25	52.63	66.71	-168.26	3,731.39	-145.39	1,691.71	1,618.59	73.12	23.135	
14,800.00	11,152.40	16,411.51	12,809.19	52.72	66.75	-168.26	3,735.21	-145.55	1,691.72	1,618.56	73.15	23.126	
14,900.00	11,151.53	16,483.31	12,809.25	54.04	67.61	-168.20	3,806.95	-148.17	1,693.06	1,619.28	73.78	22.946	
15,000.00	11,150.66	16,593.59	12,809.54	55.36	68.94	-168.13	3,917.18	-151.70	1,694.64	1,619.72	74.92	22.618	
15,100.00	11,149.79	16,723.18	12,809.11	56.69	70.51	-168.14	4,046.76	-152.85	1,695.20	1,618.91	76.29	22.221	
15,200.00	11,148.91	16,823.89	12,808.08	58.02	71.74	-168.20	4,147.46	-151.82	1,694.64	1,617.38	77.26	21.935	
15,290.30	11,148.13	16,905.00	12,807.56	59.22	72.74	-168.28	4,228.55	-150.19	1,694.31	1,616.31	78.00	21.721	
15,300.00	11,148.04	16,905.00	12,807.56	59.35	72.74	-168.28	4,228.55	-150.19	1,694.34	1,616.36	77.97	21.730	
15,400.00	11,147.17	16,977.90	12,808.10	60.68	73.64	-168.36	4,301.42	-148.73	1,695.42	1,616.84	78.58	21.577	
15,500.00	11,146.30	17,063.44	12,810.34	62.01	74.70	-168.47	4,386.92	-146.87	1,698.19	1,618.86	79.33	21.406	
15,600.00	11,145.43	17,165.26	12,813.23	63.35	75.96	-168.60	4,488.67	-144.76	1,701.22	1,620.91	80.31	21.183	
15,700.00	11,144.56	17,287.12	12,815.37	64.68	77.49	-168.70	4,610.51	-143.61	1,703.41	1,621.82	81.60	20.876	
15,800.00	11,143.69	17,375.60	12,816.35	66.02	78.61	-168.74	4,698.98	-143.48	1,705.16	1,622.71	82.45	20.681	
15,900.00	11,142.82	17,445.00	12,818.19	67.36	79.49	-168.76	4,768.36	-143.94	1,708.50	1,625.46	83.04	20.574	
16,000.00	11,141.95	17,548.57	12,821.62	68.70	80.81	-168.75	4,871.84	-146.17	1,712.85	1,628.69	84.16	20.352	
16,100.00	11,141.07	17,676.03	12,823.52	70.04	82.44	-168.72	4,999.25	-149.01	1,715.27	1,629.62	85.65	20.026	
16,200.00	11,140.20	17,767.69	12,824.75	71.39	83.62	-168.67	5,090.86	-151.80	1,717.84	1,631.20	86.64	19.827	
16,300.00	11,139.33	17,864.81	12,826.30	72.73	84.87	-168.61	5,187.91	-155.04	1,720.73	1,633.01	87.72	19.616	
16,400.00	11,138.46	17,971.70	12,827.90	74.08	86.25	-168.54	5,294.73	-158.77	1,723.56	1,634.59	88.97	19.373	
16,500.00	11,137.59	18,041.70	12,829.27	75.42	87.16	-168.53	5,364.71	-160.07	1,726.64	1,637.02	89.62	19.266	
16,600.00	11,136.72	18,099.76	12,831.90	76.77	87.92	-168.52	5,422.68	-161.60	1,732.21	1,642.14	90.07	19.232	
16,700.00	11,135.85	18,356.07	12,834.08	78.12	91.27	-168.62	5,678.77	-161.86	1,732.69	1,639.27	93.42	18.547	
16,800.00	11,134.98	18,506.91	12,827.80	79.47	93.24	-168.80	5,829.37	-156.70	1,728.45	1,633.41	95.05	18.185	
16,900.00	11,134.10	18,581.58	12,824.34	80.82	94.23	-168.87	5,903.94	-154.77	1,724.03	1,628.25	95.79	17.999	
17,000.00	11,133.23	18,681.15	12,820.02	82.17	95.54	-168.92	6,003.40	-153.42	1,720.18	1,623.32	96.86	17.759	
17,100.00	11,132.36	18,776.67	12,816.06	83.52	96.81	-168.94	6,098.84	-153.04	1,716.70	1,618.79	97.91	17.533	
17,200.00	11,131.49	18,885.38	12,810.72	84.87	98.25	-168.94	6,207.42	-153.31	1,712.56	1,613.40	99.16	17.271	
17,300.00	11,130.62	18,971.55	12,807.24	86.23	99.40	-168.98	6,293.51	-152.44	1,709.07	1,608.99	100.08	17.077	
17,400.00	11,129.75	19,068.95	12,803.67	87.58	100.70	-169.05	6,390.83	-150.78	1,705.82	1,604.69	101.13	16.868	
17,500.00	11,128.88	19,158.33	12,800.78	88.93	101.89	-169.09	6,480.15	-149.79	1,703.09	1,601.01	102.08	16.684	
17,600.00	11,128.01	19,268.67	12,797.30	90.29	103.37	-169.12	6,590.44	-149.62	1,700.68	1,597.33	103.35	16.455	
17,700.00	11,127.14	19,360.43	12,793.46	91.64	104.60	-169.13	6,682.12	-149.45	1,697.26	1,592.88	104.38	16.261	
17,800.00	11,126.26	19,427.02	12,792.04	93.00	105.50	-169.14	6,748.69	-149.62	1,695.81	1,590.77	105.04	16.144	
17,900.00	11,125.39	19,526.34	12,790.48	94.36	106.84	-169.15	6,848.00	-150.17	1,695.05	1,588.87	106.18	15.963	
17,938.62	11,125.06	19,555.28	12,790.13	94.88	107.23	-169.15	6,876.94	-150.50	1,694.94	1,588.45	106.49	15.917	
18,000.00	11,124.52	19,605.00	12,789.87	95.71	107.90	-169.14	6,926.65	-151.41	1,695.23	1,588.19	107.04	15.838	
18,100.00	11,123.65	19,762.72	12,786.64	97.07	110.03	-169.12	7,084.31	-153.15	1,694.04	1,584.96	109.08	15.530	
18,200.00	11,122.78	19,850.89	12,783.43	98.43	111.23	-169.10	7,172.42	-153.91	1,691.34	1,581.24	110.10	15.362	
18,300.00	11,121.91	20,006.65	12,776.85	99.78	113.34	-169.08	7,328.01	-155.25	1,688.23	1,576.16	112.07	15.064	
18,400.00	11,121.04	20,079.00	12,772.97	101.14	114.33	-169.07	7,400.26	-155.61	1,683.73	1,570.84	112.89	14.915	
18,500.00	11,120.17	20,201.26	12,766.67	102.50	115.99	-169.03	7,522.35	-156.97	1,679.60	1,565.18	114.42	14.680	
18,600.00	11,119.30	20,332.05	12,757.06	103.86	117.78	-168.95	7,652.77	-158.80	1,673.21	1,557.14	116.08	14.415	
18,700.00	11,118.42	20,393.66	12,752.59	105.22	118.62	-168.93	7,714.22	-159.11	1,667.10	1,550.31	116.79	14.274	
18,800.00	11,117.55	20,460.00	12,750.84	106.58	119.52	-168.94	7,780.52	-159.20	1,664.64	1,547.14	117.51	14.166	
18,842.55	11,117.18	20,460.00	12,750.84	107.16	119.52	-168.94	7,780.52	-159.20	1,664.10	1,546.73	117.37	14.178	
18,900.00	11,116.68	20,497.15	12,750.97	107.94	120.03	-168.96	7,817.67	-159.15	1,664.60	1,546.88	117.71	14.141	
19,000.00	11,115.81	20,629.56	12,751.48	109.30	121.84	-169.02	7,950.08	-158.89	1,665.85	1,546.49	119.36	13.956	
19,100.00	11,114.94	20,745.88	12,748.78	110.66	123.44	-169.03	8,066.37	-159.62	1,664.32	1,543.51	120.81	13.776	
19,200.00	11,114.07	20,841.77	12,746.43	112.02	124.75	-169.02	8,162.23	-160.39	1,662.74	1,540.78	121.96	13.633	
19,300.00	11,113.20	20,952.00	12,743.52	113.38	126.27	-169.04	8,272.41	-160.61	1,660.85	1,537.54	123.31	13.469	
19,400.00	11,112.33	21,043.98	12,741.35	114.74	127.53	-169.06	8,364.37	-160.49	1,659.17	1,534.80	124.37	13.341	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com 224H(AC) - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 74-GYRO-NS-CT, 9684-3_MWD+HRGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		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	
19,500.00	11,111.45	21,182.16	12,735.73	116.10	129.44	-169.00	8,502.40	-162.85	1,656.07	1,529.86	126.21	13.121	
19,600.00	11,110.58	21,288.79	12,729.76	117.47	130.91	-168.88	8,608.81	-166.45	1,651.90	1,524.22	127.68	12.938	
19,700.00	11,109.71	21,382.81	12,724.45	118.83	132.22	-168.76	8,702.61	-169.76	1,647.71	1,518.75	128.96	12.777	
19,800.00	11,108.84	21,445.04	12,721.53	120.19	133.08	-168.69	8,764.73	-172.11	1,644.66	1,514.92	129.74	12.677	
19,854.10	11,108.37	21,472.10	12,720.88	120.93	133.45	-168.65	8,791.76	-173.29	1,644.21	1,514.19	130.02	12.646	
19,900.00	11,107.97	21,505.00	12,720.68	121.55	133.91	-168.61	8,824.62	-174.87	1,644.59	1,514.16	130.43	12.609	
20,000.00	11,107.10	21,582.54	12,721.00	122.92	134.98	-168.51	8,902.06	-178.81	1,646.54	1,515.12	131.42	12.529	
20,100.00	11,106.23	21,794.93	12,718.08	124.28	137.93	-168.35	9,114.26	-185.31	1,647.79	1,513.15	134.63	12.239	
20,200.00	11,105.36	21,890.94	12,712.56	125.64	139.27	-168.27	9,210.09	-187.57	1,643.29	1,507.36	135.93	12.089	
20,300.00	11,104.49	22,008.90	12,705.20	127.01	140.91	-168.18	9,327.79	-190.08	1,638.27	1,500.71	137.55	11.910	
20,400.00	11,103.61	22,104.70	12,698.48	128.37	142.24	-168.08	9,423.32	-192.66	1,632.61	1,493.72	138.89	11.754	
20,500.00	11,102.74	22,168.00	12,694.69	129.73	143.12	-168.01	9,486.48	-194.39	1,628.15	1,488.42	139.73	11.652	
20,600.00	11,101.87	22,262.00	12,690.83	131.10	144.43	-167.92	9,580.35	-197.46	1,625.47	1,484.41	141.05	11.524	
20,667.29	11,101.29	22,286.09	12,690.27	132.02	144.77	-167.88	9,604.40	-198.60	1,624.73	1,483.46	141.27	11.501	
20,700.00	11,101.00	22,303.24	12,690.01	132.46	145.01	-167.85	9,621.52	-199.63	1,624.89	1,483.43	141.47	11.486	
20,800.00	11,100.13	22,358.00	12,690.06	133.83	145.77	-167.72	9,676.09	-204.20	1,627.33	1,485.21	142.12	11.450	
20,900.00	11,099.26	22,507.60	12,691.15	135.19	147.87	-167.38	9,825.18	-215.95	1,630.78	1,485.93	144.85	11.258	
20,914.43	11,099.13	22,515.58	12,690.96	135.39	147.98	-167.42	9,833.17	-214.73	1,630.44	1,485.59	144.85	11.256	
21,000.00	11,098.39	22,597.64	12,691.07	136.56	149.11	-167.49	9,915.17	-213.72	1,630.90	1,485.14	145.76	11.189	
21,100.00	11,097.52	22,657.24	12,692.70	137.92	149.94	-167.59	9,974.72	-211.99	1,633.55	1,487.42	146.13	11.179	
21,200.00	11,096.65	22,735.00	12,696.52	139.29	151.02	-167.70	10,052.37	-210.31	1,638.43	1,491.67	146.76	11.164	
21,300.00	11,095.77	22,940.78	12,699.81	140.65	153.87	-168.00	10,258.00	-204.66	1,639.72	1,490.29	149.43	10.973	
21,400.00	11,094.90	23,033.29	12,698.87	142.02	155.16	-168.10	10,350.48	-202.60	1,638.91	1,488.50	150.41	10.896	
21,429.84	11,094.64	23,050.00	12,698.70	142.42	155.39	-168.12	10,367.19	-202.24	1,638.72	1,488.18	150.54	10.885	
21,455.42	11,094.42	23,050.00	12,698.70	142.77	155.39	-168.12	10,367.19	-202.24	1,638.92	1,488.50	150.42	10.895	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com Unit 154H - Wellbore #1 - Plan 1												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		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
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	0.50	0.50	-90.00	0.00	-25.00	25.00	23.99	1.01	24.778	
200.00	200.00	200.00	200.00	1.31	1.31	-90.00	0.00	-25.00	25.00	22.37	2.63	9.520	
300.00	300.00	300.00	300.00	1.79	1.79	-90.00	0.00	-25.00	25.00	21.42	3.58	6.980	
400.00	400.00	400.00	400.00	2.17	2.17	-90.00	0.00	-25.00	25.00	20.66	4.34	5.764	
500.00	500.00	500.00	500.00	2.49	2.49	-90.00	0.00	-25.00	25.00	20.01	4.99	5.015	
600.00	600.00	600.00	600.00	2.78	2.78	-90.00	0.00	-25.00	25.00	19.44	5.56	4.494	
700.00	700.00	700.00	700.00	3.04	3.04	-90.00	0.00	-25.00	25.00	18.91	6.09	4.105 CC	
700.04	700.04	700.04	700.04	3.05	3.05	-90.00	0.00	-25.00	25.00	18.91	6.09	4.105 ES	
800.00	800.00	799.94	799.94	3.15	3.15	140.80	-0.32	-25.06	25.31	19.01	6.30	4.018	
900.00	899.96	899.77	899.73	3.43	3.42	138.89	-2.89	-25.51	27.82	21.06	6.76	4.113	
1,000.00	999.82	999.44	999.26	3.70	3.68	135.94	-8.02	-26.41	32.91	25.70	7.20	4.568	
1,100.00	1,099.51	1,098.85	1,098.37	3.95	3.93	132.90	-15.68	-27.76	40.63	33.01	7.62	5.330	
1,200.00	1,198.96	1,197.67	1,196.69	4.20	4.03	130.83	-25.34	-29.74	51.13	43.21	7.92	6.454	
1,300.00	1,298.11	1,295.63	1,294.20	4.36	4.22	132.31	-33.98	-33.53	65.02	56.73	8.29	7.846	
1,400.00	1,397.13	1,392.84	1,390.97	4.56	4.43	135.03	-41.10	-39.31	81.44	72.75	8.69	9.372	
1,500.00	1,496.16	1,489.27	1,486.92	4.75	4.64	137.75	-46.73	-47.01	99.92	90.84	9.08	11.007	
1,600.00	1,595.18	1,584.81	1,581.89	4.94	4.84	140.31	-50.89	-56.59	120.54	111.09	9.45	12.751	
1,700.00	1,694.21	1,679.35	1,675.70	5.14	5.02	142.66	-53.63	-67.96	143.34	133.52	9.82	14.602	
1,800.00	1,793.24	1,774.83	1,770.27	5.33	5.15	144.76	-55.23	-81.01	168.00	157.86	10.14	16.565	
1,900.00	1,892.26	1,871.53	1,866.02	5.52	5.31	146.38	-56.74	-94.39	193.00	182.49	10.51	18.358	
2,000.00	1,991.29	1,968.23	1,961.78	5.72	5.48	147.62	-58.25	-107.77	218.11	207.22	10.89	20.024	
2,100.00	2,090.31	2,064.93	2,057.54	5.91	5.66	148.61	-59.76	-121.15	243.30	232.03	11.27	21.585	
2,200.00	2,189.39	2,161.72	2,153.39	6.04	5.84	149.48	-61.27	-134.54	268.19	256.61	11.58	23.150	
2,300.00	2,288.77	2,259.04	2,249.76	6.26	6.02	150.05	-62.79	-148.00	291.13	279.14	11.98	24.298	
2,400.00	2,388.40	2,356.86	2,346.63	6.48	6.20	150.29	-64.31	-161.54	311.85	299.48	12.37	25.209	
2,500.00	2,488.22	2,455.20	2,444.01	6.69	6.35	150.28	-65.85	-175.15	330.35	317.63	12.72	25.977	
2,600.00	2,588.16	2,563.28	2,551.24	6.89	6.51	150.07	-67.36	-188.57	345.25	332.12	13.12	26.307	
2,700.00	2,688.16	2,672.41	2,659.85	6.97	6.70	-81.32	-68.54	-199.06	355.25	341.79	13.46	26.402	
2,800.00	2,788.16	2,782.13	2,769.32	7.07	6.88	-81.63	-69.38	-206.49	361.84	348.04	13.80	26.225	
2,900.00	2,888.16	2,892.20	2,879.29	7.17	7.06	-81.80	-69.87	-210.81	365.65	351.53	14.12	25.896	
3,000.00	2,988.16	3,001.07	2,988.16	7.27	7.18	-81.85	-70.00	-212.00	366.71	352.37	14.34	25.576	
3,100.00	3,088.16	3,101.07	3,088.16	7.37	7.29	-81.85	-70.00	-212.00	366.71	352.17	14.54	25.224	
3,200.00	3,188.16	3,201.07	3,188.16	7.47	7.39	-81.85	-70.00	-212.00	366.71	351.97	14.74	24.884	
3,300.00	3,288.16	3,301.07	3,288.16	7.57	7.49	-81.85	-70.00	-212.00	366.71	351.77	14.93	24.554	
3,400.00	3,388.16	3,401.07	3,388.16	7.66	7.59	-81.85	-70.00	-212.00	366.71	351.57	15.13	24.235	
3,500.00	3,488.16	3,501.07	3,488.16	7.76	7.69	-81.85	-70.00	-212.00	366.71	351.38	15.33	23.924	
3,600.00	3,588.16	3,601.07	3,588.16	7.86	7.79	-81.85	-70.00	-212.00	366.71	351.18	15.52	23.623	
3,700.00	3,688.16	3,701.07	3,688.16	7.96	7.89	-81.85	-70.00	-212.00	366.71	350.99	15.72	23.330	
3,800.00	3,788.16	3,801.07	3,788.16	8.05	7.99	-81.85	-70.00	-212.00	366.71	350.79	15.91	23.046	
3,900.00	3,888.16	3,901.07	3,888.16	8.15	8.09	-81.85	-70.00	-212.00	366.71	350.60	16.11	22.769	
4,000.00	3,988.16	4,001.07	3,988.16	8.25	8.18	-81.85	-70.00	-212.00	366.71	350.41	16.30	22.500	
4,100.00	4,088.16	4,101.07	4,088.16	8.34	8.28	-81.85	-70.00	-212.00	366.71	350.22	16.49	22.238	
4,200.00	4,188.16	4,201.07	4,188.16	8.44	8.38	-81.85	-70.00	-212.00	366.71	350.02	16.68	21.983	
4,300.00	4,288.16	4,301.07	4,288.16	8.53	8.48	-81.85	-70.00	-212.00	366.71	349.83	16.87	21.734	
4,400.00	4,388.16	4,401.07	4,388.16	8.63	8.57	-81.85	-70.00	-212.00	366.71	349.64	17.06	21.492	
4,500.00	4,488.16	4,501.07	4,488.16	8.72	8.67	-81.85	-70.00	-212.00	366.71	349.45	17.25	21.255	
4,600.00	4,588.16	4,601.07	4,588.16	8.82	8.77	-81.85	-70.00	-212.00	366.71	349.26	17.44	21.025	
4,700.00	4,688.16	4,701.07	4,688.16	8.91	8.86	-81.85	-70.00	-212.00	366.71	349.08	17.63	20.800	
4,800.00	4,788.16	4,801.07	4,788.16	9.00	8.96	-81.85	-70.00	-212.00	366.71	348.89	17.82	20.580	
4,900.00	4,888.16	4,901.07	4,888.16	9.10	9.06	-81.85	-70.00	-212.00	366.71	348.70	18.01	20.366	
5,000.00	4,988.16	5,001.07	4,988.16	9.19	9.15	-81.85	-70.00	-212.00	366.71	348.51	18.19	20.156	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com Unit 154H - Wellbore #1 - Plan 1														Offset Site Error: 0.00 usft	
Survey Program:		0-MWD+HRGM+SAG+FDIR (rev.5)						Rule Assigned:		Offset Well Error: 0.00 usft					
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance			Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,100.00	5,088.16	5,101.07	5,088.16	9.29	9.25	-81.85	-70.00	-212.00	366.71	348.33	18.38	19.951			
5,200.00	5,188.16	5,201.07	5,188.16	9.38	9.34	-81.85	-70.00	-212.00	366.71	348.14	18.57	19.751			
5,300.00	5,288.16	5,301.07	5,288.16	9.47	9.44	-81.85	-70.00	-212.00	366.71	347.95	18.75	19.555			
5,400.00	5,388.16	5,401.07	5,388.16	9.56	9.53	-81.85	-70.00	-212.00	366.71	347.77	18.94	19.364			
5,500.00	5,488.16	5,501.07	5,488.16	9.66	9.63	-81.85	-70.00	-212.00	366.71	347.58	19.12	19.177			
5,600.00	5,588.16	5,601.07	5,588.16	9.75	9.72	-81.85	-70.00	-212.00	366.71	347.40	19.31	18.993			
5,700.00	5,688.16	5,701.07	5,688.16	9.84	9.81	-81.85	-70.00	-212.00	366.71	347.21	19.49	18.814			
5,800.00	5,788.16	5,801.07	5,788.16	9.93	9.91	-81.85	-70.00	-212.00	366.71	347.03	19.68	18.638			
5,900.00	5,888.16	5,901.07	5,888.16	10.02	10.00	-81.85	-70.00	-212.00	366.71	346.85	19.86	18.465			
6,000.00	5,988.16	6,001.07	5,988.16	10.12	10.10	-81.85	-70.00	-212.00	366.71	346.66	20.04	18.297			
6,100.00	6,088.16	6,101.07	6,088.16	10.21	10.19	-81.85	-70.00	-212.00	366.71	346.48	20.22	18.131			
6,200.00	6,188.16	6,201.07	6,188.16	10.30	10.28	-81.85	-70.00	-212.00	366.71	346.30	20.41	17.969			
6,300.00	6,288.16	6,301.07	6,288.16	10.39	10.37	-81.85	-70.00	-212.00	366.71	346.12	20.59	17.810			
6,400.00	6,388.16	6,401.07	6,388.16	10.48	10.47	-81.85	-70.00	-212.00	366.71	345.93	20.77	17.654			
6,500.00	6,488.16	6,501.07	6,488.16	10.57	10.56	-81.85	-70.00	-212.00	366.71	345.75	20.95	17.501			
6,600.00	6,588.16	6,601.07	6,588.16	10.66	10.65	-81.85	-70.00	-212.00	366.71	345.57	21.13	17.351			
6,700.00	6,688.16	6,701.07	6,688.16	10.75	10.74	-81.85	-70.00	-212.00	366.71	345.39	21.32	17.204			
6,800.00	6,788.16	6,801.07	6,788.16	10.84	10.84	-81.85	-70.00	-212.00	366.71	345.21	21.50	17.059			
6,900.00	6,888.16	6,901.07	6,888.16	10.93	10.93	-81.85	-70.00	-212.00	366.71	345.03	21.68	16.917			
7,000.00	6,988.16	7,001.07	6,988.16	11.02	11.02	-81.85	-70.00	-212.00	366.71	344.85	21.86	16.778			
7,100.00	7,088.16	7,101.07	7,088.16	11.11	11.11	-81.85	-70.00	-212.00	366.71	344.67	22.04	16.641			
7,200.00	7,188.16	7,201.07	7,188.16	11.20	11.20	-81.85	-70.00	-212.00	366.71	344.49	22.22	16.506			
7,300.00	7,288.16	7,301.07	7,288.16	11.29	11.29	-81.85	-70.00	-212.00	366.71	344.31	22.40	16.374			
7,400.00	7,388.16	7,401.07	7,388.16	11.38	11.39	-81.85	-70.00	-212.00	366.71	344.13	22.57	16.244			
7,500.00	7,488.16	7,501.07	7,488.16	11.47	11.48	-81.85	-70.00	-212.00	366.71	343.95	22.75	16.117			
7,600.00	7,588.16	7,601.07	7,588.16	11.56	11.57	-81.85	-70.00	-212.00	366.71	343.77	22.93	15.991			
7,700.00	7,688.16	7,701.07	7,688.16	11.65	11.66	-81.85	-70.00	-212.00	366.71	343.60	23.11	15.868			
7,800.00	7,788.16	7,801.07	7,788.16	11.74	11.75	-81.85	-70.00	-212.00	366.71	343.42	23.29	15.746			
7,900.00	7,888.16	7,901.07	7,888.16	11.83	11.84	-81.85	-70.00	-212.00	366.71	343.24	23.47	15.627			
8,000.00	7,988.16	8,001.07	7,988.16	11.92	11.93	-81.85	-70.00	-212.00	366.71	343.06	23.64	15.509			
8,100.00	8,088.16	8,101.07	8,088.16	12.01	12.02	-81.85	-70.00	-212.00	366.71	342.88	23.82	15.394			
8,200.00	8,188.16	8,201.07	8,188.16	12.10	12.11	-81.85	-70.00	-212.00	366.71	342.71	24.00	15.280			
8,300.00	8,288.16	8,301.07	8,288.16	12.19	12.20	-81.85	-70.00	-212.00	366.71	342.53	24.18	15.168			
8,400.00	8,388.16	8,401.07	8,388.16	12.28	12.29	-81.85	-70.00	-212.00	366.71	342.35	24.35	15.058			
8,500.00	8,488.16	8,501.07	8,488.16	12.36	12.38	-81.85	-70.00	-212.00	366.71	342.18	24.53	14.949			
8,600.00	8,588.16	8,601.07	8,588.16	12.45	12.47	-81.85	-70.00	-212.00	366.71	342.00	24.71	14.843			
8,700.00	8,688.16	8,701.07	8,688.16	12.54	12.56	-81.85	-70.00	-212.00	366.71	341.82	24.88	14.737			
8,800.00	8,788.16	8,801.07	8,788.16	12.63	12.65	-81.85	-70.00	-212.00	366.71	341.65	25.06	14.634			
8,900.00	8,888.16	8,901.07	8,888.16	12.72	12.74	-81.85	-70.00	-212.00	366.71	341.47	25.23	14.532			
9,000.00	8,988.16	9,001.07	8,988.16	12.81	12.83	-81.85	-70.00	-212.00	366.71	341.29	25.41	14.431			
9,100.00	9,088.16	9,101.07	9,088.16	12.89	12.91	-81.85	-70.00	-212.00	366.71	341.12	25.59	14.332			
9,200.00	9,188.16	9,201.07	9,188.16	12.98	13.00	-81.85	-70.00	-212.00	366.71	340.94	25.76	14.234			
9,300.00	9,288.16	9,301.07	9,288.16	13.07	13.09	-81.85	-70.00	-212.00	366.71	340.77	25.94	14.138			
9,400.00	9,388.16	9,401.07	9,388.16	13.16	13.18	-81.85	-70.00	-212.00	366.71	340.59	26.11	14.043			
9,500.00	9,488.16	9,501.07	9,488.16	13.25	13.27	-81.85	-70.00	-212.00	366.71	340.42	26.29	13.950			
9,600.00	9,588.16	9,601.07	9,588.16	13.33	13.36	-81.85	-70.00	-212.00	366.71	340.24	26.46	13.858			
9,700.00	9,688.16	9,701.07	9,688.16	13.42	13.45	-81.85	-70.00	-212.00	366.71	340.07	26.64	13.767			
9,800.00	9,788.16	9,801.07	9,788.16	13.51	13.54	-81.85	-70.00	-212.00	366.71	339.89	26.81	13.677			
9,900.00	9,888.16	9,901.07	9,888.16	13.60	13.62	-81.85	-70.00	-212.00	366.71	339.72	26.99	13.589			
10,000.00	9,988.16	10,001.07	9,988.16	13.68	13.71	-81.85	-70.00	-212.00	366.71	339.55	27.16	13.501			
10,100.00	10,088.16	10,101.07	10,088.16	13.77	13.80	-81.85	-70.00	-212.00	366.71	339.37	27.33	13.415			
10,200.00	10,188.16	10,201.07	10,188.16	13.86	13.89	-81.85	-70.00	-212.00	366.71	339.20	27.51	13.331			

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com Unit 154H - Wellbore #1 - Plan 1													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		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,300.00	10,288.16	10,301.07	10,288.16	13.95	13.98	-81.85	-70.00	-212.00	366.71	339.02	27.68	13.247	
10,400.00	10,388.16	10,401.07	10,388.16	14.03	14.06	-81.85	-70.00	-212.00	366.71	338.85	27.86	13.164	
10,500.00	10,488.16	10,501.07	10,488.16	14.12	14.15	-81.85	-70.00	-212.00	366.71	338.68	28.03	13.083	
10,600.00	10,588.16	10,601.07	10,588.16	14.21	14.24	-81.85	-70.00	-212.00	366.71	338.50	28.20	13.002	
10,700.00	10,687.90	10,700.81	10,687.90	14.31	14.33	-88.73	-70.00	-212.00	366.54	338.21	28.33	12.939	
10,745.71	10,732.86	10,745.78	10,732.86	14.38	14.37	-90.00	-70.00	-212.00	366.45	338.07	28.37	12.915	
10,800.00	10,785.20	10,798.12	10,785.20	14.48	14.41	-92.13	-70.00	-212.00	366.73	338.30	28.42	12.902	
10,900.00	10,877.13	10,890.04	10,877.13	14.64	14.49	-97.33	-70.00	-212.00	370.31	341.81	28.50	12.992	
11,000.00	10,960.87	10,973.79	10,960.87	14.80	14.57	-103.05	-70.00	-212.00	381.97	353.37	28.60	13.355	
11,100.00	11,033.90	11,046.81	11,033.90	14.93	14.63	-107.80	-70.00	-212.00	406.49	377.73	28.75	14.137	
11,200.00	11,093.98	11,106.90	11,093.98	15.05	14.68	-110.28	-70.00	-212.00	446.84	417.88	28.96	15.428	
11,300.00	11,139.30	11,152.21	11,139.30	15.17	14.71	-109.40	-70.00	-212.00	503.09	473.90	29.19	17.237	
11,400.00	11,168.47	11,191.70	11,178.78	15.33	14.74	-105.46	-69.47	-211.99	572.50	543.10	29.39	19.478	
11,500.00	11,180.61	11,355.88	11,339.77	15.60	15.03	-115.59	-40.41	-211.48	649.21	618.38	30.83	21.056	
11,600.00	11,180.28	12,103.74	11,730.69	16.06	16.40	-142.70	535.69	-201.56	692.31	649.24	43.07	16.075	
11,700.00	11,179.41	12,196.25	11,729.88	16.68	16.90	-142.25	628.19	-202.02	696.31	652.95	43.36	16.059	
11,800.00	11,178.53	12,296.18	11,729.01	17.40	17.57	-142.01	728.12	-202.97	698.49	654.67	43.83	15.938	
11,900.00	11,177.66	12,396.18	11,728.13	18.16	18.33	-141.98	828.10	-203.92	698.78	654.38	44.40	15.739	
12,000.00	11,176.79	12,496.18	11,727.25	19.01	19.16	-141.98	928.10	-204.88	698.77	653.72	45.05	15.511	
12,100.00	11,175.92	12,596.18	11,726.38	19.91	20.05	-141.98	1,028.09	-205.83	698.77	653.00	45.77	15.267	
12,200.00	11,175.05	12,696.18	11,725.50	20.87	21.00	-141.98	1,128.08	-206.78	698.76	652.21	46.55	15.011	
12,300.00	11,174.18	12,796.18	11,724.62	21.88	21.99	-141.98	1,228.07	-207.74	698.75	651.36	47.39	14.745	
12,400.00	11,173.31	12,896.18	11,723.75	22.92	23.02	-141.98	1,328.06	-208.69	698.75	650.46	48.28	14.472	
12,500.00	11,172.44	12,996.18	11,722.87	24.00	24.08	-141.98	1,428.05	-209.65	698.74	649.51	49.23	14.194	
12,600.00	11,171.56	13,096.18	11,722.00	25.10	25.18	-141.98	1,528.05	-210.60	698.73	648.51	50.22	13.912	
12,700.00	11,170.69	13,196.18	11,721.12	26.23	26.30	-141.98	1,628.04	-211.55	698.73	647.46	51.27	13.629	
12,800.00	11,169.82	13,296.18	11,720.24	27.39	27.44	-141.98	1,728.03	-212.51	698.72	646.37	52.35	13.346	
12,900.00	11,168.95	13,396.18	11,719.37	28.56	28.61	-141.98	1,828.02	-213.46	698.71	645.23	53.48	13.065	
13,000.00	11,168.08	13,496.18	11,718.49	29.75	29.79	-141.98	1,928.01	-214.41	698.71	644.06	54.64	12.786	
13,100.00	11,167.21	13,596.18	11,717.61	30.96	30.99	-141.98	2,028.00	-215.37	698.70	642.85	55.85	12.511	
13,200.00	11,166.34	13,696.18	11,716.74	32.17	32.20	-141.98	2,127.99	-216.32	698.69	641.61	57.08	12.240	
13,300.00	11,165.47	13,796.18	11,715.86	33.41	33.42	-141.98	2,227.99	-217.27	698.69	640.34	58.35	11.974	
13,400.00	11,164.60	13,896.18	11,714.98	34.65	34.66	-141.98	2,327.98	-218.23	698.68	639.04	59.64	11.714	
13,500.00	11,163.72	13,996.18	11,714.11	35.90	35.90	-141.98	2,427.97	-219.18	698.67	637.70	60.97	11.459	
13,600.00	11,162.85	14,096.18	11,713.23	37.16	37.16	-141.98	2,527.96	-220.14	698.67	636.35	62.32	11.211	
13,700.00	11,161.98	14,196.18	11,712.35	38.43	38.42	-141.98	2,627.95	-221.09	698.66	634.97	63.69	10.969	
13,800.00	11,161.11	14,296.18	11,711.48	39.70	39.69	-141.98	2,727.94	-222.04	698.65	633.56	65.09	10.733	
13,900.00	11,160.24	14,396.18	11,710.60	40.98	40.97	-141.98	2,827.94	-223.00	698.65	632.14	66.51	10.504	
14,000.00	11,159.37	14,496.18	11,709.72	42.27	42.25	-141.98	2,927.93	-223.95	698.64	630.69	67.95	10.282	
14,100.00	11,158.50	14,596.18	11,708.85	43.56	43.54	-141.98	3,027.92	-224.90	698.63	629.23	69.41	10.066	
14,200.00	11,157.63	14,696.18	11,707.97	44.86	44.83	-141.98	3,127.91	-225.86	698.63	627.74	70.88	9.856	
14,300.00	11,156.75	14,796.18	11,707.10	46.16	46.13	-141.98	3,227.90	-226.81	698.62	626.24	72.37	9.653	
14,400.00	11,155.88	14,896.18	11,706.22	47.46	47.43	-141.98	3,327.89	-227.76	698.61	624.73	73.88	9.456	
14,500.00	11,155.01	14,996.18	11,705.34	48.77	48.74	-141.98	3,427.89	-228.72	698.61	623.20	75.40	9.265	
14,600.00	11,154.14	15,096.18	11,704.47	50.08	50.05	-141.98	3,527.88	-229.67	698.60	621.66	76.94	9.080	
14,700.00	11,153.27	15,196.18	11,703.59	51.40	51.36	-141.98	3,627.87	-230.62	698.59	620.10	78.49	8.901	
14,800.00	11,152.40	15,296.18	11,702.71	52.72	52.67	-141.98	3,727.86	-231.58	698.59	618.54	80.05	8.727	
14,900.00	11,151.53	15,396.18	11,701.84	54.04	53.99	-141.98	3,827.85	-232.53	698.58	616.96	81.62	8.559	
15,000.00	11,150.66	15,496.18	11,700.96	55.36	55.31	-141.98	3,927.84	-233.49	698.57	615.37	83.21	8.396	
15,100.00	11,149.79	15,596.18	11,700.08	56.69	56.64	-141.98	4,027.84	-234.44	698.57	613.77	84.80	8.238	
15,200.00	11,148.91	15,696.18	11,699.21	58.02	57.96	-141.98	4,127.83	-235.39	698.56	612.16	86.40	8.085	
15,300.00	11,148.04	15,796.18	11,698.33	59.35	59.29	-141.98	4,227.82	-236.35	698.55	610.54	88.01	7.937	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com Unit 154H - Wellbore #1 - Plan 1											Offset Site Error: 0.00 usft		
Survey Program: Reference		0-MWD+HRGM+SAG+FDIR (rev.5)					Rule Assigned:		Offset Well Error: 0.00 usft				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	11,147.17	15,896.18	11,697.45	60.68	60.62	-141.98	4,327.81	-237.30	698.54	608.91	89.64	7.793	
15,500.00	11,146.30	15,996.18	11,696.58	62.01	61.95	-141.98	4,427.80	-238.25	698.54	607.27	91.27	7.654	
15,600.00	11,145.43	16,096.18	11,695.70	63.35	63.29	-141.98	4,527.79	-239.21	698.53	605.63	92.90	7.519	
15,700.00	11,144.56	16,196.18	11,694.82	64.68	64.62	-141.98	4,627.79	-240.16	698.52	603.98	94.55	7.388	
15,800.00	11,143.69	16,296.18	11,693.95	66.02	65.96	-141.98	4,727.78	-241.11	698.52	602.32	96.20	7.261	
15,900.00	11,142.82	16,396.18	11,693.07	67.36	67.30	-141.98	4,827.77	-242.07	698.51	600.65	97.86	7.138	
16,000.00	11,141.95	16,496.18	11,692.19	68.70	68.64	-141.98	4,927.76	-243.02	698.50	598.98	99.52	7.019	
16,100.00	11,141.07	16,596.18	11,691.32	70.04	69.98	-141.98	5,027.75	-243.98	698.50	597.31	101.19	6.903	
16,200.00	11,140.20	16,696.18	11,690.44	71.39	71.32	-141.98	5,127.74	-244.93	698.49	595.62	102.87	6.790	
16,300.00	11,139.33	16,796.18	11,689.57	72.73	72.66	-141.98	5,227.73	-245.88	698.48	593.94	104.55	6.681	
16,400.00	11,138.46	16,896.18	11,688.69	74.08	74.01	-141.98	5,327.73	-246.84	698.48	592.24	106.24	6.575	
16,500.00	11,137.59	16,996.18	11,687.81	75.42	75.35	-141.98	5,427.72	-247.79	698.47	590.54	107.93	6.472	
16,600.00	11,136.72	17,096.18	11,686.94	76.77	76.70	-141.98	5,527.71	-248.74	698.46	588.84	109.62	6.371	
16,700.00	11,135.85	17,196.18	11,686.06	78.12	78.05	-141.98	5,627.70	-249.70	698.46	587.13	111.32	6.274	
16,800.00	11,134.98	17,296.18	11,685.18	79.47	79.39	-141.98	5,727.69	-250.65	698.45	585.42	113.03	6.179	
16,900.00	11,134.10	17,396.18	11,684.31	80.82	80.74	-141.98	5,827.68	-251.60	698.44	583.71	114.74	6.087	
17,000.00	11,133.23	17,496.18	11,683.43	82.17	82.09	-141.98	5,927.68	-252.56	698.44	581.99	116.45	5.998	
17,100.00	11,132.36	17,596.18	11,682.55	83.52	83.44	-141.98	6,027.67	-253.51	698.43	580.26	118.17	5.910	
17,200.00	11,131.49	17,696.18	11,681.68	84.87	84.79	-141.98	6,127.66	-254.47	698.42	578.53	119.89	5.826	
17,300.00	11,130.62	17,796.18	11,680.80	86.23	86.15	-141.98	6,227.65	-255.42	698.42	576.80	121.61	5.743	
17,400.00	11,129.75	17,896.18	11,679.92	87.58	87.50	-141.98	6,327.64	-256.37	698.41	575.07	123.34	5.663	
17,500.00	11,128.88	17,996.18	11,679.05	88.93	88.85	-141.98	6,427.63	-257.33	698.40	573.33	125.07	5.584	
17,600.00	11,128.01	18,096.18	11,678.17	90.29	90.21	-141.98	6,527.63	-258.28	698.40	571.59	126.80	5.508	
17,700.00	11,127.14	18,196.18	11,677.29	91.64	91.56	-141.98	6,627.62	-259.23	698.39	569.85	128.54	5.433	
17,800.00	11,126.26	18,296.18	11,676.42	93.00	92.91	-141.98	6,727.61	-260.19	698.38	568.11	130.28	5.361	
17,900.00	11,125.39	18,396.18	11,675.54	94.36	94.27	-141.98	6,827.60	-261.14	698.38	566.36	132.02	5.290	
18,000.00	11,124.52	18,496.18	11,674.67	95.71	95.63	-141.98	6,927.59	-262.09	698.37	564.61	133.76	5.221	
18,100.00	11,123.65	18,596.18	11,673.79	97.07	96.98	-141.98	7,027.58	-263.05	698.36	562.85	135.51	5.154	
18,200.00	11,122.78	18,696.18	11,672.91	98.43	98.34	-141.98	7,127.58	-264.00	698.36	561.10	137.26	5.088	
18,300.00	11,121.91	18,796.18	11,672.04	99.78	99.70	-141.98	7,227.57	-264.95	698.35	559.34	139.01	5.024	
18,400.00	11,121.04	18,896.18	11,671.16	101.14	101.05	-141.98	7,327.56	-265.91	698.34	557.58	140.76	4.961	
18,500.00	11,120.17	18,996.18	11,670.28	102.50	102.41	-141.98	7,427.55	-266.86	698.34	555.82	142.52	4.900	
18,600.00	11,119.30	19,096.18	11,669.41	103.86	103.77	-141.98	7,527.54	-267.82	698.33	554.05	144.28	4.840	
18,700.00	11,118.42	19,196.18	11,668.53	105.22	105.13	-141.98	7,627.53	-268.77	698.32	552.29	146.04	4.782	
18,800.00	11,117.55	19,296.18	11,667.65	106.58	106.49	-141.98	7,727.53	-269.72	698.32	550.52	147.80	4.725	
18,900.00	11,116.68	19,396.18	11,666.78	107.94	107.85	-141.98	7,827.52	-270.68	698.31	548.75	149.56	4.669	
19,000.00	11,115.81	19,496.18	11,665.90	109.30	109.21	-141.98	7,927.51	-271.63	698.30	546.98	151.33	4.615	
19,100.00	11,114.94	19,596.18	11,665.02	110.66	110.57	-141.98	8,027.50	-272.58	698.29	545.20	153.09	4.561	
19,200.00	11,114.07	19,696.18	11,664.15	112.02	111.93	-141.98	8,127.49	-273.54	698.29	543.43	154.86	4.509	
19,300.00	11,113.20	19,796.18	11,663.27	113.38	113.29	-141.98	8,227.48	-274.49	698.28	541.65	156.63	4.458	
19,400.00	11,112.33	19,896.18	11,662.39	114.74	114.65	-141.98	8,327.47	-275.44	698.27	539.87	158.40	4.408	
19,500.00	11,111.45	19,996.18	11,661.52	116.10	116.01	-141.98	8,427.47	-276.40	698.27	538.09	160.18	4.359	
19,600.00	11,110.58	20,096.18	11,660.64	117.47	117.37	-141.98	8,527.46	-277.35	698.26	536.31	161.95	4.312	
19,700.00	11,109.71	20,196.18	11,659.76	118.83	118.73	-141.98	8,627.45	-278.31	698.25	534.53	163.73	4.265	
19,800.00	11,108.84	20,296.18	11,658.89	120.19	120.09	-141.98	8,727.44	-279.26	698.25	532.74	165.50	4.219	
19,900.00	11,107.97	20,396.18	11,658.01	121.55	121.46	-141.98	8,827.43	-280.21	698.24	530.96	167.28	4.174	
20,000.00	11,107.10	20,496.18	11,657.14	122.92	122.82	-141.98	8,927.42	-281.17	698.23	529.17	169.06	4.130	
20,100.00	11,106.23	20,596.18	11,656.26	124.28	124.18	-141.98	9,027.42	-282.12	698.23	527.38	170.84	4.087	
20,200.00	11,105.36	20,696.18	11,655.38	125.64	125.54	-141.98	9,127.41	-283.07	698.22	525.60	172.62	4.045	
20,300.00	11,104.49	20,796.18	11,654.51	127.01	126.91	-141.98	9,227.40	-284.03	698.21	523.81	174.41	4.003	
20,400.00	11,103.61	20,896.18	11,653.63	128.37	128.27	-141.98	9,327.39	-284.98	698.21	522.01	176.19	3.963	
20,500.00	11,102.74	20,996.18	11,652.75	129.73	129.63	-141.98	9,427.38	-285.93	698.20	520.22	177.98	3.923	

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



Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Sec. 33-24S-35E - Gipple Fed Com Unit 154H - Wellbore #1 - Plan 1													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)			
20,600.00	11,101.87	21,096.18	11,651.88	131.10	131.00	-141.98	9,527.37	-286.89	698.19	518.43	179.76	3.884	
20,700.00	11,101.00	21,196.18	11,651.00	132.46	132.36	-141.98	9,627.37	-287.84	698.19	516.63	181.55	3.846	
20,800.00	11,100.13	21,296.18	11,650.12	133.83	133.73	-141.98	9,727.36	-288.79	698.18	514.84	183.34	3.808	
20,900.00	11,099.26	21,396.18	11,649.25	135.19	135.09	-141.98	9,827.35	-289.75	698.17	513.04	185.13	3.771	
21,000.00	11,098.39	21,496.18	11,648.37	136.56	136.45	-141.98	9,927.34	-290.70	698.17	511.25	186.92	3.735	
21,100.00	11,097.52	21,596.18	11,647.49	137.92	137.82	-141.98	10,027.33	-291.66	698.16	509.45	188.71	3.700	
21,200.00	11,096.65	21,696.18	11,646.62	139.29	139.18	-141.98	10,127.32	-292.61	698.15	507.65	190.50	3.665	
21,300.00	11,095.77	21,796.18	11,645.74	140.65	140.55	-141.98	10,227.32	-293.56	698.15	505.85	192.30	3.631	
21,400.00	11,094.90	21,896.18	11,644.86	142.02	141.91	-141.98	10,327.31	-294.52	698.14	504.05	194.09	3.597	
21,449.39	11,094.47	21,945.57	11,644.43	142.69	142.59	-141.98	10,376.70	-294.99	698.14	503.16	194.98	3.581	
21,455.42	11,094.42	21,946.87	11,644.42	142.77	142.61	-141.98	10,378.00	-295.00	698.15	503.17	194.98	3.581 SF	

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



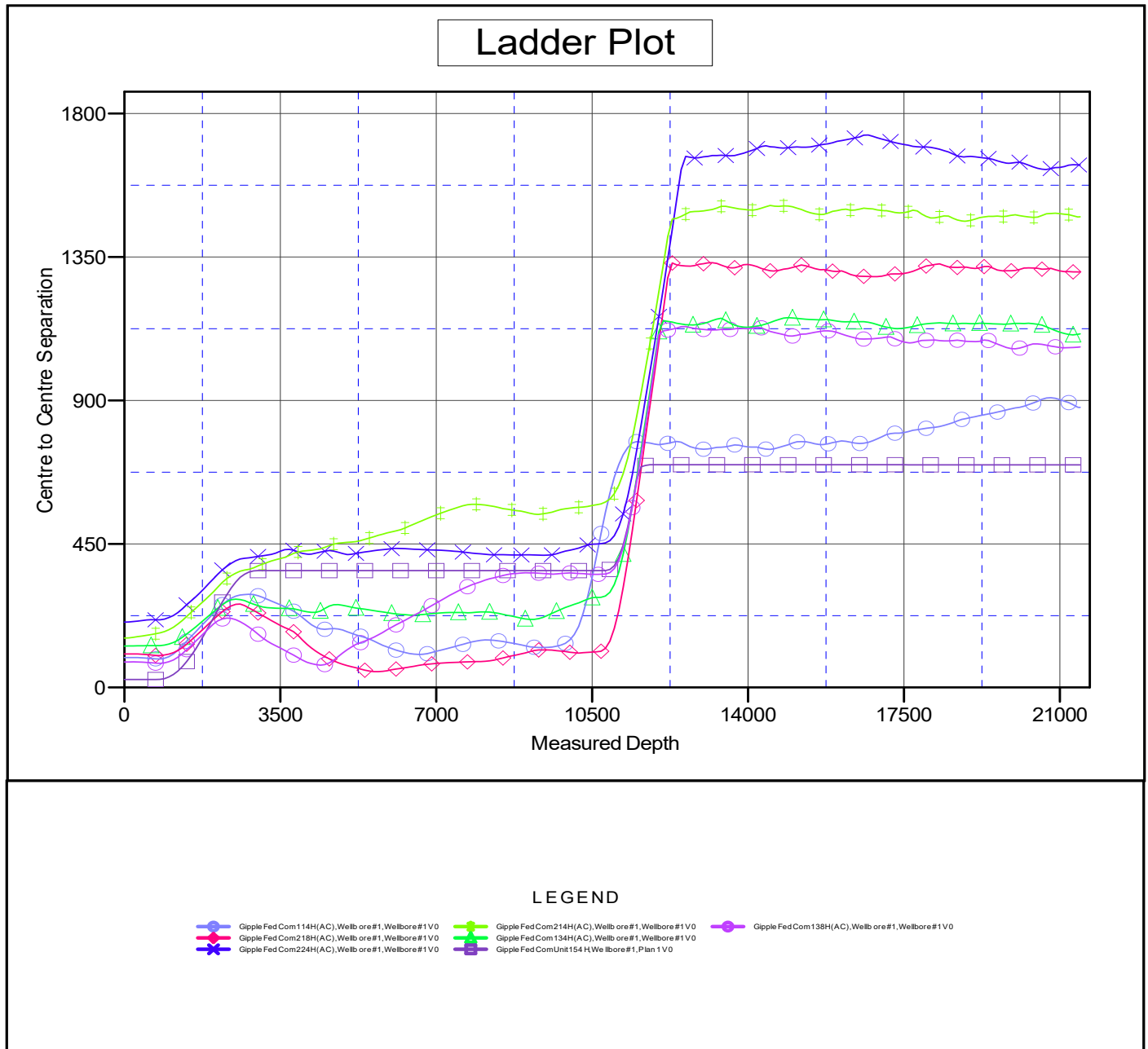
Anticollision Report



Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GE 3284' + KB 26.5' @ 3310.50usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.33333334

Coordinates are relative to: Gipple Fed Com Unit 124H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.52°



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



Anticollision Report

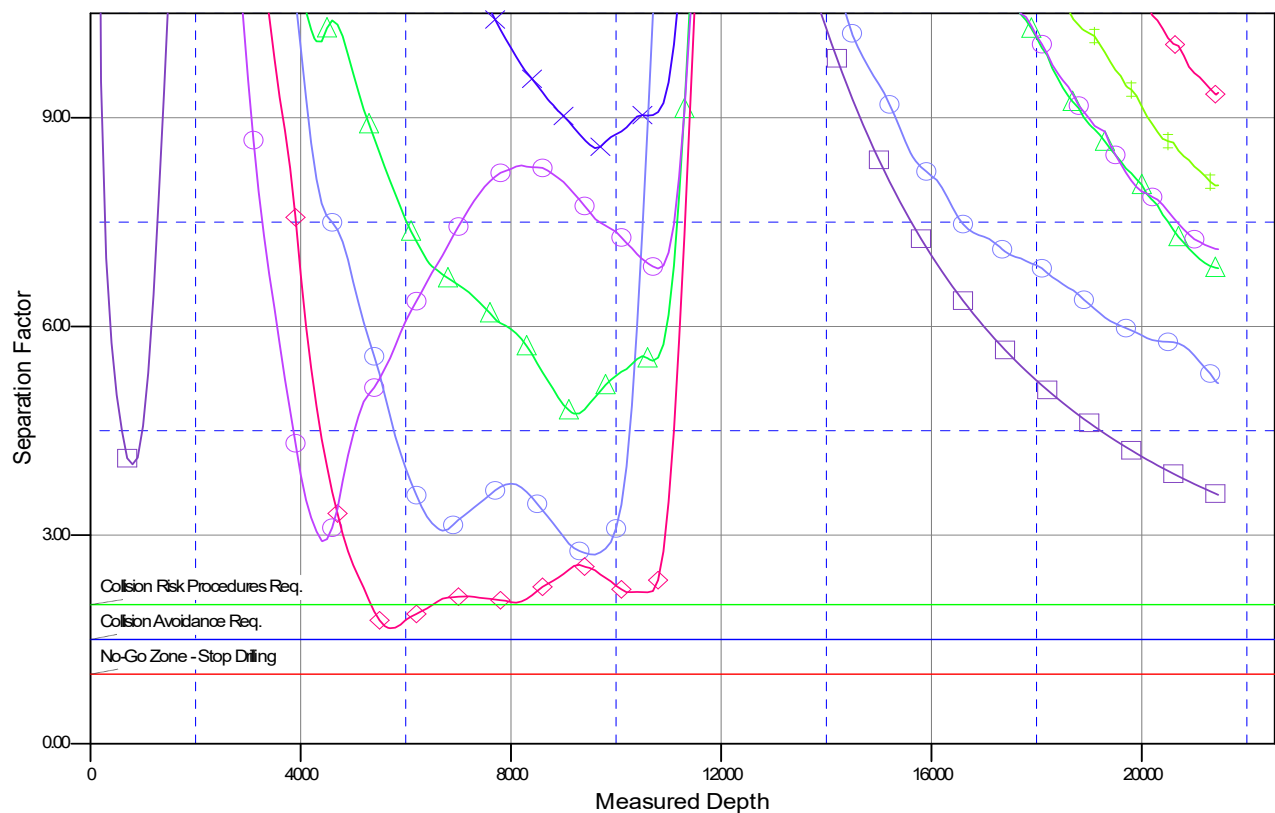


Company:	CIVITAS PERMIAN OPERATING, LLC(SB)	Local Co-ordinate Reference:	Well Gipple Fed Com Unit 124H
Project:	LEA CO. NM (NAD 83)	TVD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Reference Site:	Sec. 33-24S-35E	MD Reference:	GE 3284' + KB 26.5' @ 3310.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gipple Fed Com Unit 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GE 3284' + KB 26.5' @ 3310.50usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.33333334

Coordinates are relative to: Gipple Fed Com Unit 124H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.52°

Separation Factor Plot



LEGEND

- Gipple Fed Com 114H(AC), Wellbore #1, Wellbore #1 V0
- Gipple Fed Com 218H(AC), Wellbore #1, Wellbore #1 V0
- ✕ Gipple Fed Com 224H(AC), Wellbore #1, Wellbore #1 V0
- Gipple Fed Com 214H(AC), Wellbore #1, Wellbore #1 V0
- ✕ Gipple Fed Com 134H(AC), Wellbore #1, Wellbore #1 V0
- Gipple Fed Com Unit 154 H, Wellbore #1, Plan 1 V0
- Gipple Fed Com 138H(AC), Wellbore #1, Wellbore #1 V0

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

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Tap Rock Operating LLC
WELL NAME & NO.:	Seinfeld Federal Unit Gipple 124H
LOCATION:	Sec 33-24S-35E-NMP
COUNTY:	Lea County, New Mexico

*Changes approved through engineering via **Sundry 2869456** on 10/24/2025. Any previous COAs not addressed within the updated COAs still apply.*

Create COAs

H₂S Not Reported	Cave / Karst Low	Waste Prevention Rule Waste Minimization Plan
Potash None	R-111-Q Design 	
Wellhead Multibowl ☒ Flex Hose ☒ Break Testing	Casing 3-String Well ☐ Liner ☐ Fluid Filled ☐ Casing Clearance Cementing ☐ DV Tool ☐ Bradenhead ☐ Echometer ☒ Offline Cement ☐ Open Annulus ☐ Pilot Hole	
Special Requirements ☐ Capitan Reef ☐ Water Disposal ☐ COM ☒ Unit		

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The 11-3/4 inch surface casing shall be set at approximately **652** feet (a minimum of **70'** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. **Set depth adjusted per BLM geologist.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified

- and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater (including lead cement.)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is **cement to surface**. If cement does not circulate, see B.1.a, c-d above.
 3. The minimum required fill of cement behind the **5-1/2** inch production casing is at least **200 feet** into previous casing string. Operator shall provide method of verification.
 - If cement does not circulate to surface on the previous casing, this string must come to surface.

C. PRESSURE CONTROL

1. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.
2. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
3. Break testing has been approved for this well ONLY on those intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE**

working pressure and shall be higher than the MASP.) If in the event break testing is not utilized, then a full BOPE test would be conducted.

- a. Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation. **BOPE Break Testing is NOT permitted to drill the production hole section.**
- b. While in transfer between wells, BOPE shall be secured by the hydraulic carrier or cradle.
- c. A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- d. As a minimum, a full BOPE test shall be performed at 21-day intervals.
- e. In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**. Any well control event while drilling require notification to the BLM Petroleum Engineer (**575-706-2779**) prior to the commencement of any BOPE Break Testing operations.

D. SPECIAL REQUIREMENT(S)

Unit Wells:

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination:

A commercial well determination shall be submitted after production has been established for at least six months.

Offline Cementing

Offline cementing has been approved for **all hole sections, excluding production**. Contact the BLM prior to the commencement of any offline cementing procedure.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Contact Lea County Petroleum Engineering Inspection Staff:

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification

- matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the

pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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

General Information
Phone: (505) 629-6116

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

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

COMMENTS

Action 526470

COMMENTS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 526470
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
matthew.gomez	Invalid defining well reported on C-102.	12/23/2025

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CONDITIONS

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

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	If cement does not circulate to surface on any string, a Cement Bond Log (CBL) is required for that string of casing, if a CBL is unable to indicate sufficient cement coverage due to a lighter cement, a USI log may also be required. If strata isolation is not achieved, remediation will be required before further operations may commence.	12/23/2025
matthew.gomez	All conducted logs must be submitted to the OCD.	12/23/2025
matthew.gomez	Cement must be in place for at least eight hours and achieve a minimum compressive strength of 500 PSI before performing any further operations on the well.	12/23/2025
matthew.gomez	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.	12/23/2025
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	12/23/2025
matthew.gomez	Prior to production of this well a change to the well name/number is required to comply with the OCD well naming convention.	12/23/2025
matthew.gomez	All previous COA's still apply.	12/23/2025